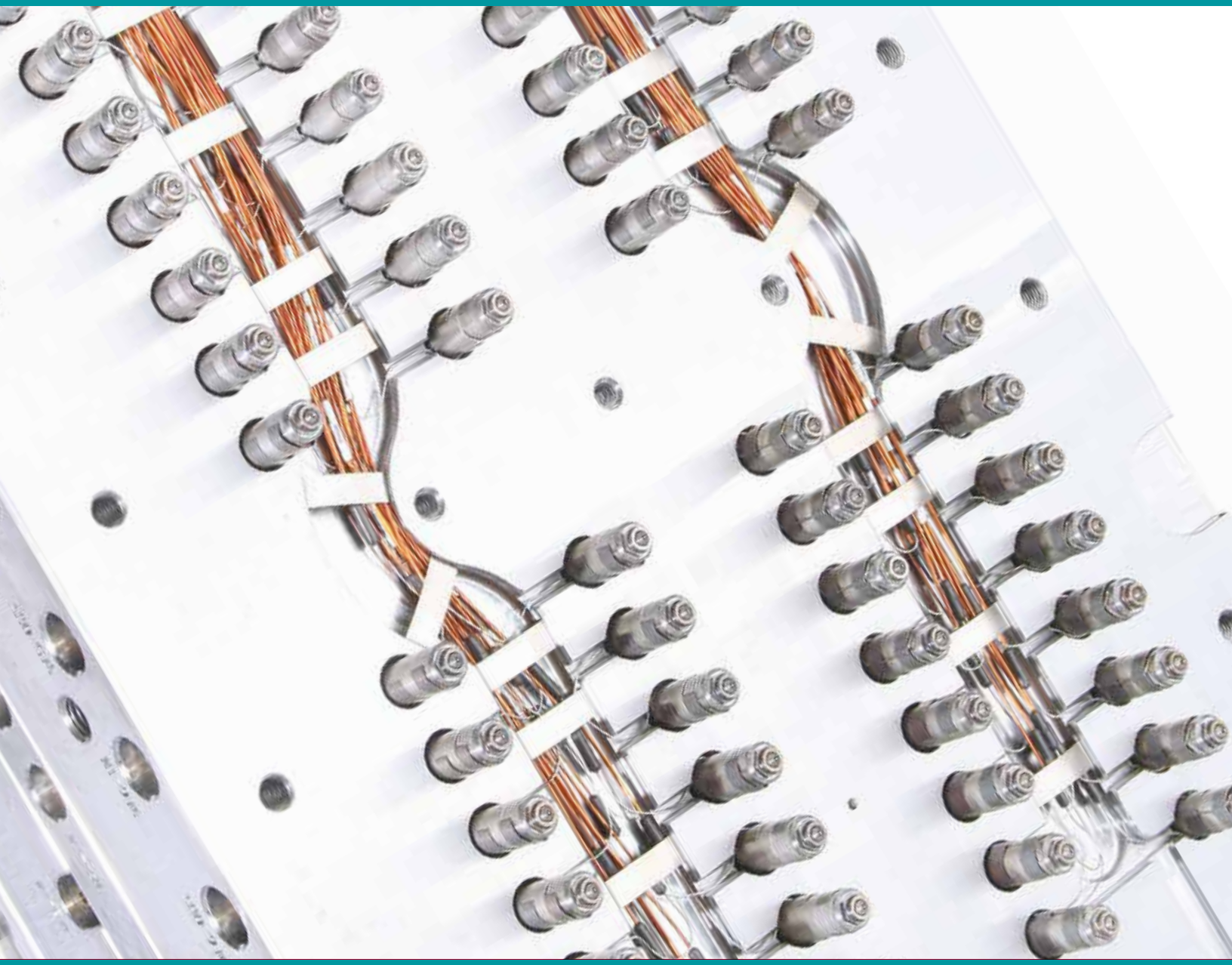
Mold Masters

Master® series

Resource Guide

version 8



Introduction
Global Locations and Regional Offices 00.00.001
International Representatives 00.00.002
Warranty Information 00.00.003
Release Details 00.00.003

Getting Started
Using This Guide 01.01.001
Gate Detail Page Map 01.01.004
Manifold Page Map 01.01.005
Important Notice 01.01.006

Catalog

Femto-Lite Nozzles
Gate Seal Options 03.01.001
Nozzle Power and Expansion Options 03.01.002
E-Type Torpedo 03.01.020
E-Type Torpedo (Extended) 03.01.025
F-Type Torpedo 03.01.030
C-Sprue 03.01.040
Hot Sprue 03.01.050
C-Valve 03.01.060
Hot Valve 03.01.080
Accu-Valve CX 03.01.085
Accu-Valve MX 03.01.090
Cylindrical Hot Valve – LX (CHV-LX) 03.01.105

Femto Nozzles
Gate Seal Options 04.01.001
Nozzle Power and Expansion Options 04.01.002
E-Type Torpedo 04.01.020
E-Type Torpedo (Non-Visco) 04.01.025
F-Type Torpedo 04.01.030
C-Sprue 04.01.040
Hot Sprue 04.01.045
C-Valve (Compound B8A Nozzle) 04.01.060
C-Valve (Regular B1A Nozzle) 04.01.061
Hot Valve (Compound B8A Nozzle) 04.01.080
Hot Valve (Regular B1A Nozzle) 04.01.081
Accu-Valve CX (Compound B8A Nozzle) 04.01.085
Accu-Valve CX (Regular B1A Nozzle) 04.01.086
Accu-Valve MX (Compound B8A Nozzle) 04.01.095
Accu-Valve MX (Regular B1A Nozzle) 04.01.096
Cylindrical Hot Valve – LX (CHV-LX) (Compound B8A Nozzle) 04.01.105
Cylindrical Hot Valve – LX (CHV-LX) (Regular B1A Nozzle) 04.01.106
Cylindrical Hot Valve – CP (B8A Nozzle Body) 04.01.115
Cylindrical Hot Valve – CP (B1A Nozzle Body) 04.01.116

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Accu-Valve GX (B8A Nozzle Body) 04.01.120
Accu-Valve GX (B1A Nozzle Body) 04.01.121

Femto Manifolds
Manifold Pitch Ranges and Locator Options 04.02.001
1 Drop Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.010A
1 Drop Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.010B
1 Drop Sub Manifold - (Valve) w/ Btm Htr 04.02.011A
1 Drop Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.011B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.020A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.020B
2 in a row Sub Manifold - (Valve) Gate w/ Btm Htr 04.02.021A
2 in a row Sub Manifold - (Valve) Gate w/ Top & Btm Htr 04.02.021B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.022A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.022B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 04.02.023A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.023B
T Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.030A
T Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.030B
T Sub Manifold - (Valve) w/ Btm Htr 04.02.031A
T Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.031B
4 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.040A
4 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.040B
4 in a row Sub Manifold - (Valve) w/ Btm Htr 04.02.041A
4 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.041B
X Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.050A
X Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.050B
X Sub Manifold - (Valve) w/ Btm Htr 04.02.051A
X Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.051B
H Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.060A
H Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.060B
H Sub Manifold - (Valve) w/ Btm Htr 04.02.061A
H Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.061B
XX Sub Manifold - (Sprue) 04.02.070
XX Sub Manifold - (Valve) 04.02.071
HH Sub Manifold - (Non-Valve) w/ Btm Htr 04.02.072A
HH Sub Manifold - (Non-Valve) w/ Top & Btm Htr 04.02.072B
HH Sub Manifold - (Valve) w/ Btm Htr 04.02.073A
HH Sub Manifold - (Valve) w/ Top & Btm Htr 04.02.073B

Femto Auxiliary
Single Nozzle w/ Unheated Machine Nozzle Pad 04.03.010
Single Nozzle w/ Heated Machine Nozzle Pad 04.03.020

Pico Nozzles
Gate Seal Options 05.01.001
Nozzle Power and Expansion Options 05.01.002
E-Type Torpedo 05.01.020
E-Type Torpedo (Non-Visco) 05.01.025
F-Type Torpedo 05.01.030

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Bi-Metallic C-Sprue 05.01.040
Hot Sprue 05.01.050
Extended Hot Sprue 05.01.060
Spiral Hot Tip 05.01.070
Bi-Metallic C-Valve 05.01.080
Hot Valve 05.01.100
Accu-Valve CX 05.01.105
Accu-Valve MX 05.01.108
Cylindrical Hot Valve – LX (CHV-LX) 05.01.110
Cylindrical Hot Valve - CP 05.01.115
Accu-Valve GX 05.01.120
Tit-Edge 05.01.130
Tit-Edge Configurations 05.01.140

Pico Manifolds

Manifold Pitch Ranges and Locator Options 05.02.001
1 Drop Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.010A
1 Drop Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.010B
1 Drop Sub Manifold - (Valve) w/ Btm Htr 05.02.011A
1 Drop Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.011B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.020A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.020B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 05.02.021A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.021B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.022A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.022B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 05.02.023A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.023B
T Sub Manifold - (Valve) w/ Btm Htr 05.02.030A
T Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.030B
T Sub Manifold - (Valve) w/ Btm Htr 05.02.031A
T Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.031B
4 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.040A
4 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.040B
4 in a row Sub Manifold - (Valve) w/ Btm Htr 05.02.041A
4 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.041B
X Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.050A
X Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.050B
X Sub Manifold - (Valve) w/ Btm Htr 05.02.051A
X Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.051B
H Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.060A
H Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.060B
H Sub Manifold - (Valve) w/ Btm Htr 05.02.061A
H Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.061B
XX Sub Manifold - (Sprue) 05.02.070
XX Sub Manifold - (Valve) 05.02.071
HH Sub Manifold - (Non-Valve) w/ Btm Htr 05.02.072A
HH Sub Manifold - (Non-Valve) w/ Top & Btm Htr 05.02.072B
HH Sub Manifold - (Valve) w/ Btm Htr 05.02.073A

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HH Sub Manifold - (Valve) w/ Top & Btm Htr 05.02.073B

Pico Auxiliary

Single Nozzle w/ Unheated Machine Nozzle Pad 05.03.010
Single Nozzle w/ Heated Machine Nozzle Pad 05.03.015
Water Cooled Gate Insert 05.03.050

Centi Nozzles

Gate Seal Options 06.01.001
Gate Seal Options - Continued 06.01.001-1
Nozzle Power and Expansion Options 06.01.002
E-Type Torpedo 06.01.020
E-Type Torpedo (Non-Visco) 06.01.025
F-Type Torpedo 06.01.030
Bi-Metallic C-Sprue 06.01.040
Hot Sprue 06.01.050
Extended Hot Sprue 06.01.060
Spiral Hot Tip 06.01.070
Bi-Metallic C-Valve 06.01.080
Hot Valve 06.01.100
Accu-Valve CX 06.01.105
Accu-Valve MX 06.01.108
Cylindrical Hot Valve – LX (CHV-LX) 06.01.110
Cylindrical Hot Valve - CP 06.01.115
Accu-Valve GX 06.01.120
Tit-Edge 06.01.130
Tit-Edge Configurations 06.01.140
Multi Tip 06.01.160
Multi Tip Configurations 06.01.170
Melt-Disk 40 Horiz. Hot Tip w/ Inverted Melt-Link 06.01.180
Melt-Disk 40 Horiz. Hot Tip Configurations (A,C,D,E) 06.01.185
Melt-Disk 56 Horiz. Hot Tip w/ Inverted Melt-Link 06.01.190
Melt-Disk 56 Horiz. Hot Tip Configurations (A,C,D,E,S,T) 06.01.195
Melt-Disk 60 (15°) Angled Hot Tip w/ Inverted Melt-Link 06.01.200
Melt-Disk 60 (30°) Angled Hot Tip w/ Inverted Melt-Link 06.01.205
Melt-Disk 60 (45°) Angled Hot Tip w/ Inverted Melt-Link 06.01.210
Melt-Disk 60 (60°) Angled Hot Tip w/ Inverted Melt-Link 06.01.215
Melt Disk-60 Angled Configurations (A, C, D) 06.01.220
Melt-CUBE Configurations 06.01.235
Melt-CUBE Power and Expansion Values 06.01.237
Melt-CUBE 2I Pitch X = 0 ..... 06.01.240A
Melt-CUBE 2I Cavity (Angled Tip) 06.01.240B
Melt-CUBE 0H Pitch X = 40/50 ..... 06.01.245A
Melt-CUBE H Pitch X = 40/50 (Angled Tip) 06.01.245B
Melt-CUBE HH Pitch X = 20/30 ..... 06.01.250A
Melt-CUBE HH Pitch X = 20/30 (Angled Tip) 06.01.250B
Melt-CUBE HH Pitch X = 40/50 ..... 06.01.255A
Melt-CUBE HH Pitch X = 40/50 (Angled Tip) 06.01.255B
Melt-CUBE 2HH Pitch X = 20/30 ..... 06.01.260
Melt-CUBE with 15° Tip Angle 06.01.265

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Melt-CUBE with 30° Tip Angle 06.01.270
Melt-CUBE with 45° Tip Angle 06.01.275
Melt-CUBE with 60° Tip Angle 06.01.280
Melt-CUBE Horizontal Hot Tip 06.01.282A
Melt-CUBE Gate Detail 06.01.282B
Melt-CUBE Cover-Plate Options 06.01.287
Melt-CUBE Center Locator & Melt Transfer Link 06.01.290
Melt-CUBE Layout Horizontal Side by Side 06.01.295A
Melt-CUBE Side by Side (Independent Layouts) 06.01.295B
Melt-CUBE Side by Side (Dependent Layouts) 06.01.300

Centi Manifolds

Manifold Pitch Ranges and Locator Options 06.02.001
1 Drop Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.010A
1 Drop Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.010B
1 Drop Sub Manifold - (Valve) w/ Btm Htr 06.02.011A
1 Drop Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.011B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.020A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.020B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 06.02.021A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.021B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.022A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.022B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 06.02.023A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.023B
T Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.030A
T Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.030B
T Sub Manifold - (Valve) w/ Btm Htr 06.02.031A
T Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.031B
4 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.040A
4 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.040B
4 in a row Sub Manifold - (Valve) w/ Btm Htr 06.02.041A
4 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.041B
X Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.050A
X Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.050B
X Sub Manifold - (Valve) w/ Btm Htr 06.02.051A
X Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.051B
H Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.060A
H Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.060B
H Sub Manifold - (Valve) w/ Btm Htr 06.02.061A
H Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.061B
XX Sub Manifold - (Sprue) 06.02.070
XX Sub Manifold - (Valve) 06.02.071
HH Sub Manifold - (Non-Valve) w/ Btm Htr 06.02.072A
HH Sub Manifold - (Non-Valve) w/ Top & Btm Htr 06.02.072B
HH Sub Manifold - (Valve) w/ Btm Htr 06.02.073A
HH Sub Manifold - (Valve) w/ Top & Btm Htr 06.02.073B

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Centi Auxiliary

Single Nozzle (Sprue) w/ Unheated Machine Nozzle Pad 06.03.010
Single Nozzle (Sprue) w/ Heated Machine Nozzle Pad 06.03.015
Single Nozzle (Valve) - Inline Actuator (pg 1) 06.03.031
Single Nozzle (Valve) - Inline Actuator (pg 2) 06.03.032
Slimstack Actuator (pg 1) 06.03.041
Slimstack Actuator (pg 2) 06.03.042
Slimstack Actuator (pg 3) 06.03.043
Water Cooled Gate Insert 06.03.070

Deci Nozzles

Gate Seal Options 07.01.001
Nozzle Power and Expansion Options 07.01.002
E-Type Torpedo 07.01.020
F-Type Torpedo 07.01.030
Bi-Metallic C-Sprue 07.01.040
Hot Sprue 07.01.050
Extended Hot Sprue 07.01.060
Spiral Hot Tlp 07.01.070
Bi-Metallic C-Valve 07.01.080
Extended Bi-Metallic C-Valve 07.01.085
Hot Valve 07.01.100
Accu-Valve CX 07.01.105
Accu-Valve MX 07.01.108
Cylindrical Hot Valve – LX (CHV-LX) 07.01.120
Tit Edge 07.01.130
Tit-Edge Configurations 07.01.140
Multi-Tip 07.01.160
Multi-Tip Configurations 07.01.170

Deci Manifolds

Manifold Pitch Ranges and Locator Options 07.02.001
1 Drop Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.010A
1 Drop Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.010B
1 Drop Sub Manifold - (Valve) w/ Btm Htr 07.02.011A
1 Drop Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.011B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.020A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.020B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 07.02.021A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.021B
2 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.022A
2 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.022B
2 in a row Sub Manifold - (Valve) w/ Btm Htr 07.02.023A
2 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.023B
T Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.030A
T Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.030B
T Sub Manifold - (Valve) w/ Btm Htr 07.02.031A
T Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.031B
4 in a row Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.040A
4 in a row Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.040B

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4 in a row Sub Manifold - (Valve) w/ Btm Htr 07.02.041A
4 in a row Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.041B
X Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.050A
X Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.050B
X Sub Manifold - (Valve) w/ Btm Htr 07.02.051A
X Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.051B
H Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.060A
H Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.060B
H Sub Manifold - (Valve) w/ Btm Htr 07.02.061A
H Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.061B
XX Sub Manifold - (Sprue) 07.02.070
XX Sub Manifold - (Valve) 07.02.071
HH Sub Manifold - (Non-Valve) w/ Btm Htr 07.02.072A
HH Sub Manifold - (Non-Valve) w/ Top & Btm Htr 07.02.072B
HH Sub Manifold - (Valve) w/ Btm Htr 07.02.073A
HH Sub Manifold - (Valve) w/ Top & Btm Htr 07.02.073B
Typical Manifold Configuration 07.02.080
Non-Valved Manifold End 07.02.090
Valved Manifold End 07.02.100
2 In-Line Manifold (bolt-in) 07.02.110
2 In-Line Manifold (bolt-in) with Inlet Extension 07.02.120
X Manifold (bolt-in) 07.02.130

Deci Auxiliary
Single Nozzle (Sprue) w/ Unheated Machine Nozzle Pad 07.03.010
Single Nozzle (Sprue) w/ Heated Machine Nozzle Pad 07.03.015
Single Nozzle (Valve) with Inline Actuator (p. 1) 07.03.031
Single Nozzle (Valve) with Inline Actuator (p. 2) 07.03.032
Water Cooled Gate Insert 07.03.080

Hecto Nozzles
Gate Seal Options 08.01.001
Nozzle Power and Expansion Options 08.01.002
E-Type Torpedo 08.01.020
F-Type Torpedo 08.01.030
Bi-Metallic C-Sprue 08.01.040
Hot Sprue 08.01.050
Extended Hot Sprue 08.01.060
Spiral Hot Tip 08.01.070
Bi-Metallic C-Valve 08.01.080
Hot Valve 08.01.090

Hecto Manifolds
Manifold Pitch Ranges and Locator Options 08.02.001
Non-Valved Manifold End 08.02.010
Valved Manifold End 08.02.020
Typical Manifold Configurations 08.02.030
2 In-Line Manifold (bolt-in) 08.02.040
2 In-Line Manifold (bolt-in) with Inlet Extension 08.02.050

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Hecto Auxiliary
Single Nozzle (Sprue) w/ Heated Machine Nozzle Pad 08.03.015
Single Nozzle (Valve) - Inline Actuator (p. 1) 08.03.031
Single Nozzle (Valve) - Inline Actuator (p. 2) 08.03.032
Water Cooled Gate Insert 08.03.070

Inlet Components
Locating Rings - Machine Nozzle Pads (BP22, BP23, BP58, BP64) 09.01.010
Locating Rings - Machine Nozzle Pads (BP25, BP27, BP67) 09.01.020
Locating Rings - Machine Nozzle Pads (BP22, BP23, BP57, BP68) 09.01.021
Locating Rings - Manifold Centre Htrs (CH0040) 09.01.030
Locating Ring - platenGUARD Manifold Centre Htrs (CH0040) 09.01.031
Locating Ring - platenGUARD Manifold Centre Htrs (CH0040) 09.01.040
Locating Rings - Machine Nozzle Pads (BP58) 09.01.041
Locating Rings - Machine Nozzle Pads (BP58) 09.01.042
Locating Ring - platenGUARD Manifold Centre Htrs (CH0040) 09.01.043
Locating Ring - Inlet Extensions (IE01, IE02, IE03) 09.01.050
Locating Ring - platenGUARD Inlet Extensions (IE01, IE02, IE03) 09.01.051
Locating Ring - Inlet Extensions (IE08, IE09) 09.01.060
Locating Ring - platenGUARD Inlet Extensions (IE08, IE09) 09.01.061
Locating Rings - platenGUARD Machine Nozzle Pads (BP45) 09.01.062
Locating Ring - Inlet Extensions (IE06, IE07) 09.01.070
Manifold Centre Heaters (CH0040A, CH0040B, CH0040i) 09.01.080
Machine Nozzle Pads (Unheated) (BP22, BP23, BP57, BP68, BP80) 09.01.090
Machine Nozzle Pads (Unheated) (BP25, BP27, BP67) 09.01.100
Machine Nozzle Pads (Heated) (BP58, BP64) 09.01.110
Inlet Extensions (IE01, IE02, IE03) 09.01.120
Inlet Extensions (IE08, IE09) 09.01.130
Inlet Extensions (IE06, IE07) 09.01.140
Manifold Centre Heaters (CH0040C) 09.01.150
Manifold Centre Heaters (CH0040D, CH0040G) 09.01.160

Manifold Components
Manifold Locators (ML0006, ML0015, ML0030, ML0040) 10.01.010
Man Pressure Disks (PD0011,PD0013,PD0014) Man Locating Cams (MLC003,MLC004) 10.01.020
Deci Manifold Heater Plates (HP0(100/101/102/103/104/112)BR) 10.01.030
Hecto Manifold Heater Plates (HP0106BR, HP0107BR) 10.01.040
Hecto Manifold Heater Plates (HP0105BR, HP0108BR, HP0109BR) 10.01.050
Hecto Manifold Heater Plates (HP0110BR, HP0111BR) 10.01.060
Main (Bridge) Manifold Steps (STEPBR03, STEPBR04) 10.01.070
Main (Bridge) Manifold 2 in a row Main Manifold 10.01.080
Main (Bridge) Manifold 2 in a row Main Manifold 10.01.090

Valve Components
Valve Actuator Selection Overview 11.01.010
Valve Disks 11.01.020
Valve Disks - Extended 2pc Inverted 11.01.021
Valve Disks / Pressure Disks Optional Mounting w/o Grinding 11.01.022
EcoDisk 11.01.023
HY5500* Valve Actuator 11.01.030

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HY550X* Valve Actuator 11.01.040
HY6500* Valve Actuator 11.01.050
HY650X* Valve Actuator 11.01.060
HY650XDAR* Valve Actuator (Anti-Rotation) 11.01.070
HY6500*AR Hydraulic/Pneumatic Valve Gate with Anti-Rotation 11.01.080
HY6600* / VPAC0009 Valve Actuator 11.01.090
HY6600*AR / VPAC0011 (Anti-Rotation) Valve Actuator 11.01.100
HY6700* Valve Actuator 11.01.110
HY6700*AR Valve Actuator (Anti-Rotation) 11.01.120
HY7100* Valve Actuator 11.01.150
HY7100*AR Valve Actuator (Anti-Rotation) 11.01.155
HY710X* Valve Actuator 11.01.160
HY710X*AR Valve Actuator (Anti-Rotation) 11.01.165
PN2300X* Valve Actuator 11.01.170
HY8400X* Valve Actuator 11.01.175
HY8500X* Valve Actuator 11.01.180
HY8600X* Valve Actuator (Anti-Rotation) 11.01.185
HY8600X* Valve Actuator 11.01.186
HY8700X* Valve Actuator 11.01.190
HY8800X* Valve Actuator 11.01.195
PN6400* Valve Actuator 11.01.200
PN6400*AR Valve Actuator (Anti-Rotation) 11.01.205
PN6410* Valve Actuator 11.01.210
PN6410*AR (Anti-Rotation) Valve Actuator 11.01.215
Actuator O-Ring Replacement Kits 11.01.300

Synchro-Plate
HY680SA Synchro-Plate 11.02.010
PN6400SA Synchro-Plate 11.02.015
Synchro-Plate E-Drive (With Basic Valve Pin Holder) 11.02.030
Synchro-Plate E-Drive (Servo) 11.02.035
Synchro-Plate E-Drive (Main Sub-Assemblies) 11.02.040
Synchro-Plate E-Drive (Overall Dimensions) 11.02.050
Servo Electric Valve Gate Actuator SE20-15 ..... 11.02.060
Servo Electric Valve Gate Actuator SE108C 11.02.070

Actuator Circuits
Actuator Circuits (Hydraulic Circuit Schematics) 11.03.010

Installation / Extraction Tools
Extraction / Installation Tool Overview 11.04.001
Actuator Extraction Tools 11.04.010
Actuator Extraction Tools 11.04.015
Actuator Extraction Tools 11.04.020
Actuator Extraction Tools 11.04.025
Actuator Extraction Tools 11.04.030
Actuator Extraction Tools 11.04.035
Actuator Extraction Tools 11.04.040
Valve Disk Extraction Tools 11.04.045

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Valve Disk Extraction Tools....11.04.047
Melt Cube Gate Seal Extraction Tool....11.04.048
Installation Tools....11.04.050

Miscellaneous
Wattage Equivalents....12.01.010
Thermocouple Retaining Clips....12.01.020
Thermocouples....12.01.030
Mold Connector Plugs....12.01.040
Electrical Box....12.01.050

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Mold Masters®

Warranty Information

For current warranty information please refer to the documents available from our website: https://www.moldmasters.com/index.php/support/warranty or contact your *Mold-Masters* representative.

Release Details

Release Details		
Document Number	**Revision Date**	**Version**
MS-RG-EN-00-07-4	September 2019	07-4
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MS-RG-EN-00-07-6	December 2019	07-6
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MS-RG-EN-00-08-2	August 2020	08-2
MS-RG-EN-00-08-3	September 2020	08-3
MS-RG-EN-00-08-4	September 2020	08-4
MS-RG-EN-00-08-5	September 2020	08-5
MS-RG-EN-00-08-6	October 2020	08-6
MS-RG-EN-00-08-7	October 2020	08-7
MS-RG-EN-00-08-8	November 2020	08-8
MS-RG-EN-00-08-9	December 2020	08-9
MS-RG-EN-00-08-10	January 2021	08-10
MS-RG-EN-00-08-11	February 2021	08-11

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Getting Started

Building your *Mold-Masters* hot runner system has never been easier. To better understand what information you will find in this resource guide, we have included a brief description of each section.

Overview

The resource guide is organized under two main sections; product lines and auxiliary components (used with more than one product line):

Product Line Section	Section #
Femto-Lite Nozzles	03.01.xxx
Femto Nozzles	04.01.xxx
Femto Manifolds	04.02.xxx
Femto Auxiliary Components	04.03.xxx
Pico Nozzles	05.01.xxx
Pico Manifolds	05.02.xxx
Pico Auxiliary Components	05.03.xxx
Centi Nozzles	06.01.xxx
Centi Manifolds	06.02.xxx
Centi Auxiliary Components	06.03.xxx
Deci Nozzles	07.01.xxx
Deci Manifolds	07.02.xxx
Deci Auxiliary Components	07.03.xxx
Hecto Nozzles	08.01.xxx
Hecto Manifolds	08.02.xxx
Hecto Auxiliary Components	08.03.xxx
Auxiliary Components Section	**Section #**
Inlet Components	09.01.xxx
Manifold Components	10.01.xxx
Valve Components	11.01.xxx
Miscellaneous (Wattage Equivalents, Thermocouple Info.)	12.01.xxx

Product Line Section

The product lines are organized by processing capacity from small to large parts.

Product line	Part size	Shot Weight / Gate
Femto-Lite	Small parts	up to 5 grams
Femto	Small parts	up to 10 grams
Pico	Medium parts	up to 20 grams
Centi	Medium parts	15 to 50 grams
Deci	Large parts	50 to 500 grams
Hecto	Large parts	500 to 3500 grams

Within each product line are three additional parts with specific design information:

Nozzle Design Information

Nozzle style and gate detail information with cut out dimensions for tip, sprue, edge and valve gate systems.

Manifold Design Information

Standard manifold configurations available within each product line.

Auxiliary Design Information

Additional components used with that product line, for example, nozzle pads, actuator valve gates, etc.

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Auxiliary Component Section

This portion of the catalog contains component design details for products that can be used with more than one product line. This section contains the following parts:

Inlet components - locating rings, inlet extension nozzles, both heated and non-heated backplate design data.

Manifold components - manifold locators, pressure disks, locating cams, heater plates, main manifold step and 2 in a row main manifold options.

Valve components - pneumatic and hydraulic actuators. References are made to appropriate product line(s) for each valve component.

Resource Guide Icons

Icons are used to help you navigate through the various sections of the guide. They are used to identify each section, as well as to point you in the direction of other related components that you may need to reference, for instance, nozzles, manifolds or accessories.


Nozzles


Actuators, Synchro-Plates, Tools


Manifolds, Manifold Components


Valve Components


Inlet Components and Auxiliary


Miscellaneous

Resource Guide Terminology

Mold-Masters uses various terms to refer to components listed in this resource guide. We recognize that these terms may differ from company to company, and so we have prepared the following cross-reference to help you identify various components throughout the resource guide.

Inlet Component:

The part of the hot runner system that makes contact with the machine nozzle. The machine nozzle radius (spherical radius) must be specified to suit the machine nozzle to be used. The machine nozzle should also have an opening to match the inlet component selected. Longer inlet components can be selected where valve actuators are to be used, or as required by the mold design.Refer to Inlet Component section for examples.
Alternate terms: sprue bushing, backplate, center heater, inlet extension, machine nozzle pad

Main Manifold:

Distributes melt from the inlet component to one or more sub-manifolds. Not always required on smaller hot runner systems. Refer to Manifold Component section for examples.
Alternate terms: bridge, distributor bar

Sub Manifold:

Distributes melt from the main manifold or inlet component to the individual nozzles. Refer to any Manifold section for examples.
Alternate terms: manifold, distributor

Nozzle:

Delivers melt from the manifold to the gate. Refer to any Nozzle section for examples.
Alternate terms: drop, hot drop, probe, heater, sprue, cast, heated bushing

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Gate Seal:
Connected to the nozzle, usually threaded into the nozzle. Provides a seal between the nozzle and the mold steel. Refer to any Nozzle section for examples.
Alternate terms: transfer seal, T-seal, tit-seal

Torpedo:
Pointed component usually inserted into the front of the nozzle and held in place by the gate seal. Used in certain gating techniques to conduct heat into the gate and to minimize gate vestige. Refer to any Nozzle section for examples.
Alternate terms: tip

Liner / Sprue:
Component held in place in the front of the nozzle by the gate seal. Used in certain valve and sprue gating techniques. Refer to any Nozzle section for examples.

Valve Pin:
Pin which shuts off in the gate on valve gating techniques. Refer to Valve Components section for examples.
Alternate terms: needle, shut-off pin, valve stem

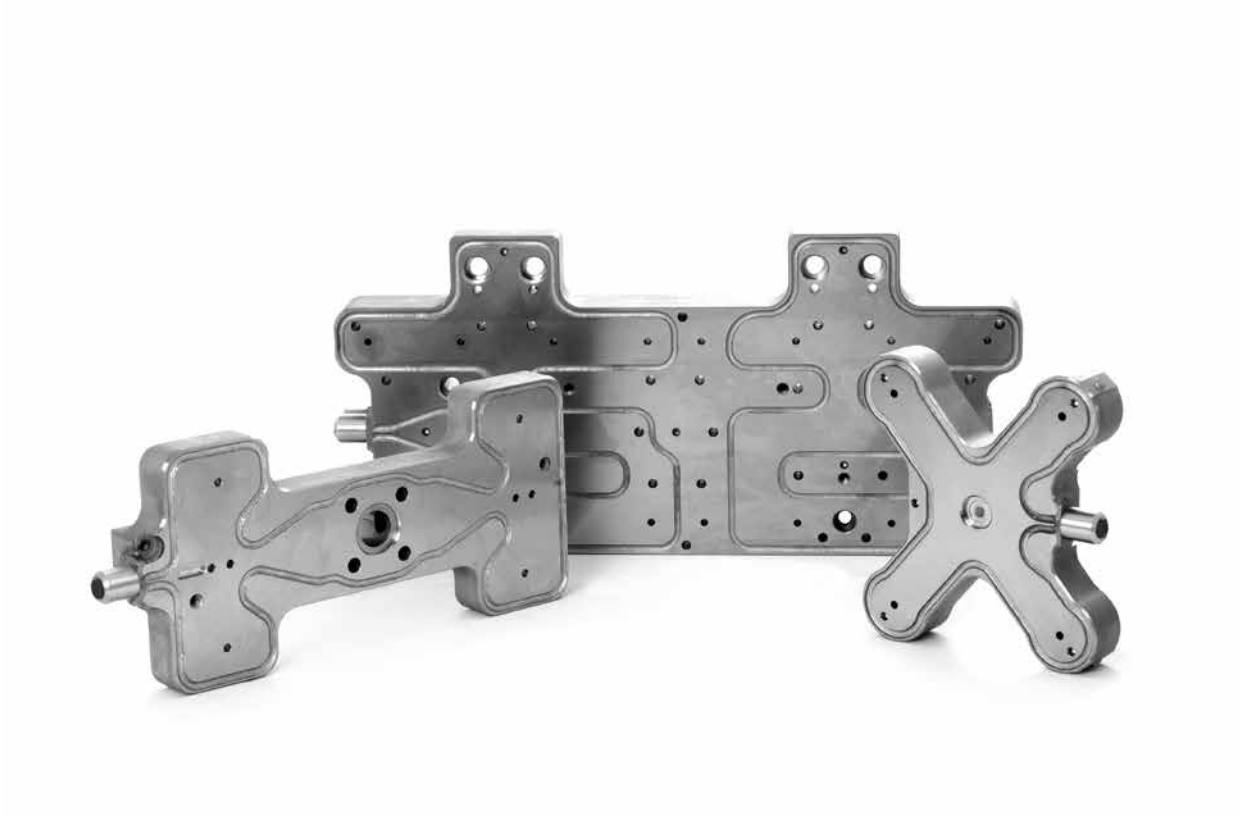
Valve Actuator:
Unit mounted into the top plate over the manifold to make the valve pins move. Can be operated by compressed air (pneumatic) or by pressurized oil (hydraulic). Refer to Valve Component section for examples.
Alternate terms: hydraulic unit, pneumatic unit, cylinder, piston

Locating Ring:
Ring used to position the system in the mold plate and the mold in the machine. Refer to Inlet Component section for examples.

Heater Plate:
A plate with a heater element that conveys heat to the manifold, used on bolt-in systems. Refer to Manifold Components Section for examples.

Nozzle Well:
Cutout in mold plate to fit nozzle. See any Nozzle section for examples.

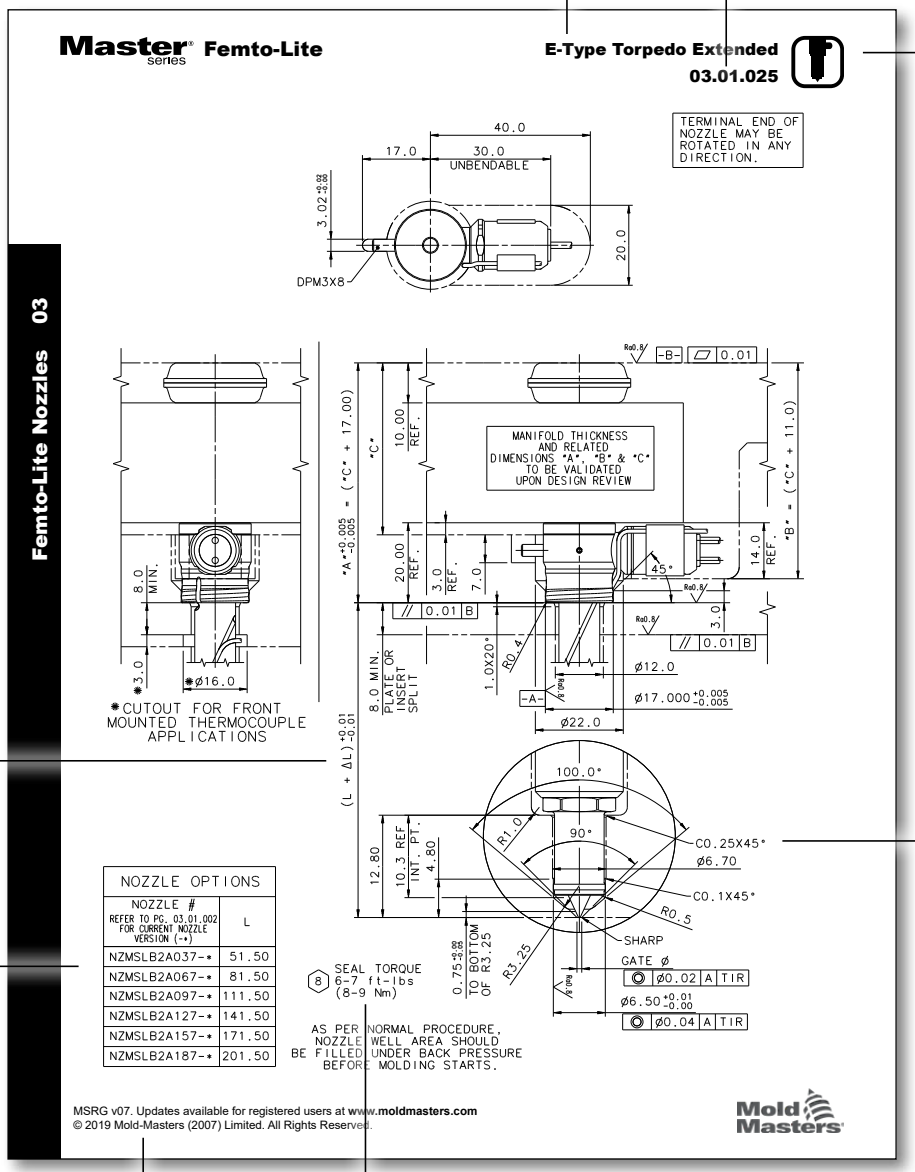
Step:
Additional spacer between manifold and nozzle. Used when needed. See Manifold Components section for examples.



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Gate Detail Page Map

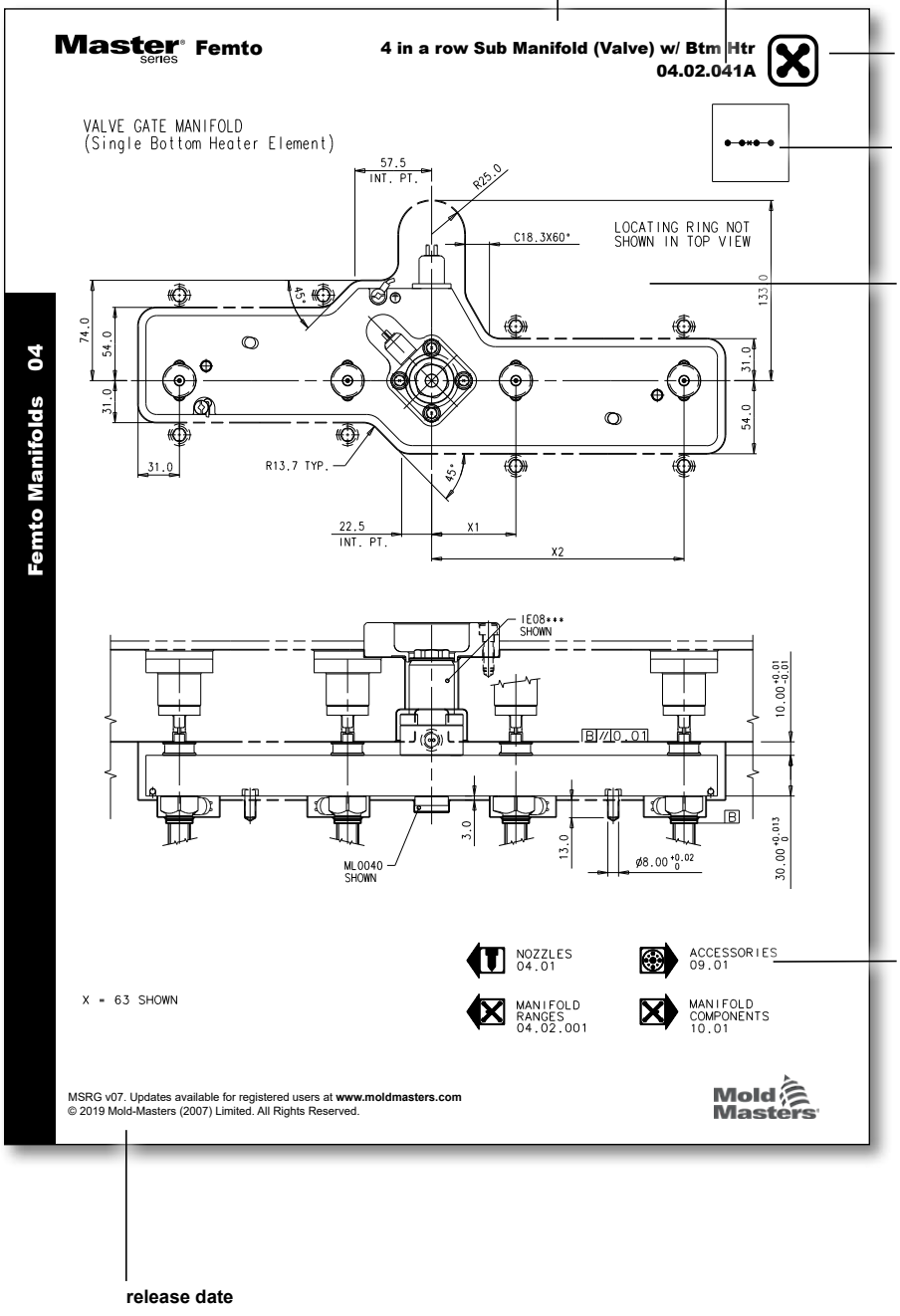
Please review this page for help with locating specific information on each gate detail page. Icons may also be used to direct you to other sections of the guide where related design information can be found.



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Manifold Page Map

Please review this page for help with locating specific information on each manifold page. Icons may also be used to direct you to other sections of the guide where related design information can be found.

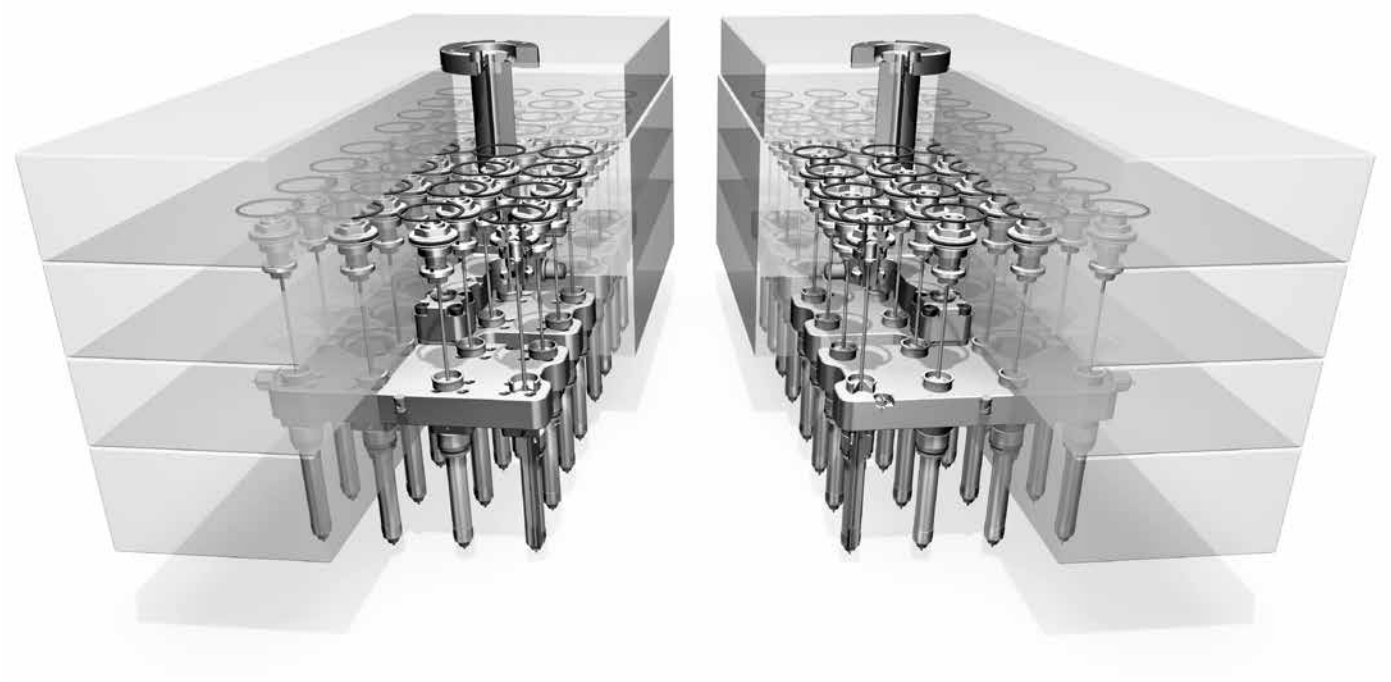


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Important Notice
It is important to always verify catalog page content by reviewing the latest version available. Please contact your local Hot Runner Specialist or nearest *Mold-Masters* office before commencing any final design work.

If you have any questions or need assistance, please contact your local *Mold-Masters* representative:

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GATING STYLE	PAGE	GATE ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
E-TYPE TORPEDO	03.01.020	ø 0.60 - ø 1.00	TSM068 + TPM018-2	TSM068P4 FOR PROCESSING TEMP. <280°C
			TSM068 + TPM018-1	TSM068P FOR PROCESSING TEMP. >280°C
EXTENDED E-TYPE TORPEDO	03.01.025	ø 0.60 - ø 1.00	TSM069 + TPM019-2	TSM069P4 FOR PROCESSING TEMP. <280°C
			TSM069 + TPM019-1	TSM069P FOR PROCESSING TEMP. >280°C
F-TYPE TORPEDO	03.01.030	ø 0.60	✳ TSM071 + TPM018-2	TSM071P2 FOR PROCESSING TEMP. <280°C
			TSM071 + TPM079 (WEAR RESISTANT)	TSM071P4 FOR PROCESSING TEMP. >280°C
		ø 0.80	✳ TSM072 + TPM018-2	TSM072P2 FOR PROCESSING TEMP. <280°C
			TSM072 + TPM079 (WEAR RESISTANT)	TSM072P4 FOR PROCESSING TEMP. >280°C
C-SPRUE	03.01.040	ø 1.00	TSM073	
		ø 1.50	TSM074	
HOT SPRUE	03.01.050	ø 0.60 - ø 1.50	TSM075 (ø 0.60 GATE SUPPLIED)	
C-VALVE	03.01.060	ø 1.00 - ø 1.50	TSM207-1	
HOT VALVE	03.01.080	ø 1.00	TSM208 (WITH 0.25MM EXTRA LENGTH)	
			TSM208F (LENGTH FINISHED)	
		ø 1.50	TSM209 (WITH 0.25MM EXTRA LENGTH)	
			TSM209F (LENGTH FINISHED)	
ACCU-VALVE CX	03.01.085	ø 1.40 (MAX.)	TSM210A	
ACCU-VALVE MX	03.01.095	ø 1.00 (MAX.)	TSM232A3	
CYLINDRICAL HOT VALVE (ACCU-VALVE LX)	03.01.105	ø 1.00	TSM296 (SUPPLIED WITH "H"=0.65)	
			TSM349 (SUPPLIED WITH "H"=1.50)	
		ø 1.20	TSM297 (SUPPLIED WITH "H"=0.65)	
			TSM350 (SUPPLIED WITH "H"=1.50)	

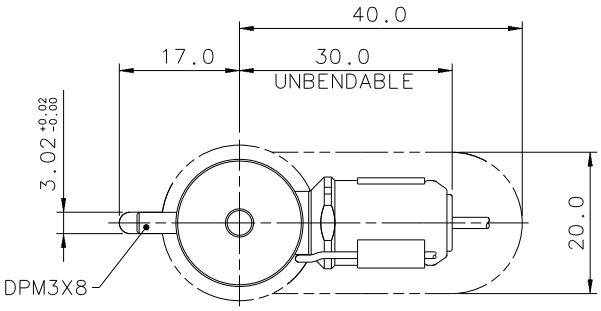
✳ APPLICATION DEPENDANT AND SUBJECTED TO TSE REVIEW

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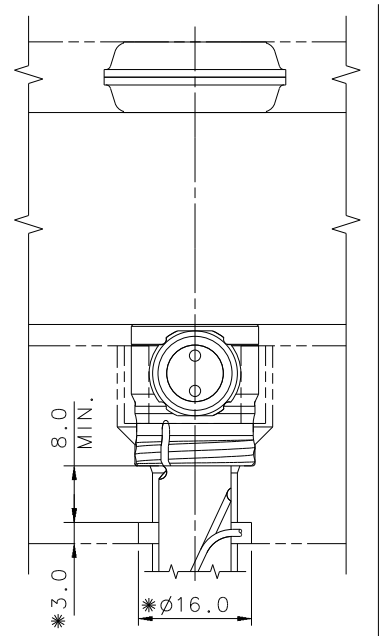
NOZZLE #	**POWER @ 220V
NZMSLB2A037-B	450W
NZMSLB2A067-B	375W
NZMSLB2A097-B	300W
NZMSLB8A097-G1	200W
NZMSLB2A127-B	300W
NZMSLB8A127-G1	225W
NZMSLB2A157-B	300W
NZMSLB8A157-G1	250W
NZMSLB2A187-B	300W
NZMSLB8A187-G1	290W
NZMSLB8A217-G1	330W
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	

APPLICABLE GATING METHODS	NOZZLE #	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
E-TYPE TORPEDO EXTENDED E-TYPE TORPEDO	NZMSLB2A037-B	0.099	0.143	0.189	0.238
	NZMSLB2A067-B	0.159	0.227	0.297	0.372
	NZMSLB2A097-B	0.213	0.298	0.387	0.481
	NZMSLB2A127-B	0.261	0.357	0.460	0.566
	NZMSLB2A157-B	0.303	0.403	0.515	0.626
	NZMSLB2A187-B	0.338	0.437	0.552	0.661
F-TYPE TORPEDO C-SPRUE HOT SPRUE	NZMSLB2A037-B	0.074	0.106	0.141	0.179
	NZMSLB2A067-B	0.129	0.183	0.242	0.304
	NZMSLB2A097-B	0.179	0.253	0.330	0.412
	NZMSLB2A127-B	0.226	0.314	0.407	0.501
	NZMSLB2A157-B	0.268	0.368	0.472	0.573
	NZMSLB2A187-B	0.307	0.415	0.525	0.627
C-VALVE HOT VALVE CYL. HOT VALVE ACCU-VALVE CX ACCU-VALVE MX	NZMSLB8A097-G1	0.250	0.348	0.438	0.538
	NZMSLB8A127-G1	0.305	0.410	0.520	0.630
	NZMSLB8A157-G1	0.350	0.473	0.598	0.725
	NZMSLB8A187-G1	0.400	0.540	0.680	0.825
	NZMSLB8A217-G1	0.455	0.615	0.775	0.945

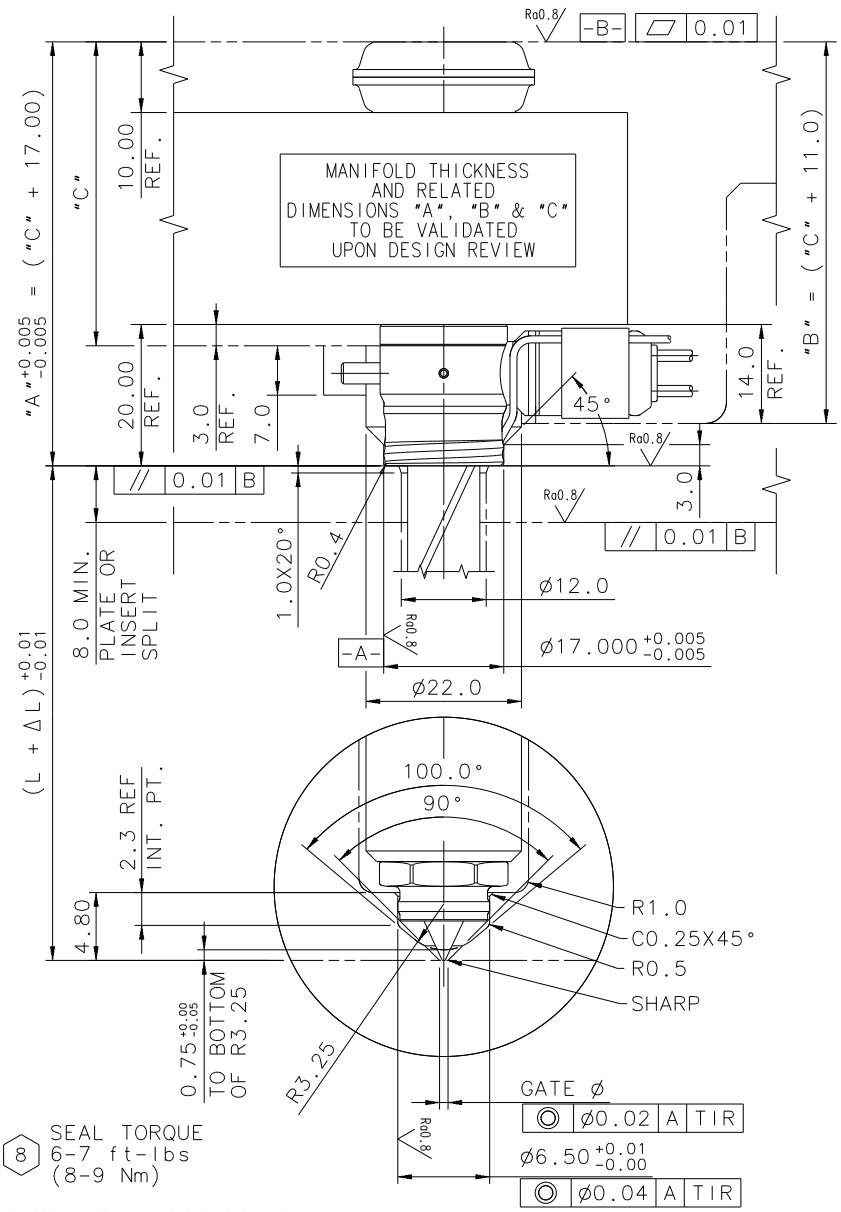
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TERMINAL END OF NOZZLE MAY BE ROTATED IN ANY DIRECTION.



✱CUTOUT FOR FRONT MOUNTED THERMOCOUPLE APPLICATIONS



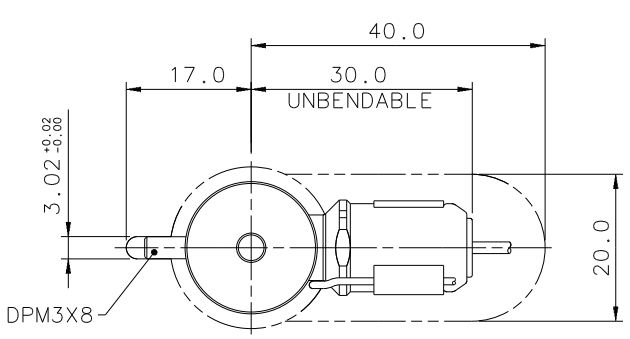
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSLB2A037-*	43.50
NZMSLB2A067-*	73.50
NZMSLB2A097-*	103.50
NZMSLB2A127-*	133.50
NZMSLB2A157-*	163.50
NZMSLB2A187-*	193.50

8 SEAL TORQUE 6-7 ft-lbs (8-9 Nm)

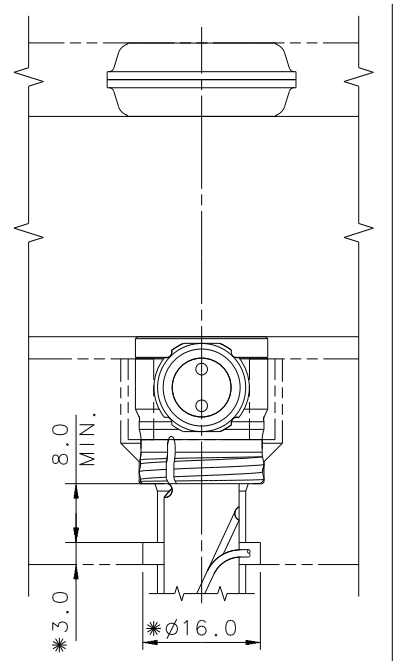
AS PER NORMAL PROCEDURE, NOZZLE WELL AREA SHOULD BE FILLED UNDER BACK PRESSURE BEFORE MOLDING STARTS.

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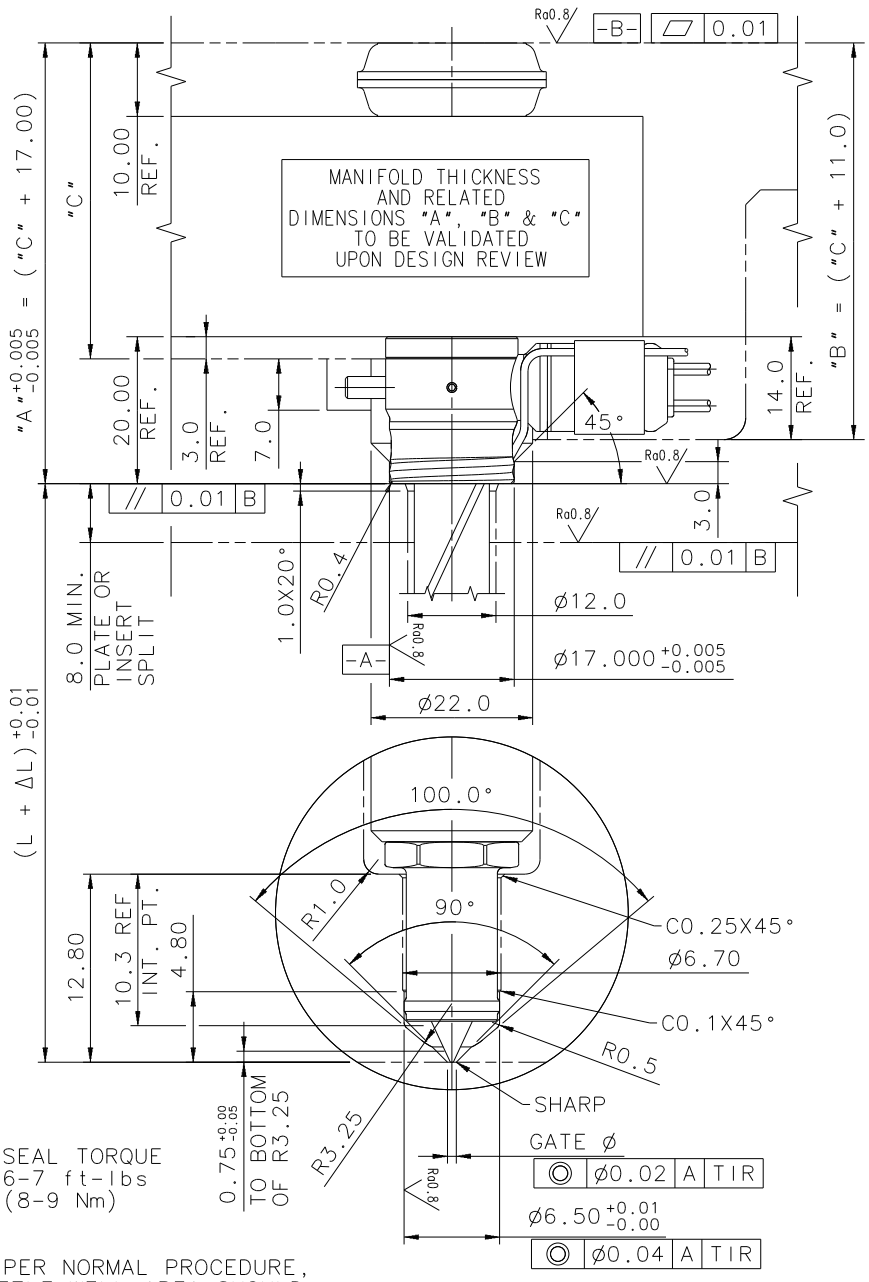
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TERMINAL END OF NOZZLE MAY BE ROTATED IN ANY DIRECTION.



✱CUTOUT FOR FRONT MOUNTED THERMOCOUPLE APPLICATIONS

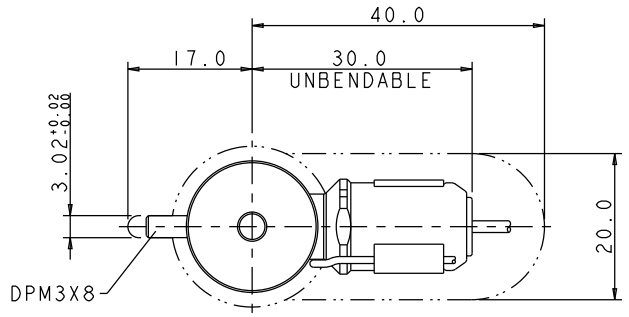


8 SEAL TORQUE 6-7 ft-lbs (8-9 Nm)

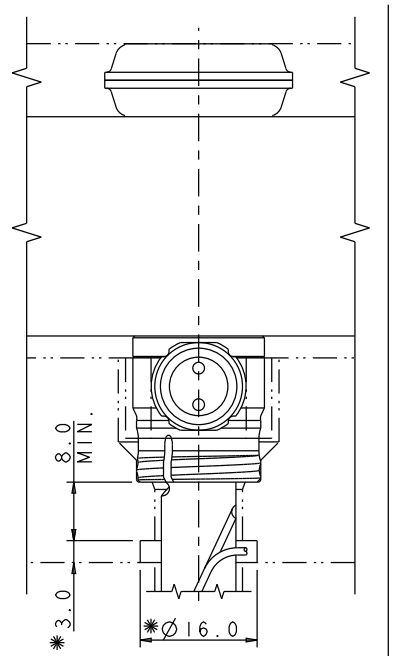
AS PER NORMAL PROCEDURE, NOZZLE WELL AREA SHOULD BE FILLED UNDER BACK PRESSURE BEFORE MOLDING STARTS.

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSLB2A037-*	51.50
NZMSLB2A067-*	81.50
NZMSLB2A097-*	111.50
NZMSLB2A127-*	141.50
NZMSLB2A157-*	171.50
NZMSLB2A187-*	201.50

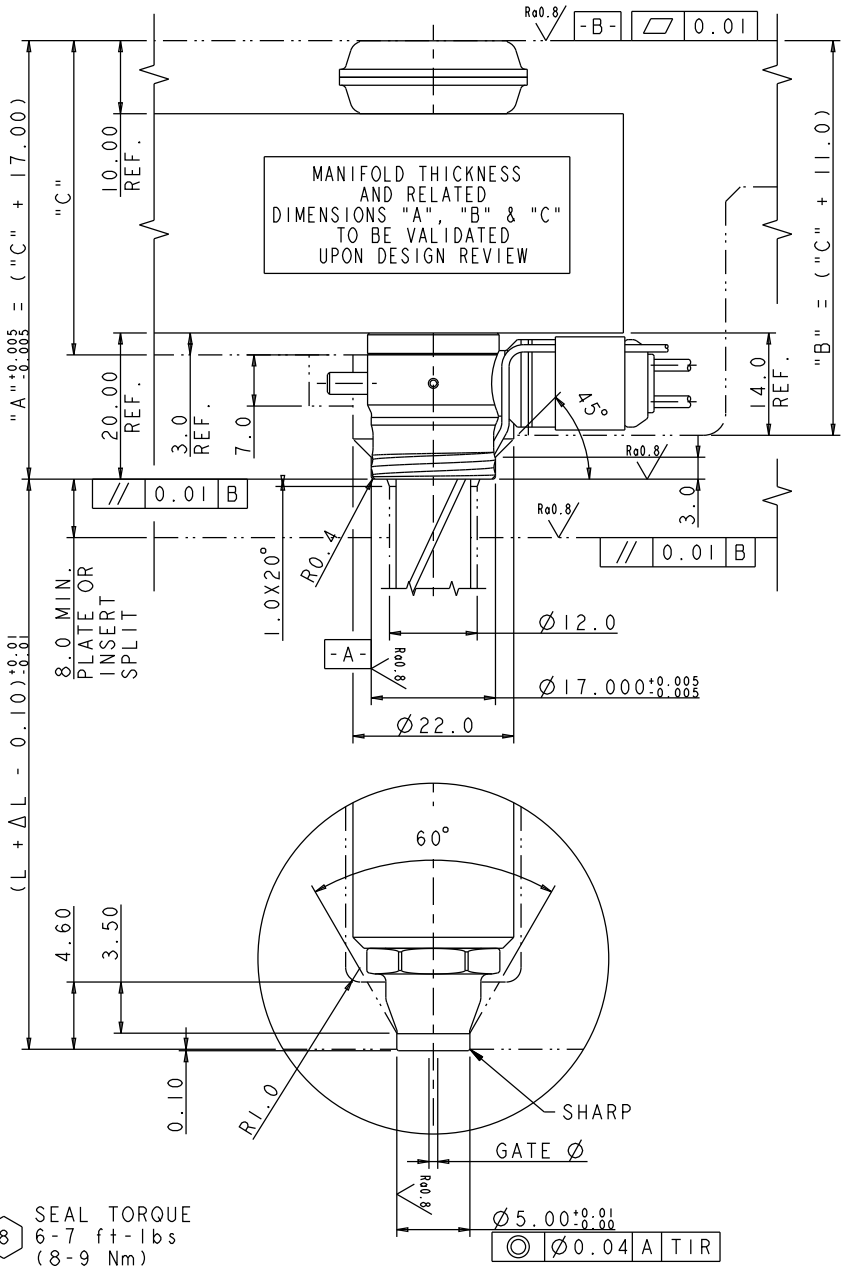
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TERMINAL END OF NOZZLE MAY BE ROTATED IN ANY DIRECTION.

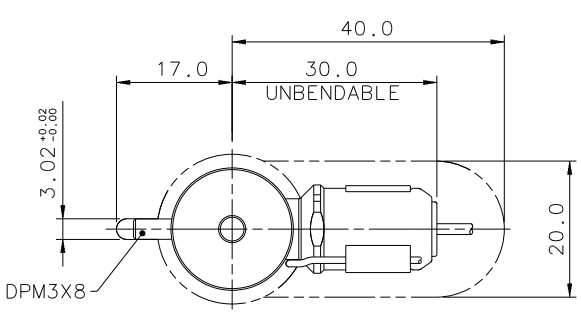


✱CUTOUT FOR FRONT MOUNTED THERMOCOUPLE APPLICATIONS

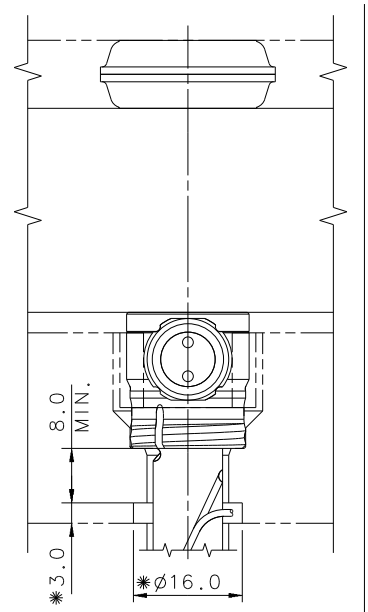


NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-✱)	L
NZMSLB2A037-✱	43.50
NZMSLB2A067-✱	73.50
NZMSLB2A097-✱	103.50
NZMSLB2A127-✱	133.50
NZMSLB2A157-✱	163.50
NZMSLB2A187-✱	193.50

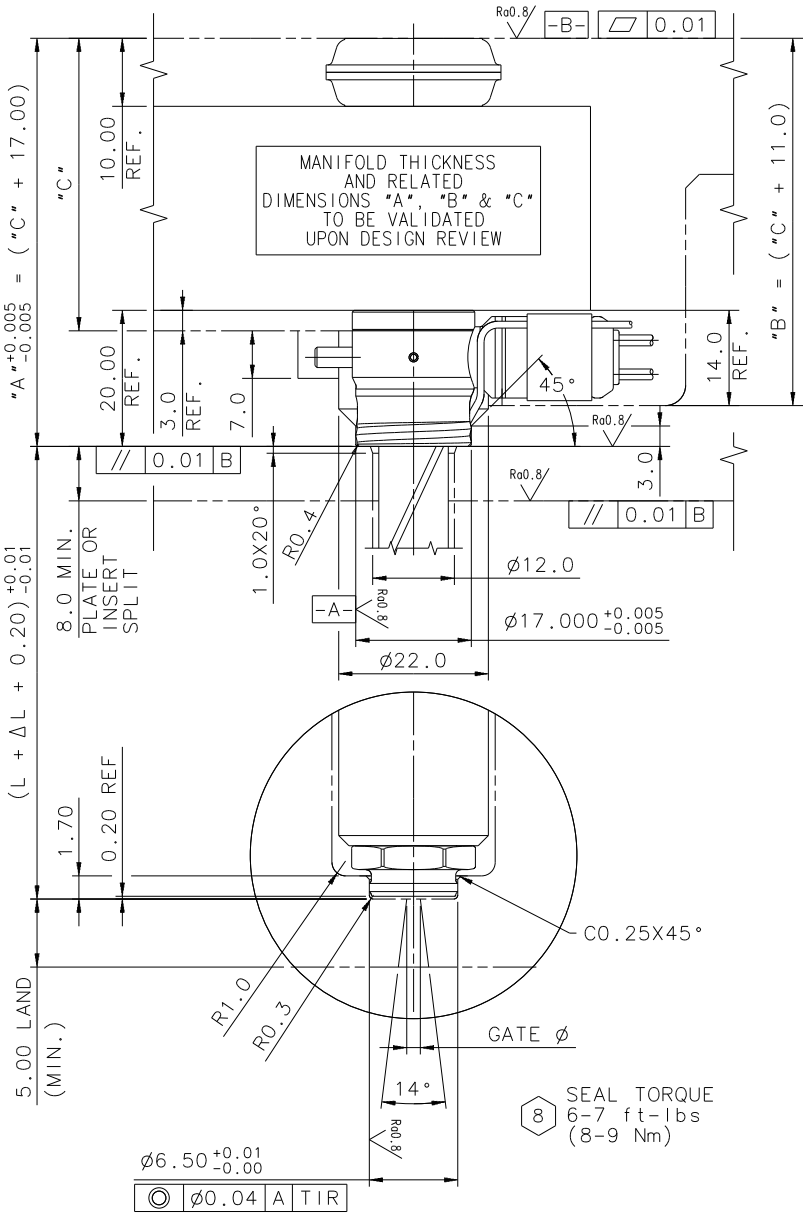
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TERMINAL END OF NOZZLE MAY BE ROTATED IN ANY DIRECTION.

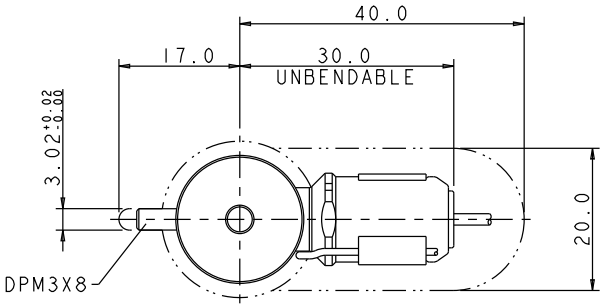


✱CUTOUT FOR FRONT MOUNTED THERMOCOUPLE APPLICATIONS

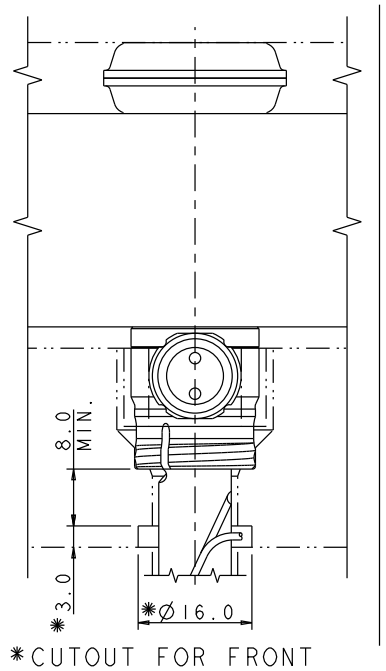


NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSLB2A037-*	40.30
NZMSLB2A067-*	70.30
NZMSLB2A097-*	100.30
NZMSLB2A127-*	130.30
NZMSLB2A157-*	160.30
NZMSLB2A187-*	190.30

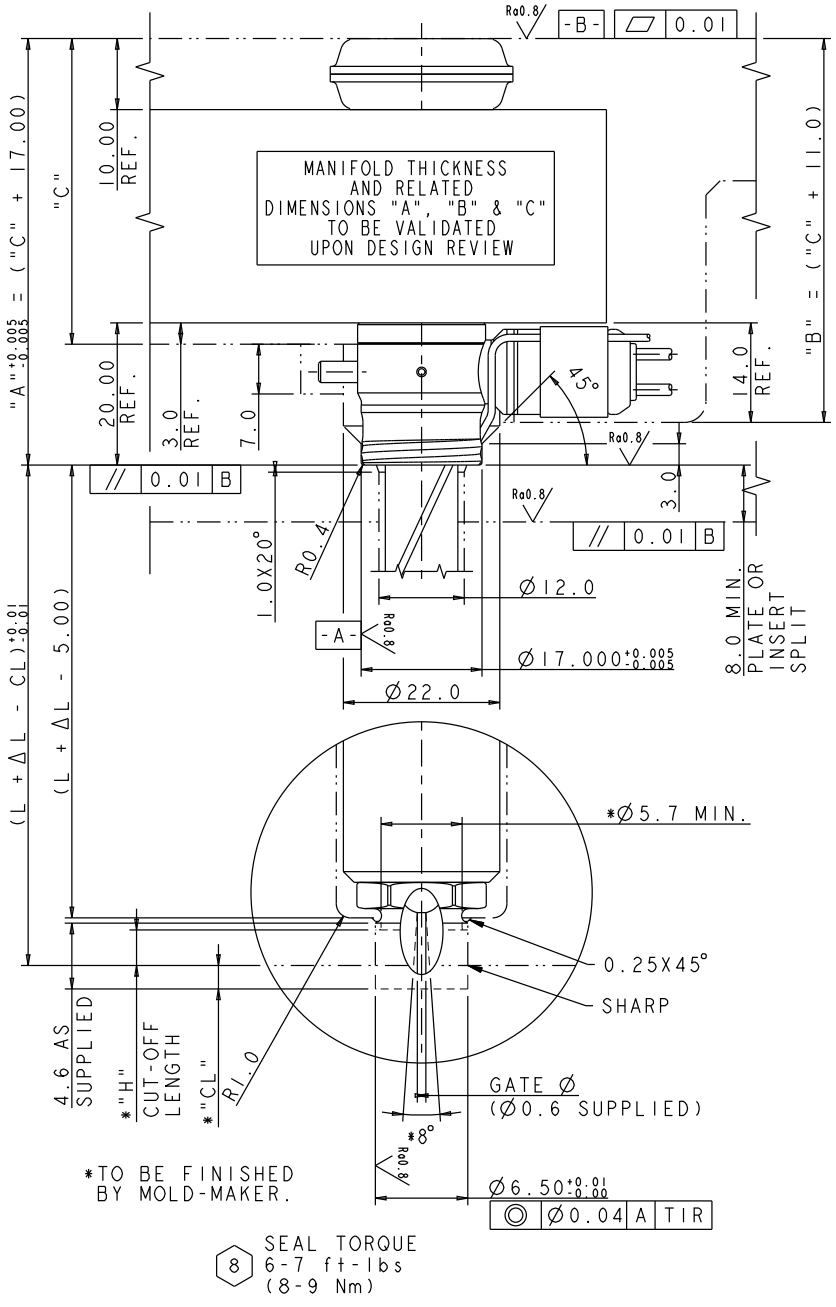
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TERMINAL END OF NOZZLE MAY BE ROTATED IN ANY DIRECTION.



*CUTOUT FOR FRONT MOUNTED THERMOCOUPLE APPLICATIONS



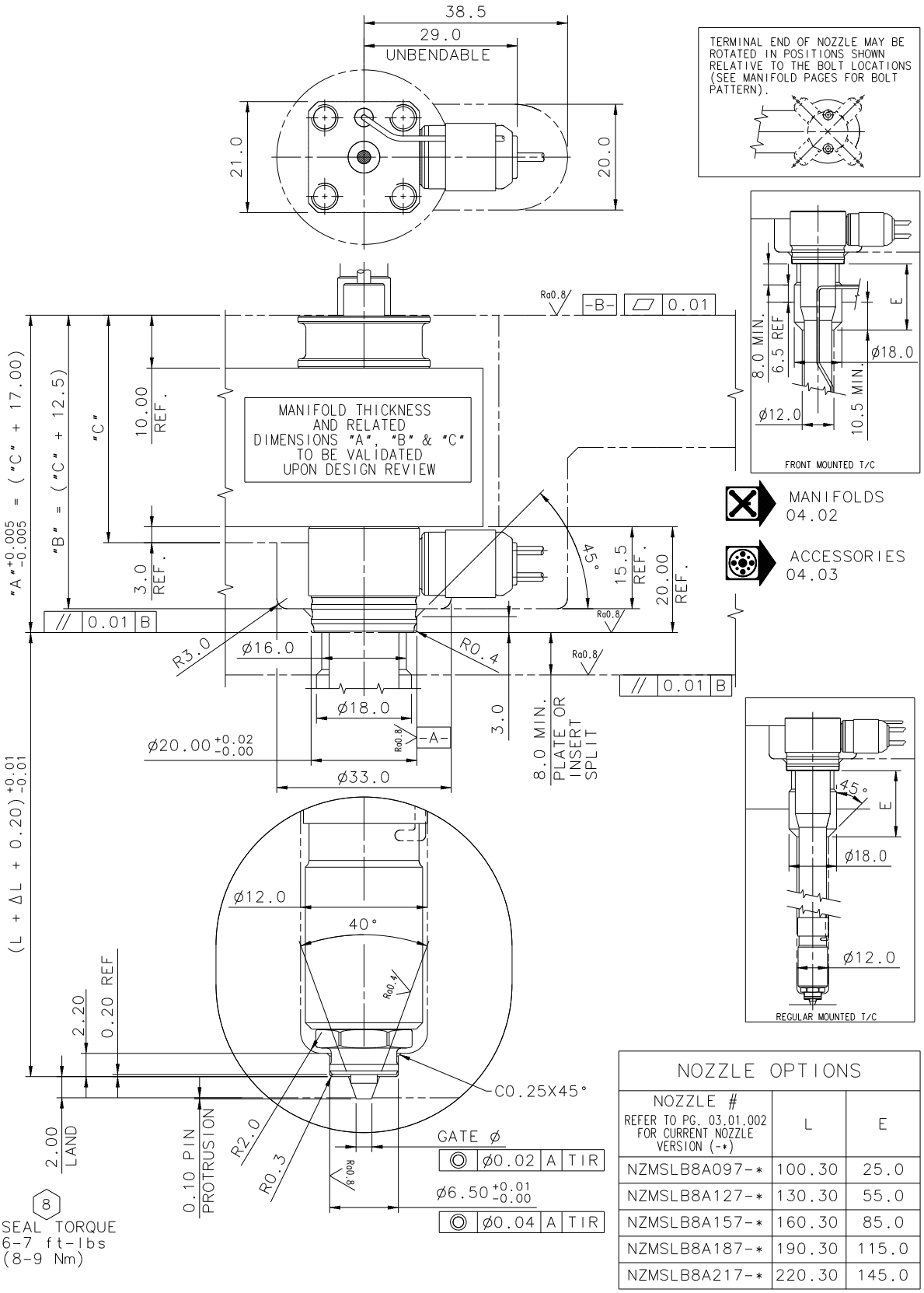
*TO BE FINISHED BY MOLD-MAKER.

POLYMER STRUCTURE	CONTACT LENGTH "*H"	MAX. CUT-OFF LENGTH "*CL"
FILLED CRYSTALLINE	1.50	3.10
CRYSTALLINE	2.50	2.10

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSLB2A037-*	44.00
NZMSLB2A067-*	74.00
NZMSLB2A097-*	104.00
NZMSLB2A127-*	134.00
NZMSLB2A157-*	164.00
NZMSLB2A187-*	194.00

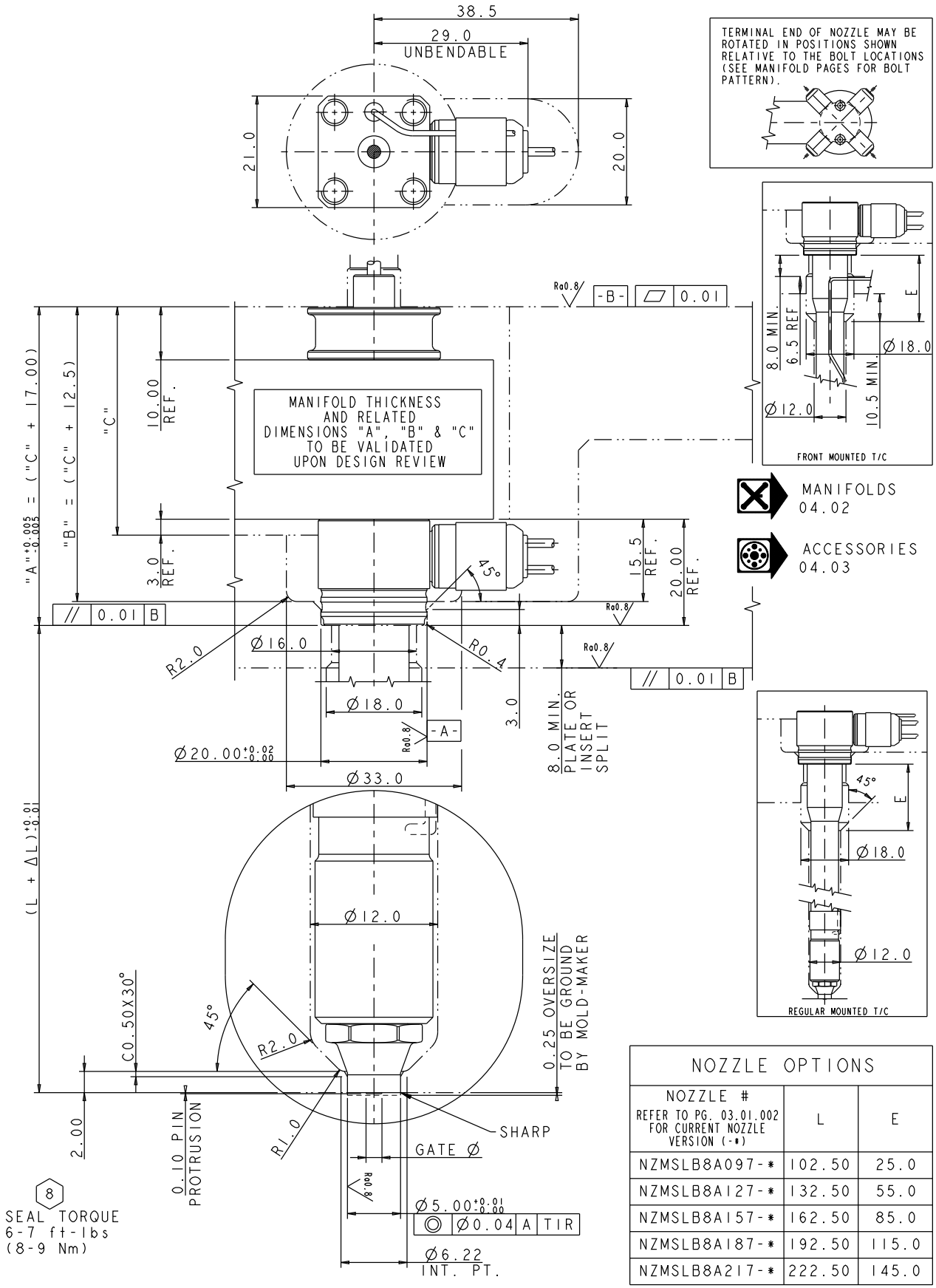
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NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	E
NZMSLB8A097-*	100.30	25.0
NZMSLB8A127-*	130.30	55.0
NZMSLB8A157-*	160.30	85.0
NZMSLB8A187-*	190.30	115.0
NZMSLB8A217-*	220.30	145.0

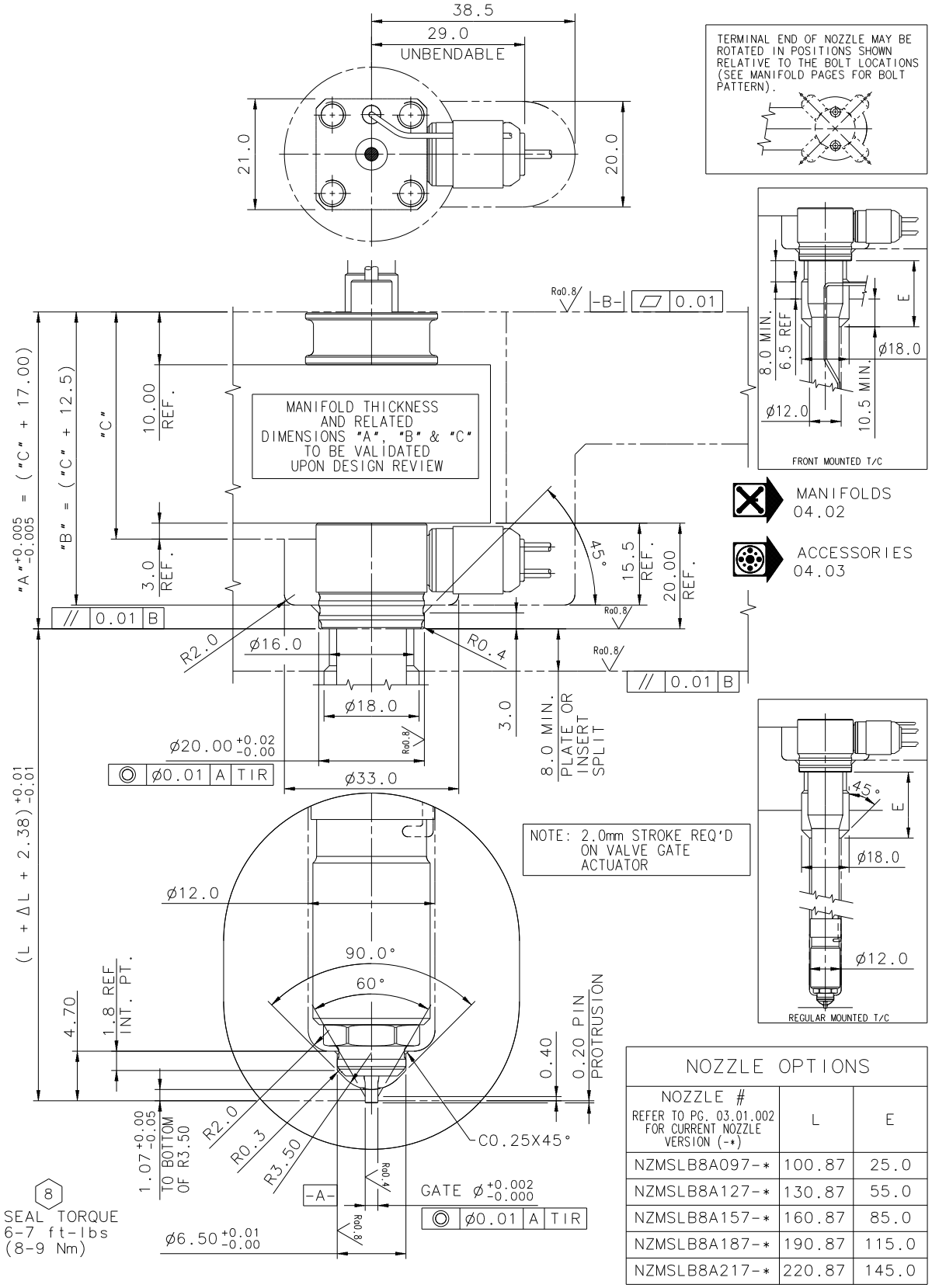
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NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	E
NZMSLB8A097-*	102.50	25.0
NZMSLB8A127-*	132.50	55.0
NZMSLB8A157-*	162.50	85.0
NZMSLB8A187-*	192.50	115.0
NZMSLB8A217-*	222.50	145.0

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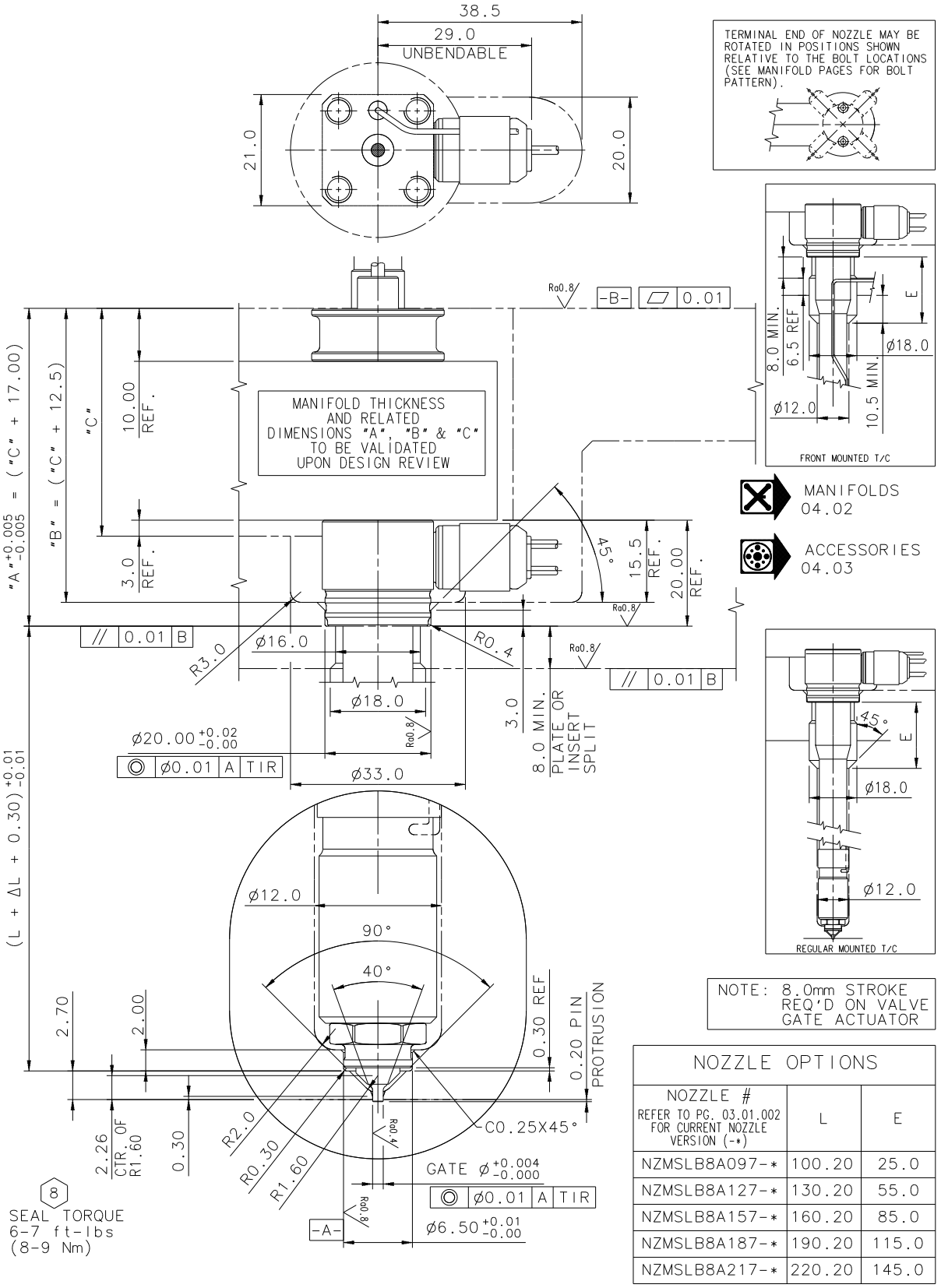


MANIFOLDS 04.02

ACCESSORIES 04.03

NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	E
NZMSLB8A097-*	100.87	25.0
NZMSLB8A127-*	130.87	55.0
NZMSLB8A157-*	160.87	85.0
NZMSLB8A187-*	190.87	115.0
NZMSLB8A217-*	220.87	145.0

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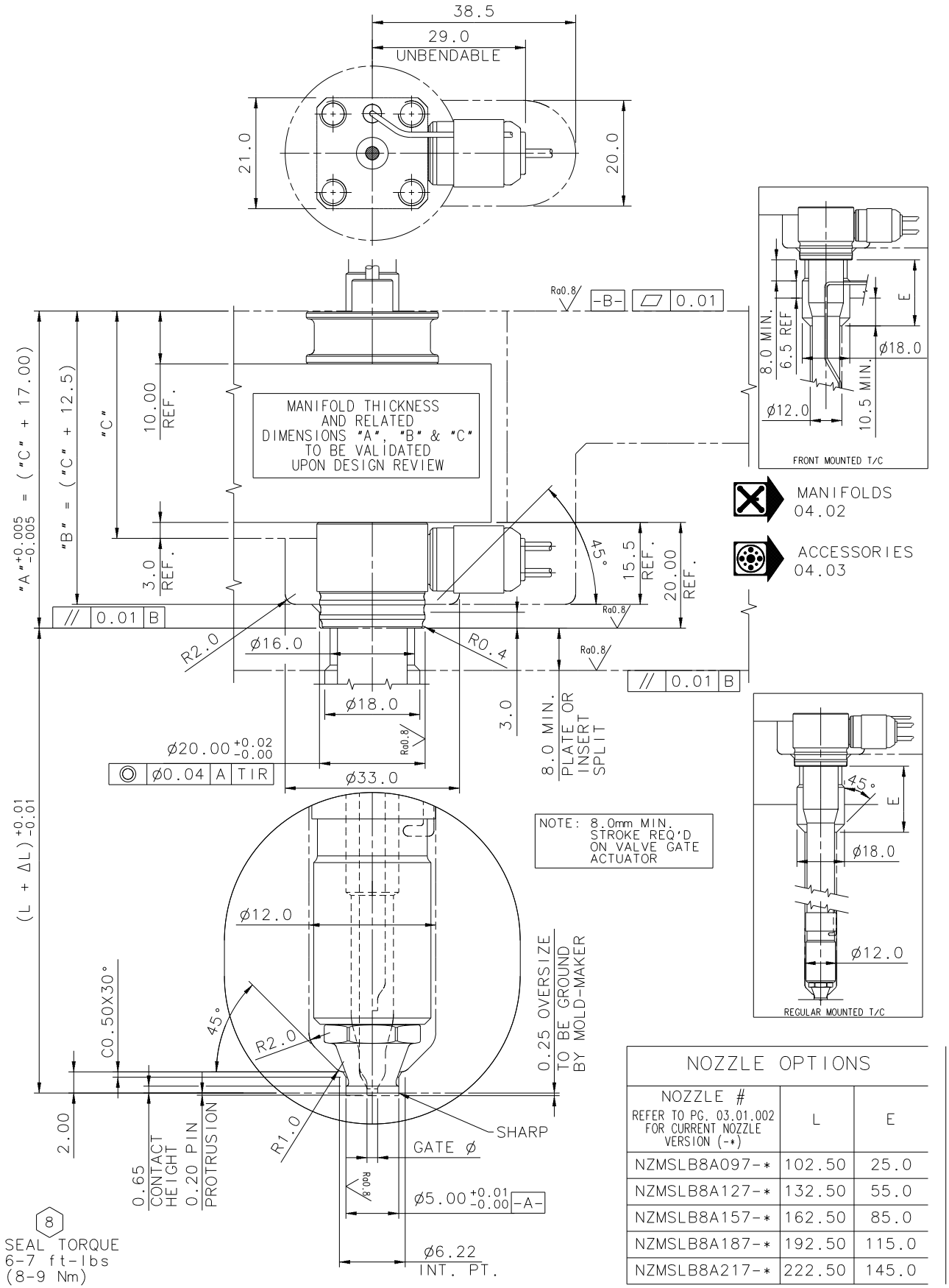


NOTE: 8.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	E
NZMSLB8A097-*	100.20	25.0
NZMSLB8A127-*	130.20	55.0
NZMSLB8A157-*	160.20	85.0
NZMSLB8A187-*	190.20	115.0
NZMSLB8A217-*	220.20	145.0

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NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 03.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	E
NZMSLB8A097-*	102.50	25.0
NZMSLB8A127-*	132.50	55.0
NZMSLB8A157-*	162.50	85.0
NZMSLB8A187-*	192.50	115.0
NZMSLB8A217-*	222.50	145.0

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GATING STYLE	PAGE	GATE ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
E-TYPE TORPEDO (VISCO)	04.01.020	ø 0.60 - ø 1.00	TSM200-1 + TPM022-2	TSM200P4 FOR PROCESSING TEMP. <280°C
			TSM200-1 + TPM022-1	TSM200P1 FOR PROCESSING TEMP. >280°C
E-TYPE TORPEDO (NON-VISCO)	04.01.025	ø 0.60 - ø 1.00	TSM201 + TPM022-2	TSM201P3 FOR PROCESSING TEMP. <280°C
			TSM201 + TPM022-1	TSM201P FOR PROCESSING TEMP. >280°C
F-TYPE TORPEDO	04.01.030	ø 0.80	✳ TSM202 + TPM022-2	TSM202P2 FOR PROCESSING TEMP. <280°C
			TSM202 + TPM080 (WEAR RESISTANT)	TSM202P4 FOR PROCESSING TEMP. >280°C
		ø 1.00	✳ TSM203 + TPM022-2	TSM203P2 FOR PROCESSING TEMP. <280°C
			TSM203 + TPM080 (WEAR RESISTANT)	TSM203P4 FOR PROCESSING TEMP. >280°C
C-SPRUE	04.01.040	ø 1.00	TSM204-1	
		ø 1.50	TSM205-1	
HOT SPRUE	04.01.045	ø 0.60 - ø 1.50	TSM206 (ø 0.60 GATE SUPPLIED)	
C-VALVE	04.01.060 & 04.01.061	ø 1.00 - ø 1.50	TSM207-1	
HOT VALVE	04.01.080 & 04.01.081	ø 1.00	TSM208 (WITH 0.25MM EXTRA LENGTH)	
			TSM208F (LENGTH FINISHED)	
		ø 1.50	TSM209 (WITH 0.25MM EXTRA LENGTH)	
			TSM209F (LENGTH FINISHED)	
ACCU-VALVE CX	04.01.085 & 04.01.086	ø 1.40 (MAX.)	TSM210A	
ACCU-VALVE MX	04.01.095 & 04.01.096	ø 1.00 (MAX.)	TSM232A3	
CYLINDRICAL HOT VALVE (ACCU-VALVE LX)	04.01.105 & 04.01.106	ø 1.00	TSM296 (SUPPLIED WITH "H"=0.65)	
			TSM349 (SUPPLIED WITH "H"=1.50)	
		ø 1.20	TSM297 (SUPPLIED WITH "H"=0.65)	
			TSM350 (SUPPLIED WITH "H"=1.50)	
CYLINDRICAL HOT VALVE - CP	04.01.115 & 04.01.116	ø 1.00	TSM393 (WITH 0.25MM EXTRA LENGTH)	
			TSM393F (LENGTH FINISHED)	
ACCU-VALVE GX	04.01.120 & 04.01.121	ø 1.00	TSM398A (WITH 0.25MM EXTRA LENGTH)	
			TSM398AF (LENGTH FINISHED)	

✳ APPLICATION DEPENDANT AND SUBJECTED TO TSE REVIEW

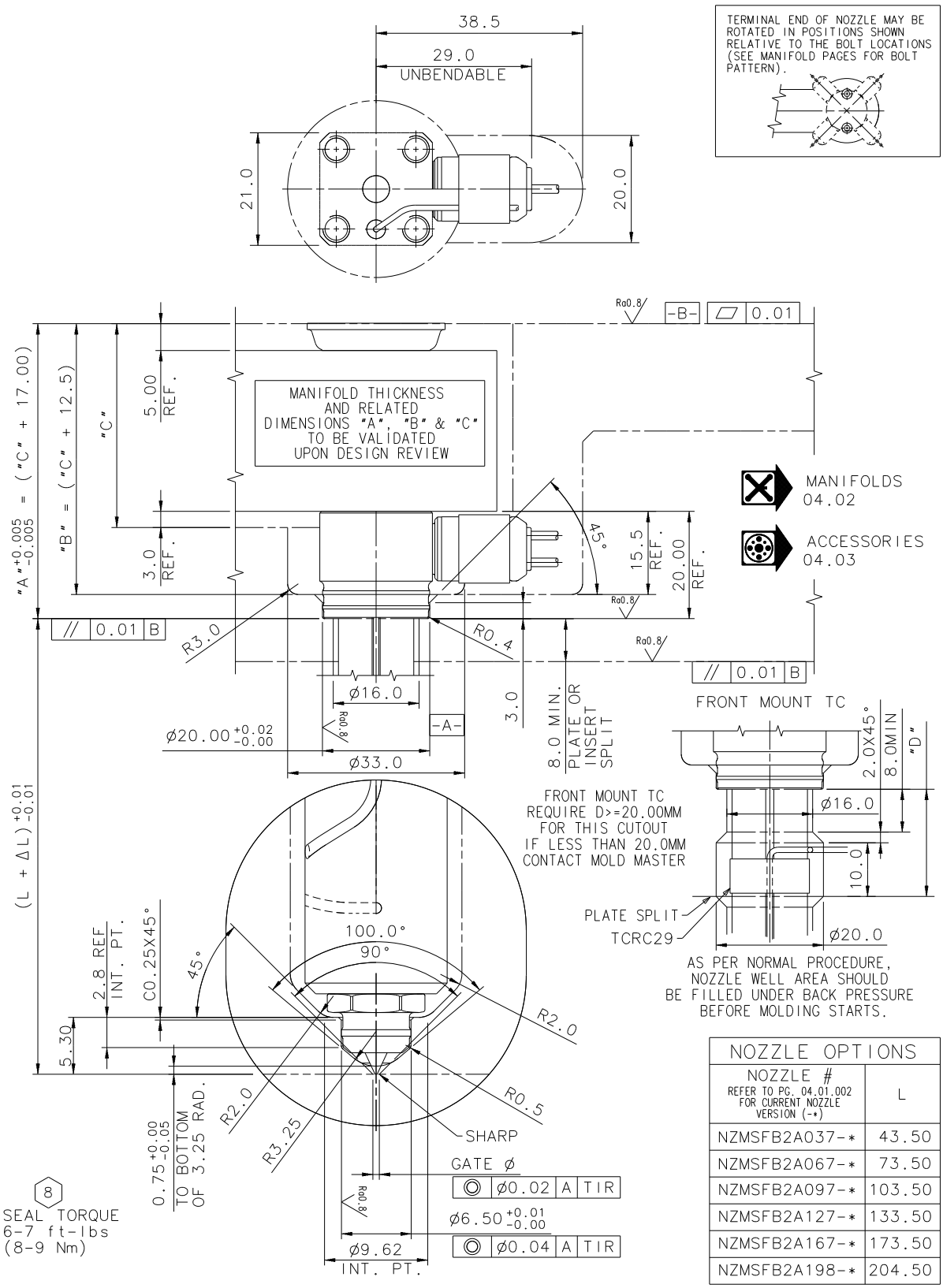
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NOZZLE #	**POWER @ 220V
NZMSFB1A037-G NZMSFB2A037-G	425W 425W
NZMSFB1A067-G NZMSFB2A067-G	350W 350W
NZMSFB1A097-G NZMSFB2A097-G	300W 300W
NZMSFB1A127-G NZMSFB2A127-G NZMSFB8A127-G	300W 300W 300W
NZMSFB1A167-G NZMSFB2A167-G NZMSFB8A167-G	300W 300W 350W
NZMSFB1A198-G NZMSFB2A198-G NZMSFB8A198-G	300W 300W 350W

**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

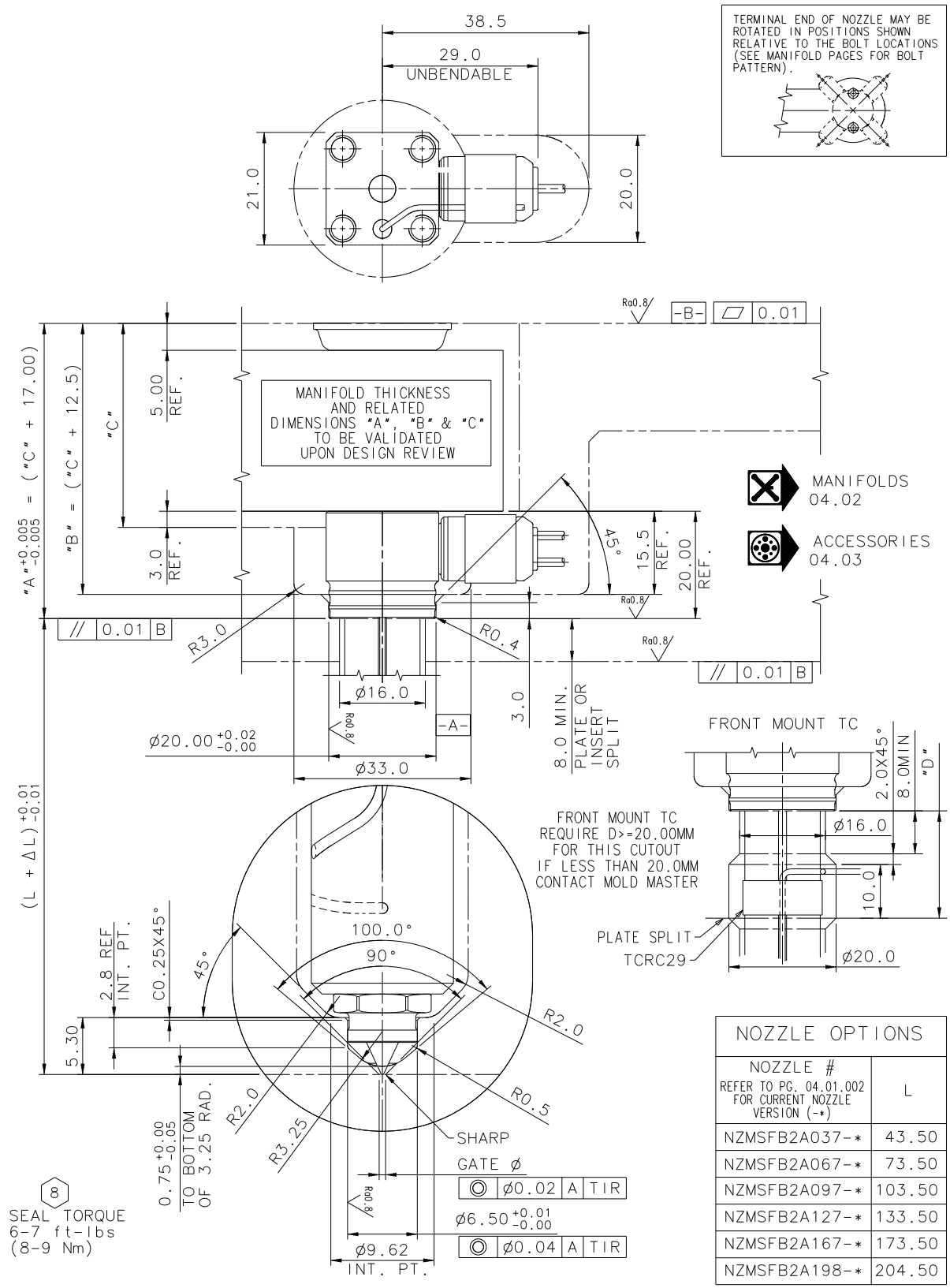
APPLICABLE GATING METHODS		NOZZLE #	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
			150°C	200°C	250°C	300°C
E-TYPE TORPEDO	B2A NOZZLE BODY	NZMSFB2A037-G	0.096	0.138	0.184	0.234
		NZMSFB2A067-G	0.160	0.228	0.301	0.381
		NZMSFB2A097-G	0.221	0.314	0.412	0.517
		NZMSFB2A127-G	0.281	0.396	0.515	0.642
		NZMSFB2A167-G	0.358	0.499	0.641	0.791
		NZMSFB2A198-G	0.421	0.584	0.756	0.923
F-TYPE TORPEDO C-SPRUE HOT SPRUE C-VALVE HOT VALVE CYL. HOT VALVE ACCU-VALVE CX ACCU-VALVE MX CYL. HOT VALVE - CP ACCU-VALVE GX	B1A/B2A NOZZLE BODY	NZMSFB*A037-G	0.086	0.123	0.164	0.208
		NZMSFB*A067-G	0.145	0.208	0.274	0.345
		NZMSFB*A097-G	0.204	0.291	0.382	0.477
		NZMSFB*A127-G	0.263	0.373	0.487	0.604
		NZMSFB*A167-G	0.341	0.482	0.623	0.765
		NZMSFB*A198-G	0.413	0.574	0.742	0.911
C-VALVE HOT VALVE CYL. HOT VALVE ACCU-VALVE CX ACCU-VALVE MX CYL. HOT VALVE - CP ACCU-VALVE GX	B8A NOZZLE BODY					
		NZMSFB8A127-G	0.310	0.412	0.518	0.622
		NZMSFB8A167-G	0.352	0.478	0.605	0.732
		NZMSFB8A198-G	0.367	0.512	0.654	0.795

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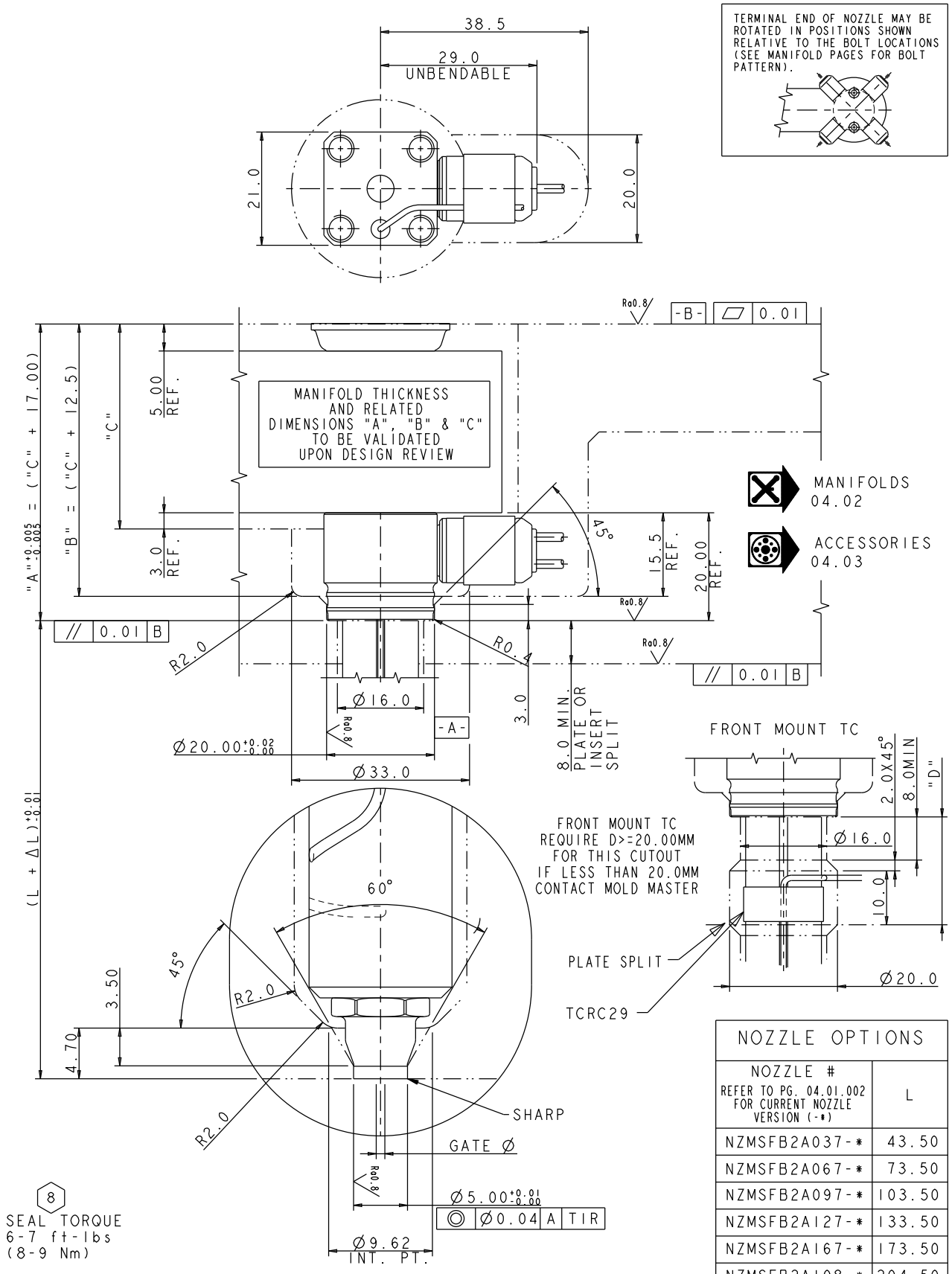
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB2A037-*	43.50
NZMSFB2A067-*	73.50
NZMSFB2A097-*	103.50
NZMSFB2A127-*	133.50
NZMSFB2A167-*	173.50
NZMSFB2A198-*	204.50

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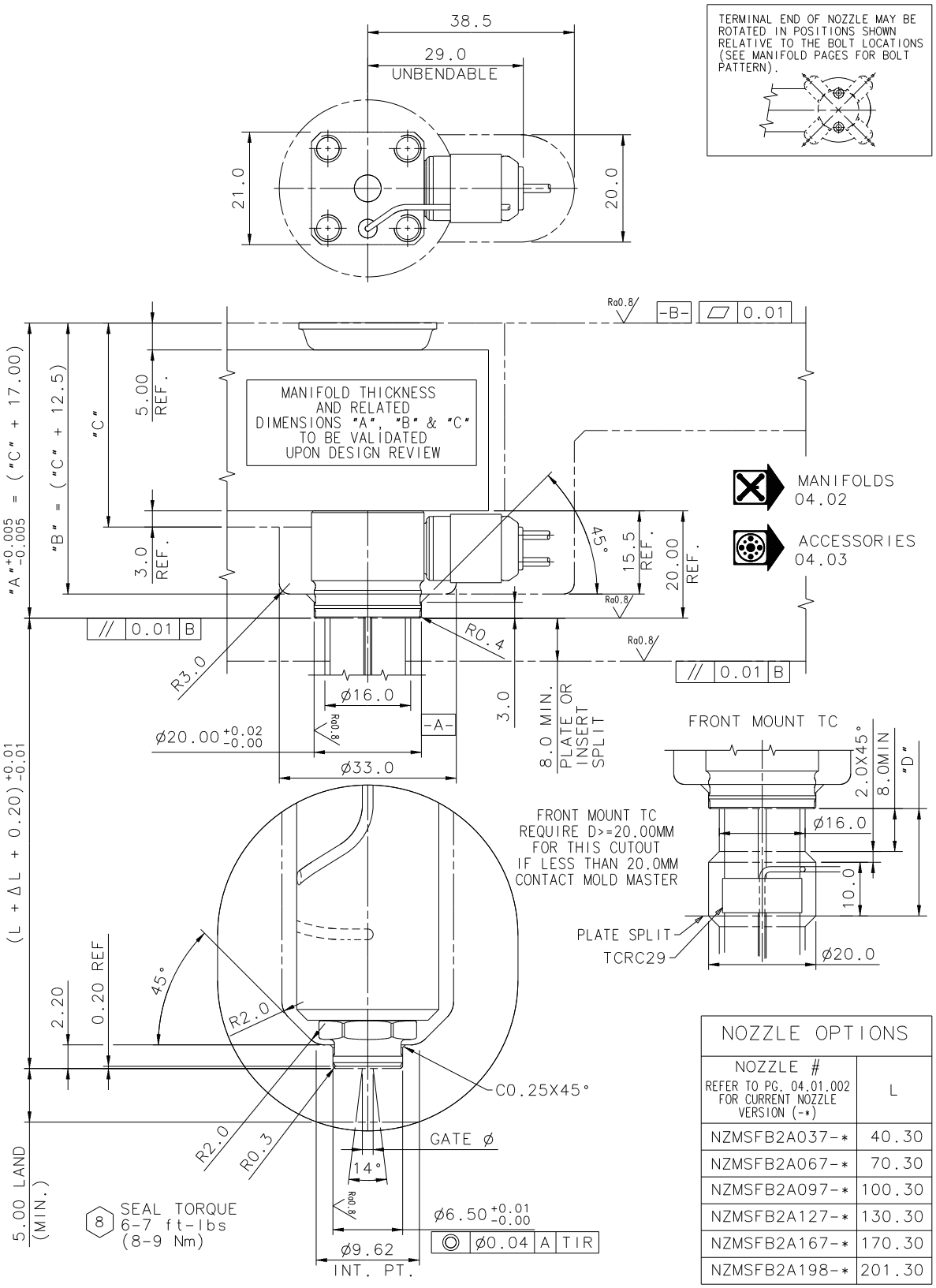
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB2A037-*	43.50
NZMSFB2A067-*	73.50
NZMSFB2A097-*	103.50
NZMSFB2A127-*	133.50
NZMSFB2A167-*	173.50
NZMSFB2A198-*	204.50

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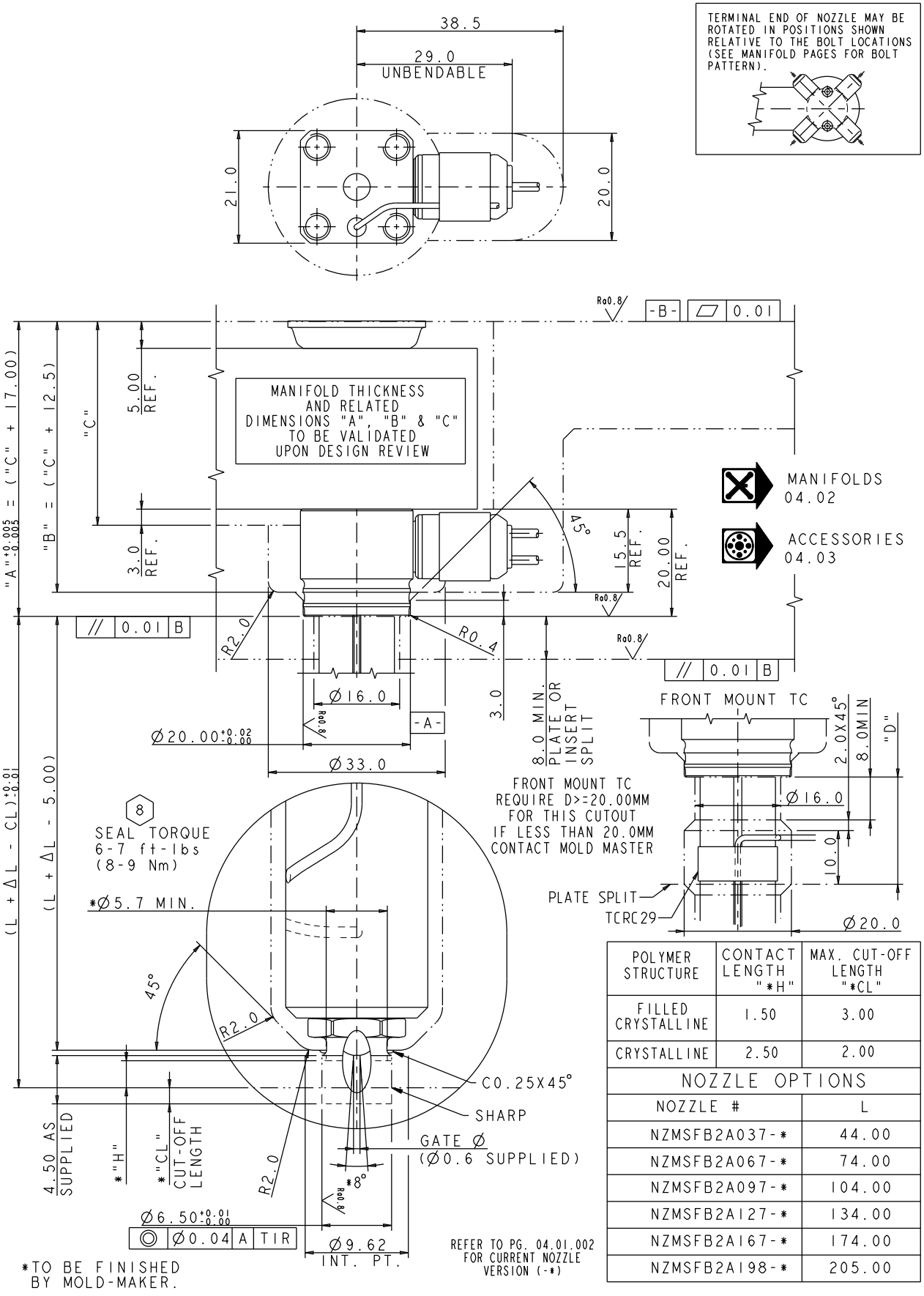
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB2A037-*	43.50
NZMSFB2A067-*	73.50
NZMSFB2A097-*	103.50
NZMSFB2A127-*	133.50
NZMSFB2A167-*	173.50
NZMSFB2A198-*	204.50

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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB2A037-*	40.30
NZMSFB2A067-*	70.30
NZMSFB2A097-*	100.30
NZMSFB2A127-*	130.30
NZMSFB2A167-*	170.30
NZMSFB2A198-*	201.30

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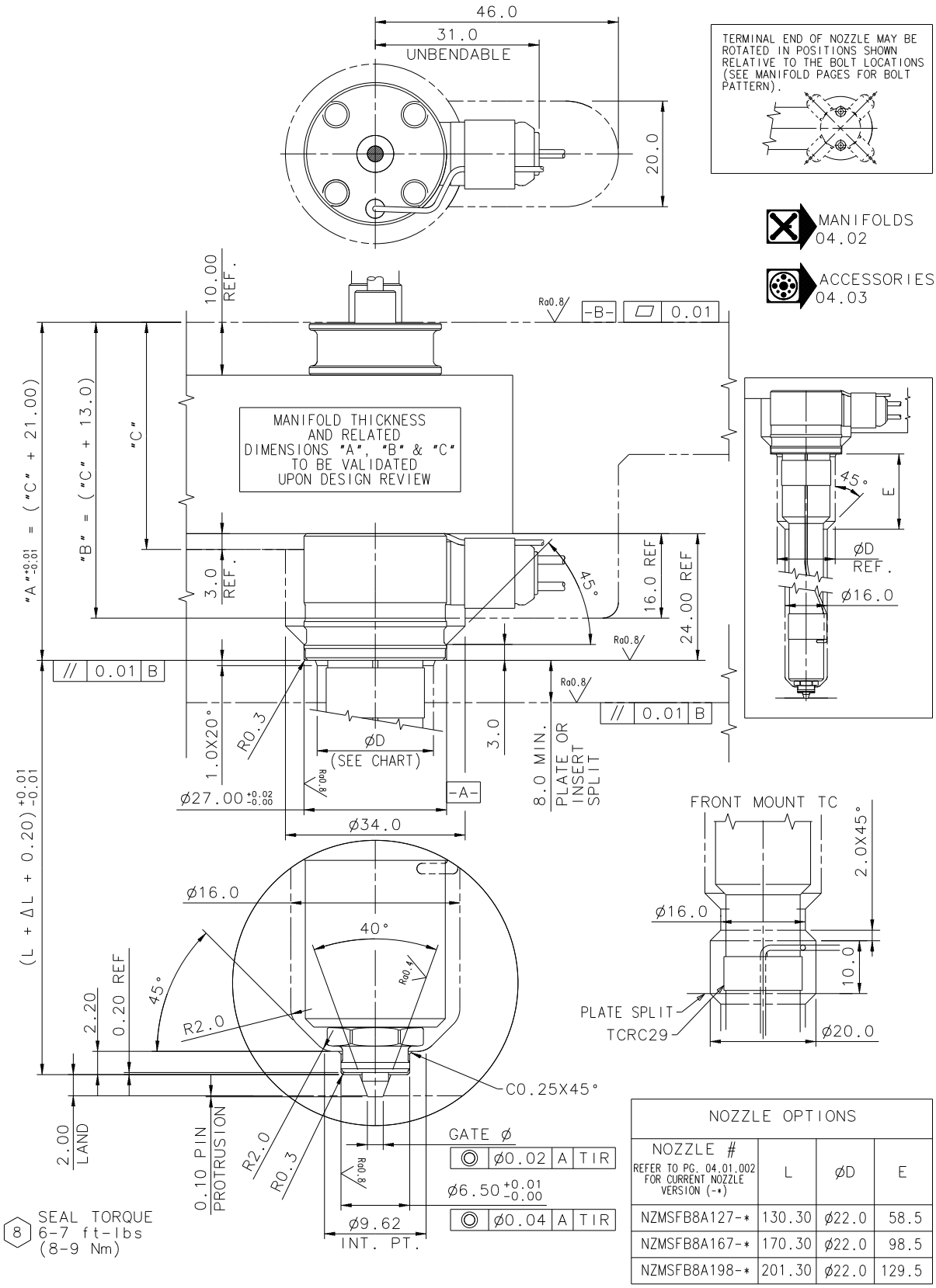
POLYMER STRUCTURE	CONTACT LENGTH "*H"	MAX. CUT-OFF LENGTH "*CL"
FILLED CRYSTALLINE	1.50	3.00
CRYSTALLINE	2.50	2.00

NOZZLE OPTIONS	
NOZZLE #	L
NZMSFB2A037-*	44.00
NZMSFB2A067-*	74.00
NZMSFB2A097-*	104.00
NZMSFB2A127-*	134.00
NZMSFB2A167-*	174.00
NZMSFB2A198-*	205.00

REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)

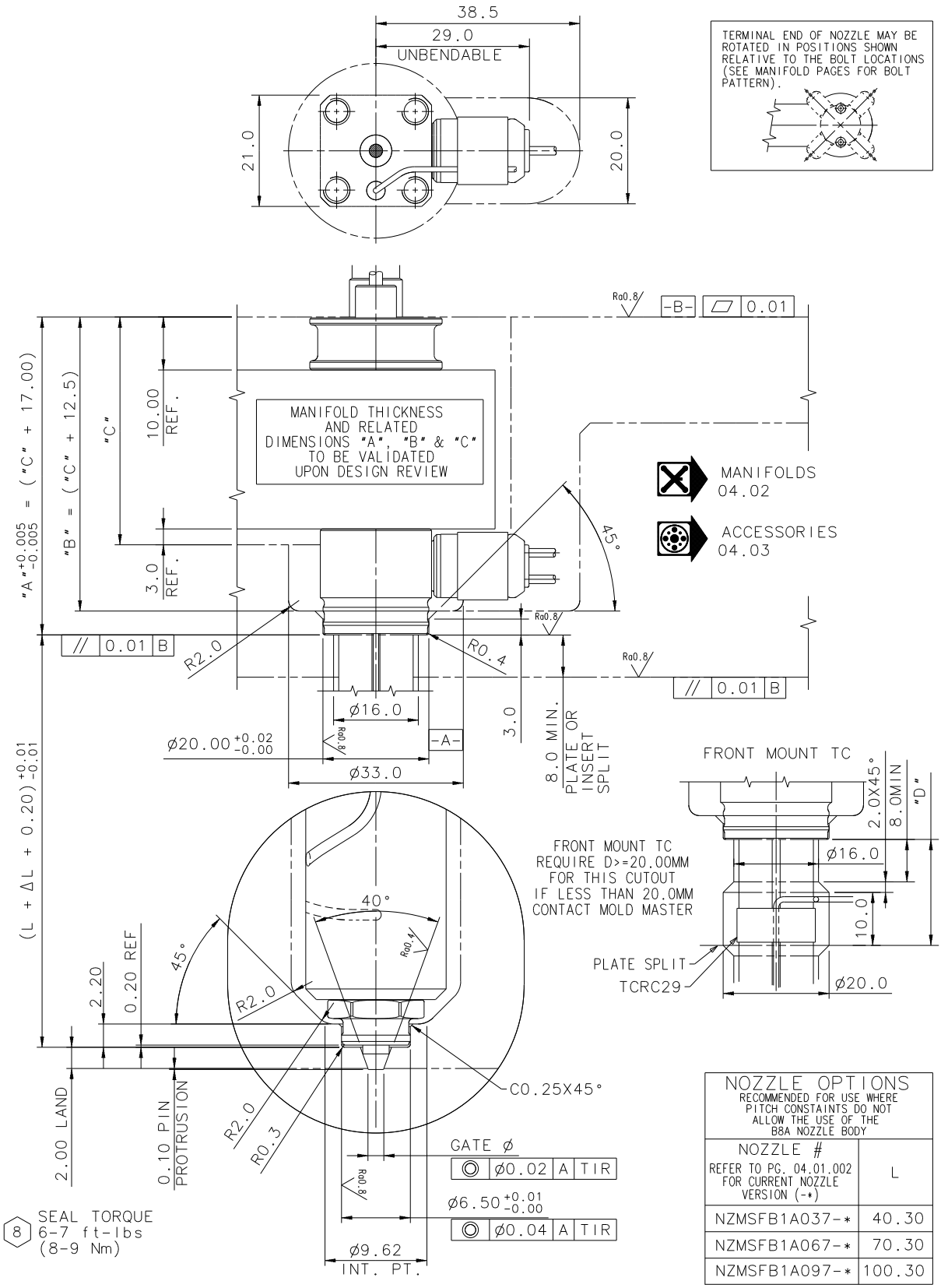
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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	130.30	Ø22.0	58.5
NZMSFB8A167-*	170.30	Ø22.0	98.5
NZMSFB8A198-*	201.30	Ø22.0	129.5

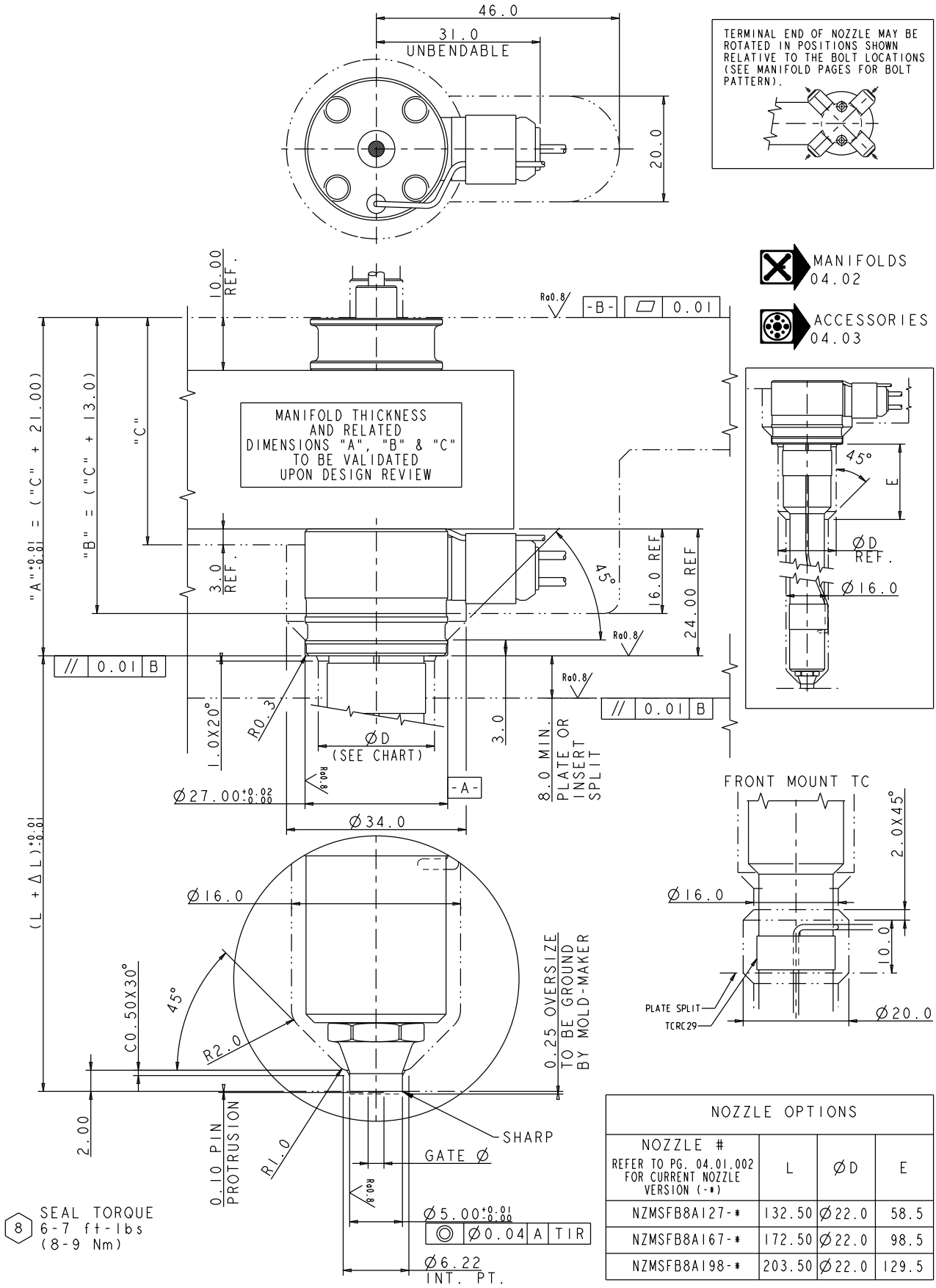
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NOZZLE OPTIONS RECOMMENDED FOR USE WHERE PITCH CONSTAINTS DO NOT ALLOW THE USE OF THE B8A NOZZLE BODY	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB1A037-*	40.30
NZMSFB1A067-*	70.30
NZMSFB1A097-*	100.30

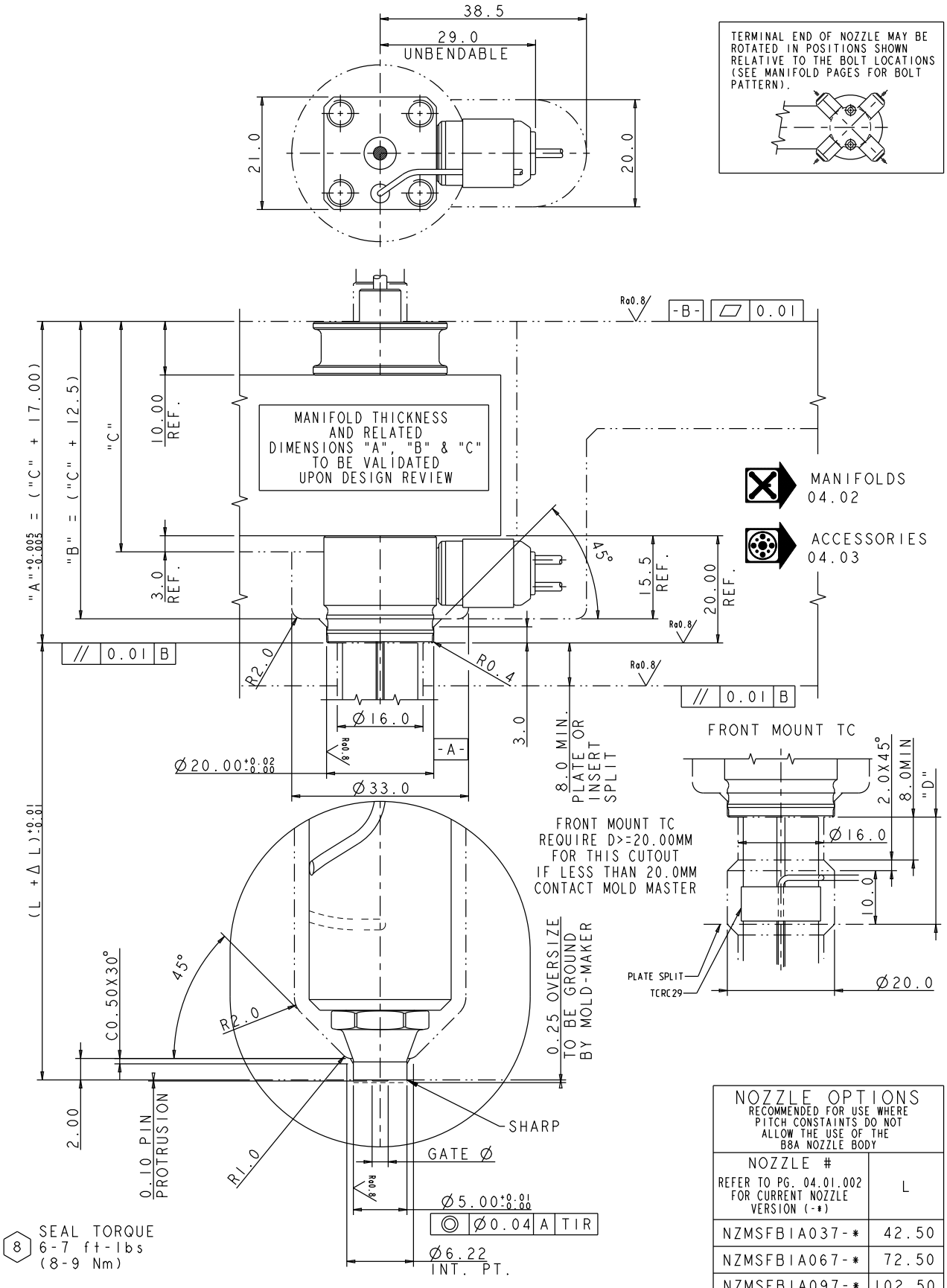
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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	132.50	Ø22.0	58.5
NZMSFB8A167-*	172.50	Ø22.0	98.5
NZMSFB8A198-*	203.50	Ø22.0	129.5

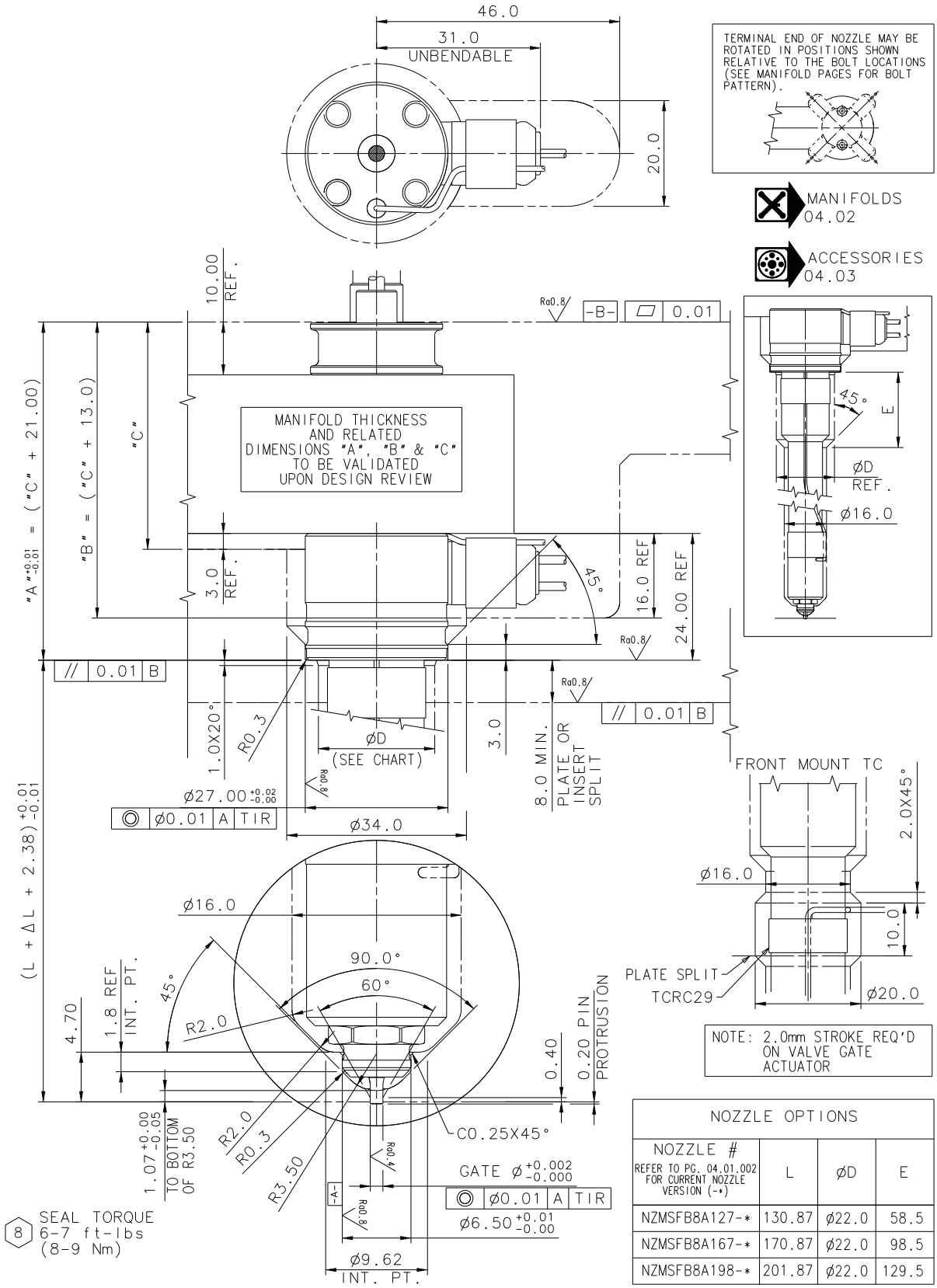
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NOZZLE OPTIONS RECOMMENDED FOR USE WHERE PITCH CONSTAINTS DO NOT ALLOW THE USE OF THE B8A NOZZLE BODY	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFBIA037-*	42.50
NZMSFBIA067-*	72.50
NZMSFBIA097-*	102.50

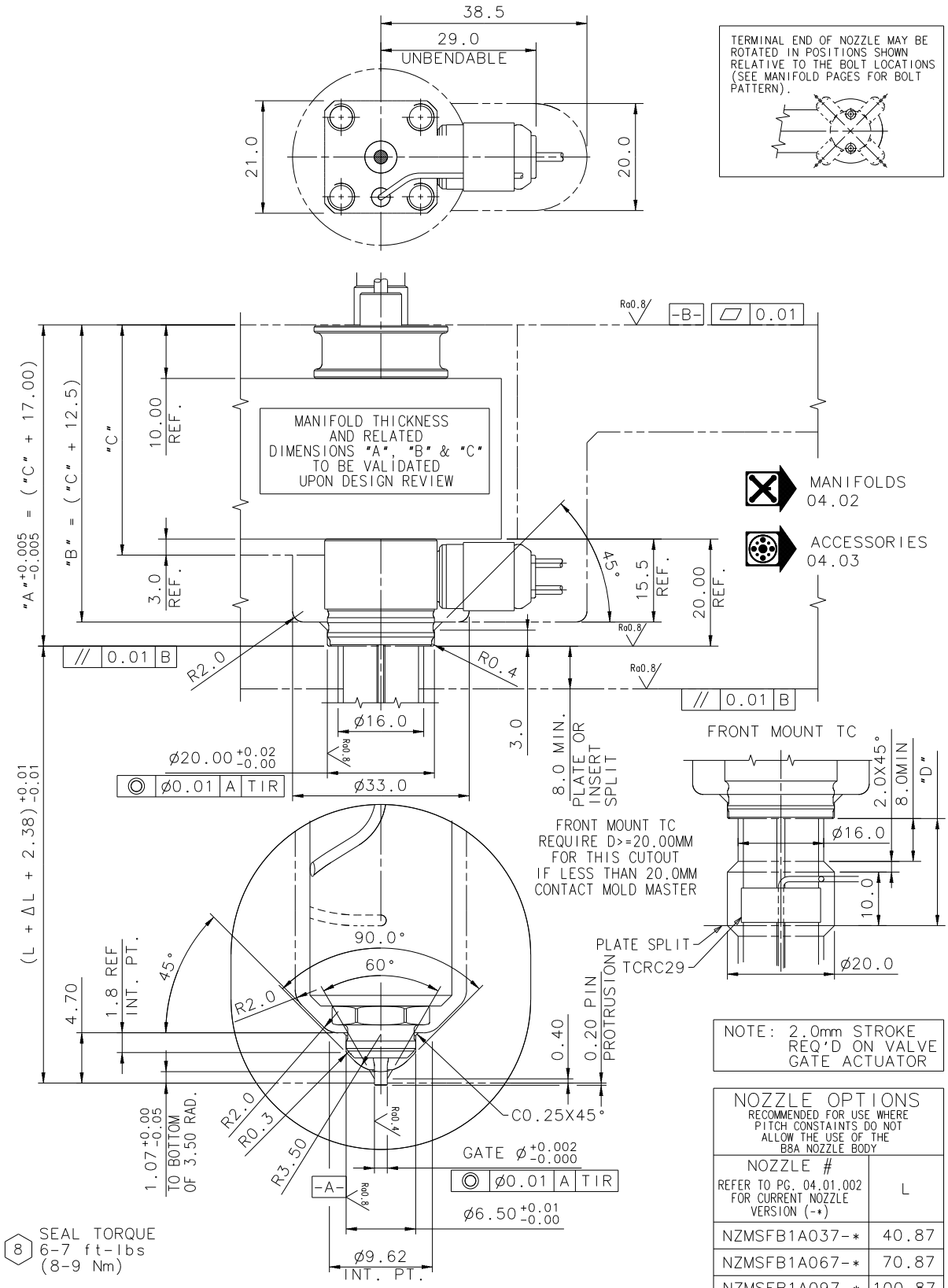
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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	130.87	Ø22.0	58.5
NZMSFB8A167-*	170.87	Ø22.0	98.5
NZMSFB8A198-*	201.87	Ø22.0	129.5

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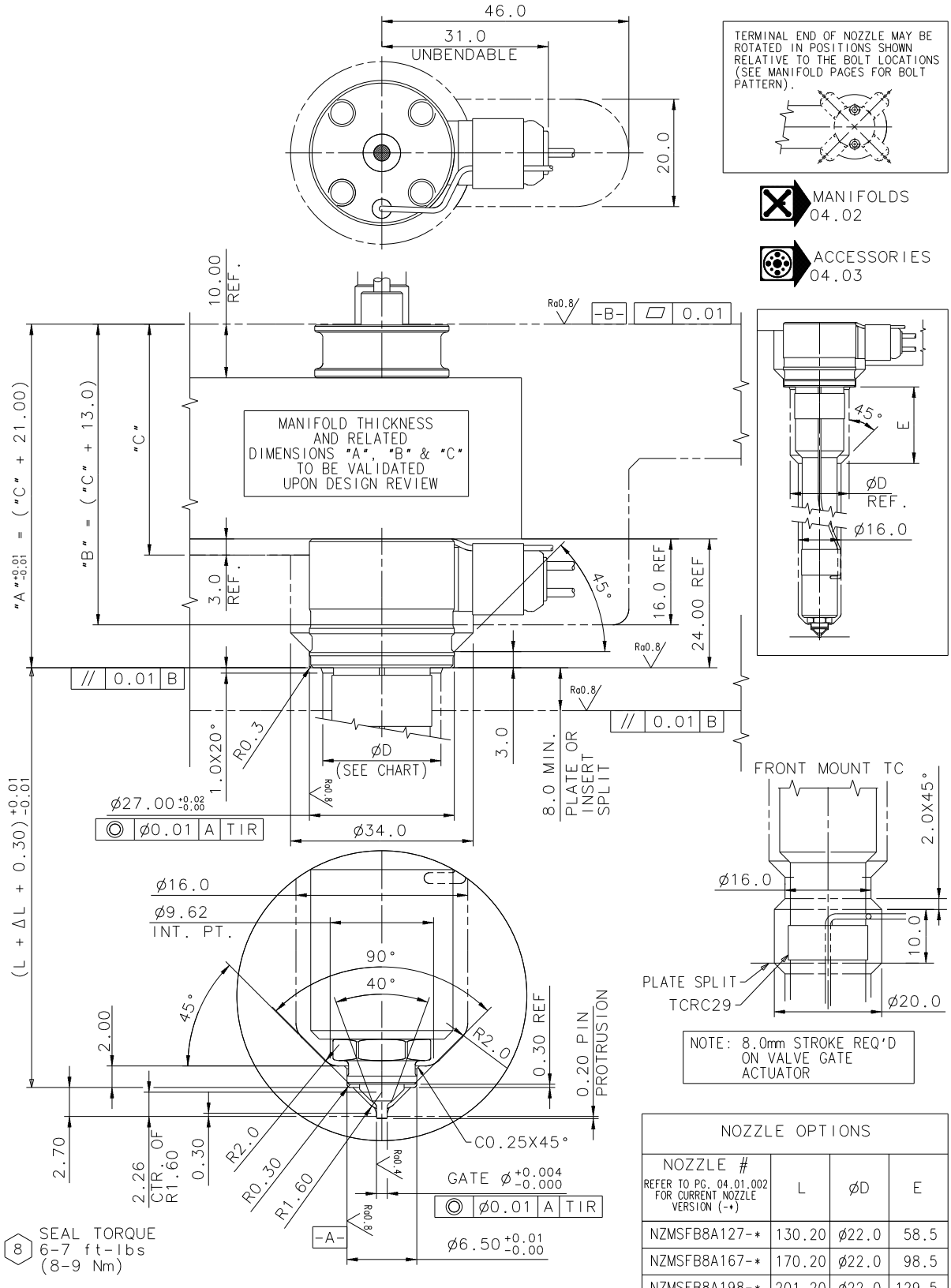


NOTE: 2.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS
RECOMMENDED FOR USE WHERE PITCH CONSTAINTS DO NOT ALLOW THE USE OF THE B8A NOZZLE BODY

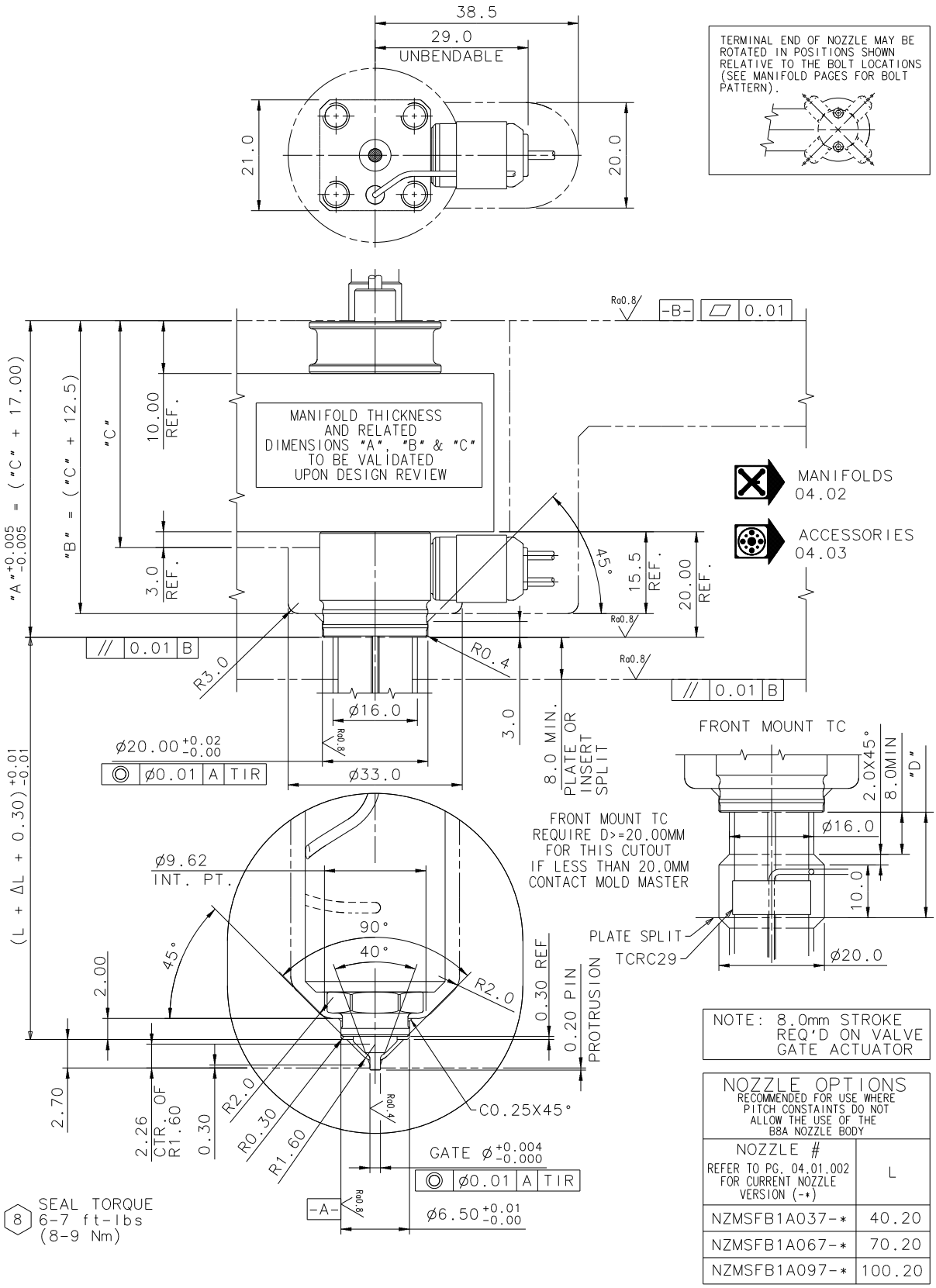
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB1A037-*	40.87
NZMSFB1A067-*	70.87
NZMSFB1A097-*	100.87

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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	130.20	Ø22.0	58.5
NZMSFB8A167-*	170.20	Ø22.0	98.5
NZMSFB8A198-*	201.20	Ø22.0	129.5

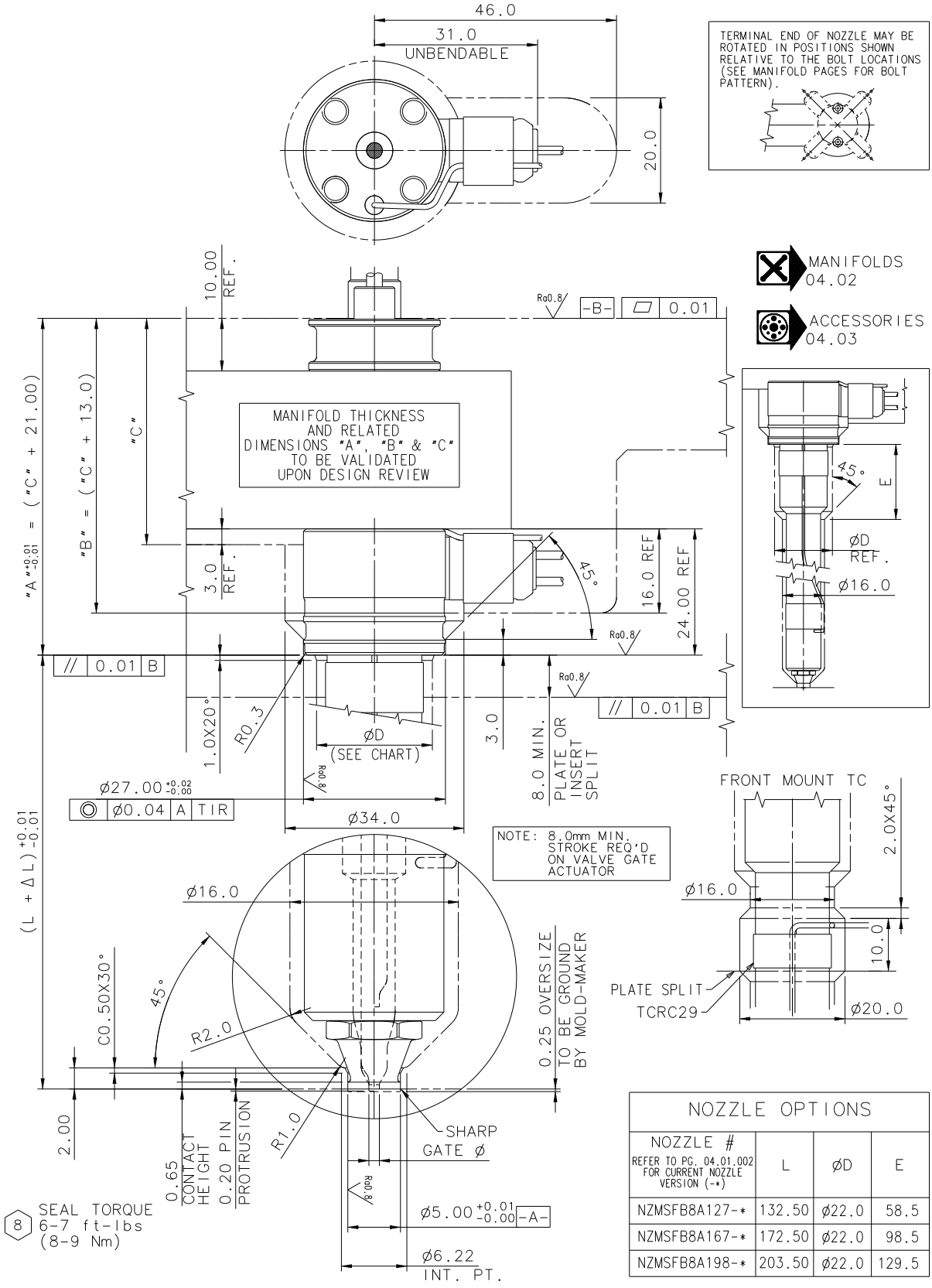
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NOTE: 8.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

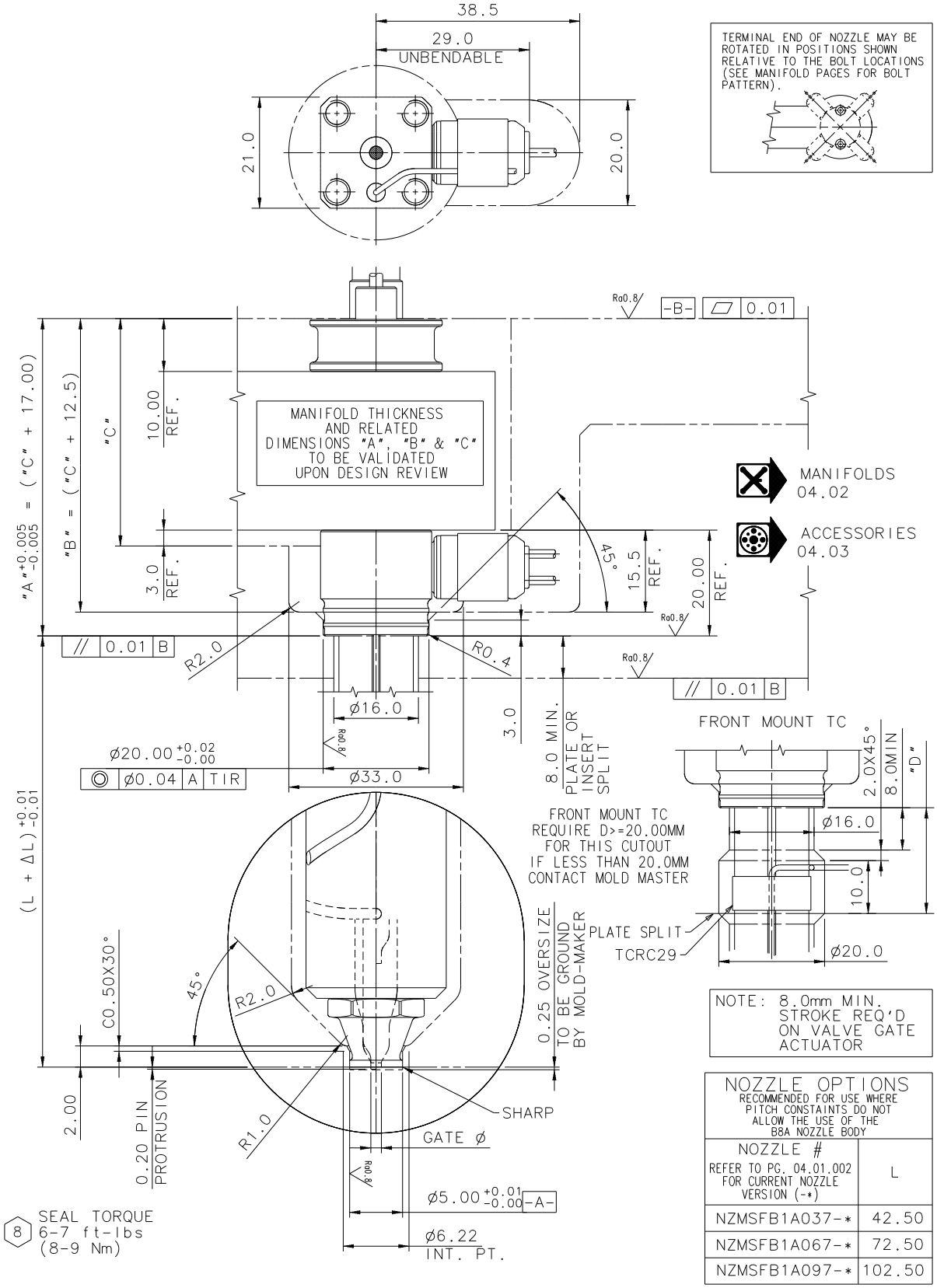
NOZZLE OPTIONS RECOMMENDED FOR USE WHERE PITCH CONSTAINTS DO NOT ALLOW THE USE OF THE B8A NOZZLE BODY	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB1A037-*	40.20
NZMSFB1A067-*	70.20
NZMSFB1A097-*	100.20

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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	132.50	Ø22.0	58.5
NZMSFB8A167-*	172.50	Ø22.0	98.5
NZMSFB8A198-*	203.50	Ø22.0	129.5

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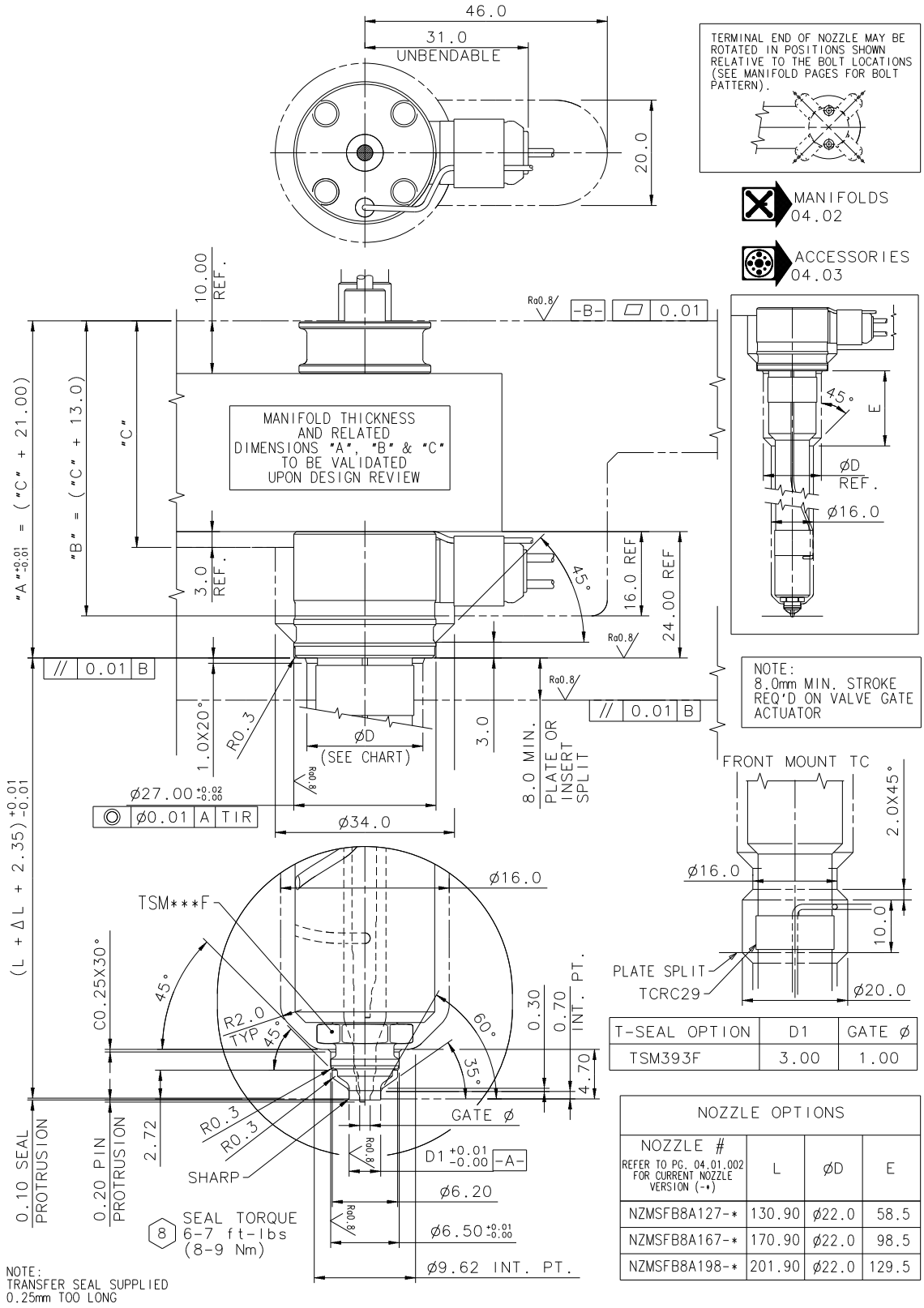


NOTE: 8.0mm MIN. STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS RECOMMENDED FOR USE WHERE PITCH CONSTAINTS DO NOT ALLOW THE USE OF THE B8A NOZZLE BODY	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB1A037-*	42.50
NZMSFB1A067-*	72.50
NZMSFB1A097-*	102.50

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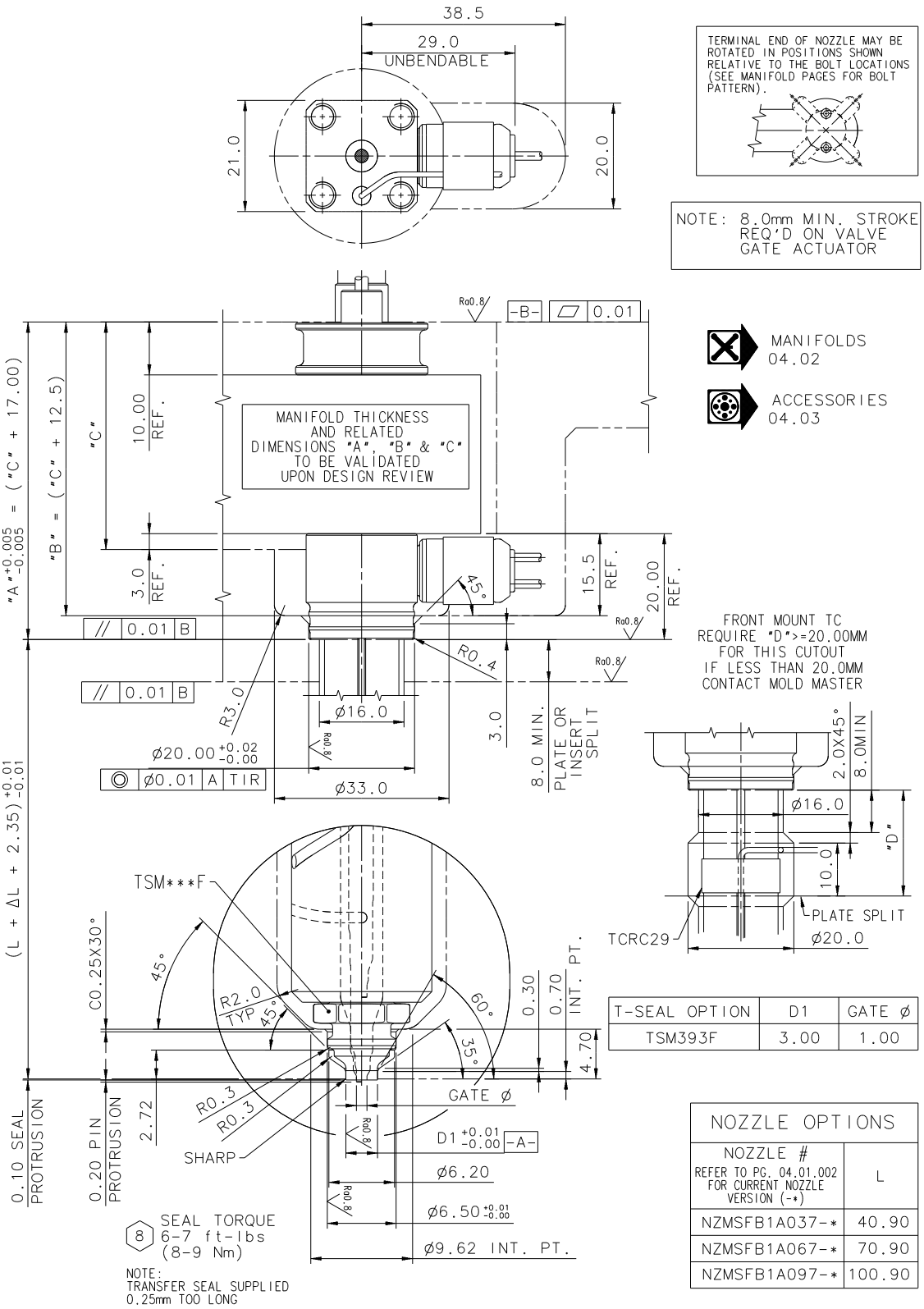
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T-SEAL OPTION	D1	GATE Ø
TSM393F	3.00	1.00

NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	130.90	Ø22.0	58.5
NZMSFB8A167-*	170.90	Ø22.0	98.5
NZMSFB8A198-*	201.90	Ø22.0	129.5

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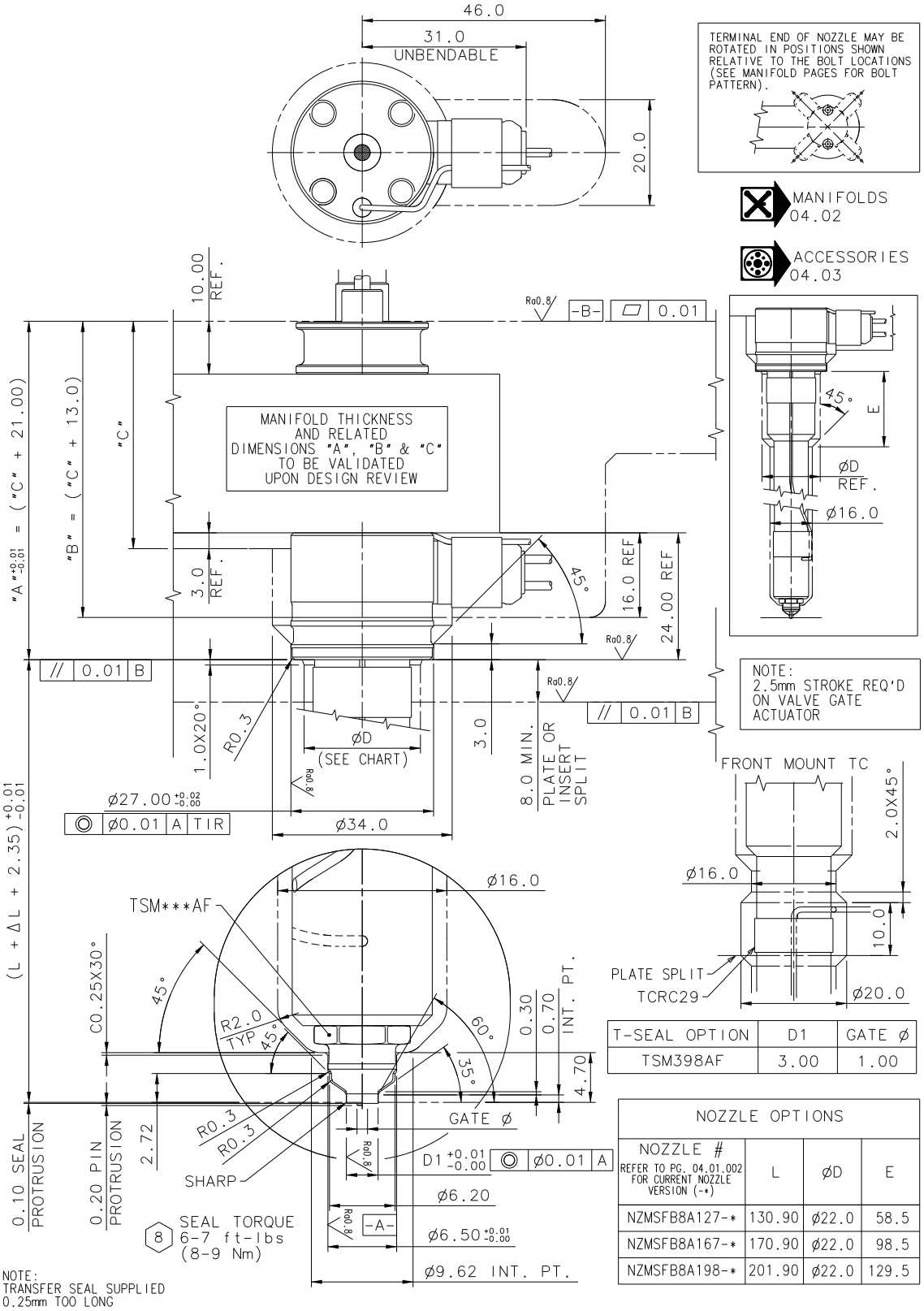


T-SEAL OPTION	D1	GATE Ø
TSM393F	3.00	1.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB1A037-*	40.90
NZMSFB1A067-*	70.90
NZMSFB1A097-*	100.90

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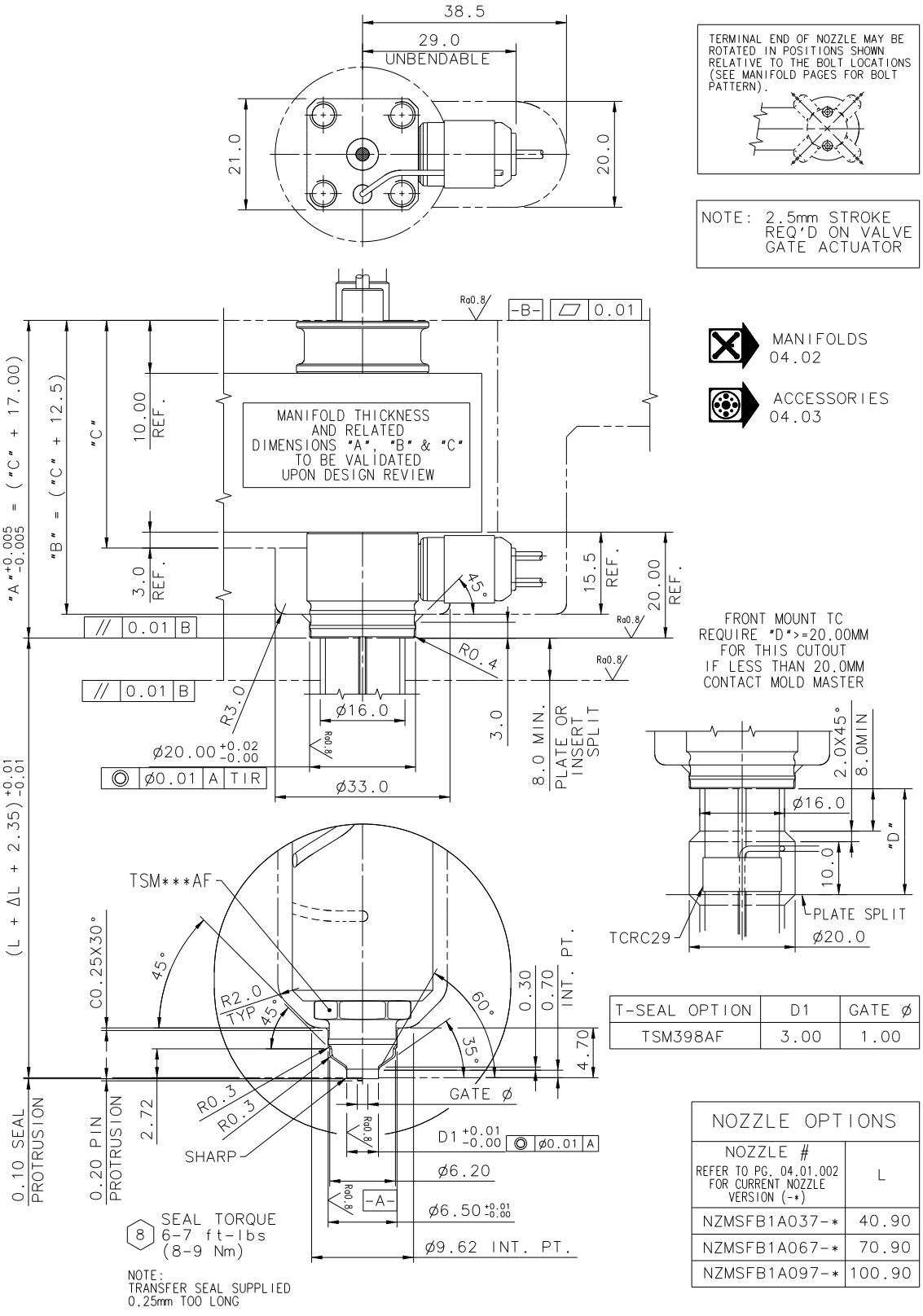
Mold Masters



T-SEAL OPTION	D1	GATE Ø
TSM398AF	3.00	1.00

NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	ØD	E
NZMSFB8A127-*	130.90	Ø22.0	58.5
NZMSFB8A167-*	170.90	Ø22.0	98.5
NZMSFB8A198-*	201.90	Ø22.0	129.5

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T-SEAL OPTION	D1	GATE Ø
TSM398AF	3.00	1.00

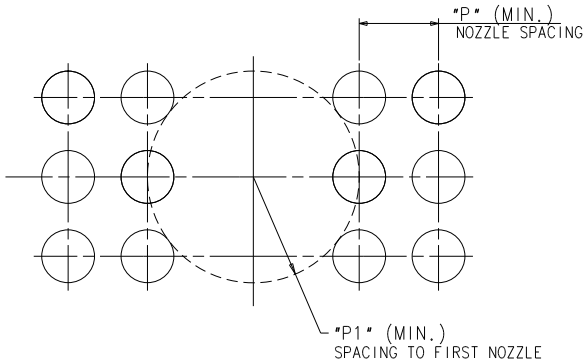
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 04.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSFB1A037-*	40.90
NZMSFB1A067-*	70.90
NZMSFB1A097-*	100.90

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MANIFOLD SHAPE	MANIFOLD PAGE	GATING TYPE	PITCH RANGE	MANIFOLD LOCATOR OPTIONS
"1I" SUB MANIFOLD	04.02.010A/B	SPRUE	X = 70.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	04.02.011A/B	VALVE	X = 70.0 TO 150.0	
"2I" SUB MANIFOLD	04.02.020A/B	SPRUE	X = 56.0 TO 69.9	ML0006, ML0040 ML0015, ML0030
	04.02.021A/B	VALVE	X = 56.0 TO 69.9	
	04.02.022A/B	SPRUE	X = 70.0 TO 150.0	
	04.02.023A/B	VALVE	X = 70.0 TO 150.0	
"T" SUB MANIFOLD	04.02.030A	SPRUE	X = 75.0 TO 150.0 / Y = 71.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	04.02.030B	SPRUE	X = 75.0 TO 150.0 / Y = 78.0 TO 150.0	
	04.02.031A	VALVE	X = 75.0 TO 150.0 / Y = 71.0 TO 150.0	
	04.02.031B	VALVE	X = 75.0 TO 150.0 / Y = 78.0 TO 150.0	
"4I" SUB MANIFOLD	04.02.040A/B	SPRUE	X1 = 50.0 TO 83.0 / X2 = 150.0 TO 249.0	ML0006, ML0040 ML0015, ML0030
	04.02.041A/B	VALVE	X1 = 63.0 TO 83.0 / X2 = 189.0 TO 249.0	
"X" SUB MANIFOLD	04.02.050A/B	SPRUE	X = 65.0 TO 150.0 / Y = 65.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	04.02.051A/B	VALVE	X = 65.0 TO 150.0 / Y = 65.0 TO 150.0	
"H" SUB MANIFOLD	04.02.060A	SPRUE	X = 75.0 TO 150.0 / Y = 50.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	04.02.060B	SPRUE	X = 82.0 TO 150.0 / Y = 55.0 TO 150.0	
	04.02.061A	VALVE	X = 75.0 TO 150.0 / Y = 50.0 TO 150.0	
	04.02.061B	VALVE	X = 82.0 TO 150.0 / Y = 55.0 TO 150.0	
"XX" SUB MANIFOLD	04.02.070	SPRUE	X = 25.0 TO 50.0 / Y = 25.0 TO 50.0	ML0006, ML0015 ML0030, ML0040
	04.02.071	VALVE	X = 30.0 TO 50.0 / Y = 30.0 TO 50.0	
"HH" SUB MANIFOLD	04.02.072A/B	SPRUE	X = 60.0 TO 111.0 / Y = 80.0 TO 110.0	ML0006, ML0015 ML0030, ML0040
	04.02.073A/B	VALVE	X = 60.0 TO 111.0 / Y = 80.0 TO 110.0	

MIN. PITCH FOR INLET EXTENSION / ACTUATING UNIT

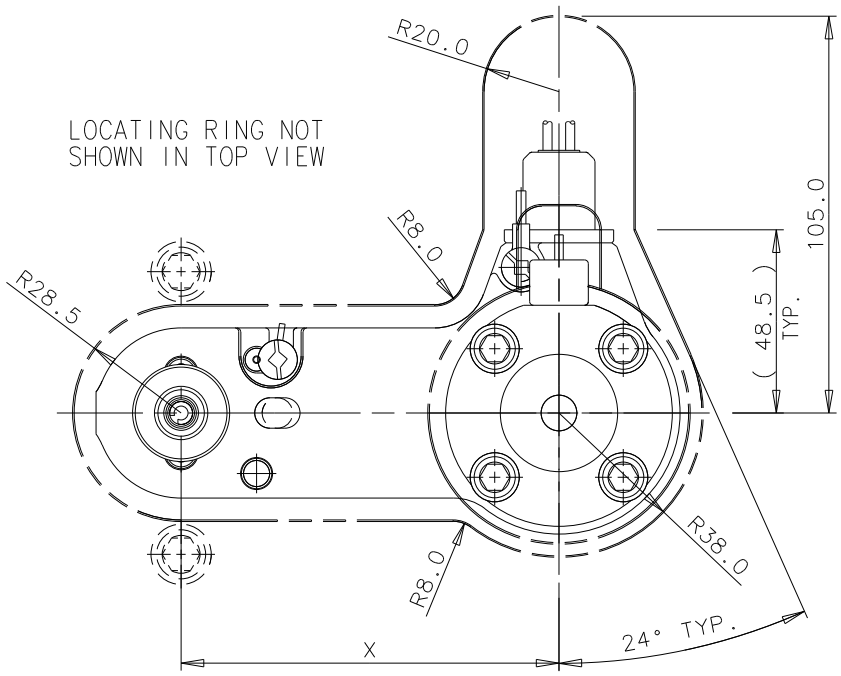


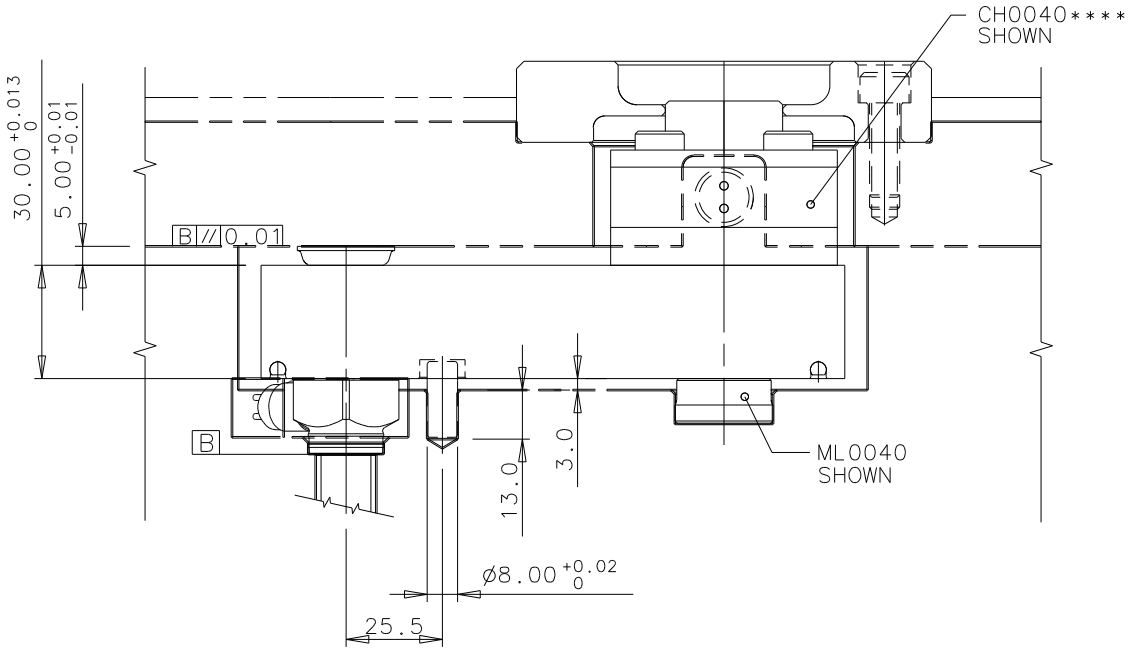
HYD./PNEU. UNIT	INLET EXT.	"P1"	"P"
HY550Xx	IE06***	40.0	36.0
	IE08***	45.0	
HY650Xx OR HY710Xx	IE06*** OR IE08***	50.0	54.0
PN2300x	IE06*** OR IE08***	50.0	48.0
HY5500x	IE06*** OR IE08***	82.0	41.0
HY6500x OR HY7100x	IE06*** OR IE08***	86.5	60.0

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES
04.01

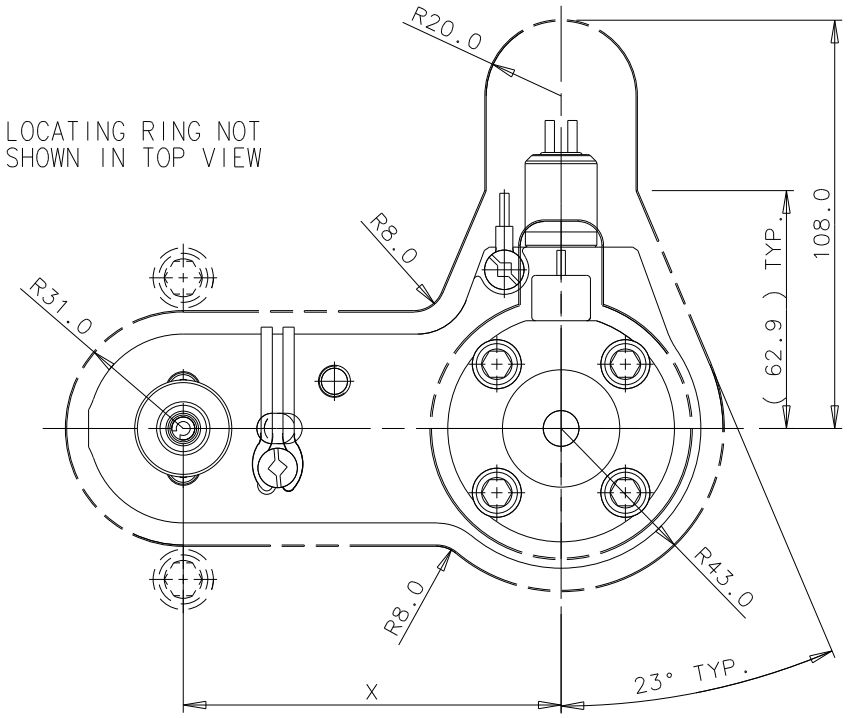
ACCESSORIES
09.01

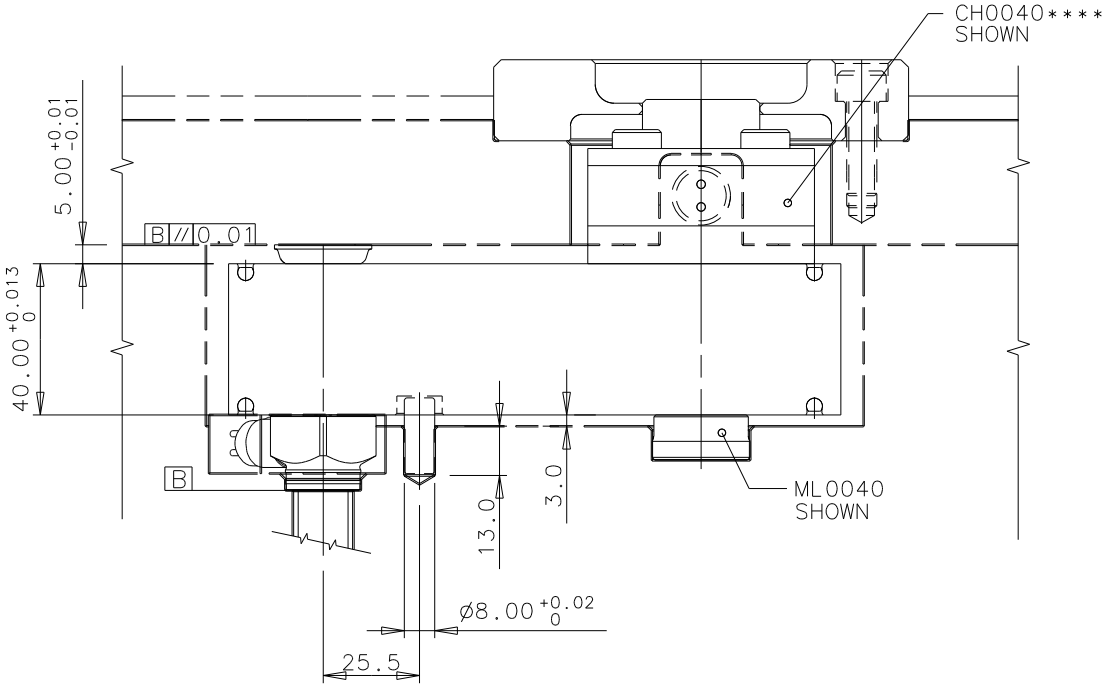
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES 04.01

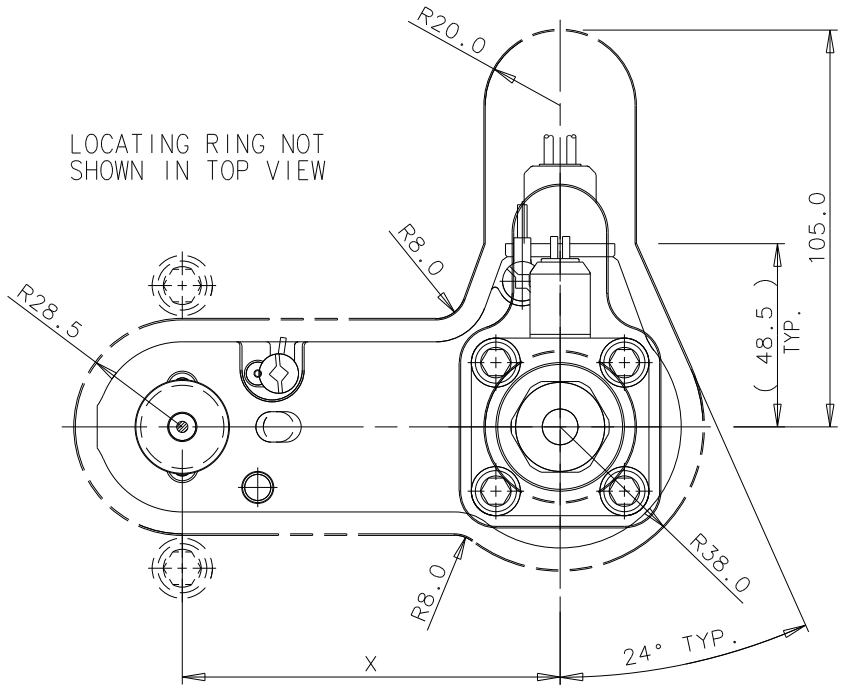
ACCESSORIES 09.01

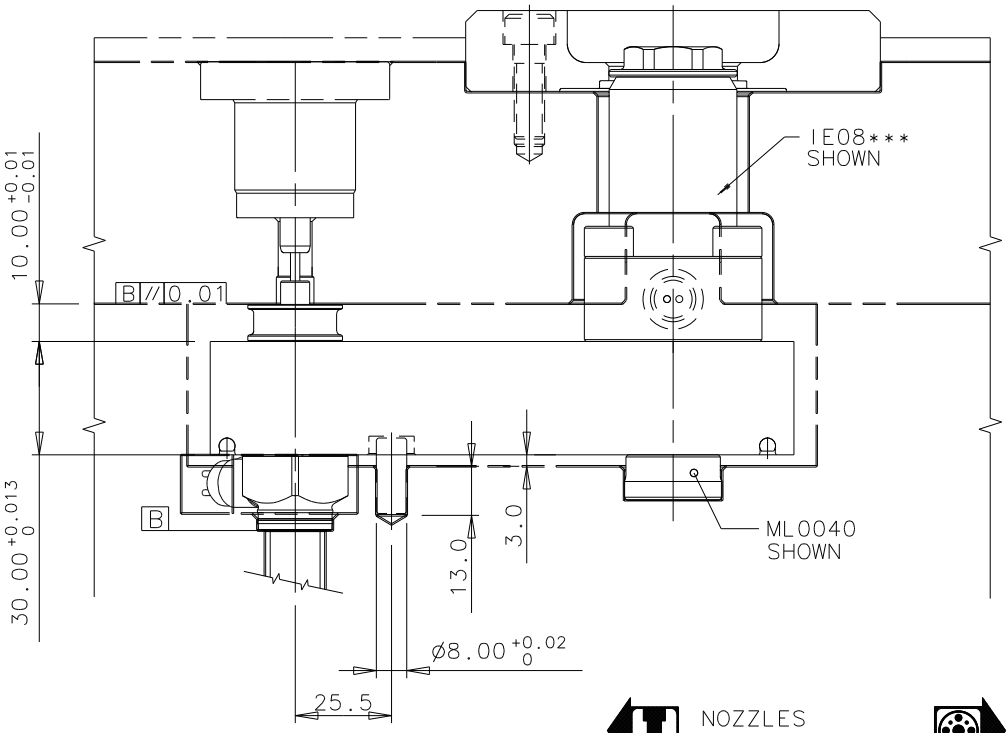
MANIFOLD RANGES 04.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES
04.01

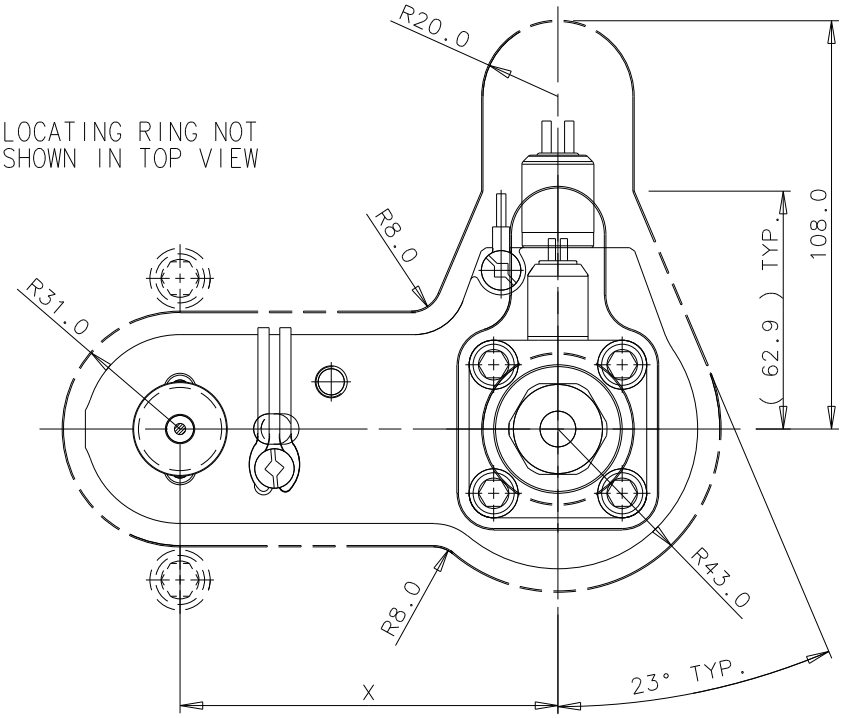
ACCESSORIES
09.01

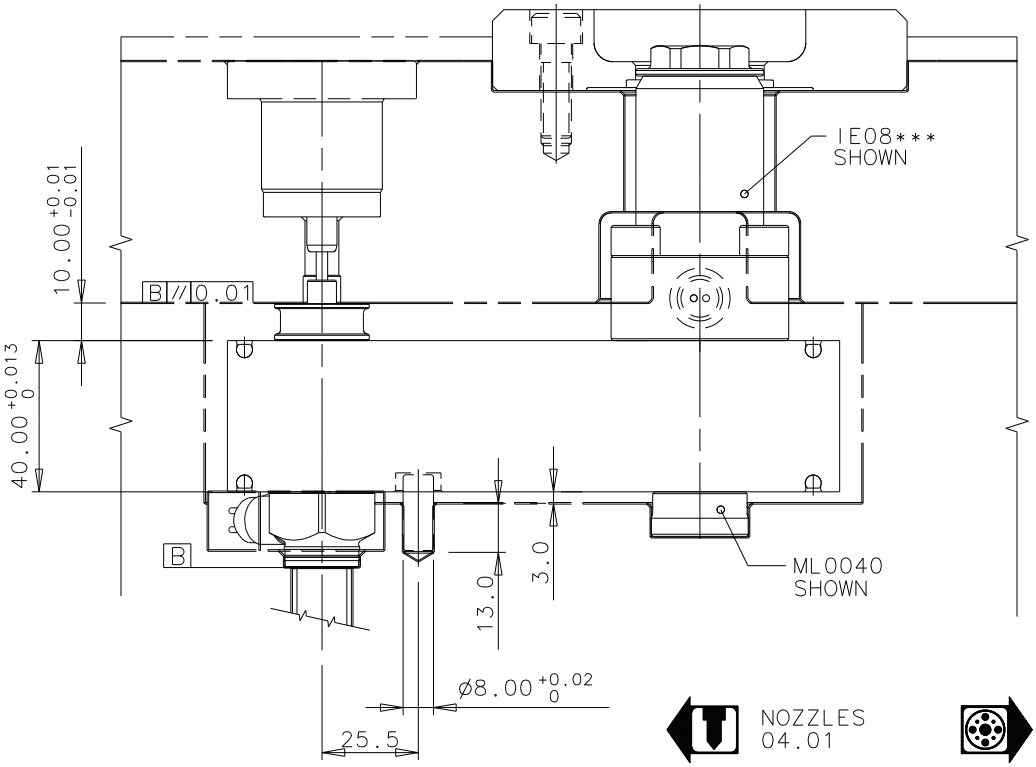
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





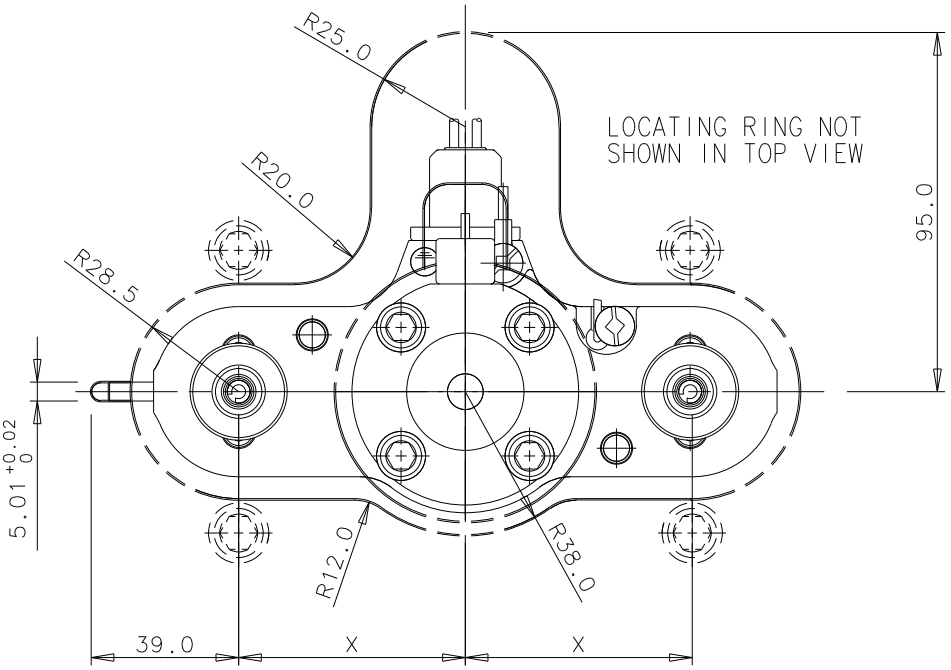
X = 100 SHOWN

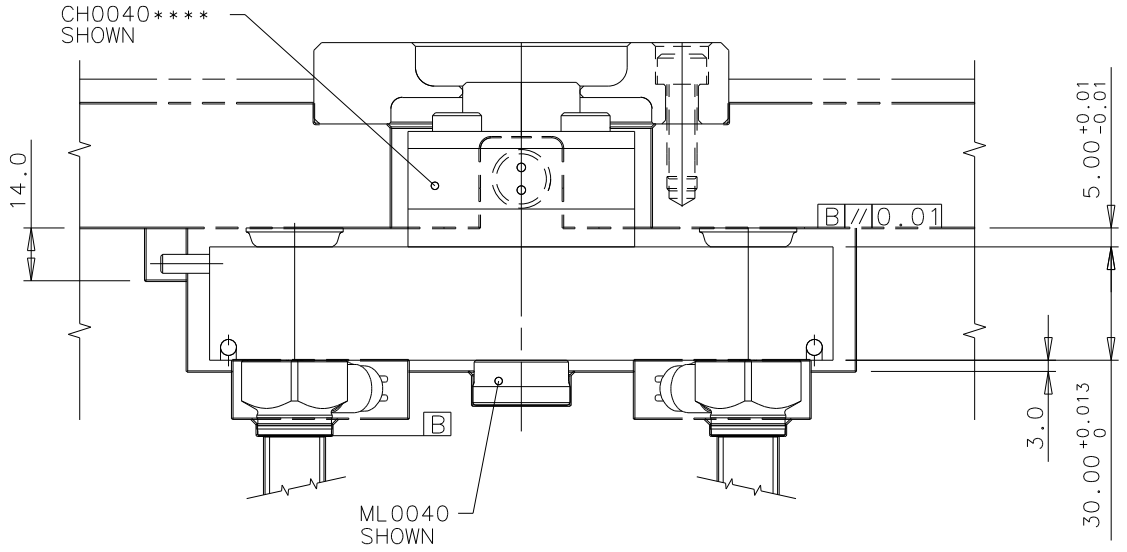
NOZZLES 04.01
ACCESSORIES 09.01
MANIFOLD RANGES 04.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)



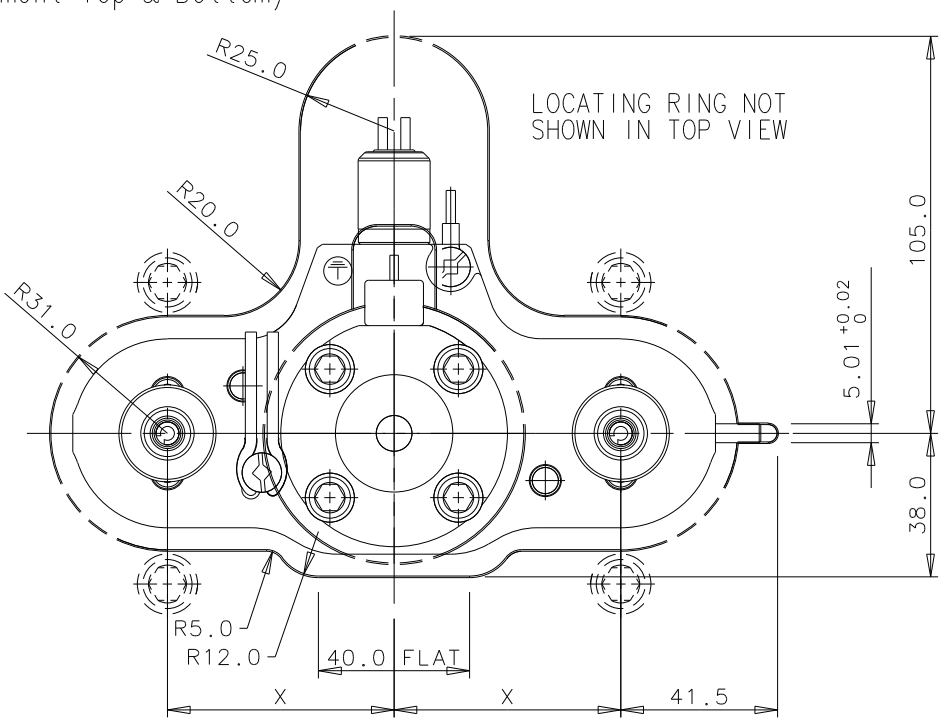


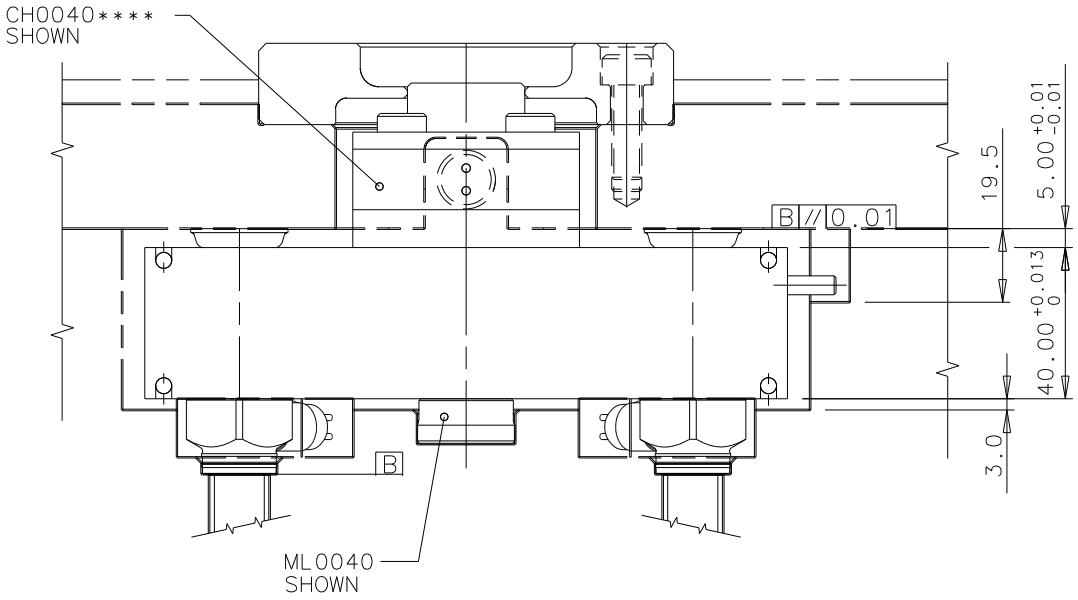
X = 60 SHOWN

NOZZLES 04.01
ACCESSORIES 09.01
MANIFOLD RANGES 04.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



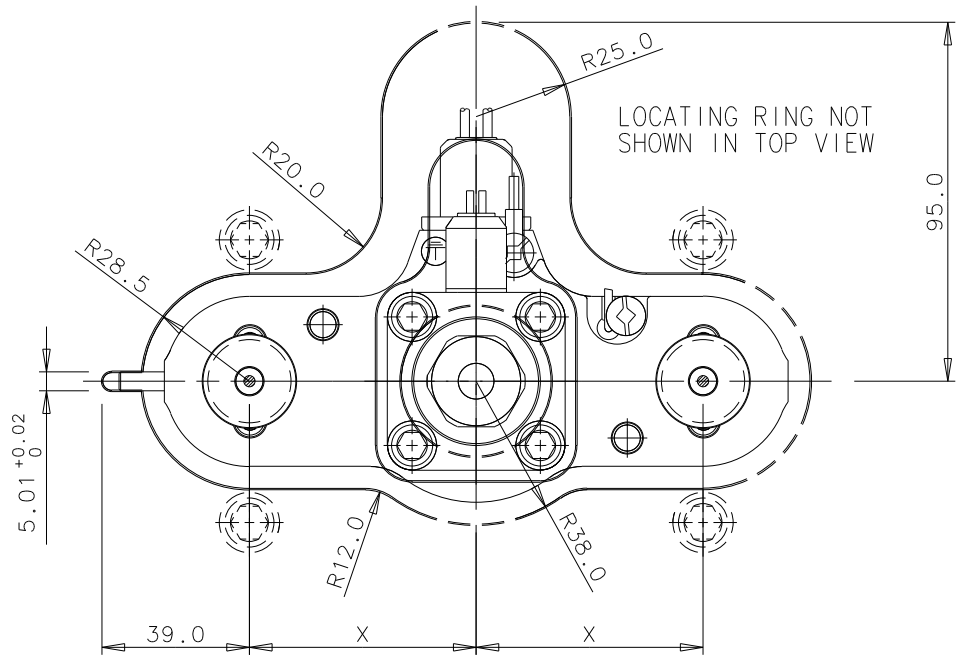


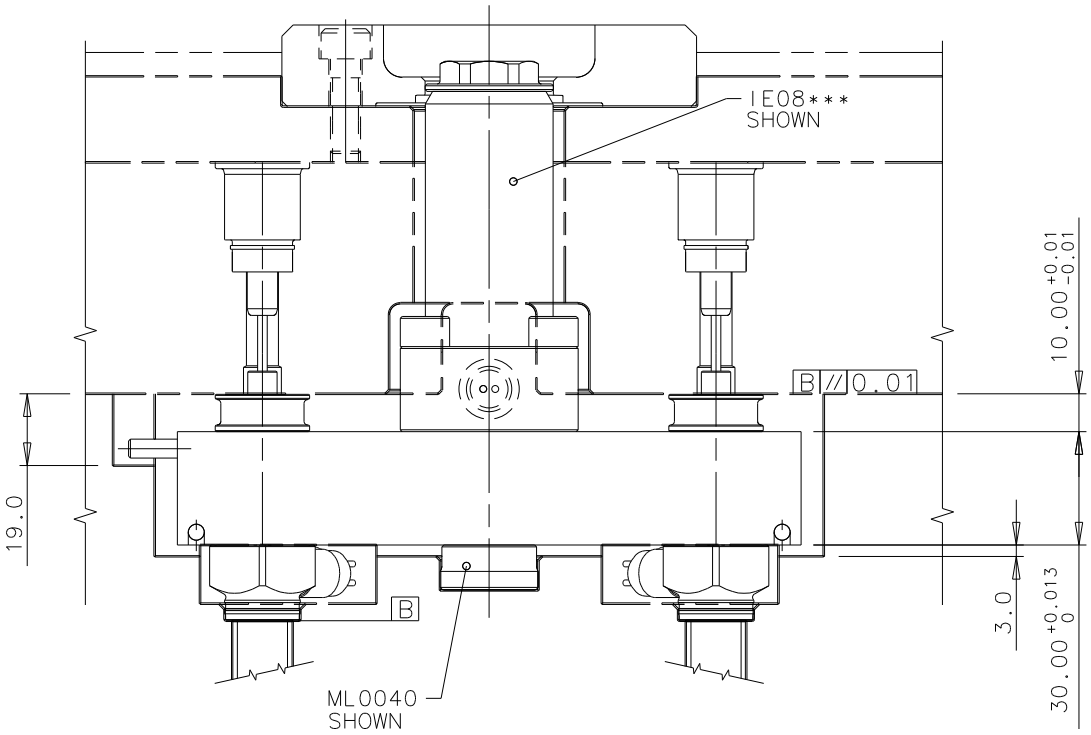
X = 60 SHOWN

NOZZLES 04.01
ACCESSORIES 09.01
MANIFOLD RANGES 04.02.001
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 60 SHOWN

NOZZLES
04.01

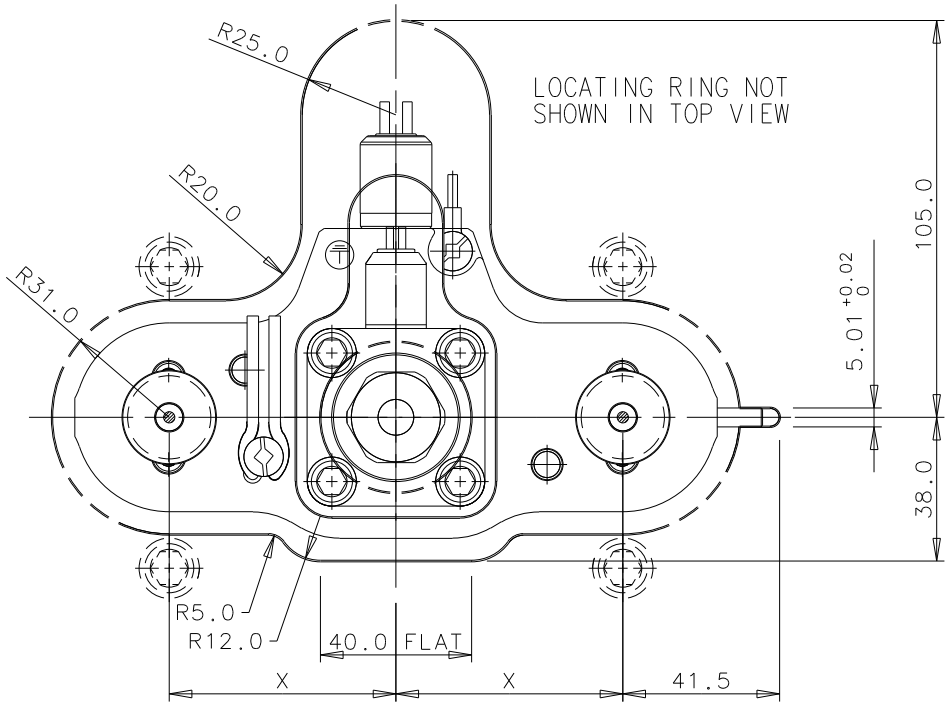
ACCESSORIES
09.01

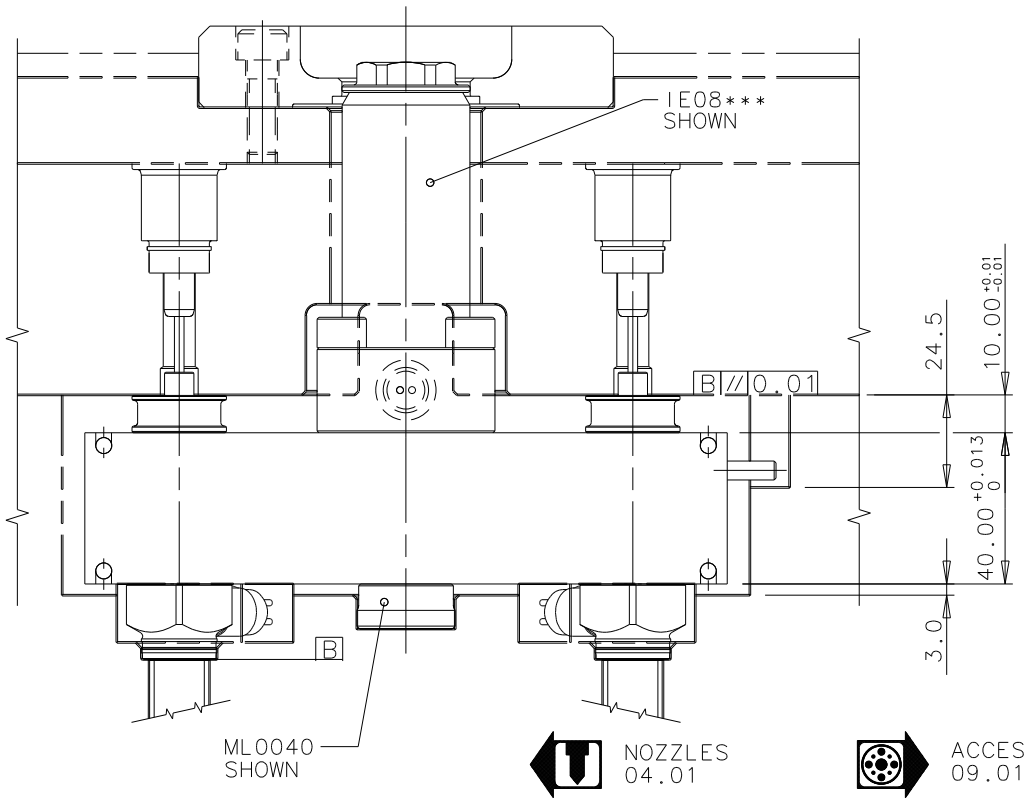
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 SHOWN

NOZZLES 04.01

ACCESSORIES 09.01

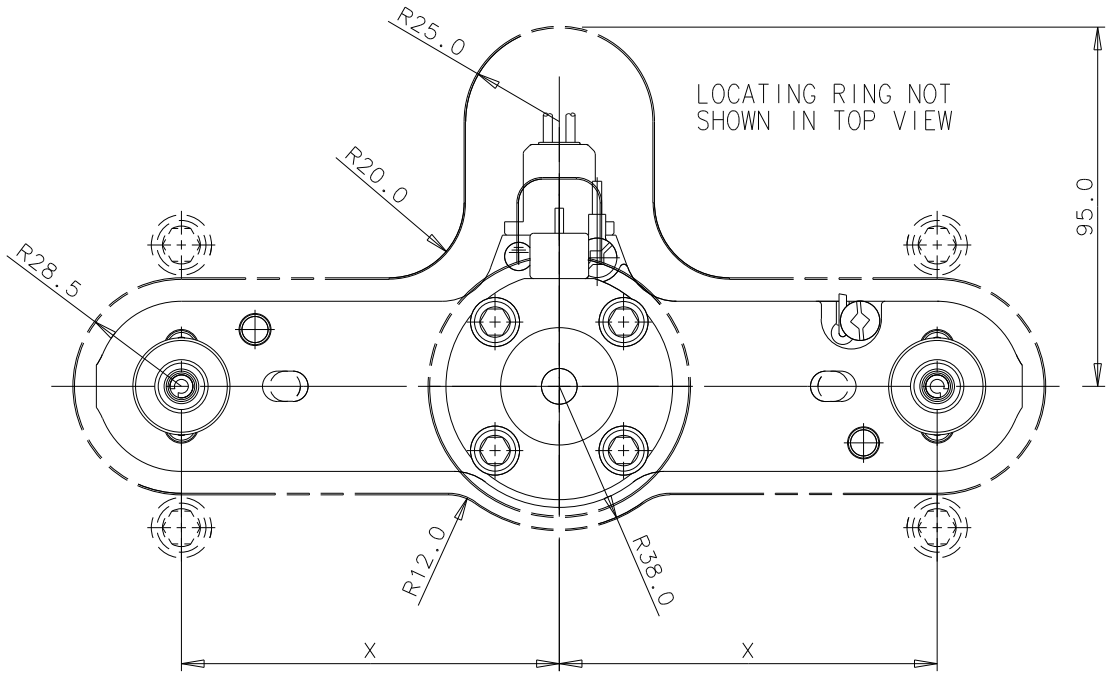
MANIFOLD RANGES 04.02.001

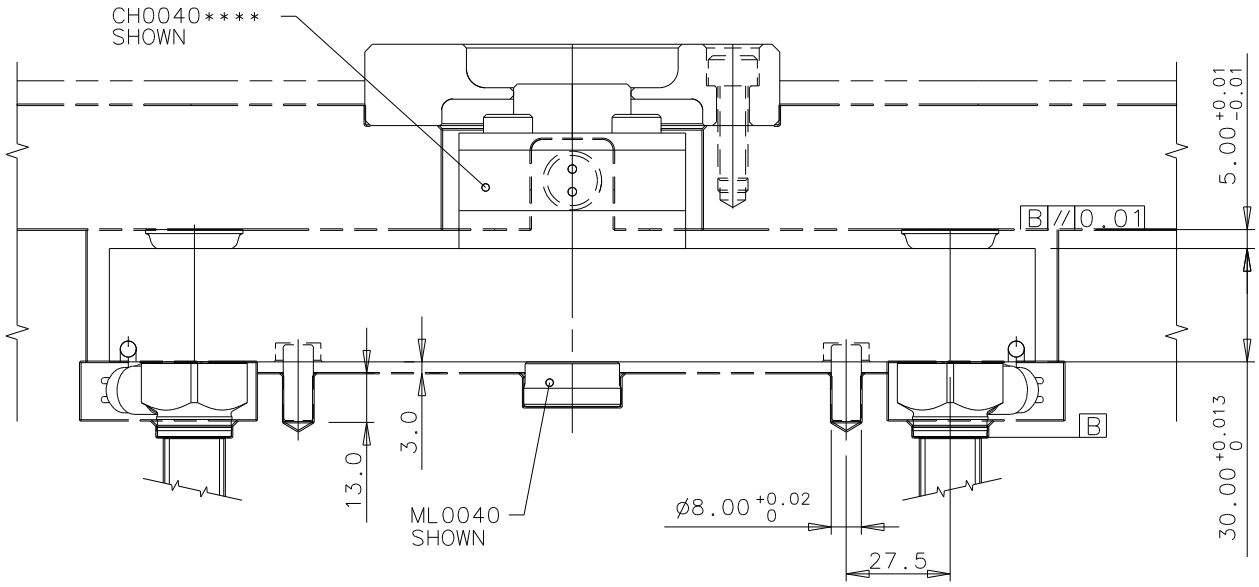
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES 04.01

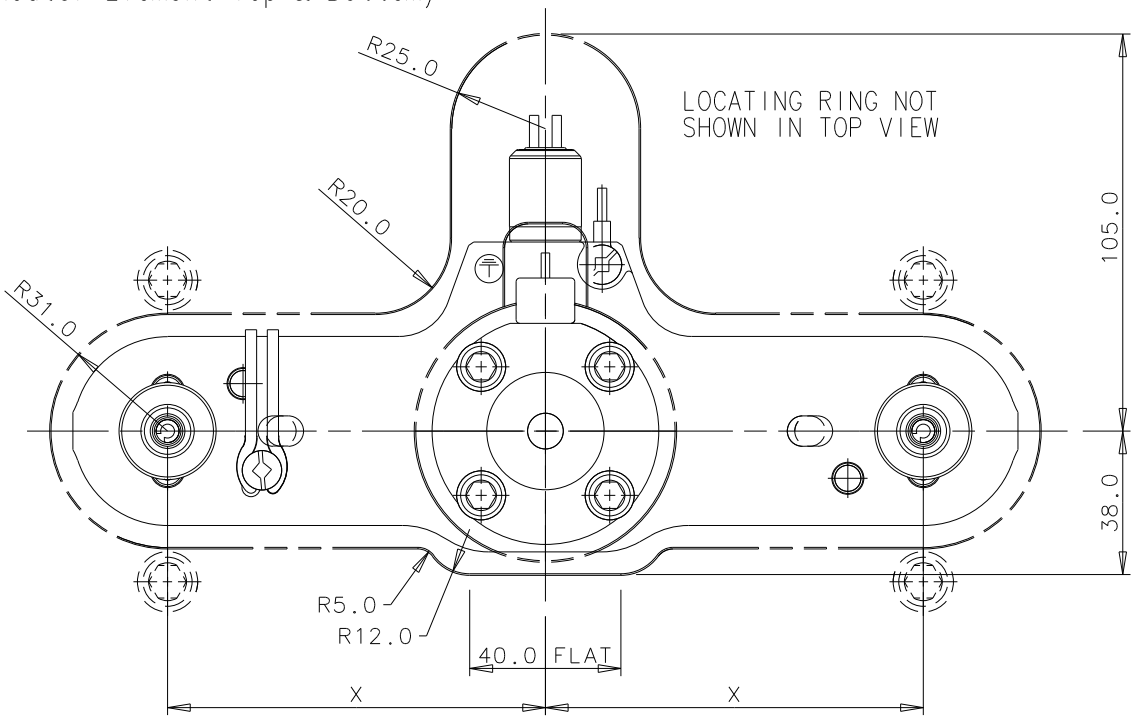
ACCESSORIES 09.01

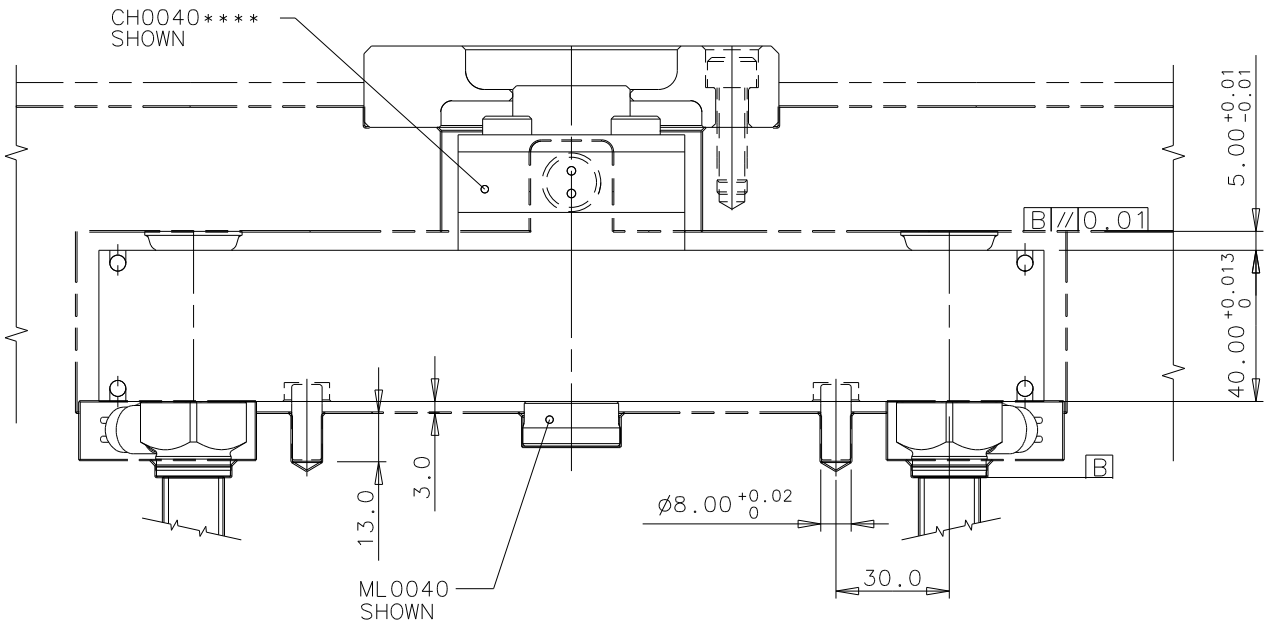
MANIFOLD RANGES 04.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





NOZZLES 04.01

ACCESSORIES 09.01

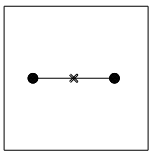
MANIFOLD RANGES 04.02.001

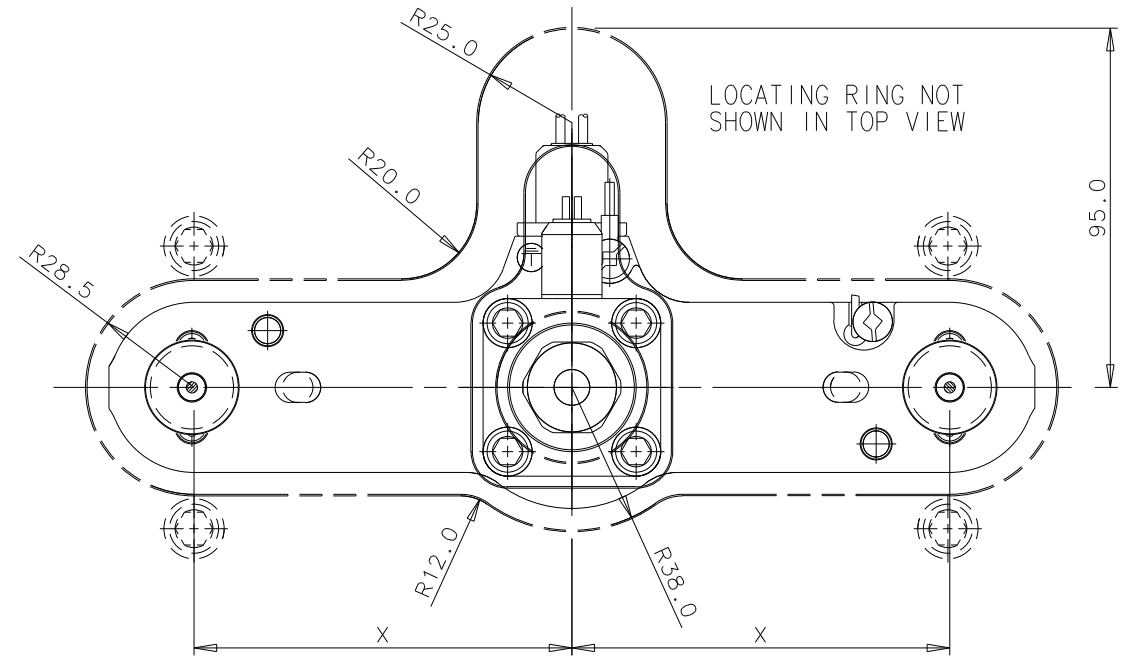
MANIFOLD COMPONENTS 10.01

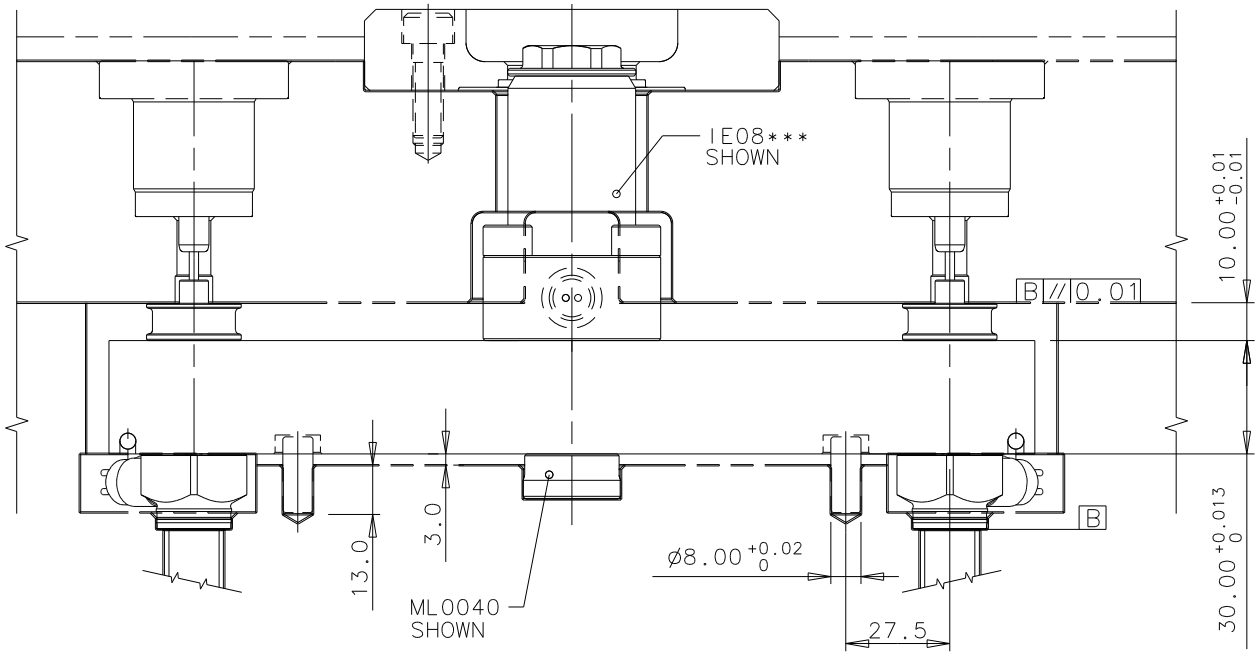
X = 100 SHOWN

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 100 SHOWN

NOZZLES
04.01

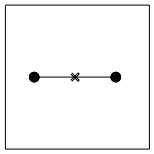
ACCESSORIES
09.01

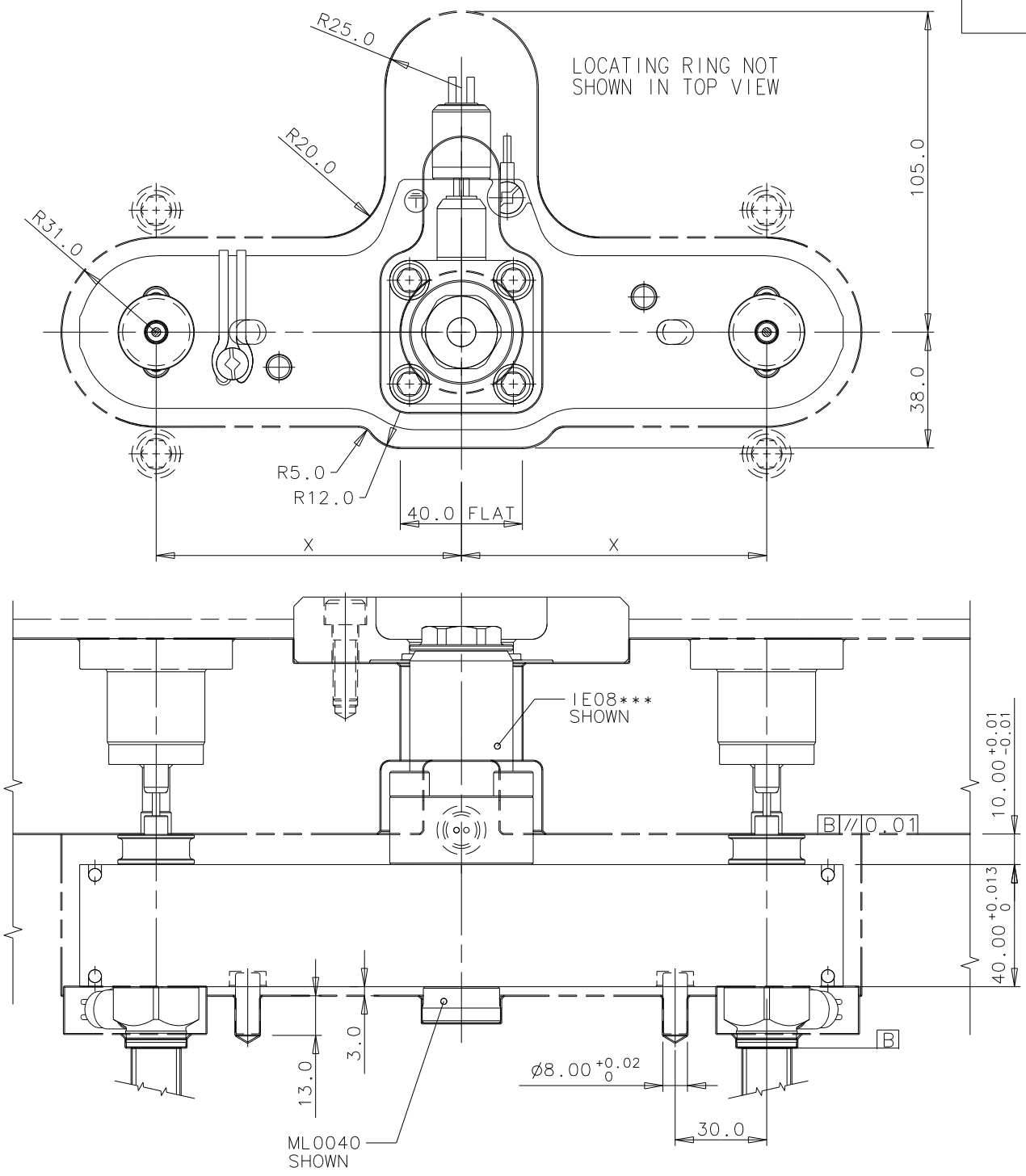
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES 04.01

ACCESSORIES 09.01

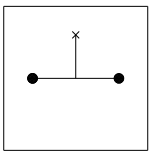
MANIFOLD RANGES 04.02.001

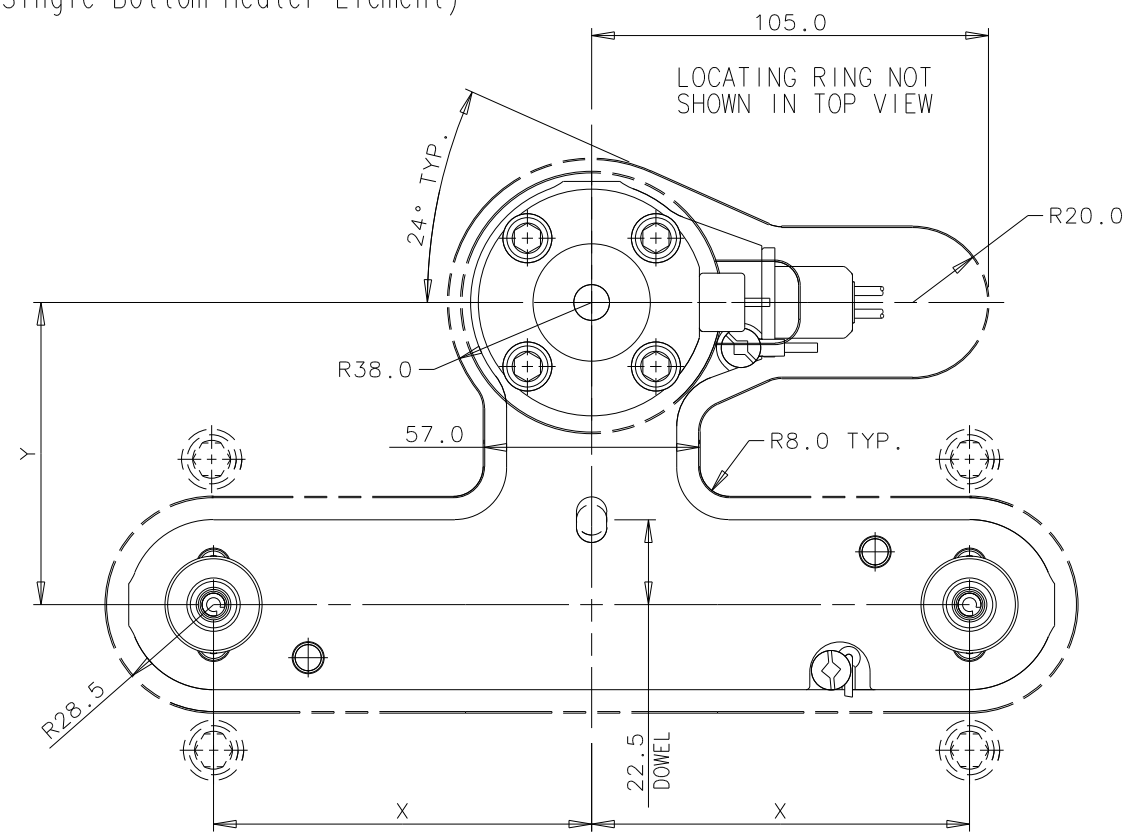
MANIFOLD COMPONENTS 10.01

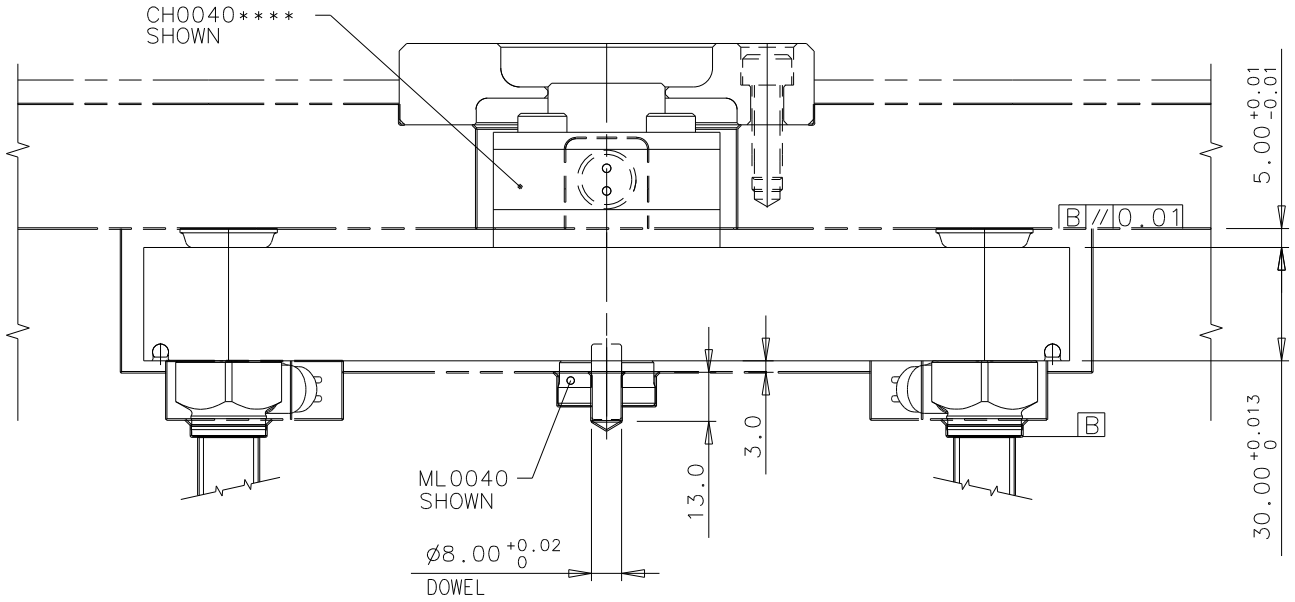
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 100 / Y = 80 SHOWN

NOZZLES
04.01

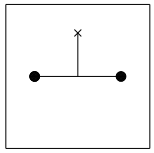
ACCESSORIES
09.01

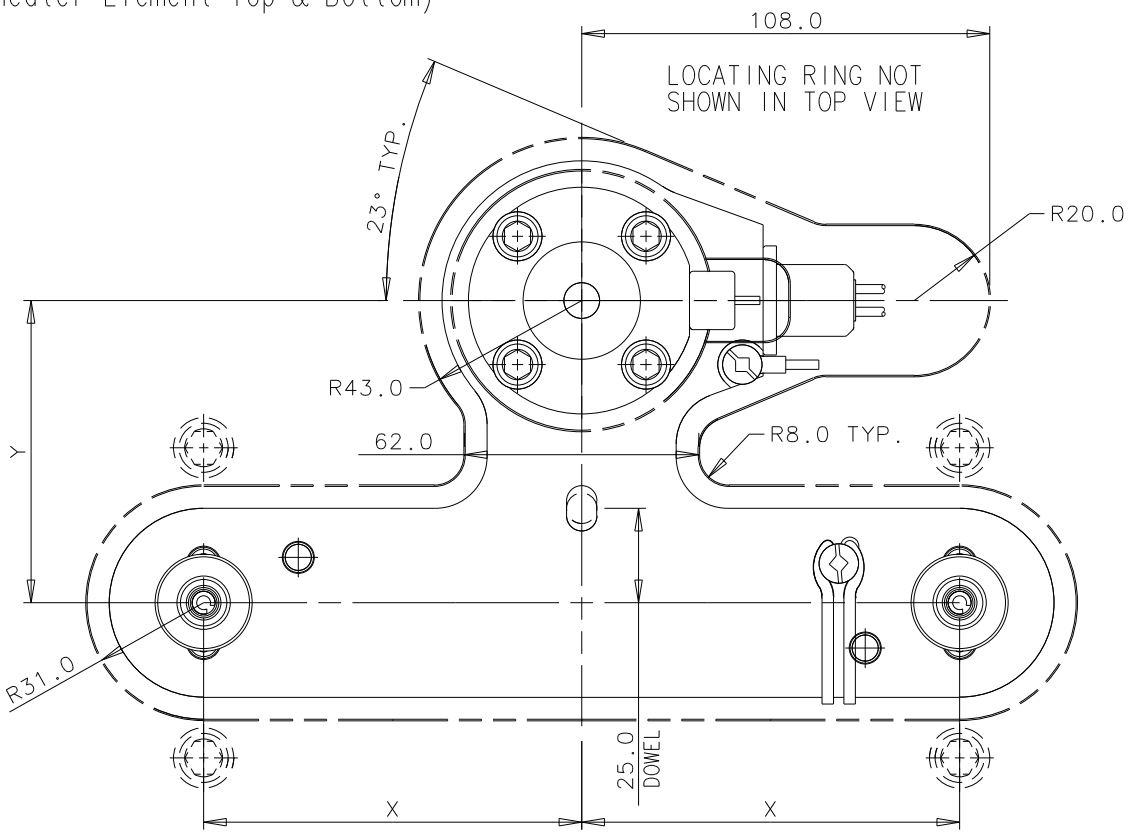
MANIFOLD
RANGES
04.02.001

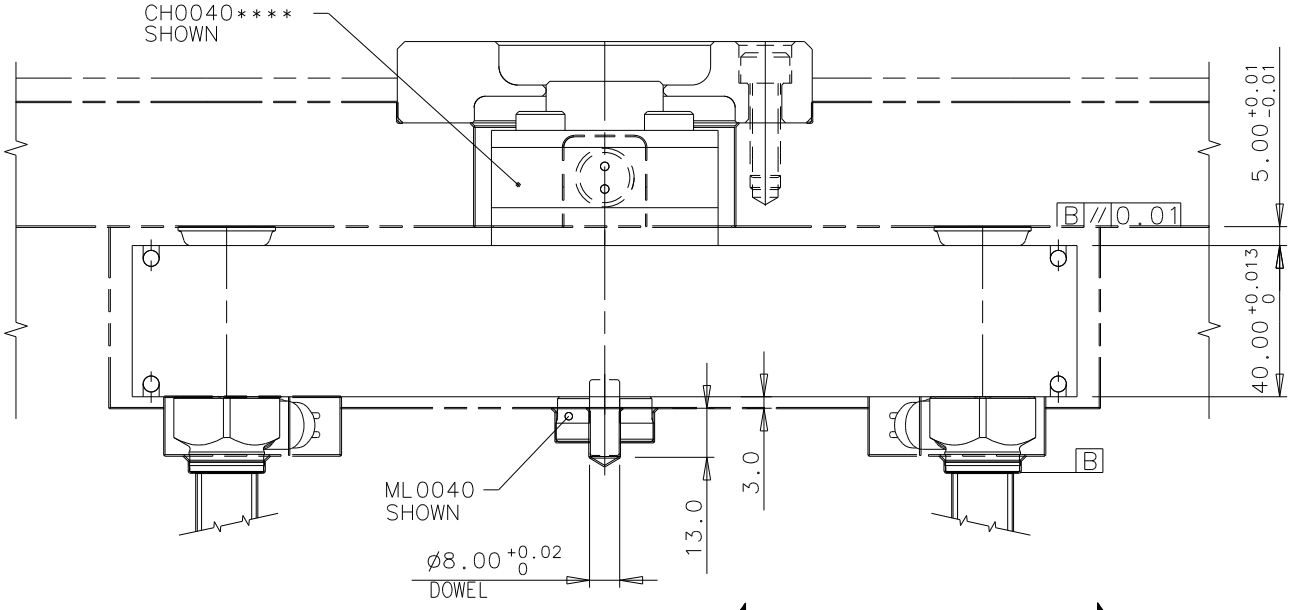
MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)







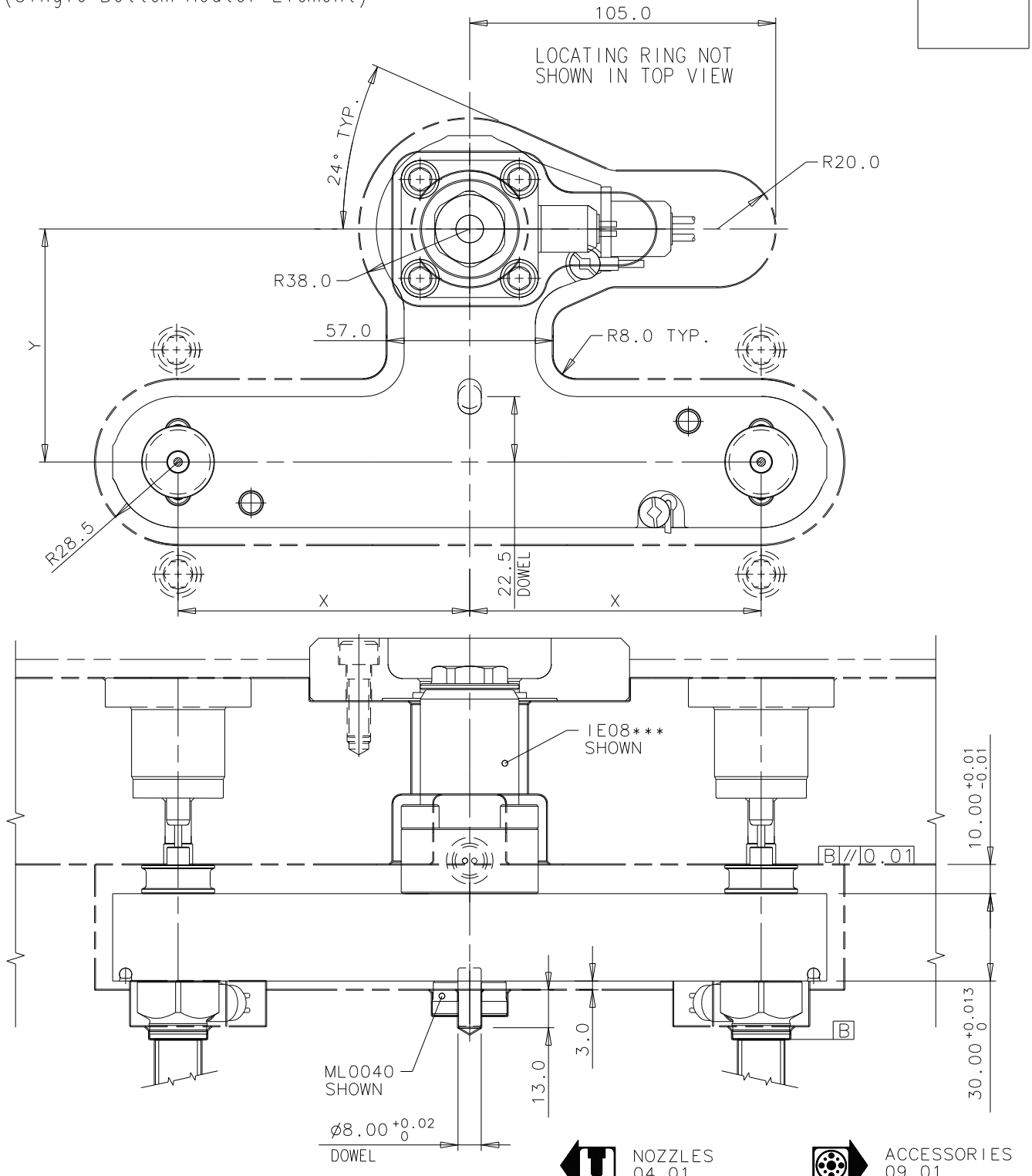
X = 100 / Y = 80 SHOWN

NOZZLES 04.01
ACCESSORIES 09.01
MANIFOLD RANGES 04.02.001
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)



X = 100 / Y = 80 SHOWN

NOZZLES 04.01

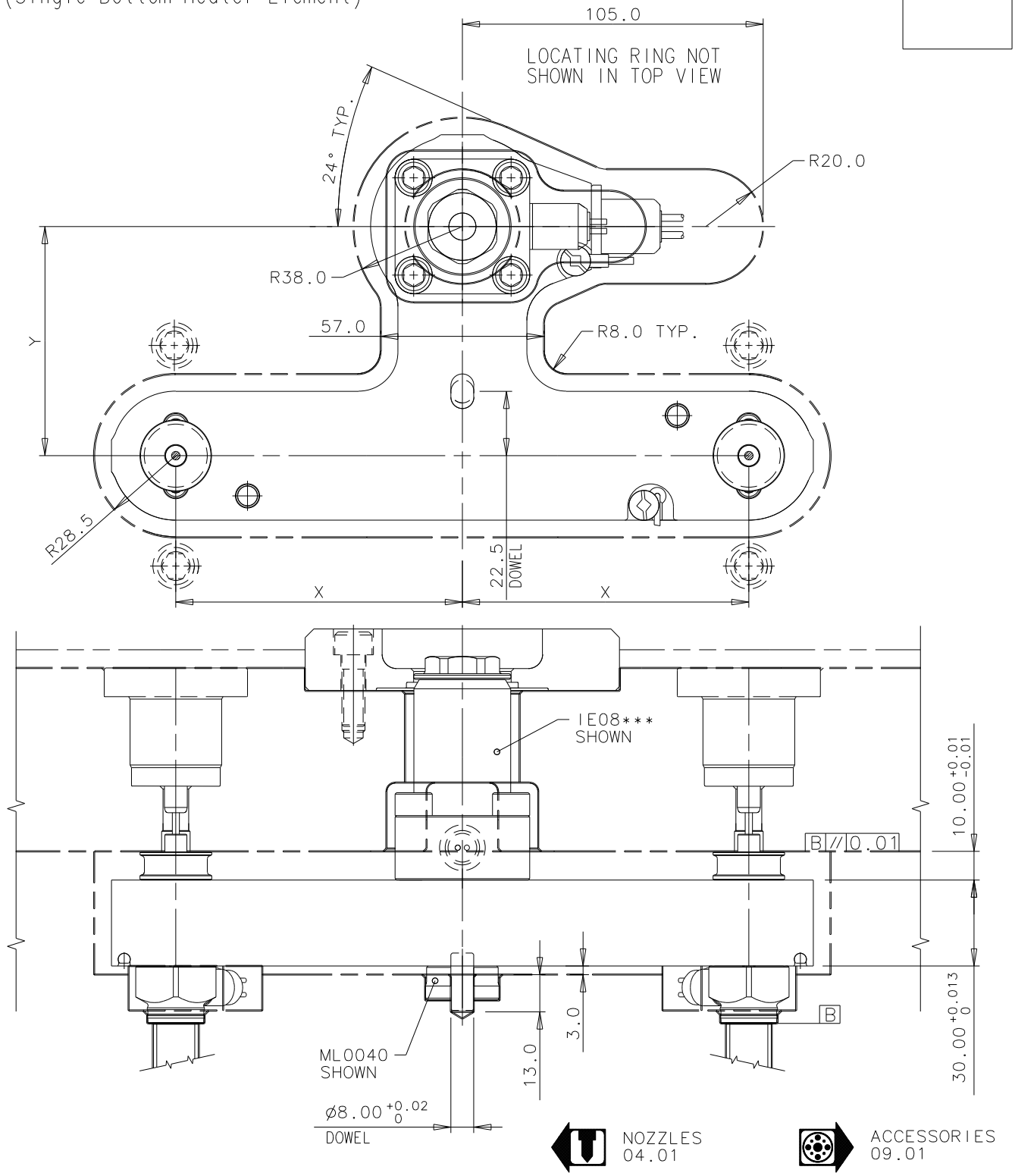
ACCESSORIES 09.01

MANIFOLD RANGES 04.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)



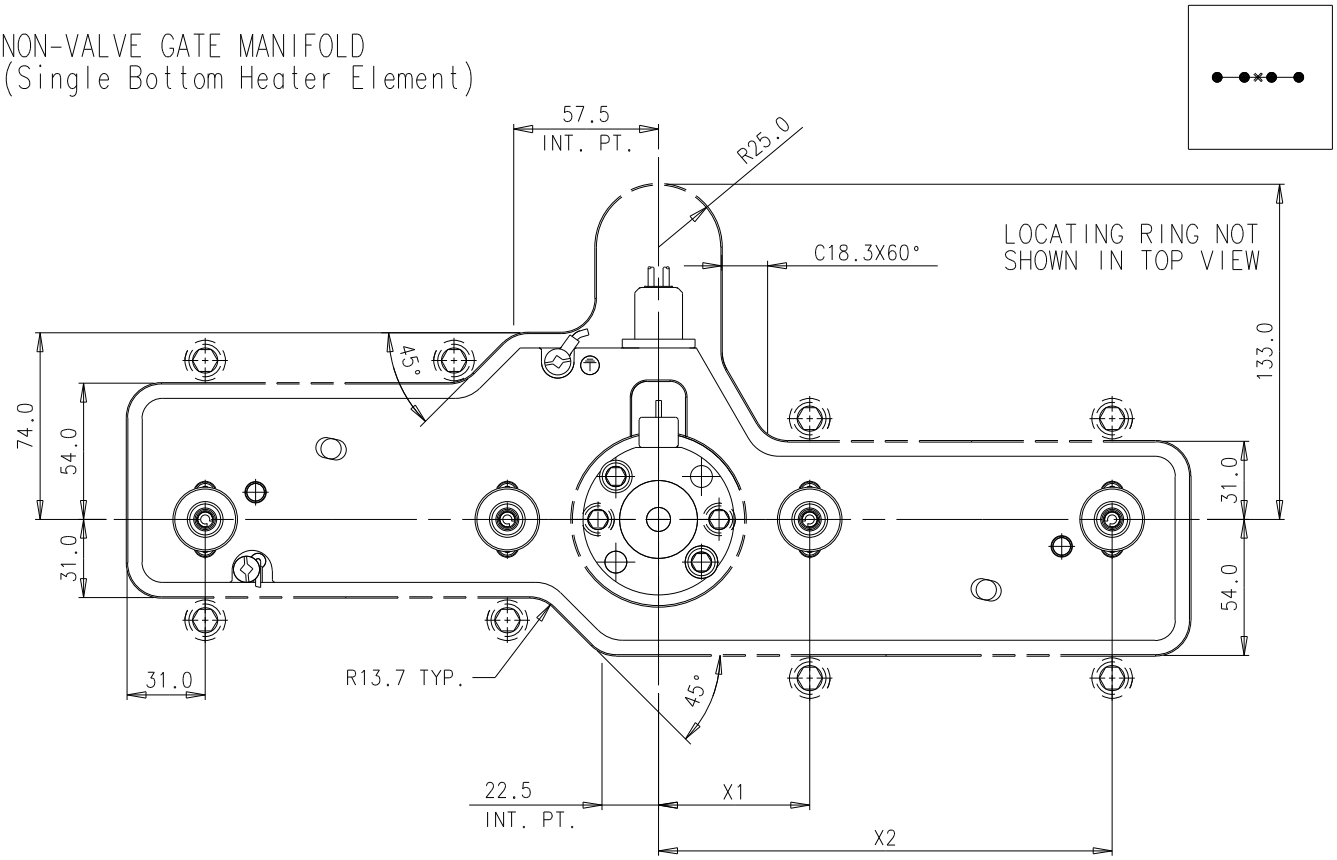
X = 100 / Y = 80 SHOWN

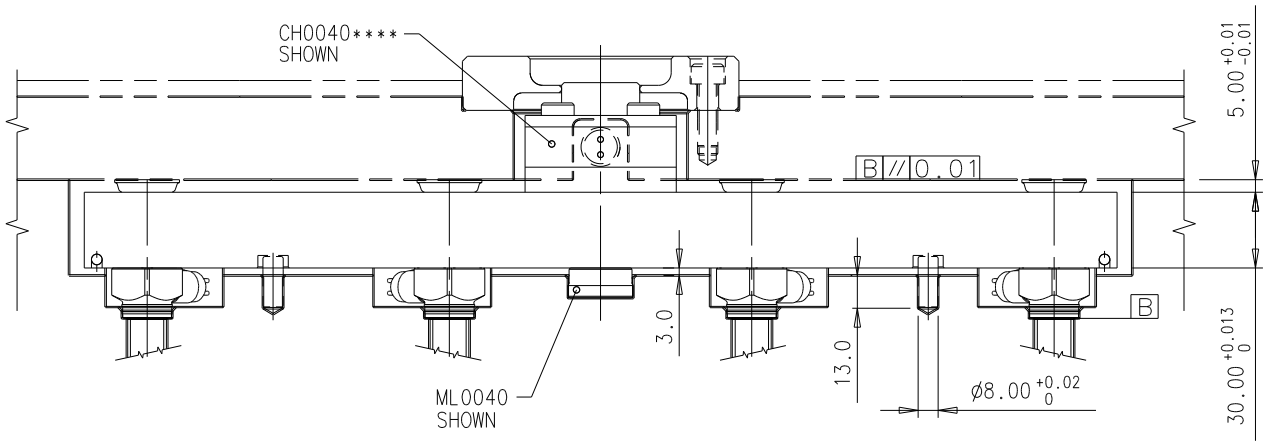
NOZZLES 04.01
ACCESSORIES 09.01
MANIFOLD RANGES 04.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 60 SHOWN

NOZZLES
04.01

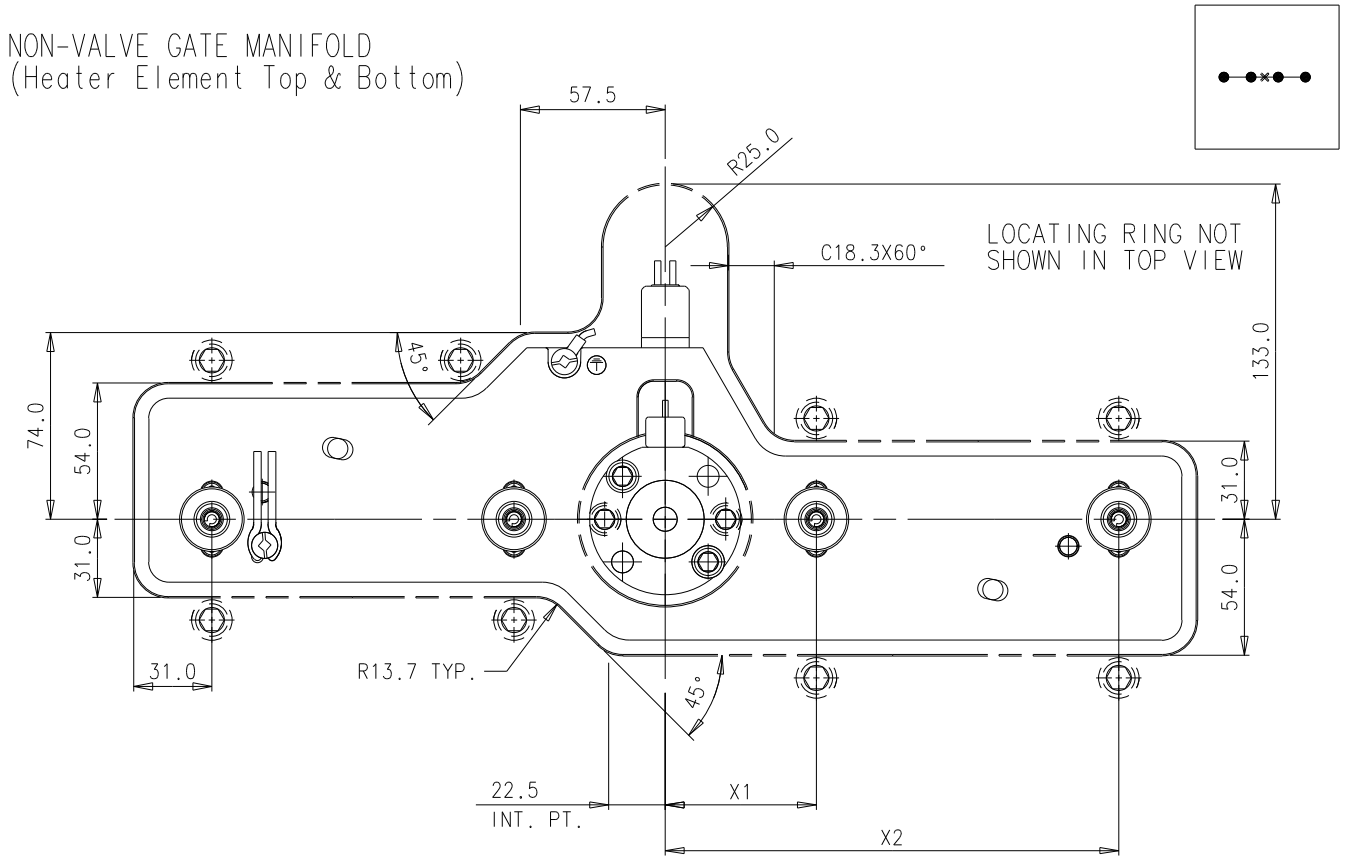
ACCESSORIES
09.01

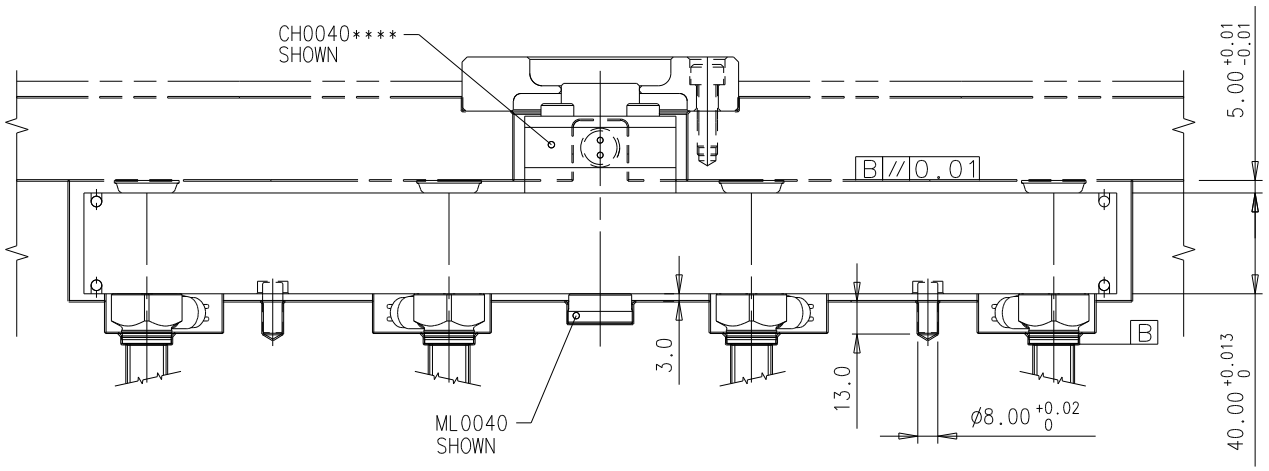
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 SHOWN

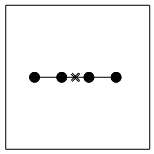
NOZZLES 04.01

ACCESSORIES 09.01

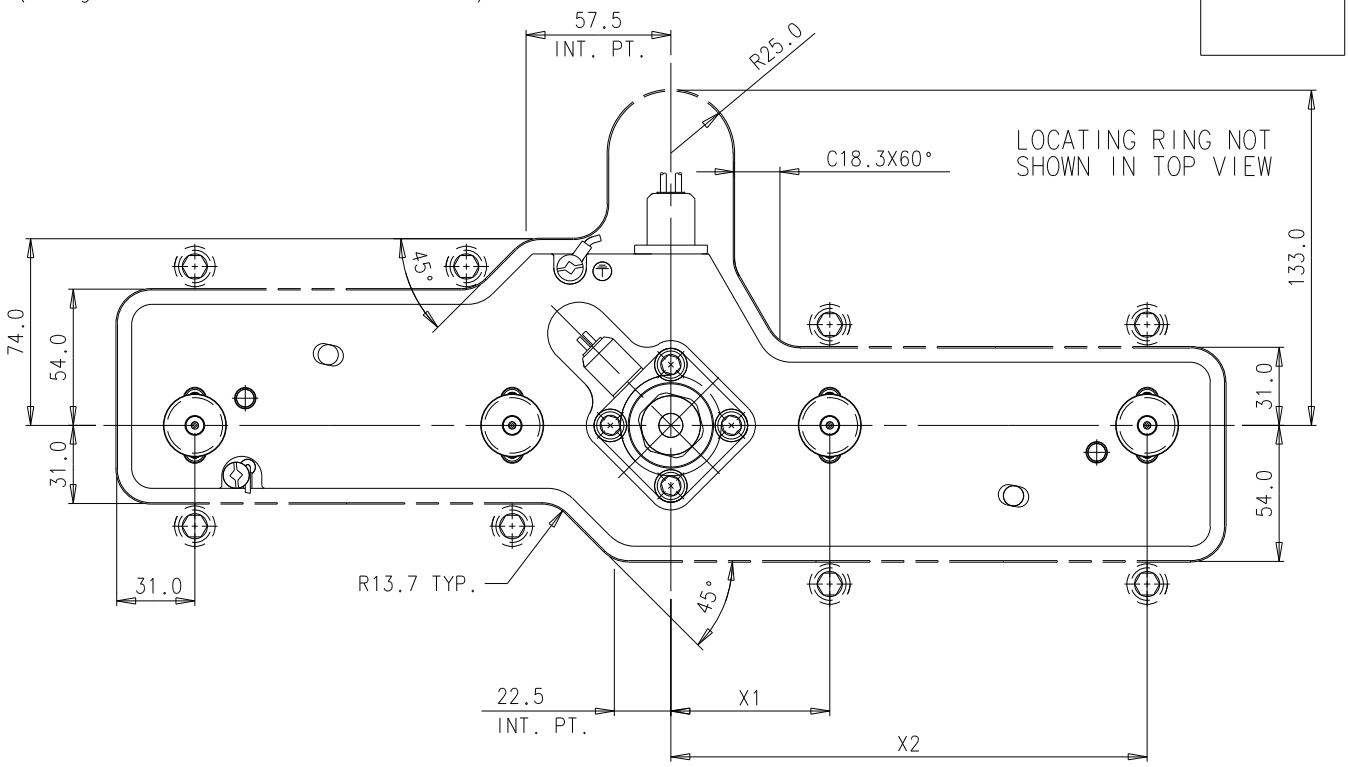
MANIFOLD RANGES 04.02.001

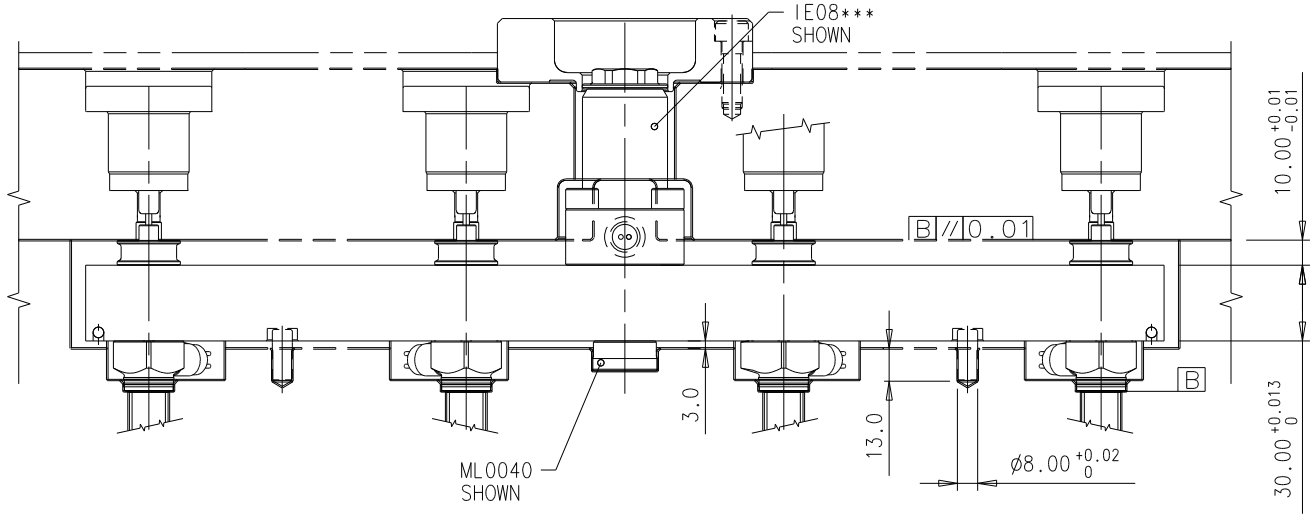
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 63 SHOWN

NOZZLES
04.01

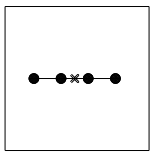
ACCESSORIES
09.01

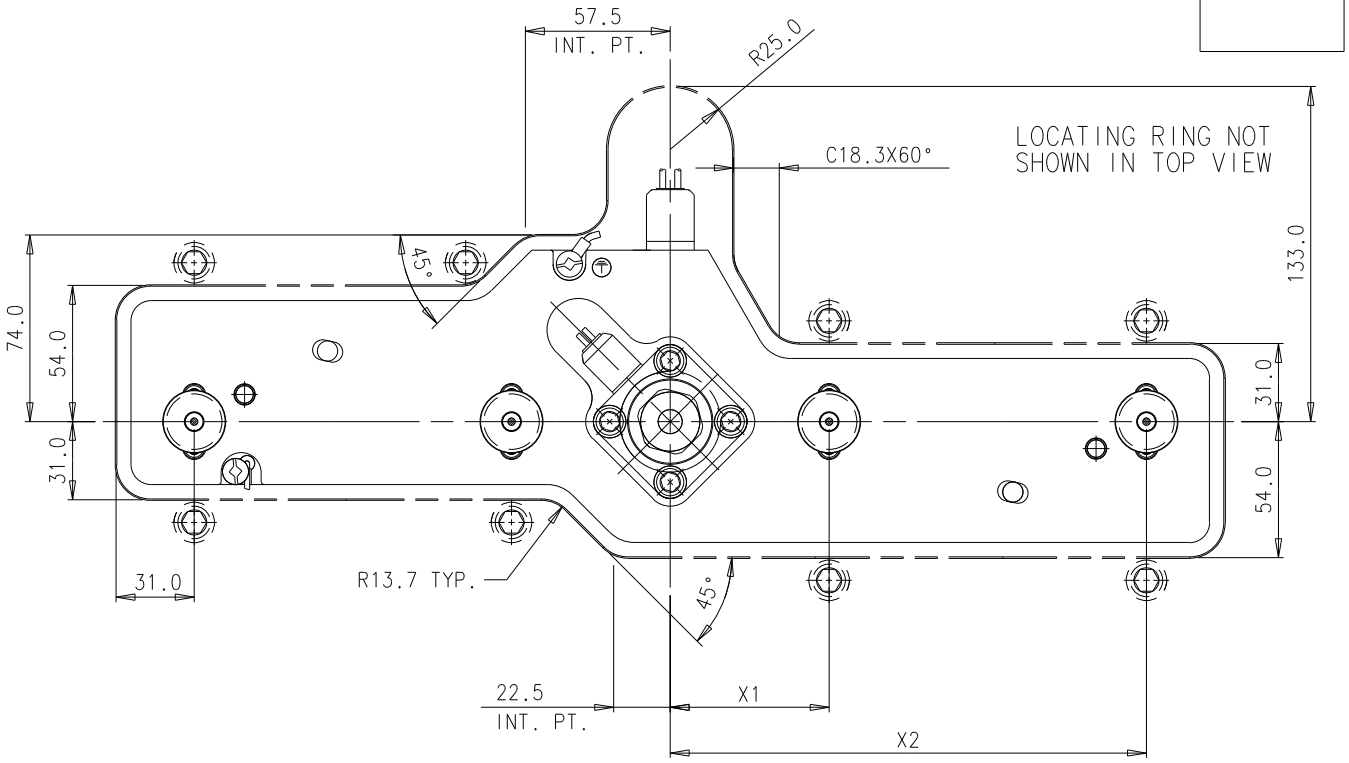
MANIFOLD
RANGES
04.02.001

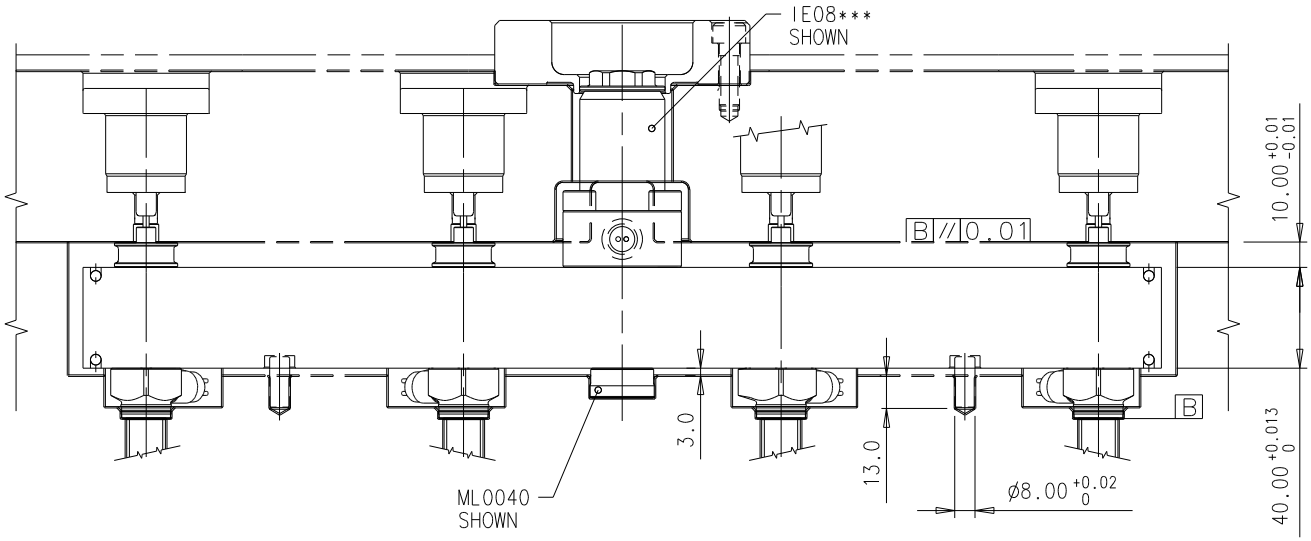
MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)







X = 63 SHOWN

NOZZLES
04.01

ACCESSORIES
09.01

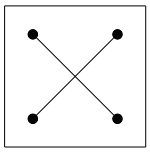
MANIFOLD
RANGES
04.02.001

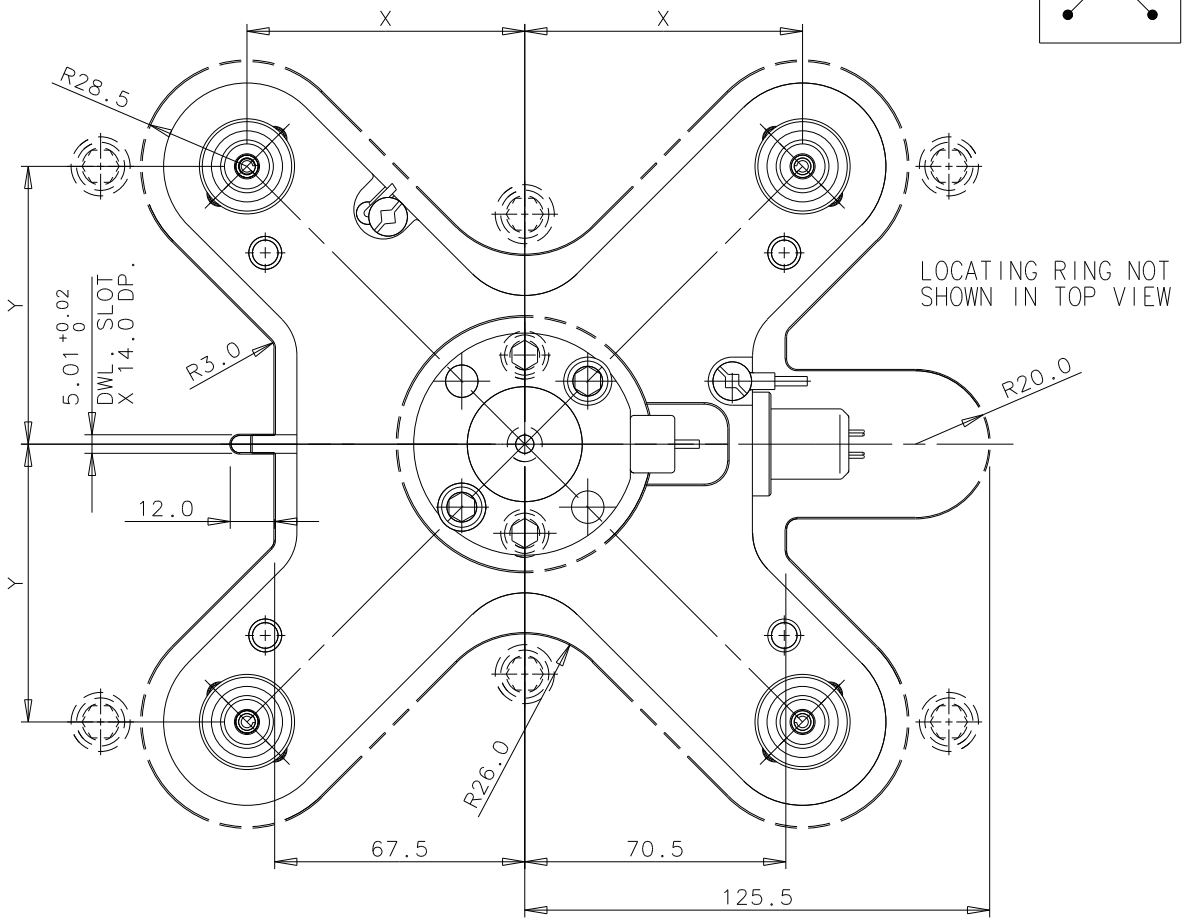
MANIFOLD
COMPONENTS
10.01

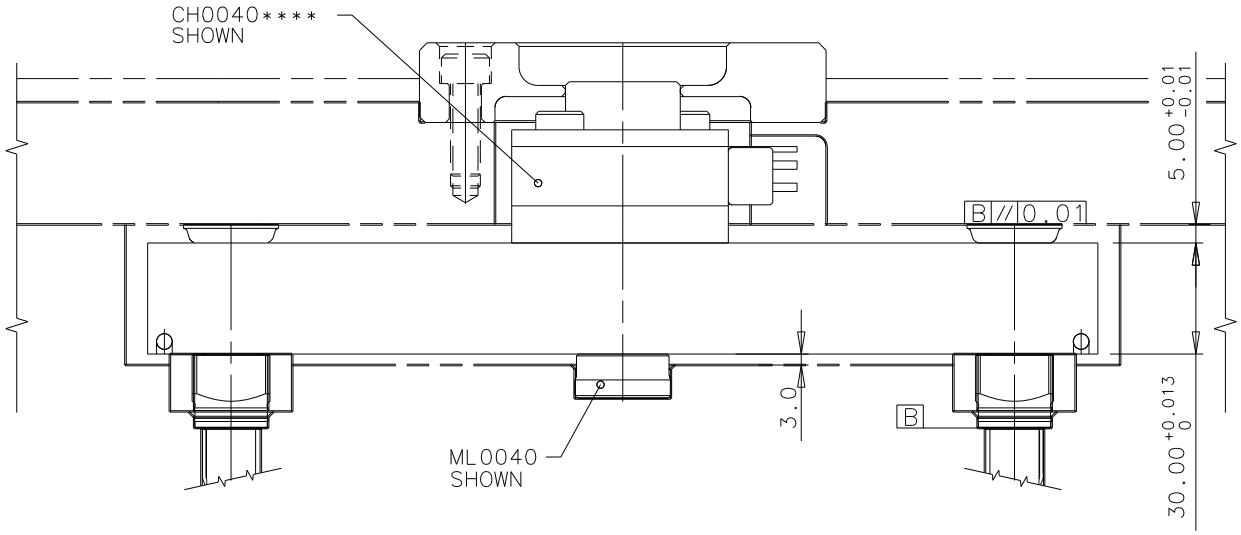
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 75 SHOWN

NOZZLES
04.01

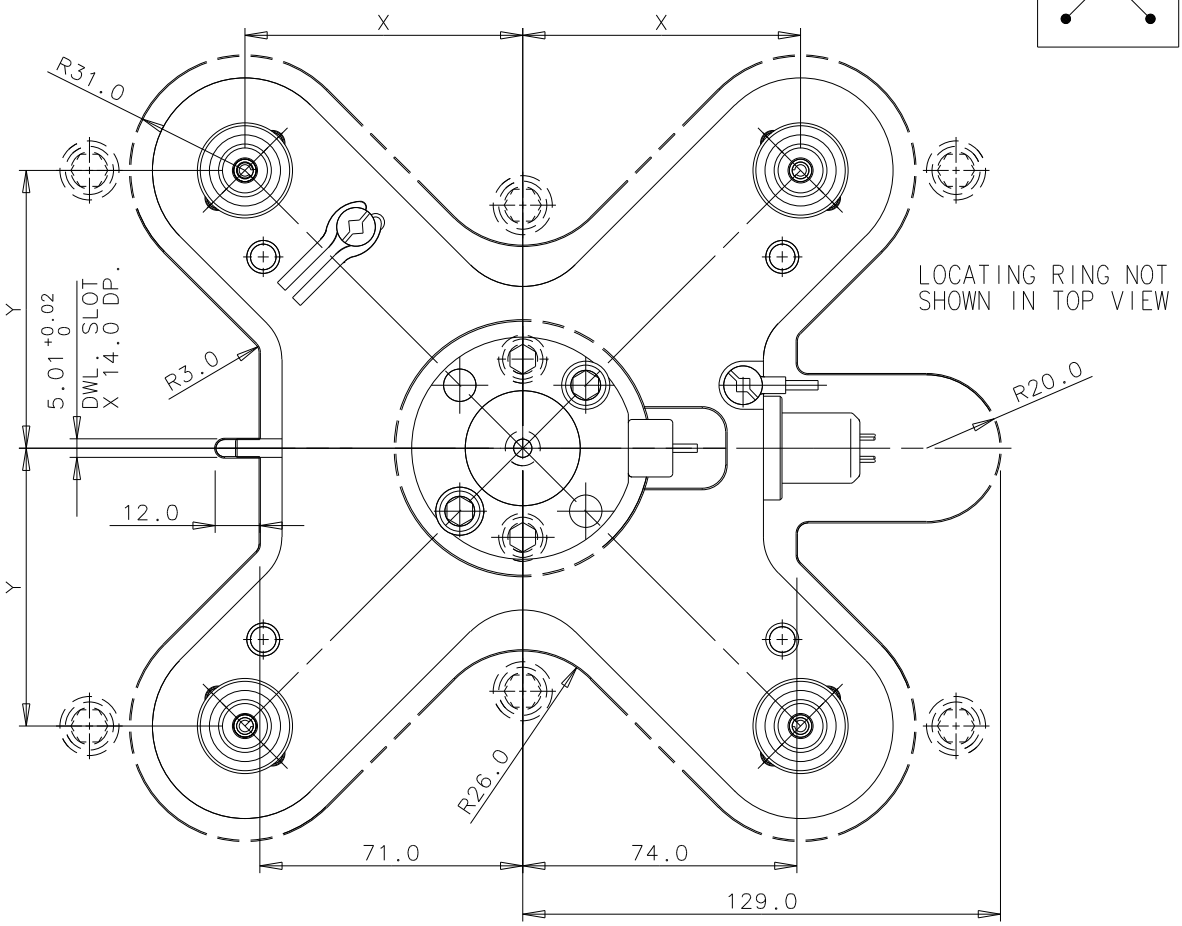
ACCESSORIES
09.01

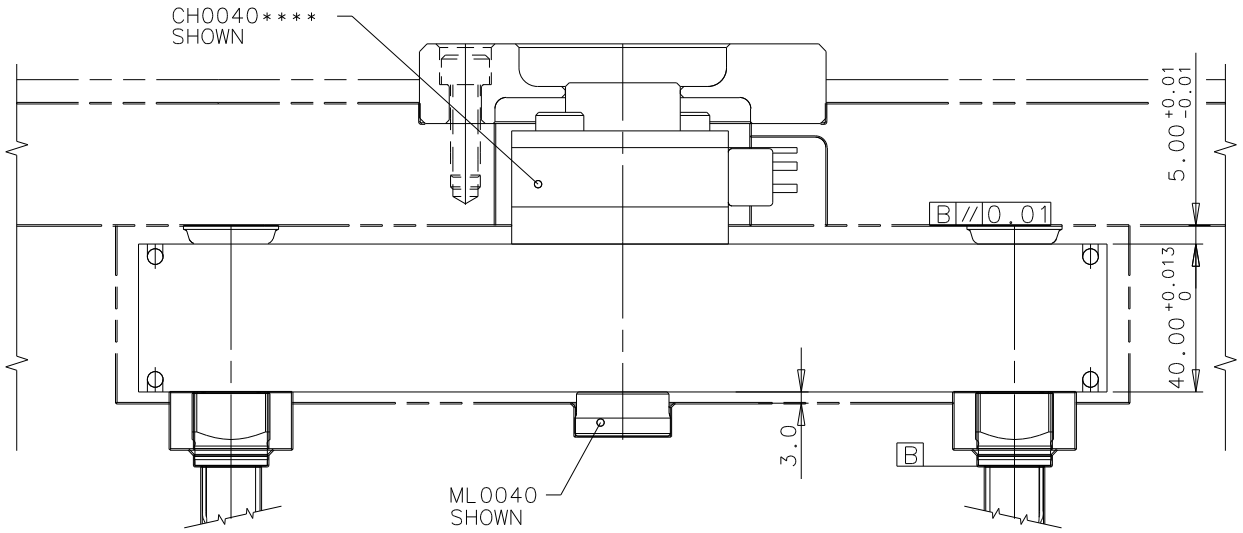
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





NOZZLES
04.01

ACCESSORIES
09.01

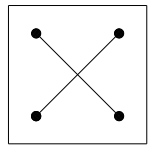
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

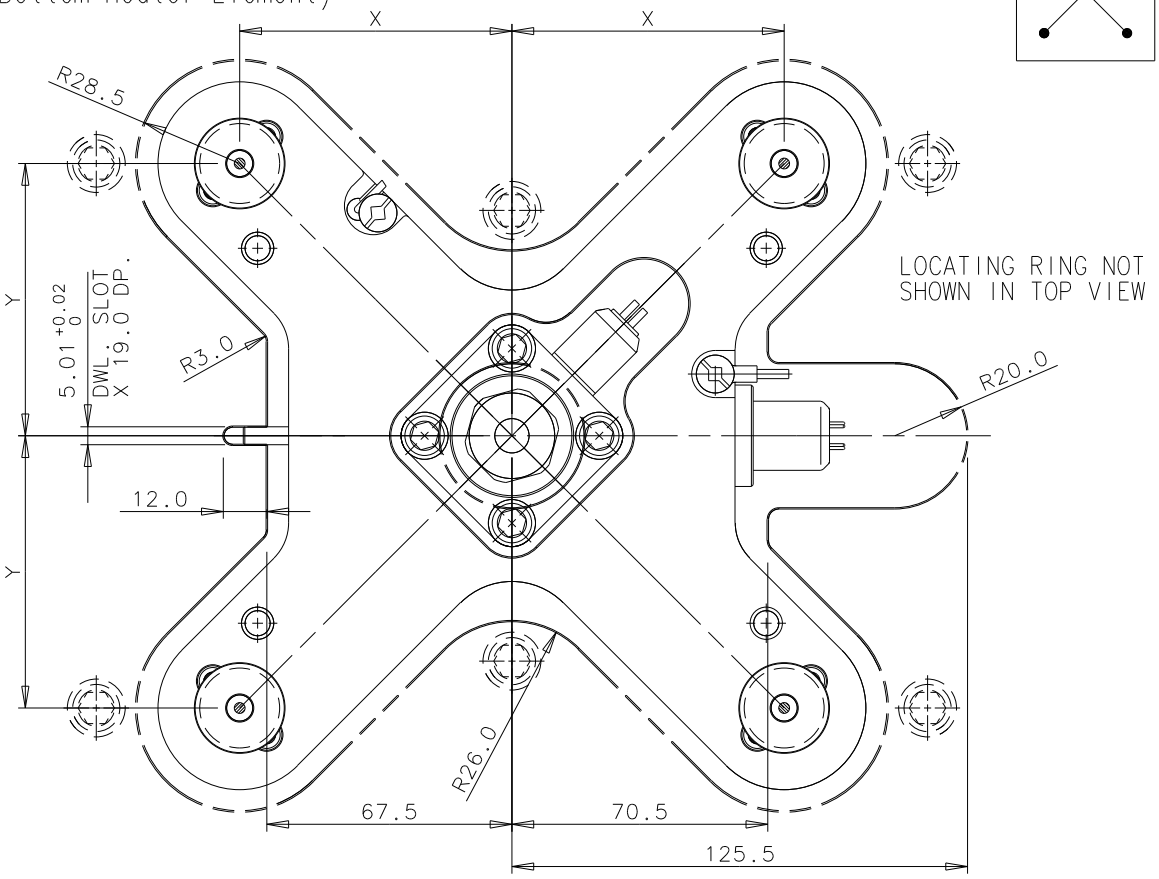
X = 75 SHOWN

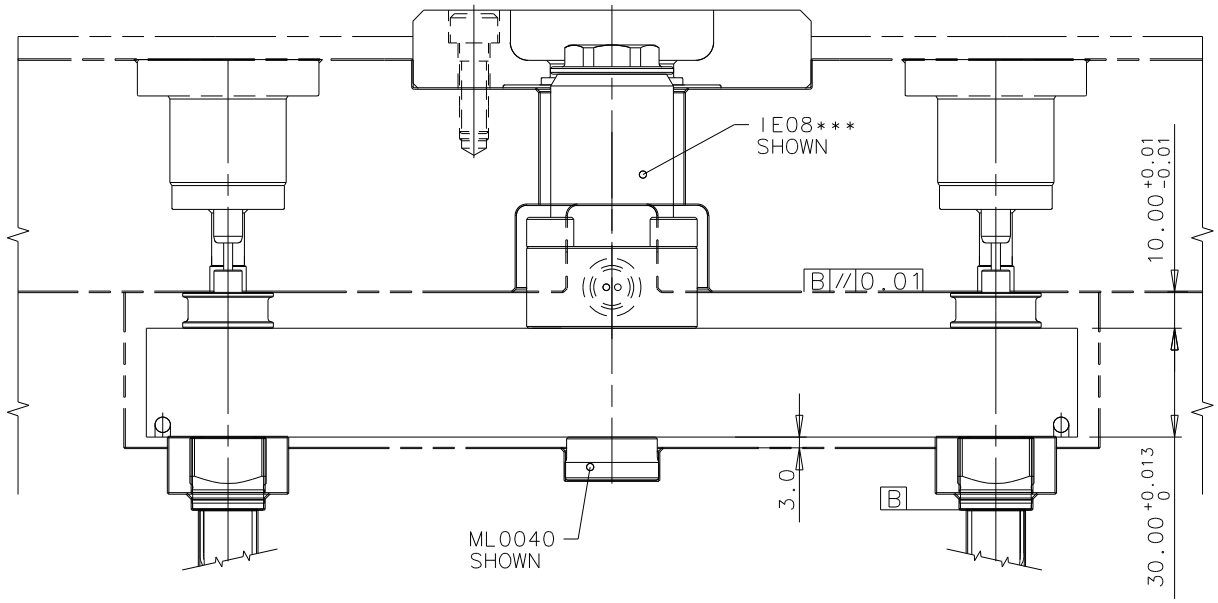
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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 75 SHOWN

NOZZLES
04.01

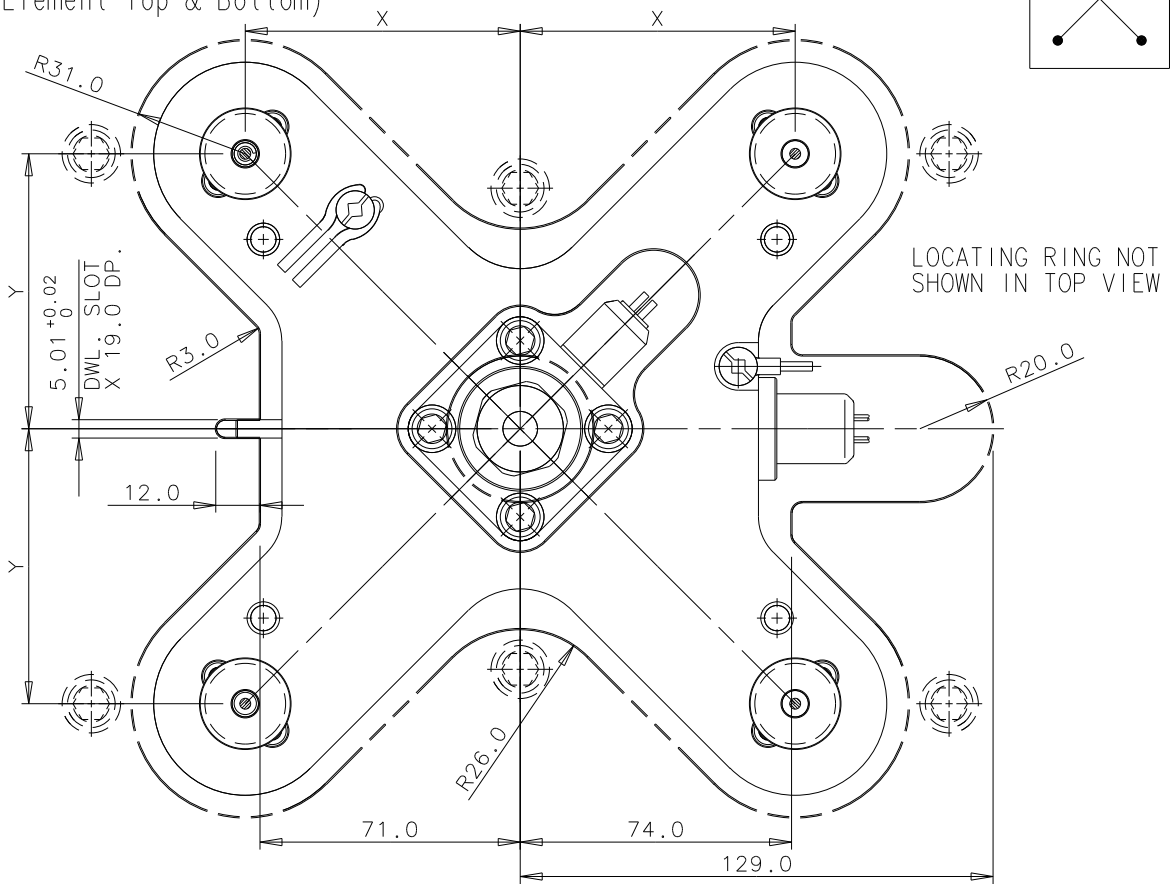
ACCESSORIES
09.01

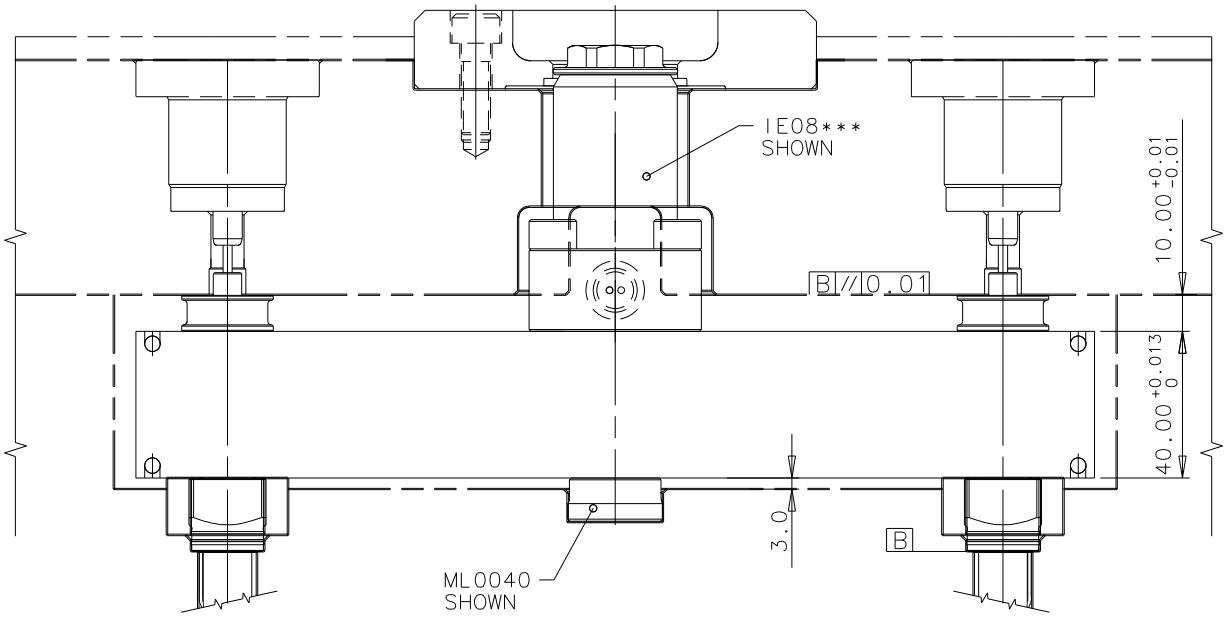
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 75 SHOWN

NOZZLES 04.01

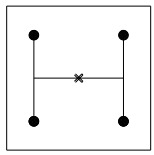
ACCESSORIES 09.01

MANIFOLD RANGES 04.02.001

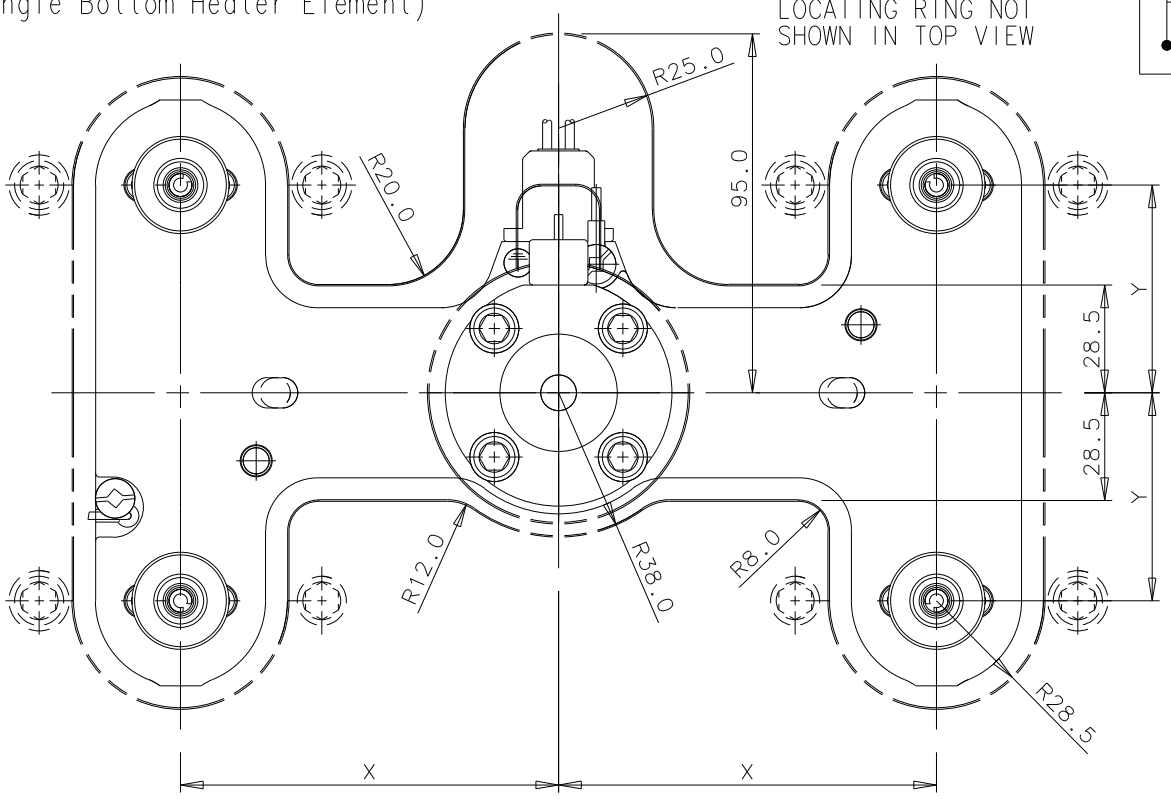
MANIFOLD COMPONENTS 10.01

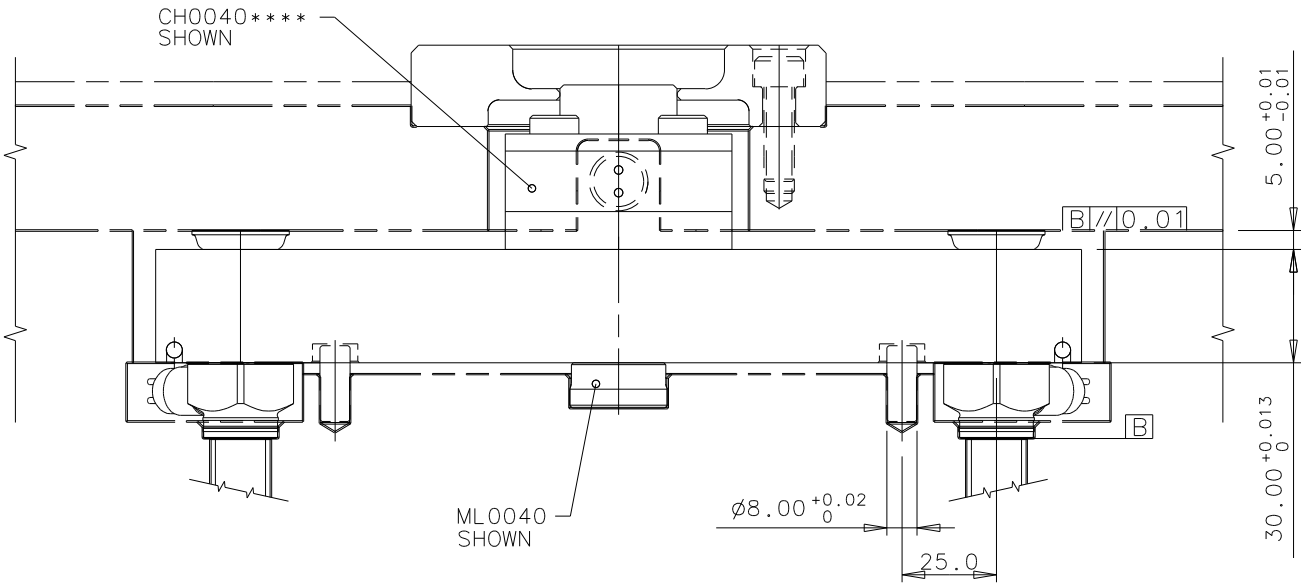
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 / Y = 55 SHOWN

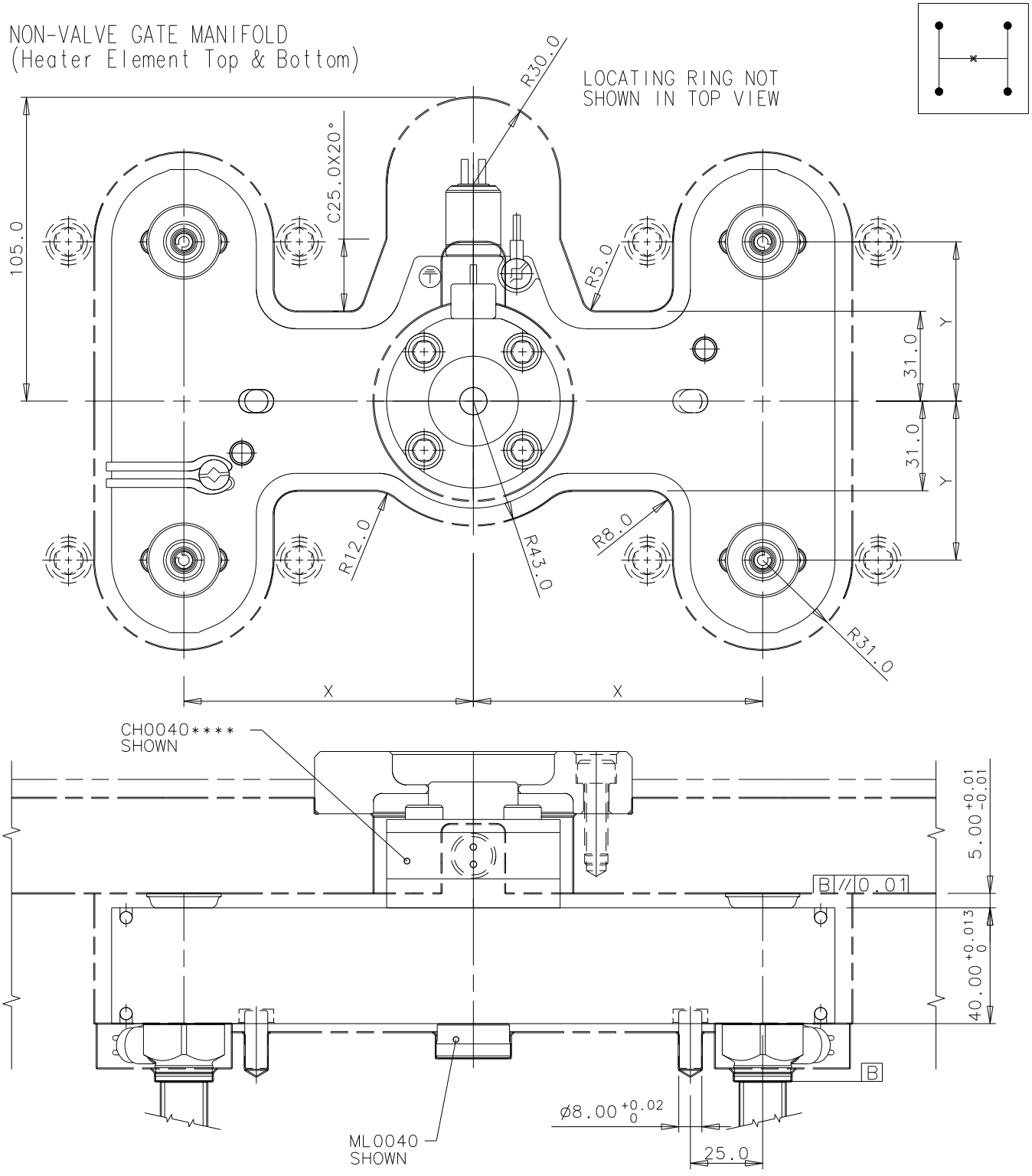
NOZZLES
04.01

ACCESSORIES
09.01

MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

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X = 100 / Y = 55 SHOWN

NOZZLES
04.01

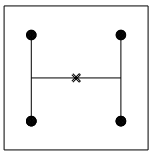
ACCESSORIES
09.01

MANIFOLD
RANGES
04.02.001

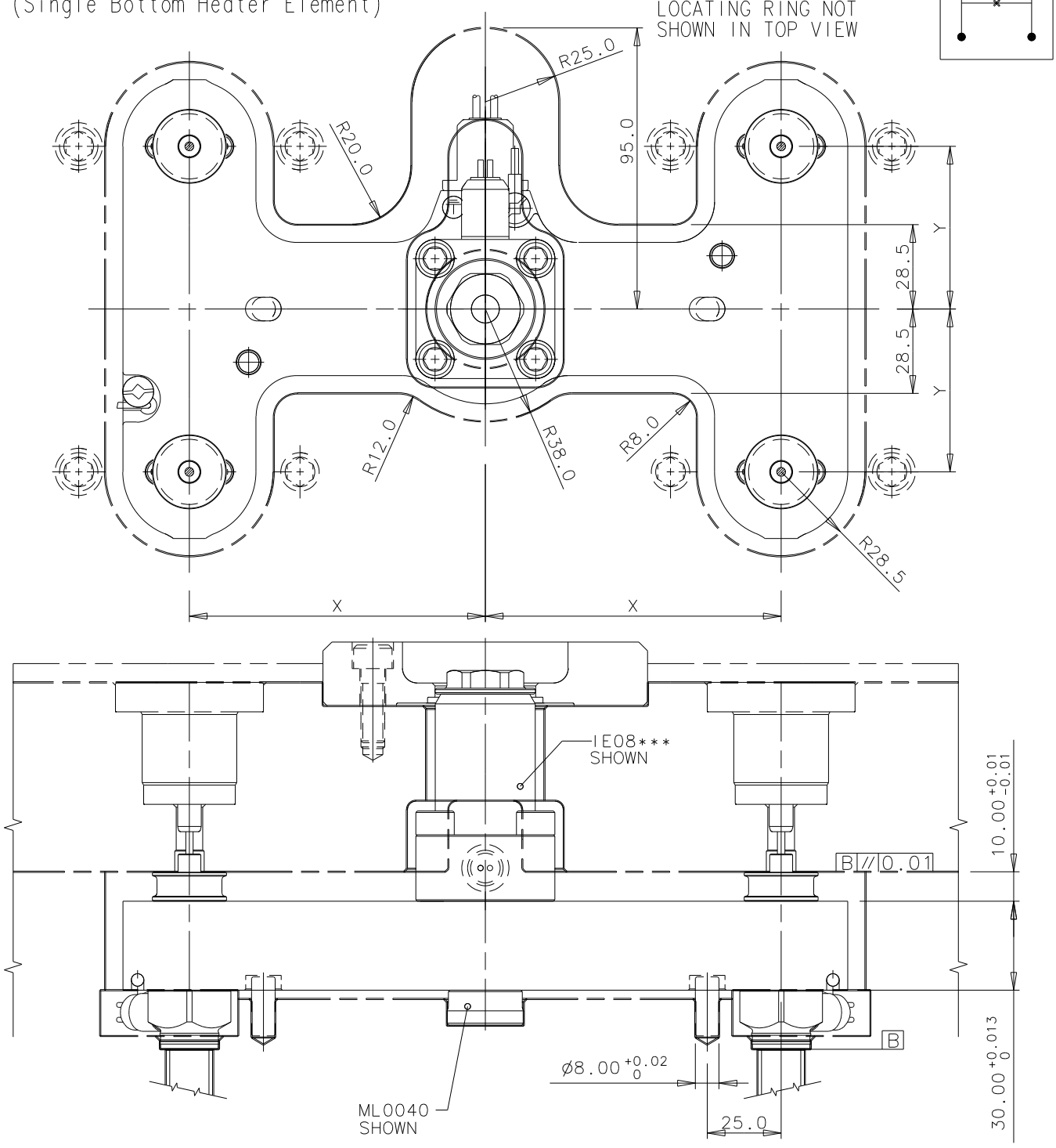
MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)



X = 100 / Y = 55 SHOWN

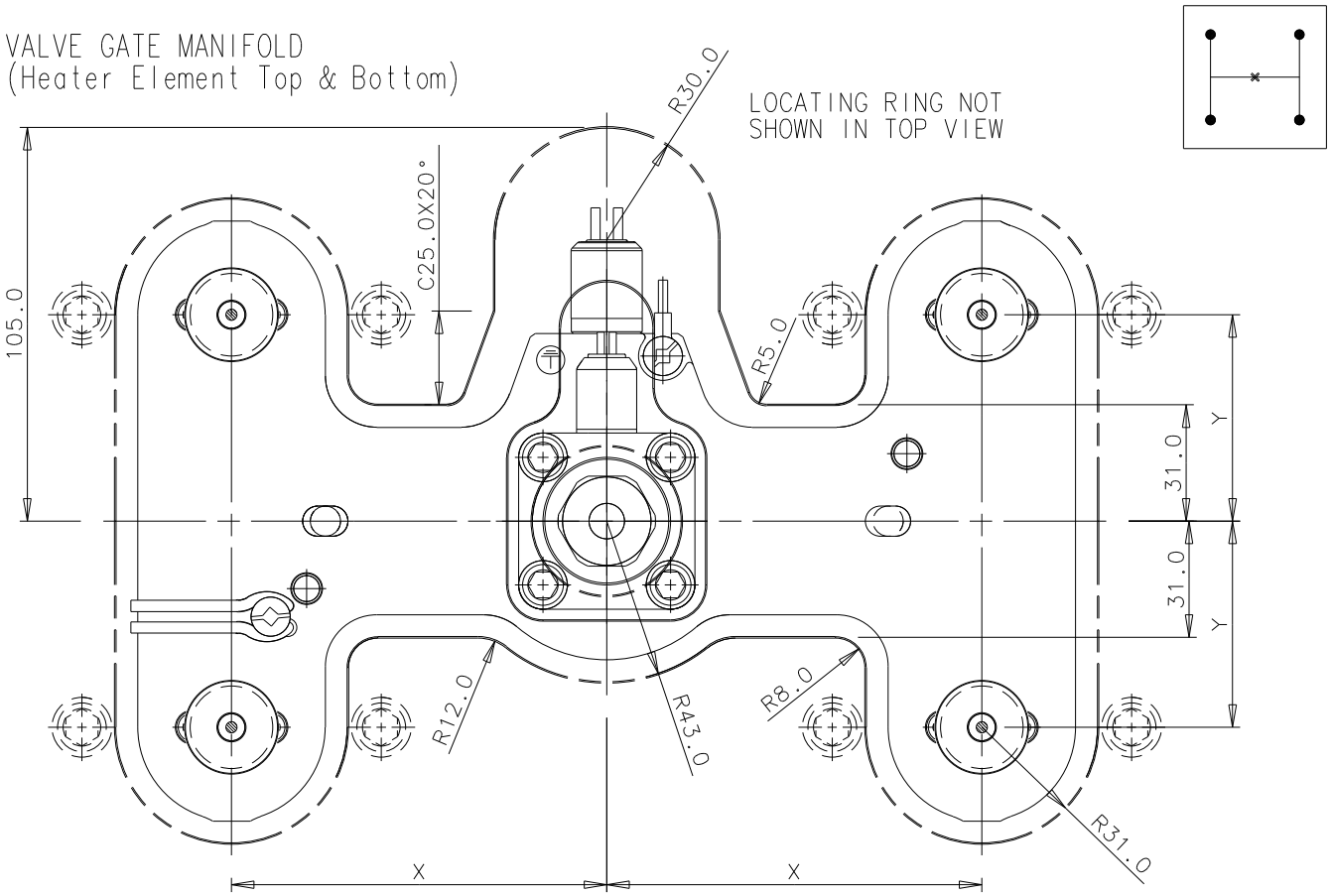
NOZZLES 04.01

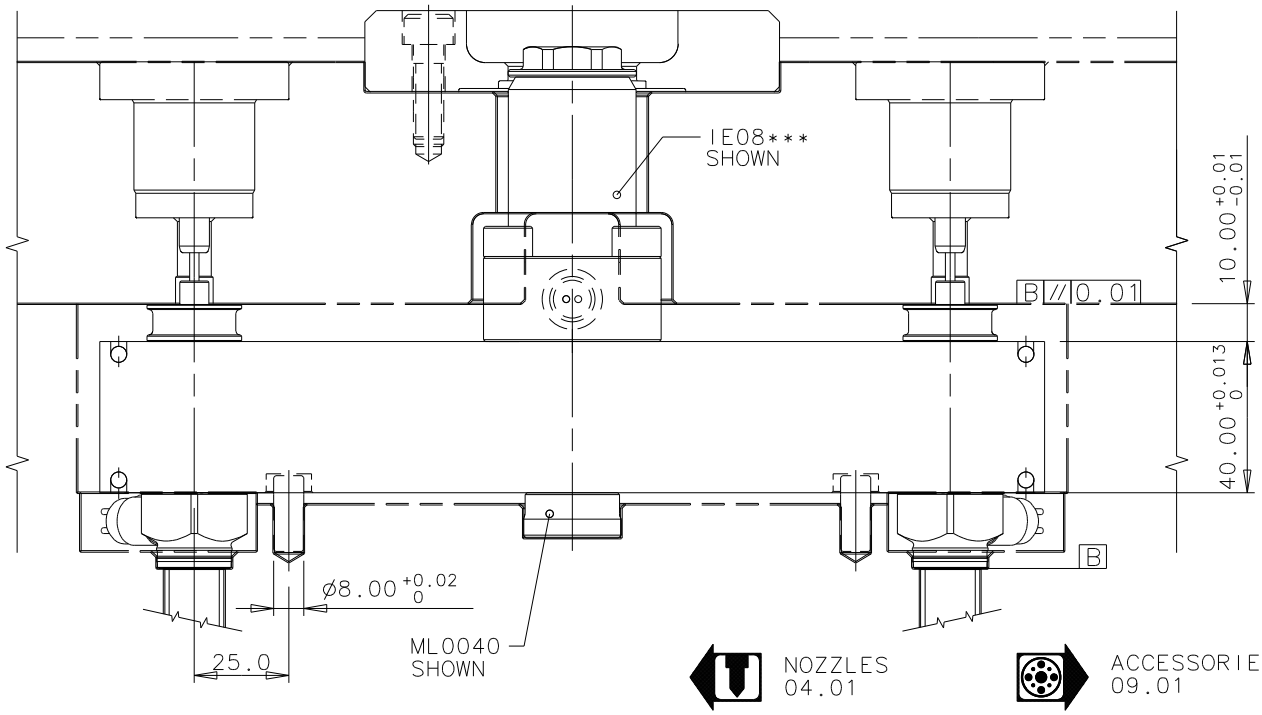
ACCESSORIES 09.01

MANIFOLD RANGES 04.02.001

MANIFOLD COMPONENTS 10.01

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X = 100 / Y = 55 SHOWN

NOZZLES
04.01

ACCESSORIES
09.01

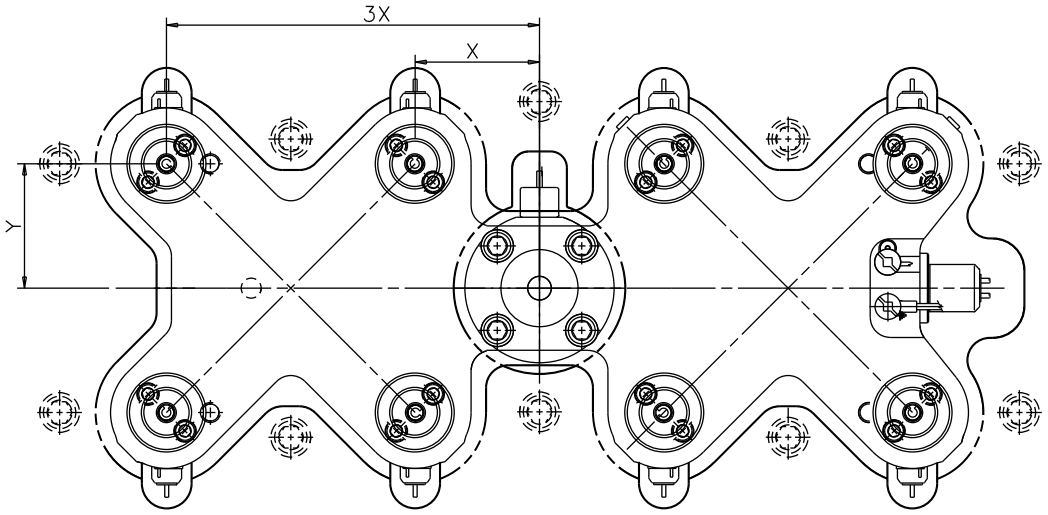
MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

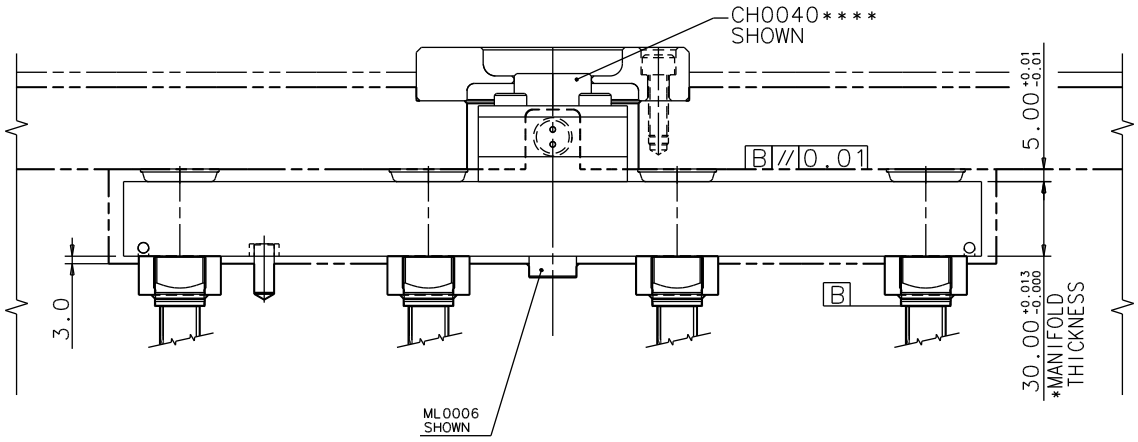
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SPRUE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION
PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X,Y = 50 SHOWN

NOZZLES 04.01

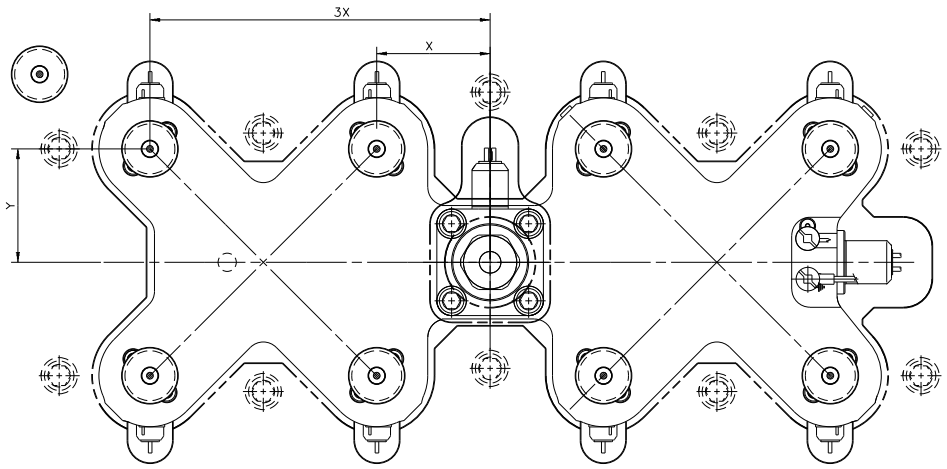
ACCESSORIES 09.01

MANIFOLD RANGES 04.02.001

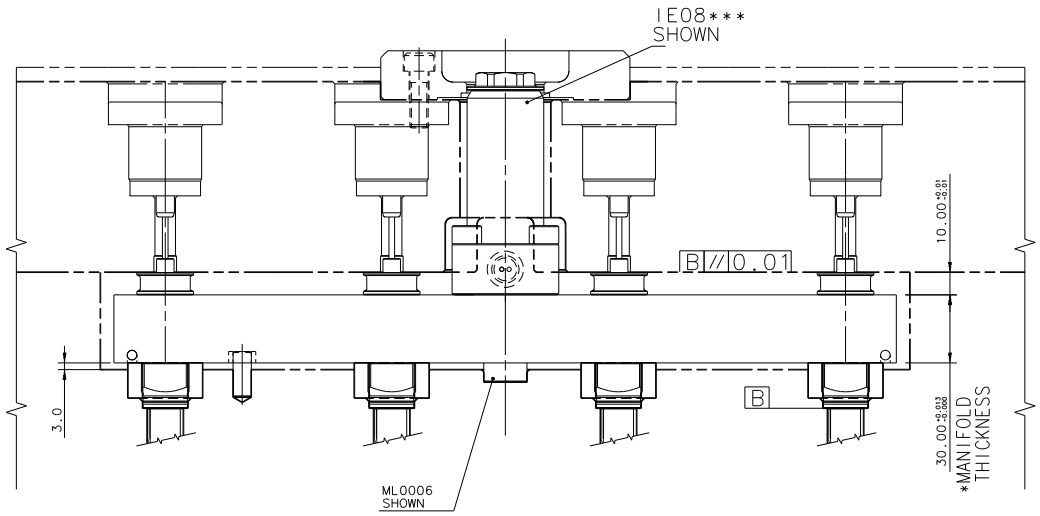
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION
PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO Ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X,Y = 50 SHOWN

NOZZLES 04.01

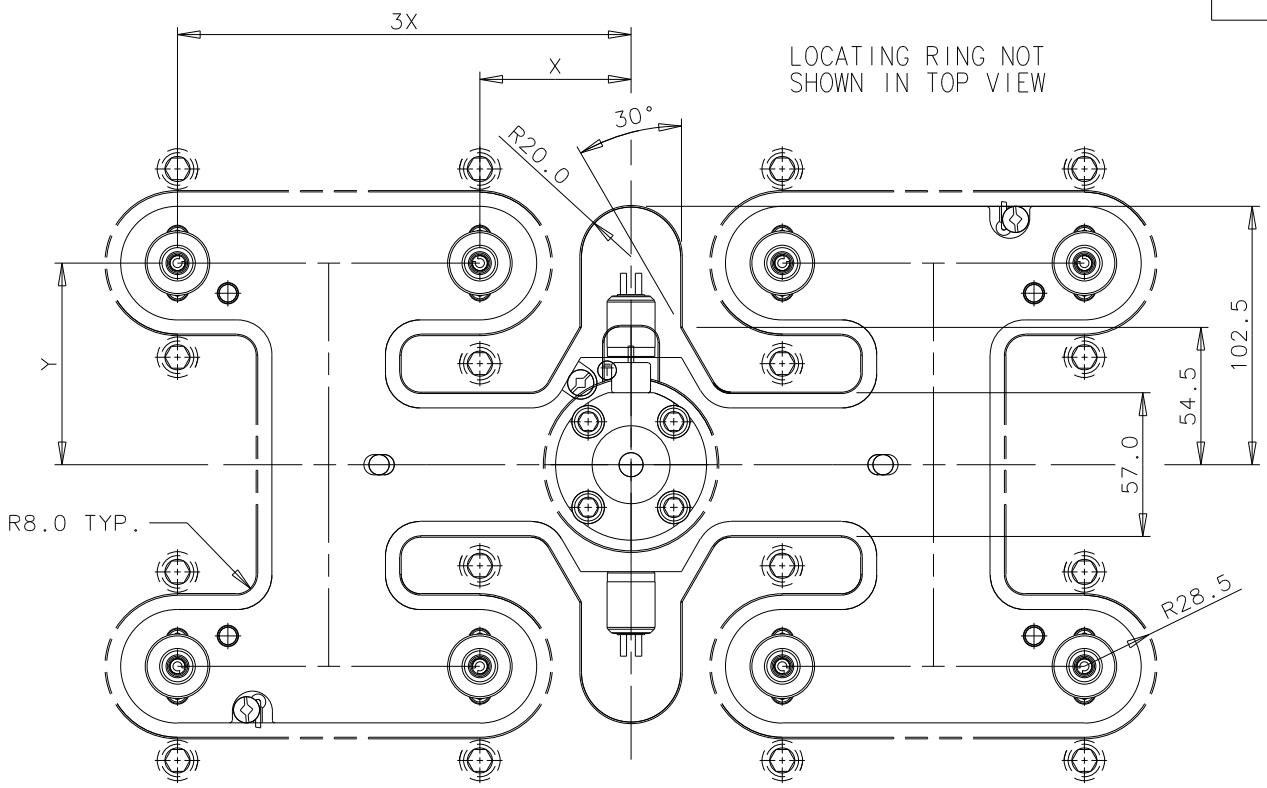
ACCESSORIES 09.01

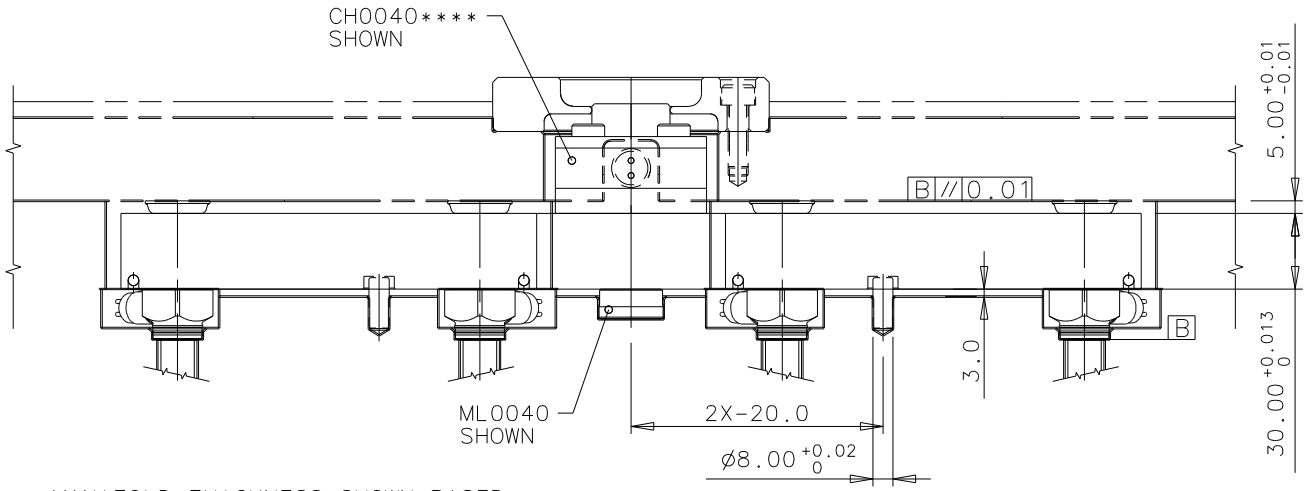
MANIFOLD RANGES 04.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN. HAVING

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES 04.01

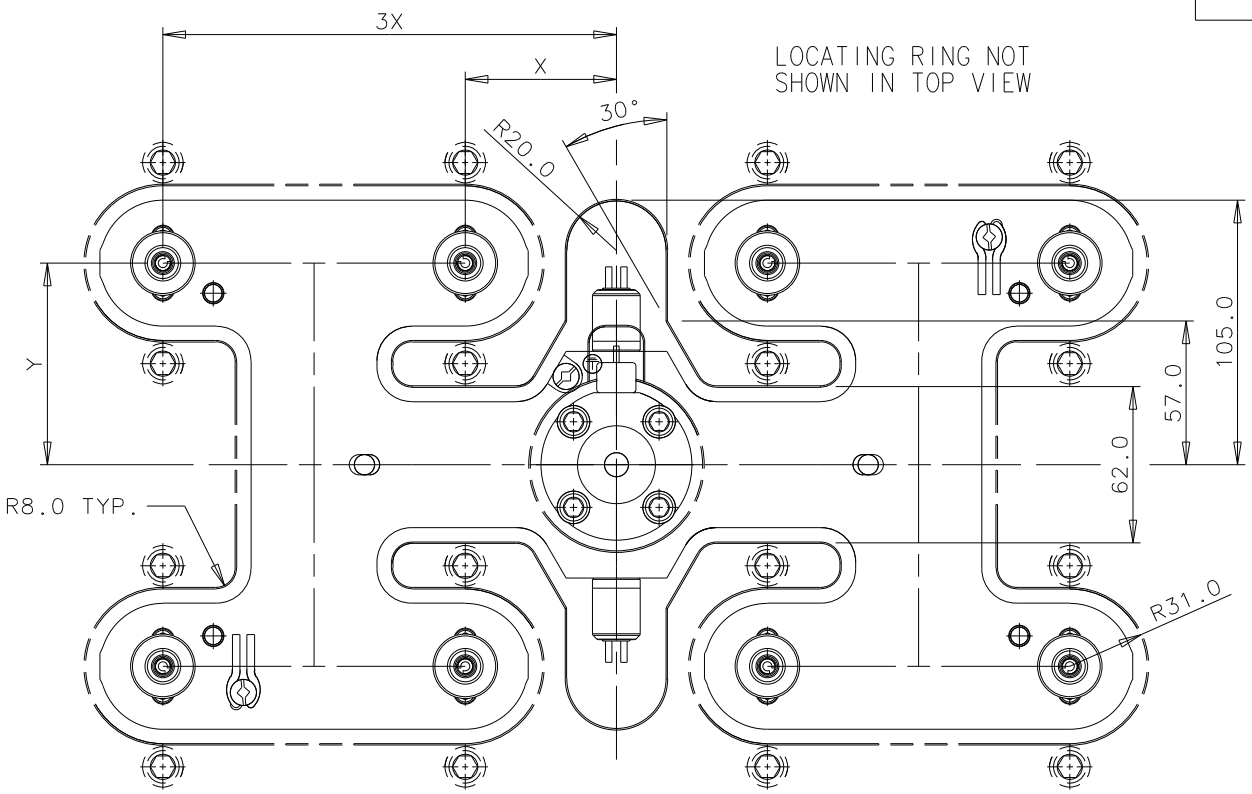
ACCESSORIES 09.01

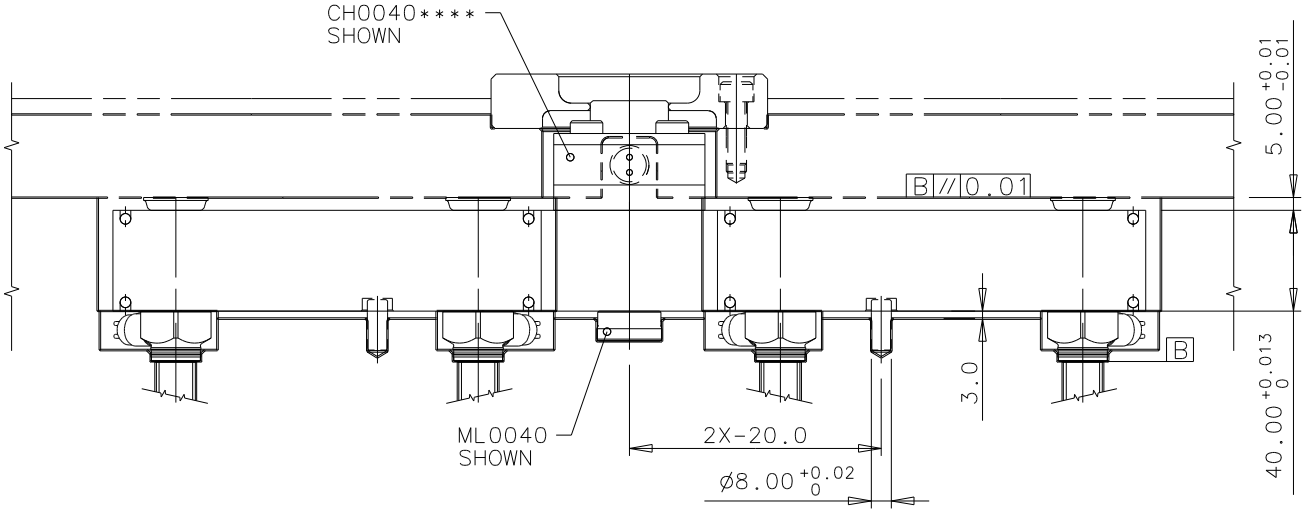
MANIFOLD RANGES 04.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 / Y = 80 SHOWN

NOZZLES
04.01

ACCESSORIES
09.01

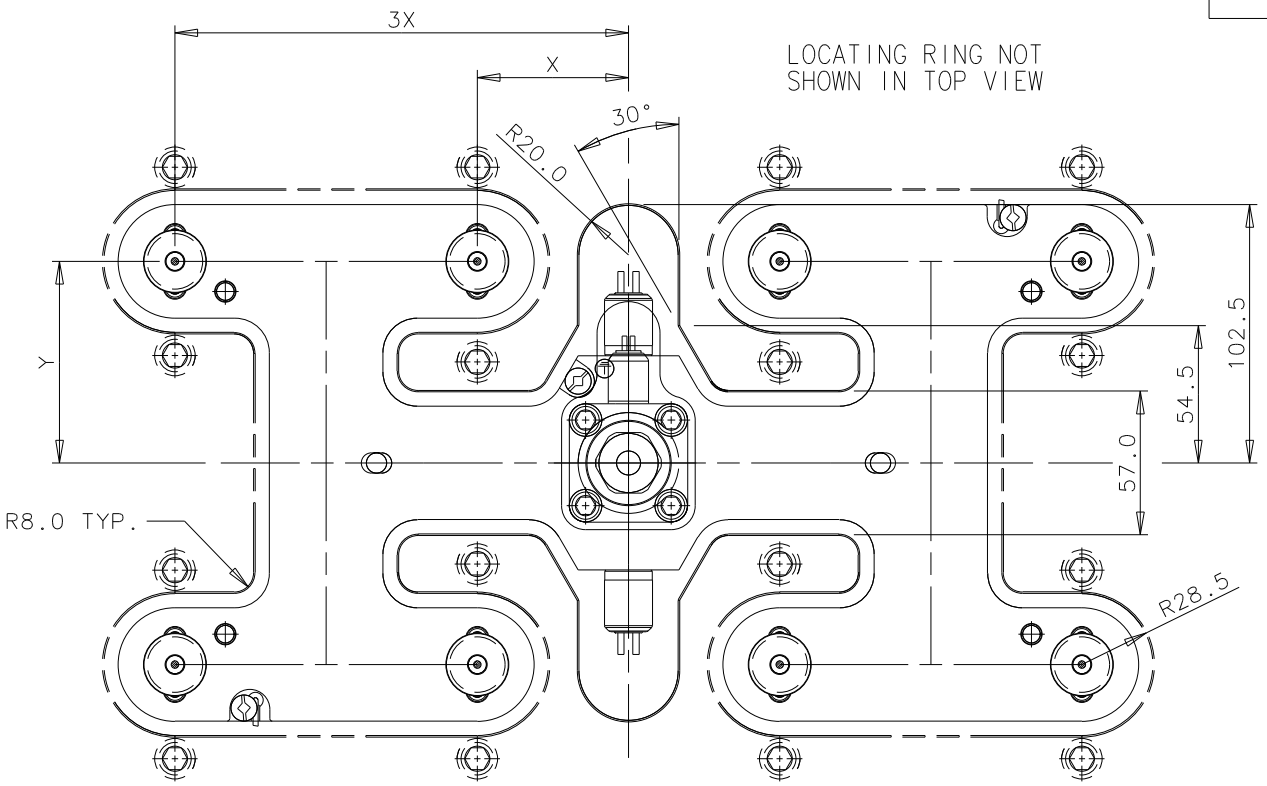
MANIFOLD
RANGES
04.02.001

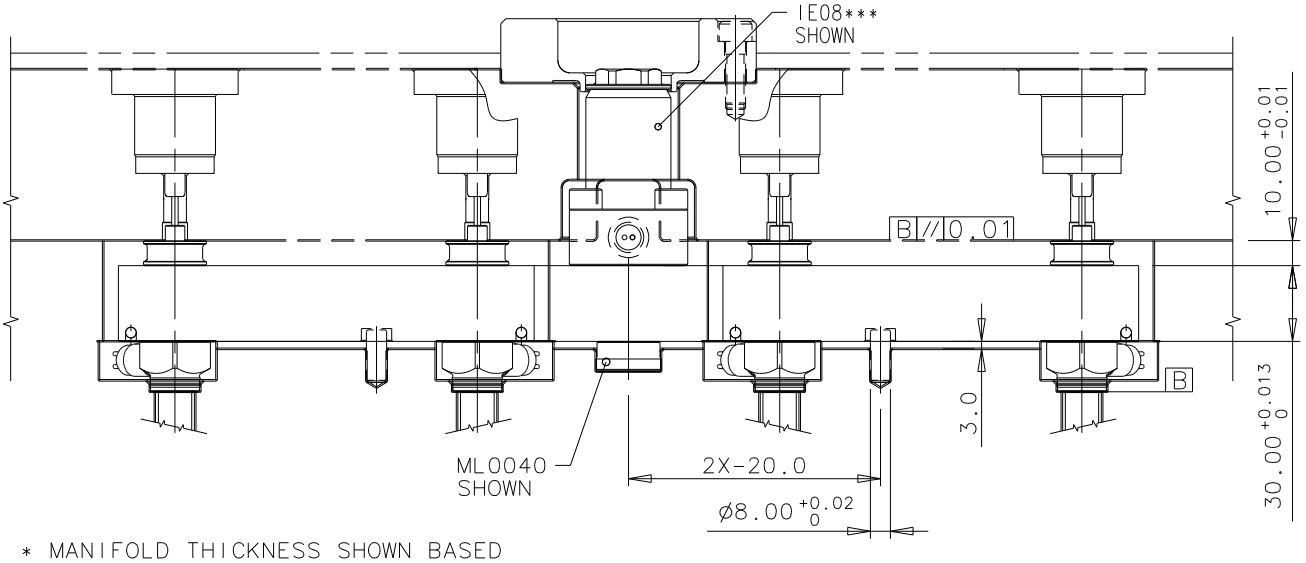
MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

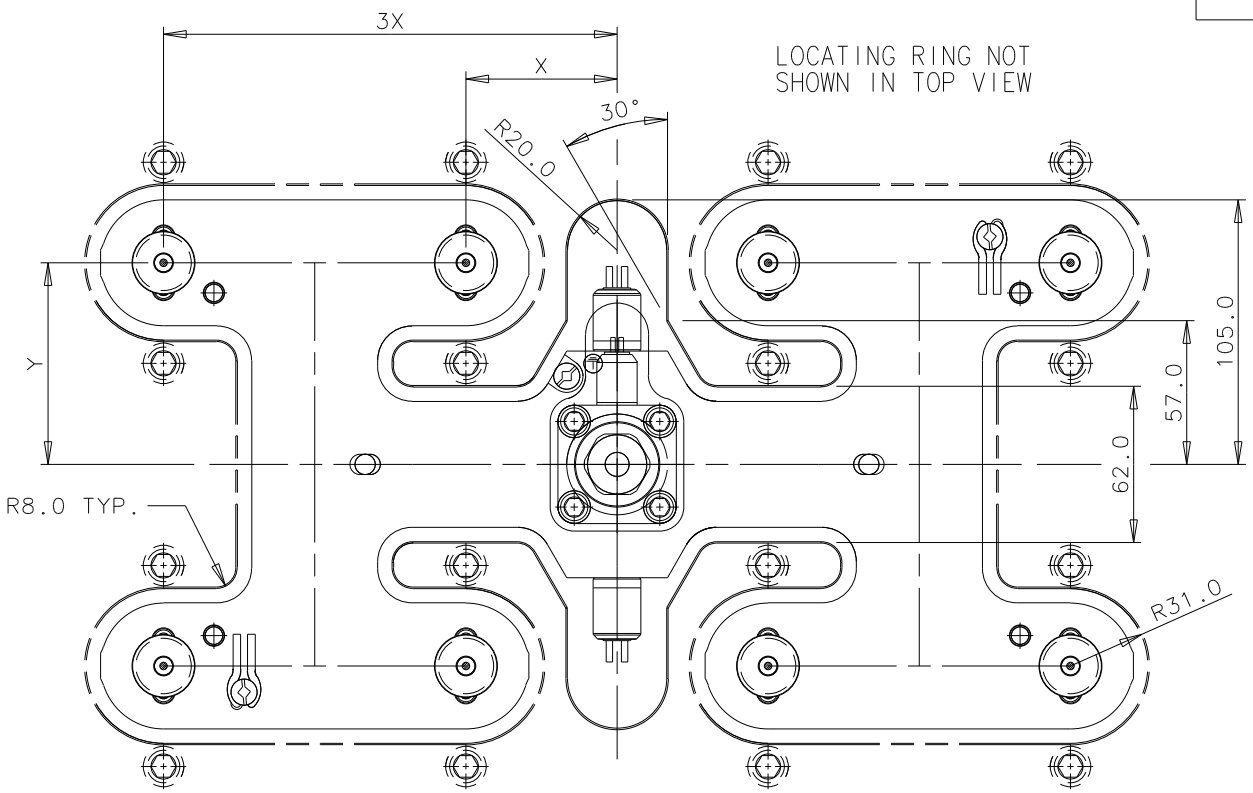
FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

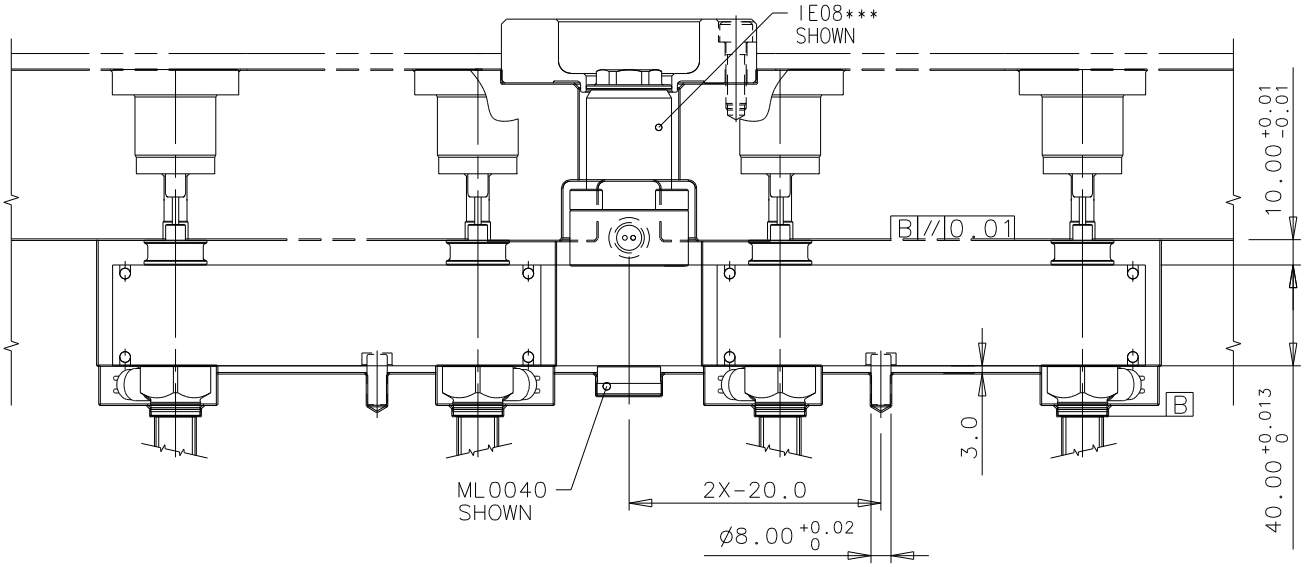
X = 60 / Y = 80 SHOWN

NOZZLES 04.01
ACCESSORIES 09.01
MANIFOLD RANGES 04.02.001
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 / Y = 80 SHOWN

NOZZLES
04.01

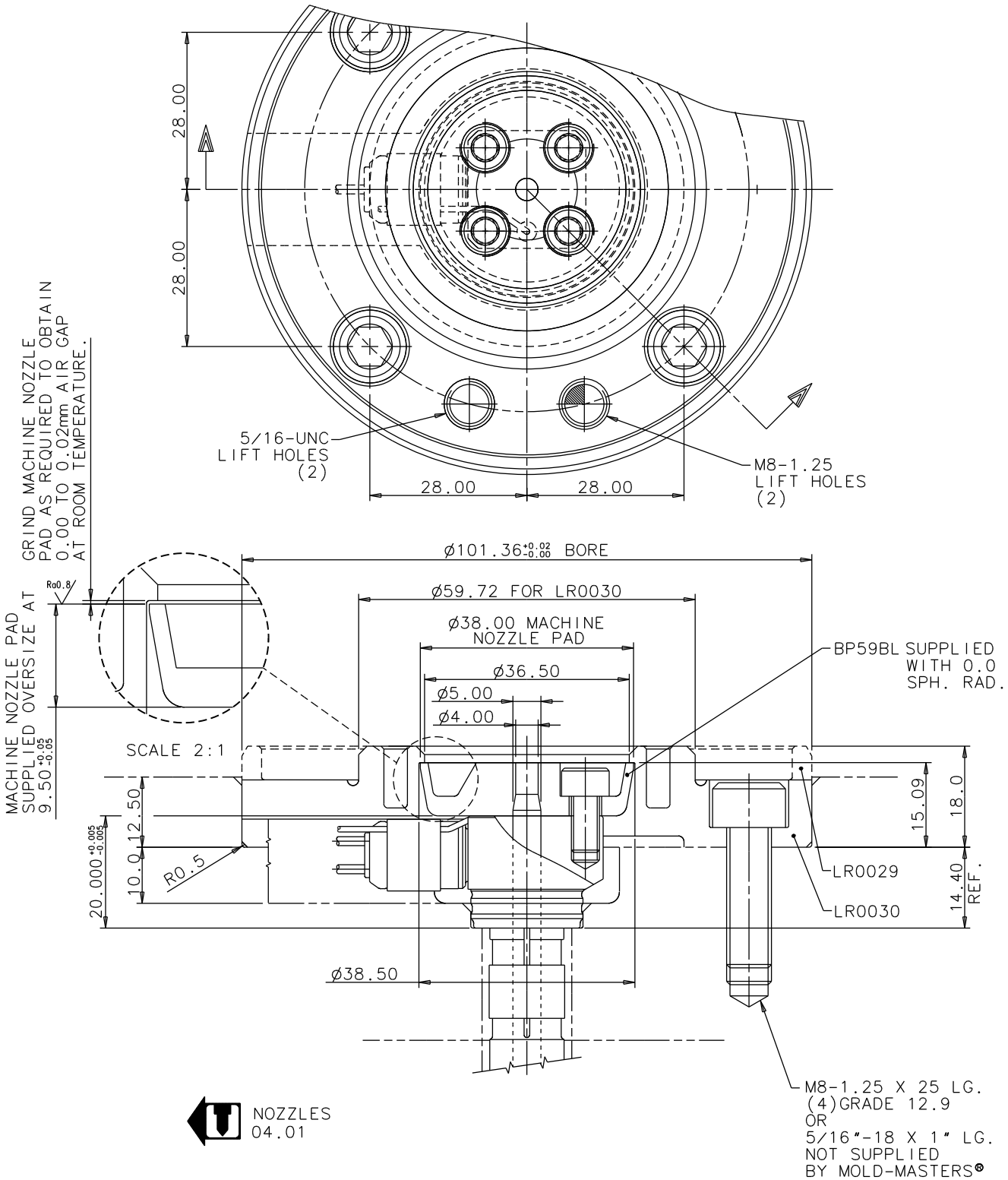
ACCESSORIES
09.01

MANIFOLD
RANGES
04.02.001

MANIFOLD
COMPONENTS
10.01

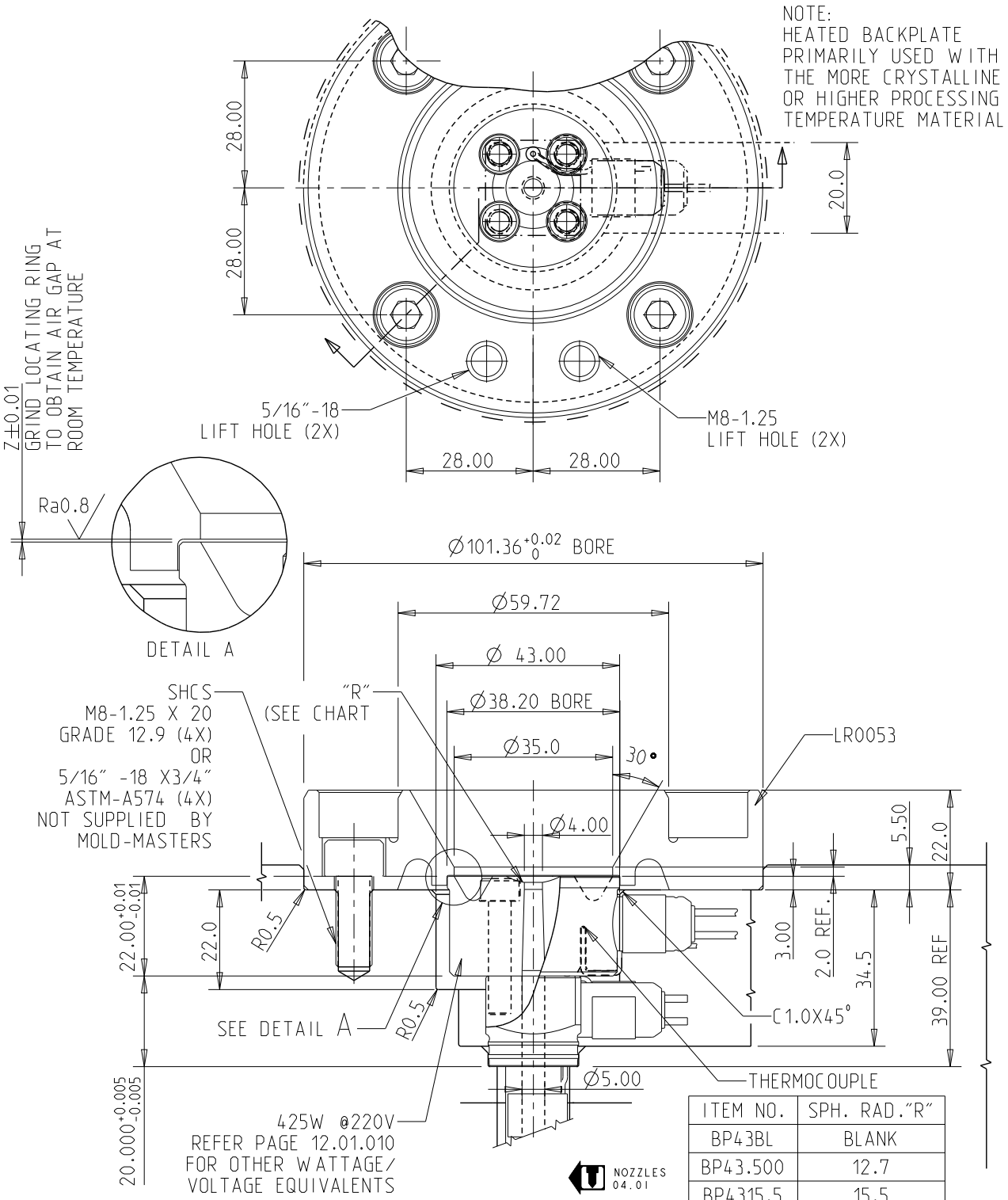
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SINGLE NOZZLE OPTIONS	
LOCATING RING #	USED WITH:
LR0029	Ø101.60 BORE IN FIXED PLATTEN
LR0030	Ø60.00 BORE IN FIXED PLATTEN

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ITEM NO.	SPH. RAD."R"
BP43BL	BLANK
BP43.500	12.7
BP4315.5	15.5
BP43.750	19.1
BP4340.0	40.0

SINGLE NOZZLE OPTIONS	
LOCATING RING#	USED WITH:
LR0053	Ø101.60 BORE IN FIXED PLATEN

	ΔT=Tp-Tm (PROCESS TEMP.-MOLD TEMP.)			
GAP AT ROOM TEMPERATURE	150°C	200°C	250°C	300°C
"Z" +/-0.01	0.02	0.05	0.07	0.09

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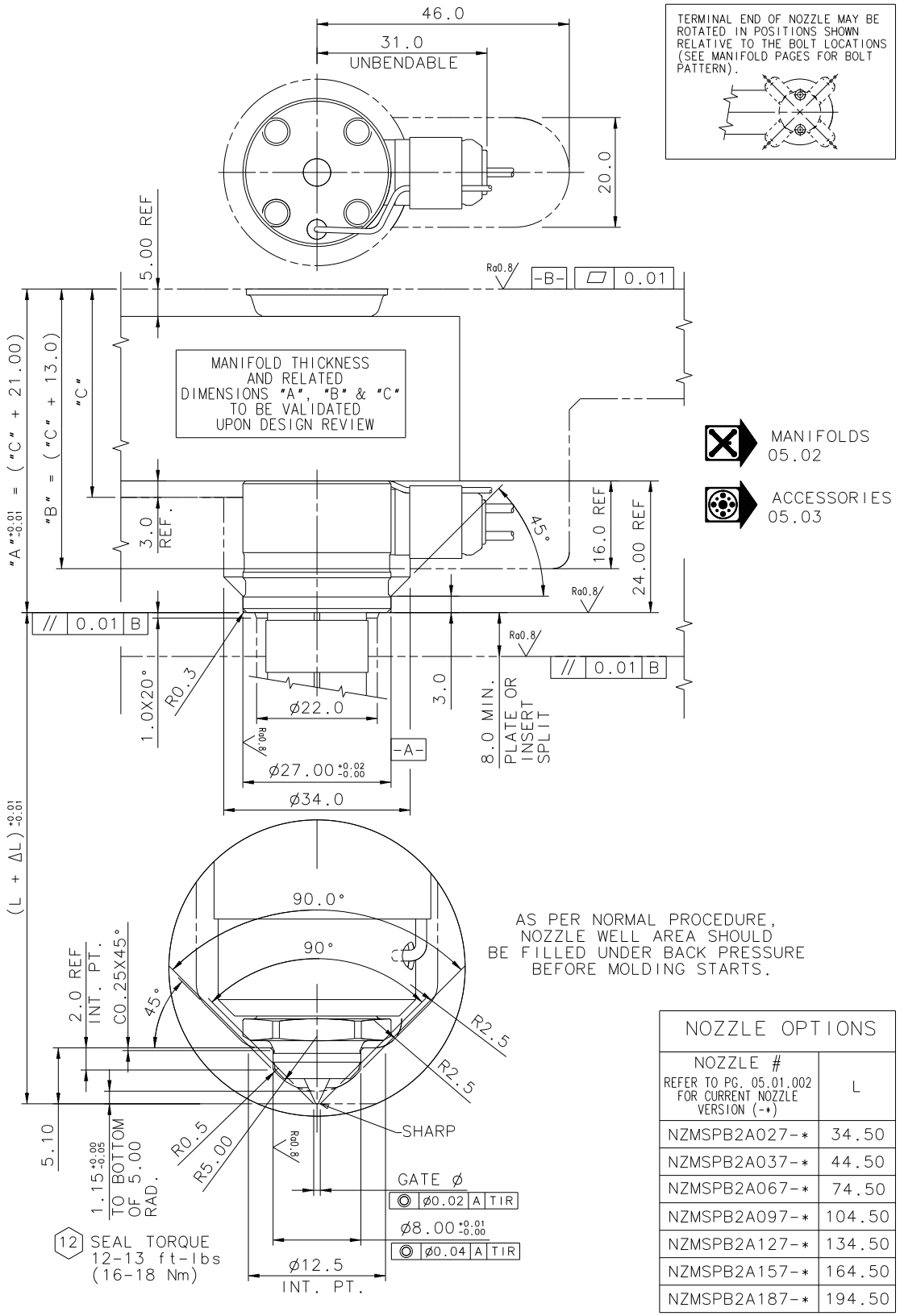
GATING STYLE	PAGE	GATE ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
E-TYPE TORPEDO (VISCO)	05.01.020	ø 0.60 - ø 1.60	TSM010-1 + TPM002-2	TSM010P6 FOR PROCESSING TEMP. <280°C
			TSM010-1 + TPM002-1	TSM010P1 FOR PROCESSING TEMP. >280°C
E-TYPE TORPEDO (NON-VISCO)	05.01.025	ø 0.60 - ø 1.60	TSM195 + TPM002-2	TSM195P2 FOR PROCESSING TEMP. <280°C
			TSM195 + TPM002-1	TSM195P FOR PROCESSING TEMP. >280°C
F-TYPE TORPEDO	05.01.030	ø 0.80	✳ TSM011 + TPM003-2	TSM011P3 FOR PROCESSING TEMP. <280°C
			TSM311 + TPM082 (WEAR RESISTANT)	TSM311P FOR PROCESSING TEMP. >280°C
		ø 1.00	✳ TSM053 + TPM003-2	TSM053P3 FOR PROCESSING TEMP. <280°C
			TSM312 + TPM082 (WEAR RESISTANT)	TSM312P FOR PROCESSING TEMP. >280°C
		ø 1.20	✳ TSM054 + TPM003-2	TSM054P3 FOR PROCESSING TEMP. <280°C
			TSM313 + TPM082 (WEAR RESISTANT)	TSM313P FOR PROCESSING TEMP. >280°C
		ø 1.40	✳ TSM055 + TPM003-2	TSM055P3 FOR PROCESSING TEMP. <280°C
			TSM314 + TPM082 (WEAR RESISTANT)	TSM314P FOR PROCESSING TEMP. >280°C
		ø 1.60	✳ TSM056 + TPM003-2	TSM056P3 FOR PROCESSING TEMP. <280°C
			TSM315 + TPM082 (WEAR RESISTANT)	TSM315P FOR PROCESSING TEMP. >280°C
BI-METALLIC C-SPRUE	05.01.040	ø 1.00	TSM012-1 + TSLM004	TSM012P12
		ø 1.50	TSM012-1 + TSLM005	TSM012P13
		ø 2.00	TSM012-1 + TSLM193	TSM012P14
HOT SPRUE	05.01.050	ø 1.00 - ø 2.50	TSM013 (ø 1.0 GATE SUPPLIED)	
EXTENDED HOT SPRUE	05.01.060	ø 1.00 - ø 2.50	TSM042 (ø 1.0 GATE SUPPLIED)	
SPIRAL HOT TIP	05.01.070	ø 0.60 - ø 1.60	TSM046	
			TSM180	
BI-METALLIC C-VALVE	05.01.080	ø 1.50 - ø 2.00	TSM014-1 + TSLM006	TSM014P1
HOT VALVE	05.01.100	ø 1.50	TSM015 (WITH 0.25MM EXTRA LENGTH)	
			TSM015F (LENGTH FINISHED)	
		ø 2.00	TSM016 (WITH 0.25MM EXTRA LENGTH)	
			TSM016F (LENGTH FINISHED)	
ACCU-VALVE CX	05.01.105	ø 1.80 (MAX.)	TSM106-1A	
ACCU-VALVE MX	05.01.108	ø 2.20 (MAX.)	TSM246A1	
CYLINDRICAL HOT VALVE (ACCU-VALVE LX)	05.01.110	ø 1.50	TSM298 (SUPPLIED WITH "H"=1.00)	
			TSM351 (SUPPLIED WITH "H"=2.75)	
		ø 2.00	TSM299 (SUPPLIED WITH "H"=1.00)	
			TSM352 (SUPPLIED WITH "H"=2.75)	
CYLINDRICAL HOT VALVE - CP	05.01.115	ø 1.00	TSM394 (WITH 0.25MM EXTRA LENGTH)	
			TSM394F (LENGTH FINISHED)	
ACCU-VALVE GX	05.01.120	ø 1.00	TSM399A (WITH 0.25MM EXTRA LENGTH)	
			TSM399AF (LENGTH FINISHED)	
TIT-EDGE	05.01.130	ø 1.00 & ø 1.50	TS0504 - TS0507	
	05.01.140	CONFIGURATIONS		

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NOZZLE #	**POWER @ 220V
NZMSPB*A027-E	300W
NZMSPB*A037-E	300W
NZMSPB*A067-E	300W
NZMSPB*A097-E	300W
NZMSPB*A127-E	350W
NZMSPB*A157-E	350W
NZMSPB*A187-E	400W
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	

APPLICABLE GATING METHODS	NOZZLE #	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
E-TYPE TORPEDO	NZMSPB2A027-E	0.067	0.105	0.142	0.189
	NZMSPB2A037-E	0.100	0.144	0.189	0.239
	NZMSPB2A067-E	0.188	0.252	0.317	0.384
	NZMSPB2A097-E	0.257	0.340	0.423	0.505
	NZMSPB2A127-E	0.307	0.405	0.506	0.605
	NZMSPB2A157-E	0.336	0.450	0.568	0.684
	NZMSPB2A187-E	0.347	0.475	0.607	0.739
SPIRAL HOT TIP	NZMSPB2A027-E	0.131	0.170	0.219	0.262
	NZMSPB2A037-E	0.153	0.202	0.259	0.311
	NZMSPB2A067-E	0.217	0.296	0.375	0.456
	NZMSPB2A097-E	0.281	0.386	0.488	0.595
	NZMSPB2A127-E	0.344	0.472	0.596	0.726
	NZMSPB2A157-E	0.407	0.555	0.701	0.852
	NZMSPB2A187-E	0.468	0.632	0.801	0.970
F-TYPE TORPEDO BI-METALLIC C-SPRUE HOT SPRUE EXTENDED HOT SPRUE BI-METALLIC C-VALVE HOT VALVE CYL. HOT VALVE ACCU-VALVE CX ACCU-VALVE MX CYL. HOT VALVE - CP ACCU-VALVE GX	NZMSPB*A027-E	0.093	0.137	0.180	0.232
	NZMSPB*A037-E	0.123	0.172	0.222	0.278
	NZMSPB*A067-E	0.200	0.265	0.335	0.407
	NZMSPB*A097-E	0.262	0.345	0.435	0.522
	NZMSPB*A127-E	0.310	0.412	0.518	0.622
	NZMSPB*A157-E	0.345	0.465	0.587	0.709
	NZMSPB*A187-E	0.365	0.504	0.641	0.777

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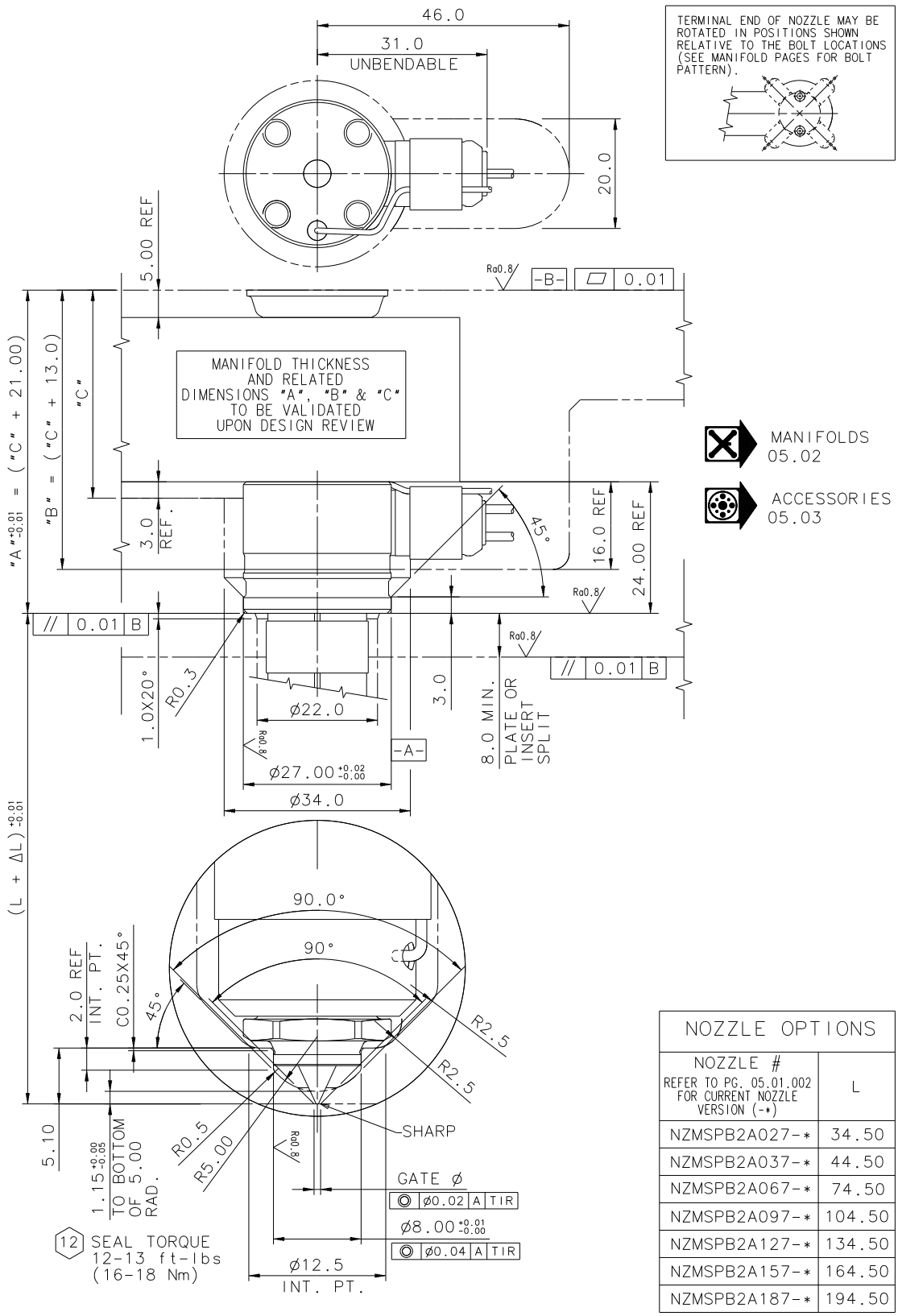


AS PER NORMAL PROCEDURE, NOZZLE WELL AREA SHOULD BE FILLED UNDER BACK PRESSURE BEFORE MOLDING STARTS.

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB2A027-*	34.50
NZMSPB2A037-*	44.50
NZMSPB2A067-*	74.50
NZMSPB2A097-*	104.50
NZMSPB2A127-*	134.50
NZMSPB2A157-*	164.50
NZMSPB2A187-*	194.50

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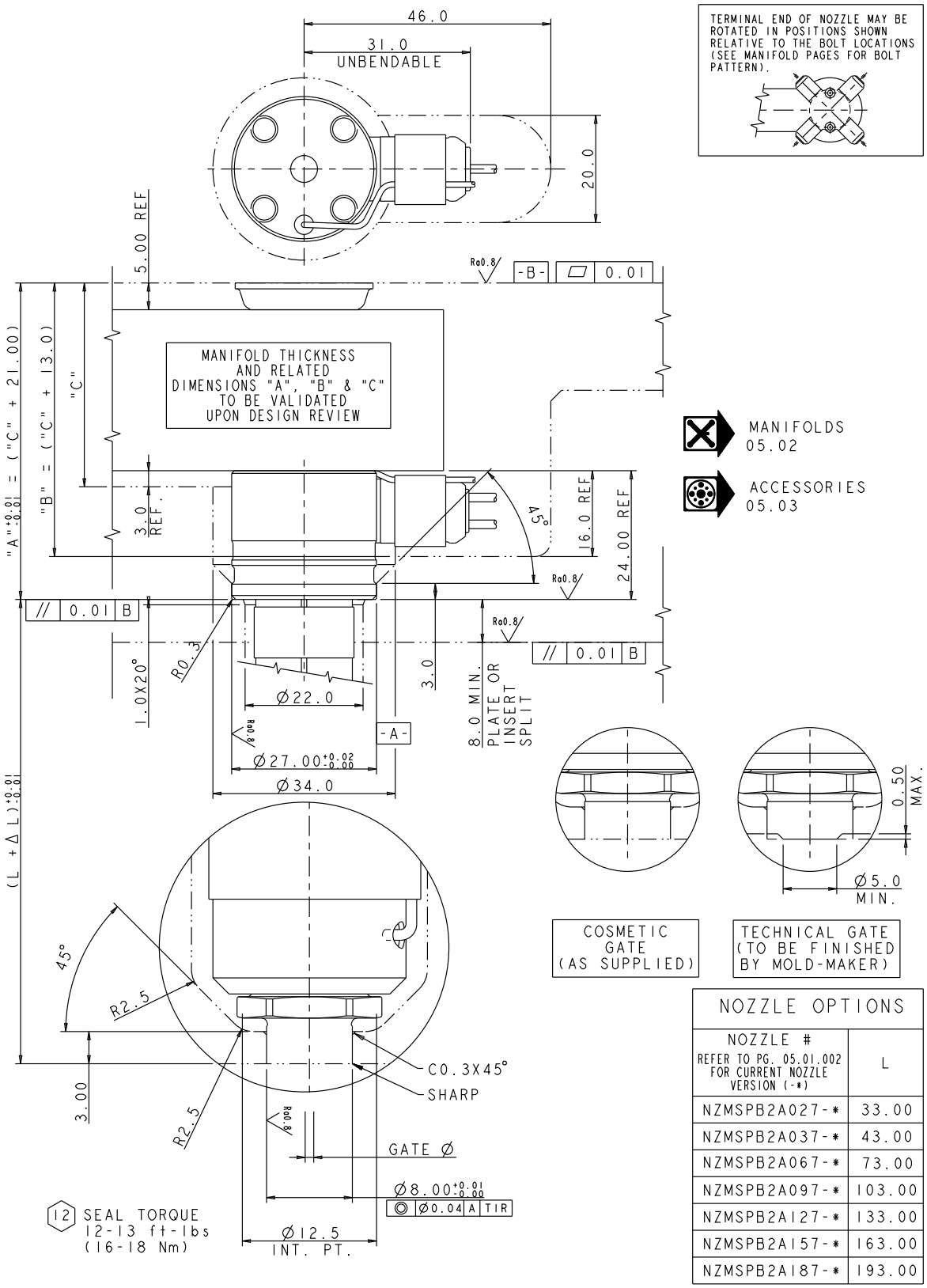


MANIFOLDS 05.02

ACCESSORIES 05.03

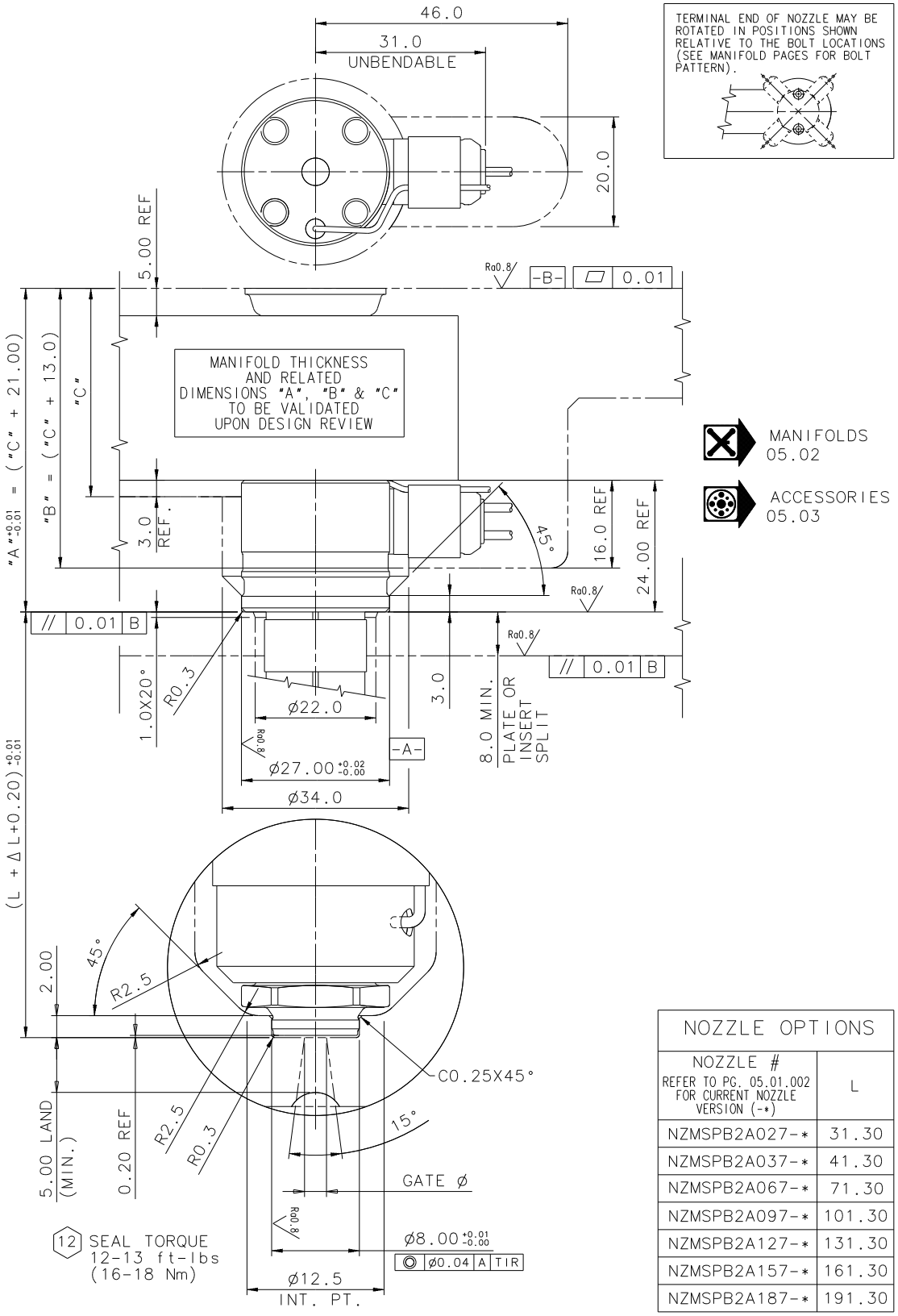
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB2A027-*	34.50
NZMSPB2A037-*	44.50
NZMSPB2A067-*	74.50
NZMSPB2A097-*	104.50
NZMSPB2A127-*	134.50
NZMSPB2A157-*	164.50
NZMSPB2A187-*	194.50

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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB2A027-*	33.00
NZMSPB2A037-*	43.00
NZMSPB2A067-*	73.00
NZMSPB2A097-*	103.00
NZMSPB2A127-*	133.00
NZMSPB2A157-*	163.00
NZMSPB2A187-*	193.00

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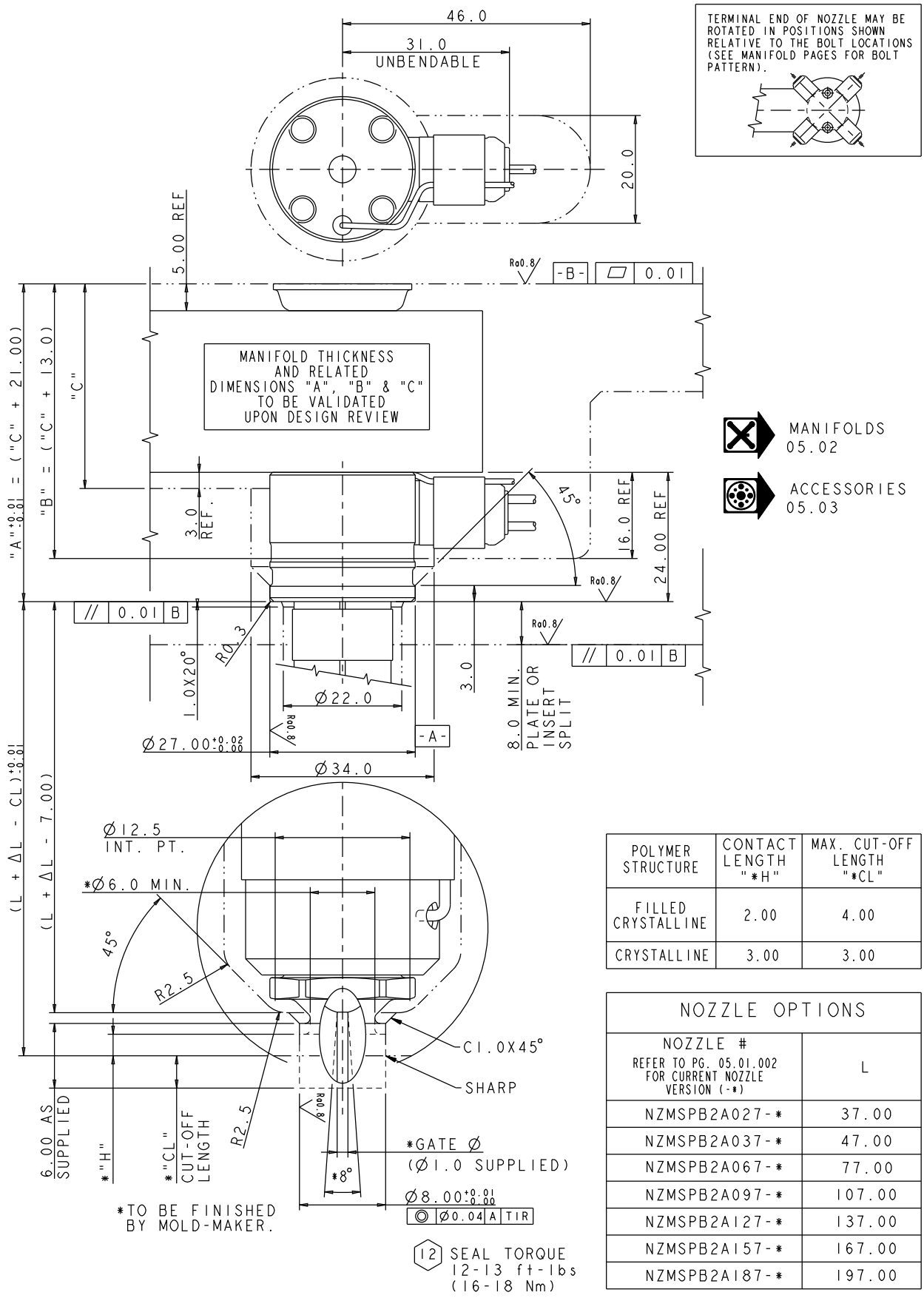


MANIFOLDS 05.02

ACCESSORIES 05.03

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB2A027-*	31.30
NZMSPB2A037-*	41.30
NZMSPB2A067-*	71.30
NZMSPB2A097-*	101.30
NZMSPB2A127-*	131.30
NZMSPB2A157-*	161.30
NZMSPB2A187-*	191.30

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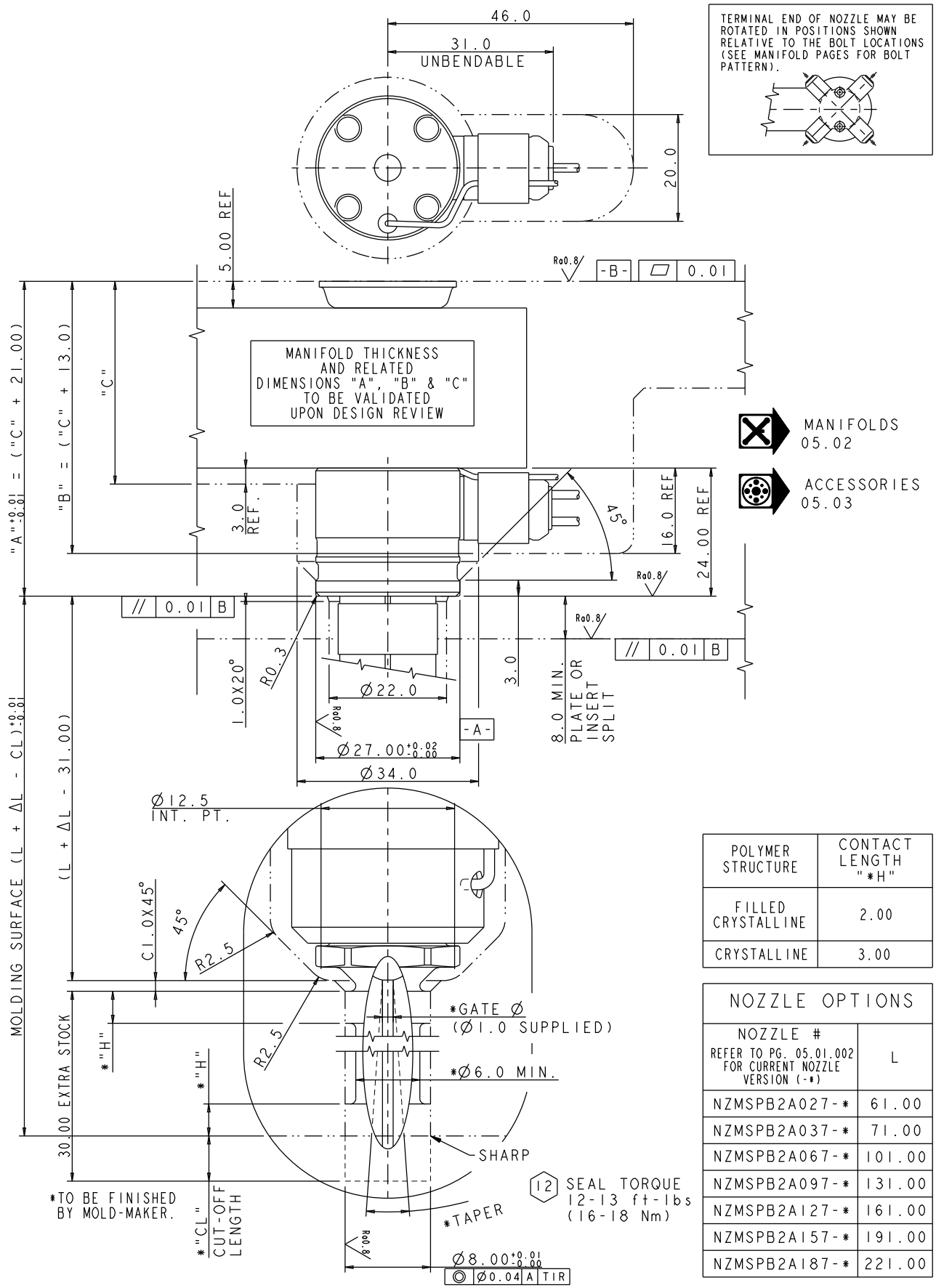


POLYMER STRUCTURE	CONTACT LENGTH "*H"	MAX. CUT-OFF LENGTH "*CL"
FILLED CRYSTALLINE	2.00	4.00
CRYSTALLINE	3.00	3.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB2A027-*	37.00
NZMSPB2A037-*	47.00
NZMSPB2A067-*	77.00
NZMSPB2A097-*	107.00
NZMSPB2A127-*	137.00
NZMSPB2A157-*	167.00
NZMSPB2A187-*	197.00

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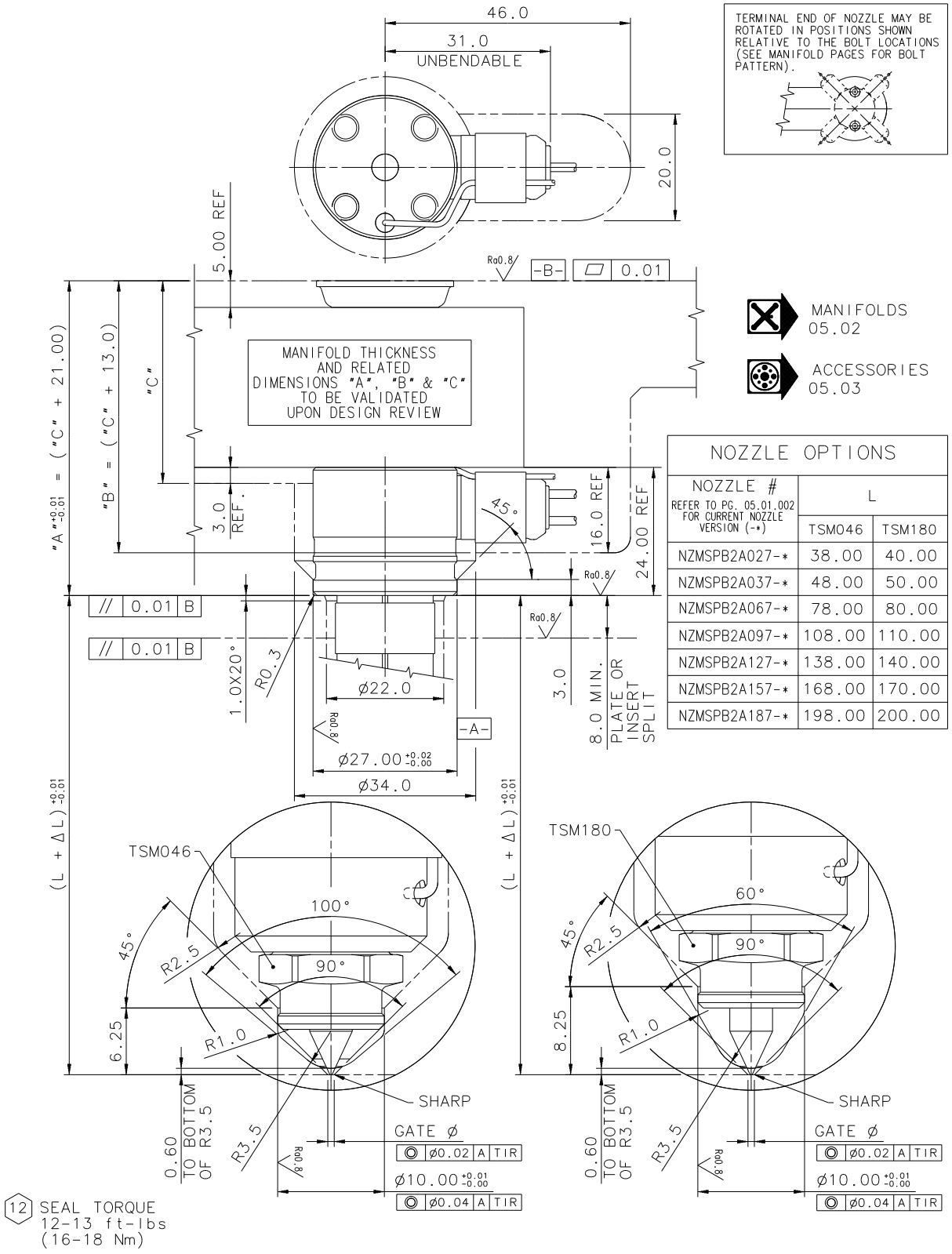
Mold Masters



POLYMER STRUCTURE	CONTACT LENGTH "*H"
FILLED CRYSTALLINE	2.00
CRYSTALLINE	3.00

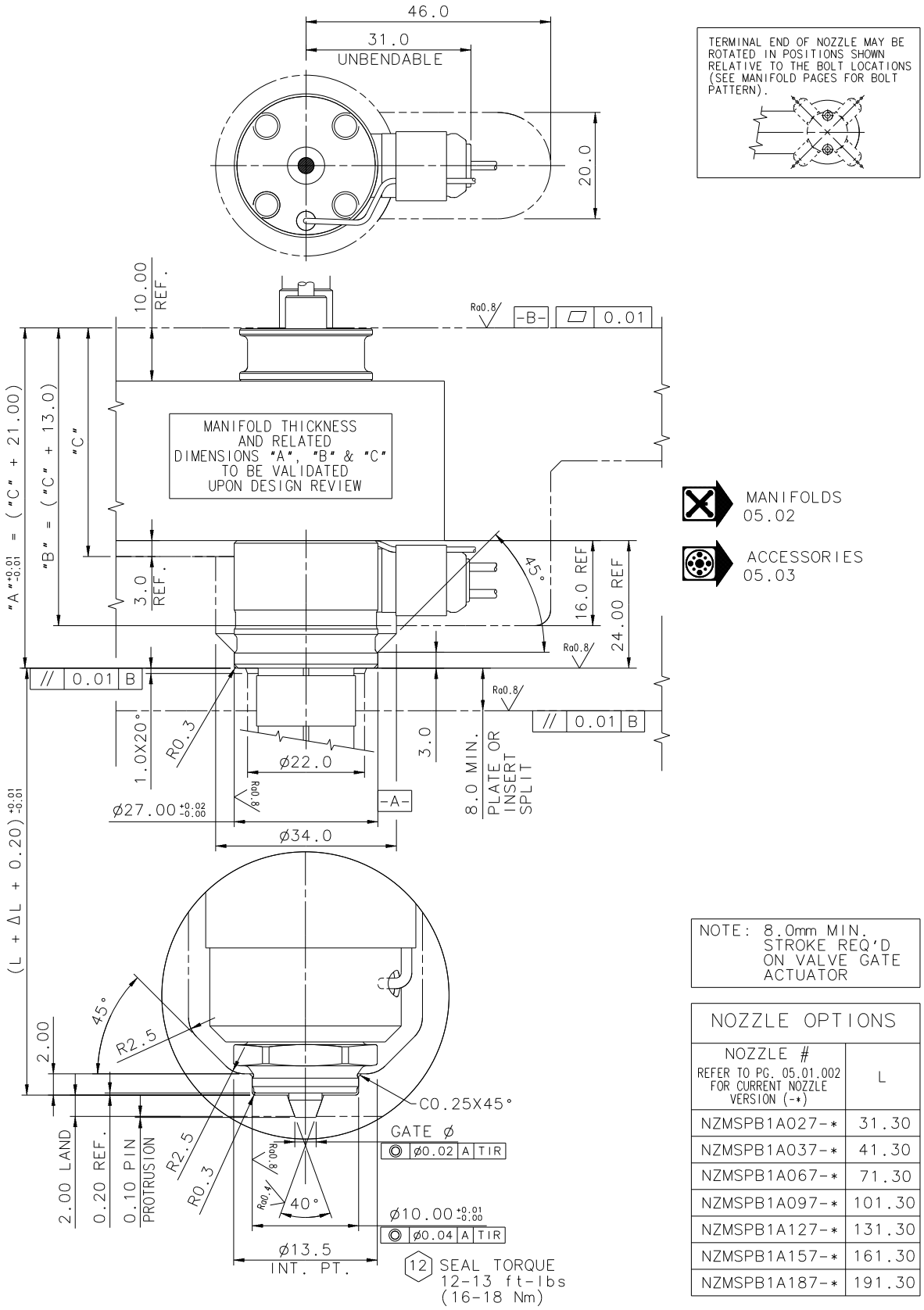
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB2A027-*	61.00
NZMSPB2A037-*	71.00
NZMSPB2A067-*	101.00
NZMSPB2A097-*	131.00
NZMSPB2A127-*	161.00
NZMSPB2A157-*	191.00
NZMSPB2A187-*	221.00

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NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	
	TSM046	TSM180
NZMSPB2A027-*	38.00	40.00
NZMSPB2A037-*	48.00	50.00
NZMSPB2A067-*	78.00	80.00
NZMSPB2A097-*	108.00	110.00
NZMSPB2A127-*	138.00	140.00
NZMSPB2A157-*	168.00	170.00
NZMSPB2A187-*	198.00	200.00

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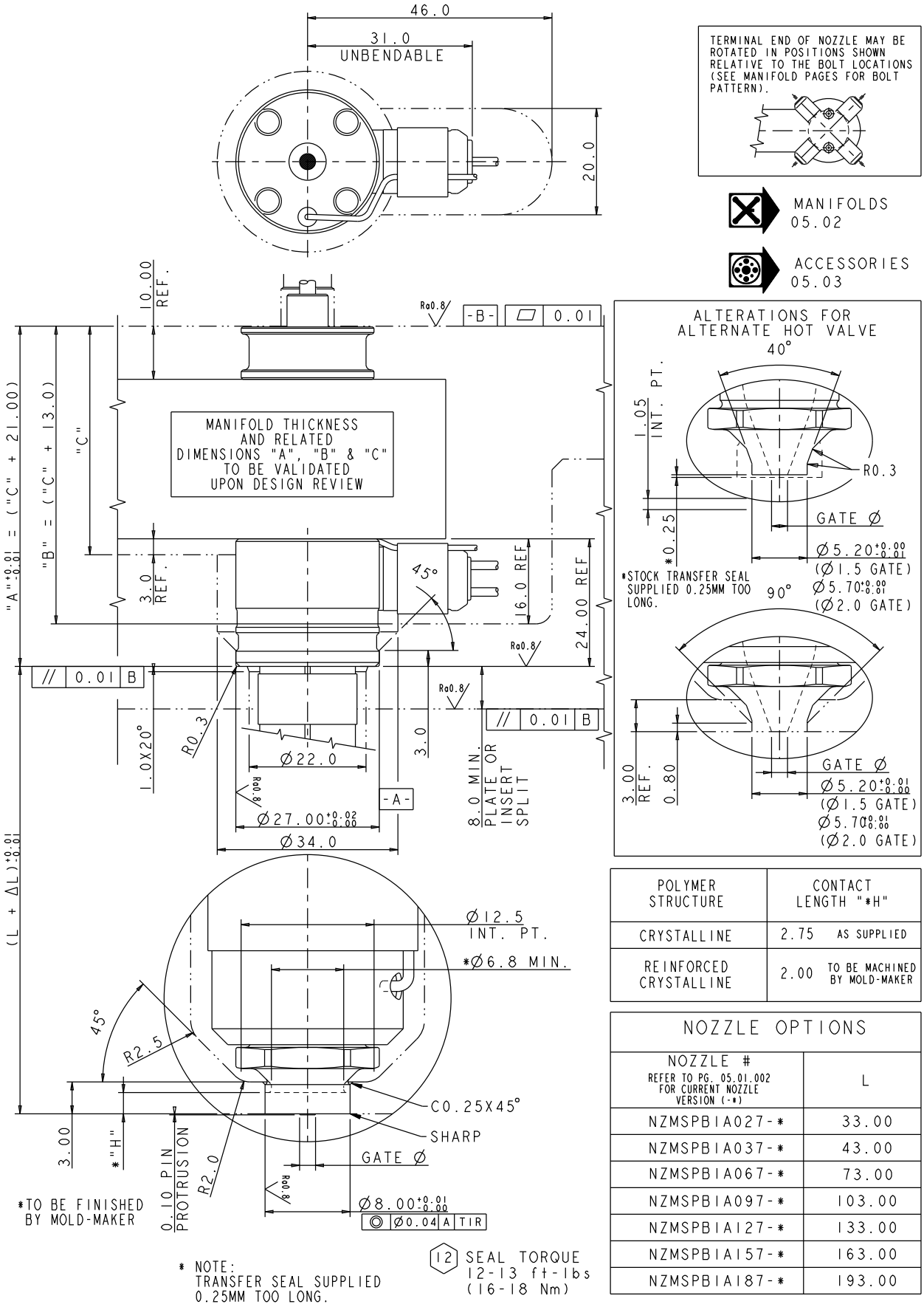
MANIFOLDS
05.02

ACCESSORIES
05.03

NOTE: 8.0mm MIN. STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB1A027-*	31.30
NZMSPB1A037-*	41.30
NZMSPB1A067-*	71.30
NZMSPB1A097-*	101.30
NZMSPB1A127-*	131.30
NZMSPB1A157-*	161.30
NZMSPB1A187-*	191.30

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TERMINAL END OF NOZZLE MAY BE ROTATED IN POSITIONS SHOWN RELATIVE TO THE BOLT LOCATIONS (SEE MANIFOLD PAGES FOR BOLT PATTERN).

MANIFOLDS
05.02

ACCESSORIES
05.03

ALTERATIONS FOR ALTERNATE HOT VALVE

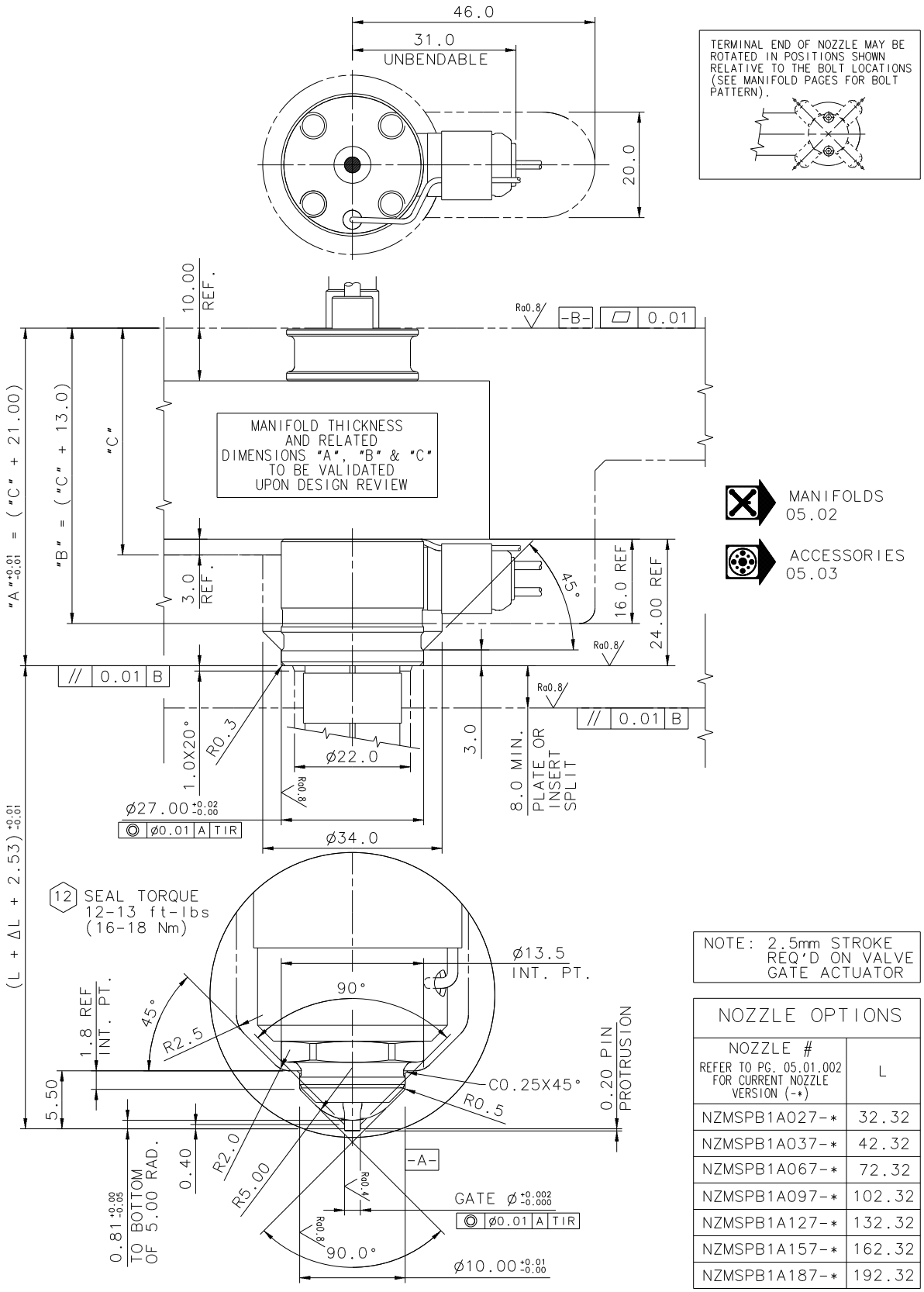
POLYMER STRUCTURE	CONTACT LENGTH "*H"
CRYSTALLINE	2.75 AS SUPPLIED
REINFORCED CRYSTALLINE	2.00 TO BE MACHINED BY MOLD-MAKER

NOZZLE OPTIONS

NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPBIA027-*	33.00
NZMSPBIA037-*	43.00
NZMSPBIA067-*	73.00
NZMSPBIA097-*	103.00
NZMSPBIAI27-*	133.00
NZMSPBIAI57-*	163.00
NZMSPBIAI87-*	193.00

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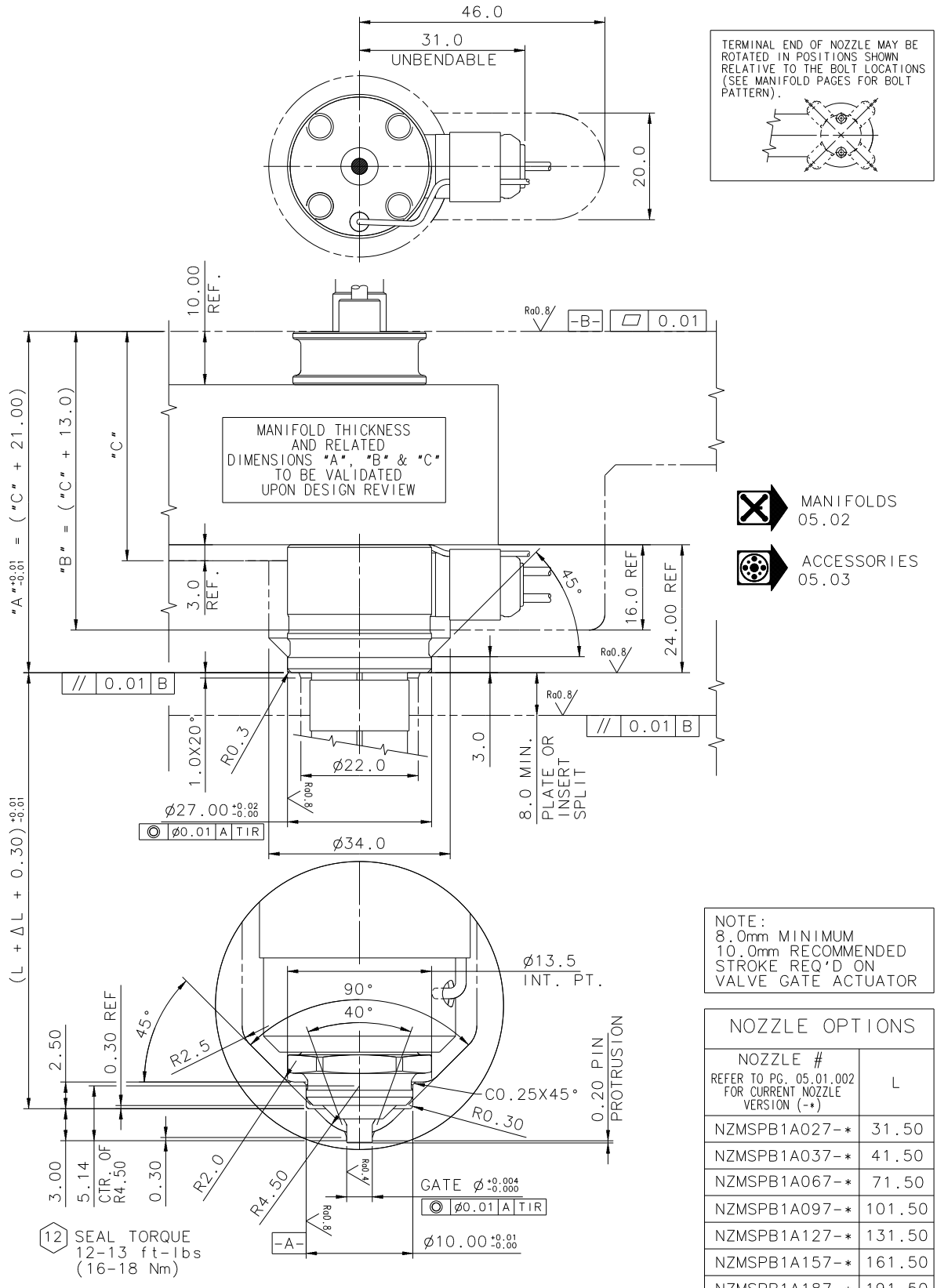
MANIFOLDS 05.02

ACCESSORIES 05.03

NOTE: 2.5mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB1A027-*	32.32
NZMSPB1A037-*	42.32
NZMSPB1A067-*	72.32
NZMSPB1A097-*	102.32
NZMSPB1A127-*	132.32
NZMSPB1A157-*	162.32
NZMSPB1A187-*	192.32

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MANIFOLDS 05.02

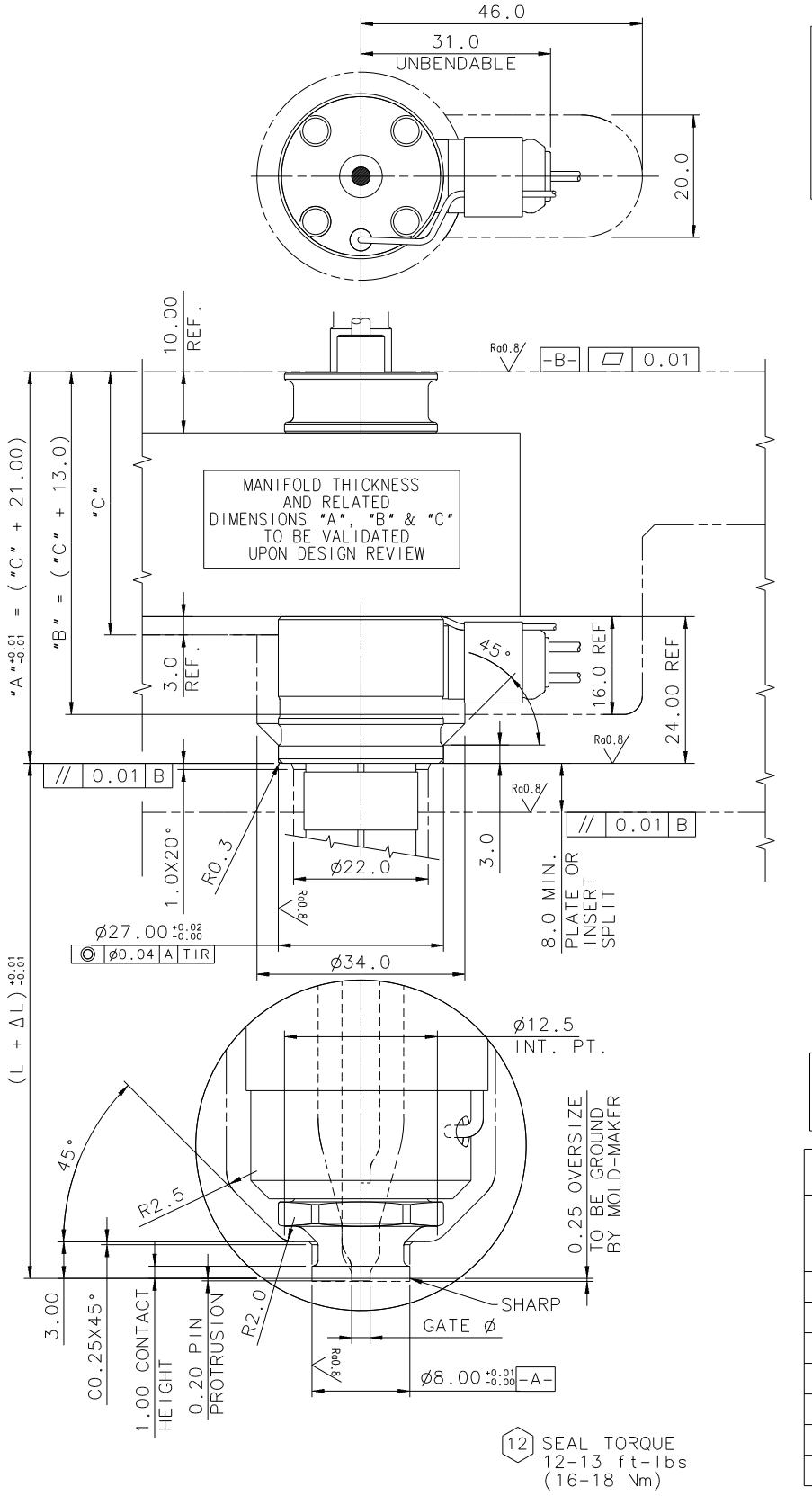
ACCESSORIES 05.03

NOTE:
8.0mm MINIMUM
10.0mm RECOMMENDED
STROKE REQ'D ON
VALVE GATE ACTUATOR

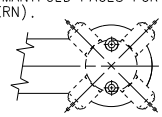
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB1A027-*	31.50
NZMSPB1A037-*	41.50
NZMSPB1A067-*	71.50
NZMSPB1A097-*	101.50
NZMSPB1A127-*	131.50
NZMSPB1A157-*	161.50
NZMSPB1A187-*	191.50

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TERMINAL END OF NOZZLE MAY BE ROTATED IN POSITIONS SHOWN RELATIVE TO THE BOLT LOCATIONS (SEE MANIFOLD PAGES FOR BOLT PATTERN).



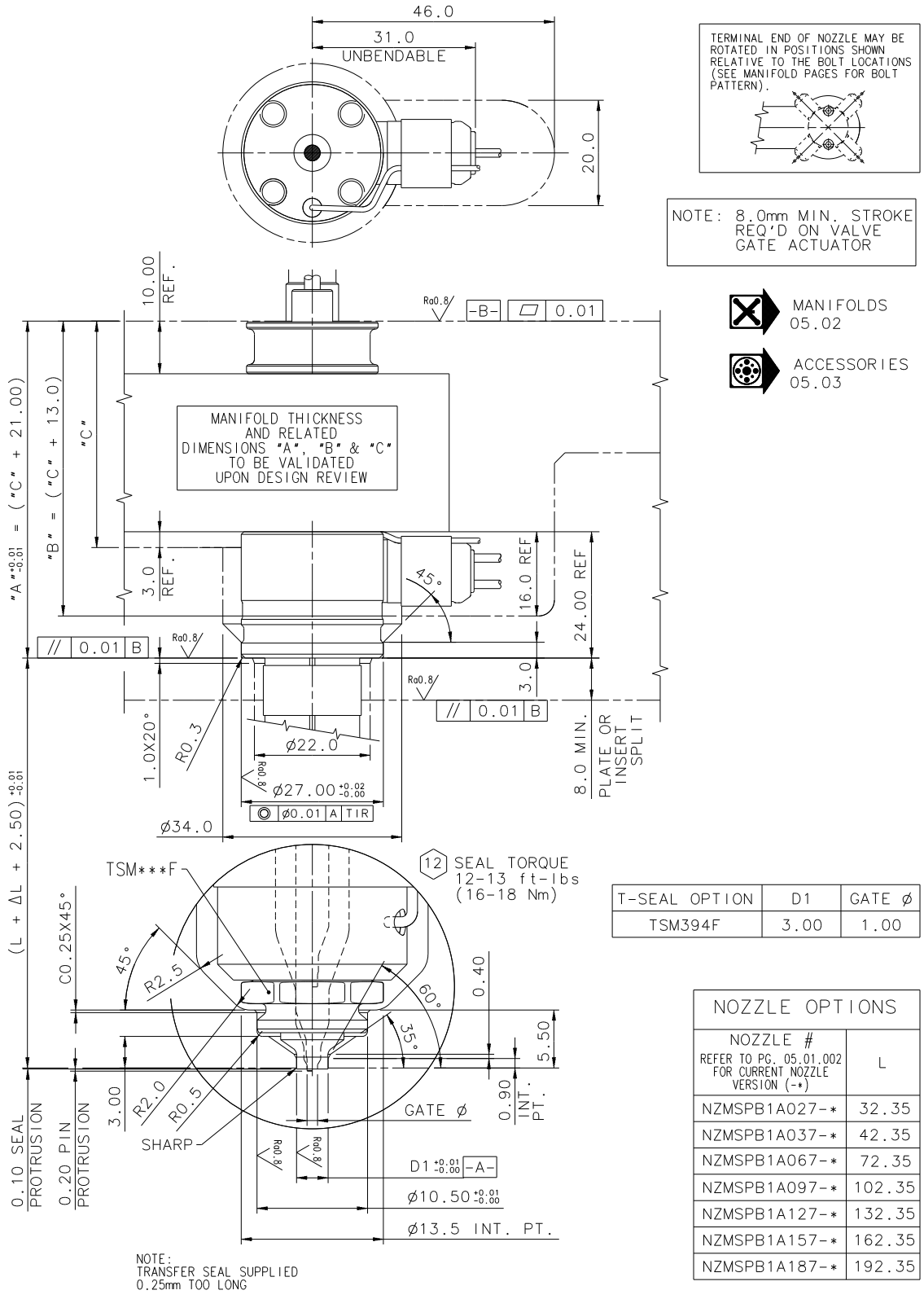
MANIFOLDS 05.02

ACCESSORIES 05.03

NOTE: 8.0mm MIN. STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB1A027-*	33.00
NZMSPB1A037-*	43.00
NZMSPB1A067-*	73.00
NZMSPB1A097-*	103.00
NZMSPB1A127-*	133.00
NZMSPB1A157-*	163.00
NZMSPB1A187-*	193.00

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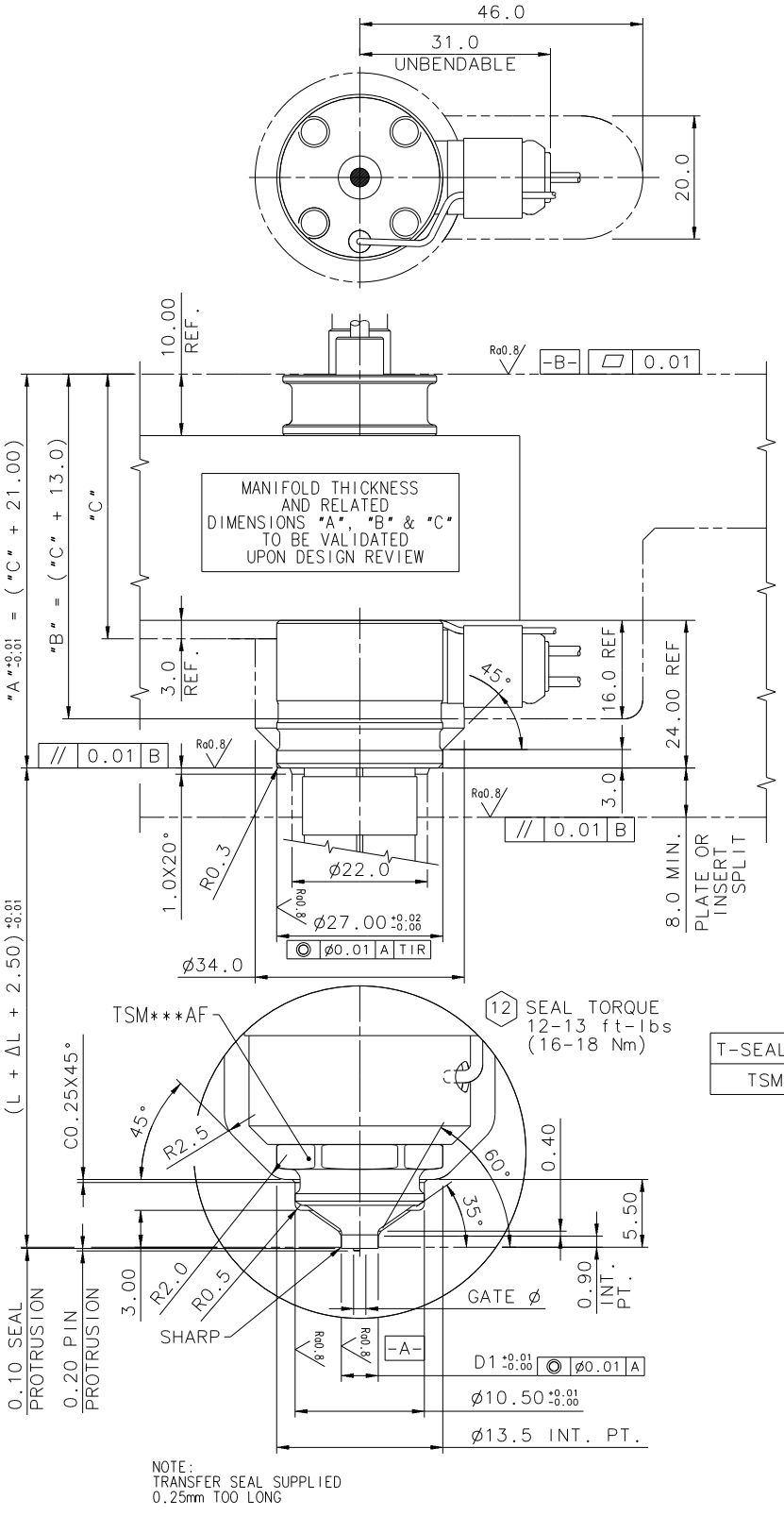


T-SEAL OPTION	D1	GATE Ø
TSM394F	3.00	1.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB1A027-*	32.35
NZMSPB1A037-*	42.35
NZMSPB1A067-*	72.35
NZMSPB1A097-*	102.35
NZMSPB1A127-*	132.35
NZMSPB1A157-*	162.35
NZMSPB1A187-*	192.35

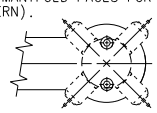
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NOTE:
TRANSFER SEAL SUPPLIED
0.25mm TOO LONG

TERMINAL END OF NOZZLE MAY BE ROTATED IN POSITIONS SHOWN RELATIVE TO THE BOLT LOCATIONS (SEE MANIFOLD PAGES FOR BOLT PATTERN).



NOTE: 3.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

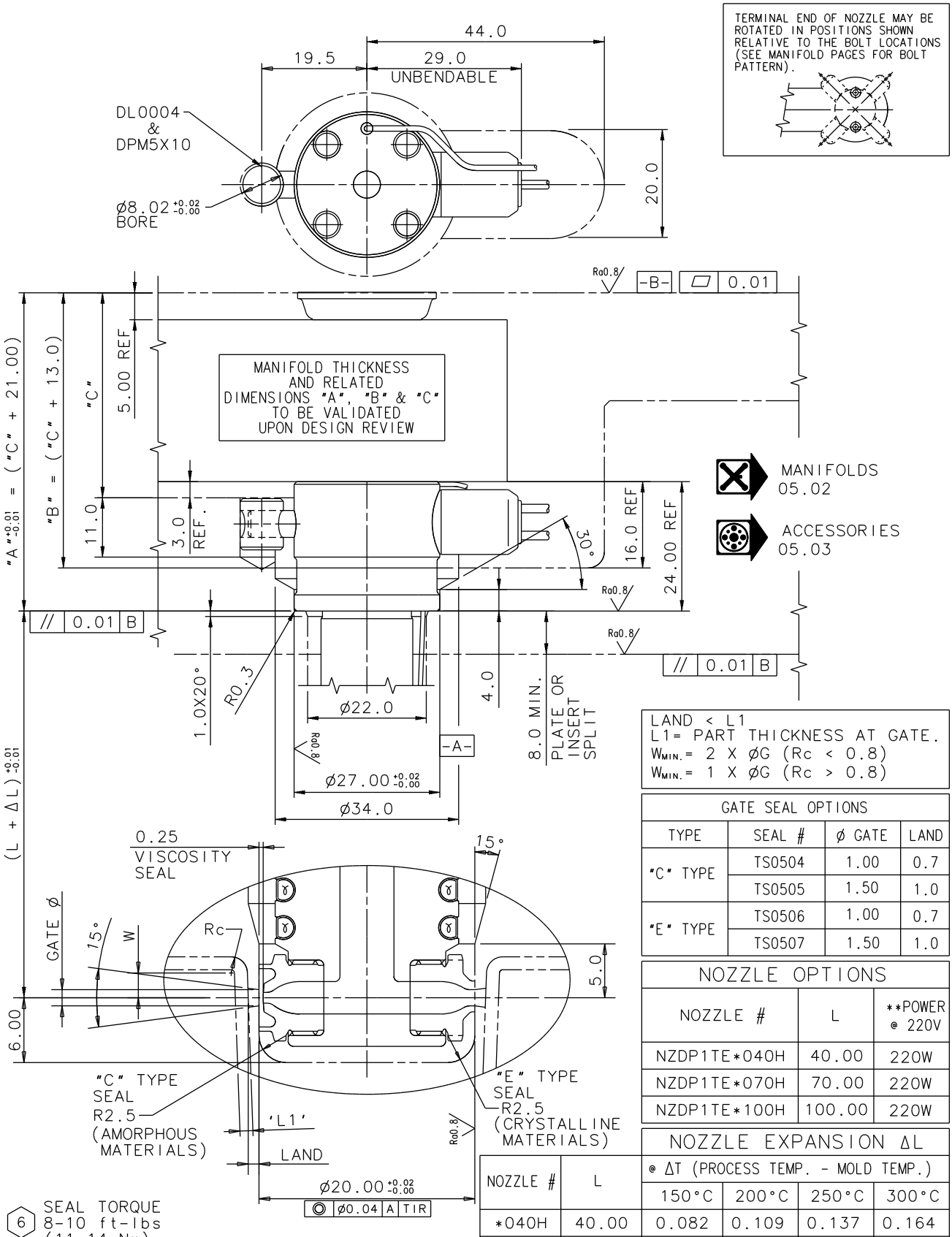
MANIFOLDS 05.02

ACCESSORIES 05.03

T-SEAL OPTION	D1	GATE ø
TSM399AF	3.00	1.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 05.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSPB1A027-*	32.35
NZMSPB1A037-*	42.35
NZMSPB1A067-*	72.35
NZMSPB1A097-*	102.35
NZMSPB1A127-*	132.35
NZMSPB1A157-*	162.35
NZMSPB1A187-*	192.35

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LAND < L1
L1= PART THICKNESS AT GATE.
$W_{MIN.}$ = 2 X ØG (Rc < 0.8)
$W_{MIN.}$ = 1 X ØG (Rc > 0.8)

GATE SEAL OPTIONS			
TYPE	SEAL #	ø GATE	LAND
"C" TYPE	TS0504	1.00	0.7
	TS0505	1.50	1.0
"E" TYPE	TS0506	1.00	0.7
	TS0507	1.50	1.0

NOZZLE OPTIONS		
NOZZLE #	L	**POWER @ 220V
NZDP1TE*040H	40.00	220W
NZDP1TE*070H	70.00	220W
NZDP1TE*100H	100.00	220W

NOZZLE #	L	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
*040H	40.00	0.082	0.109	0.137	0.164
*070H	70.00	0.139	0.185	0.232	0.278
*100H	100.00	0.196	0.262	0.327	0.392

**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

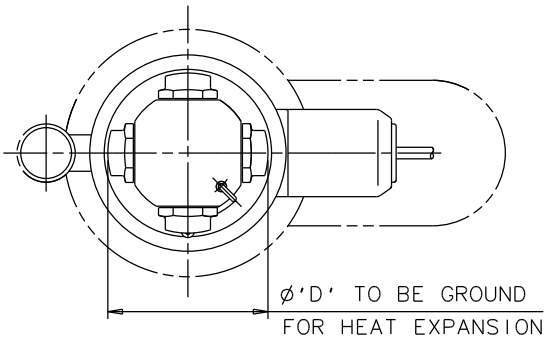
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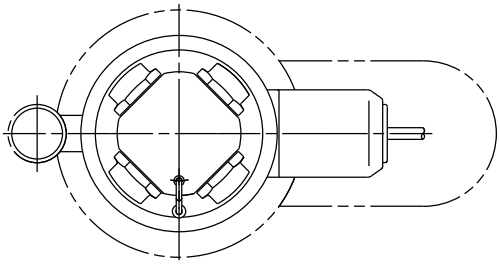
NOTE:
TRANSFER SEALS ARE SUPPLIED OVERSIZE. THE MOLD-MAKER MUST GRIND THE TRANSFER SEALS WHILE ASSEMBLED TO THE NOZZLE TO ENSURE PROPER SEALING AGAINST THE WALL. SEE CHART FOR THE GRINDING DIAMETER AT THE CORRESPONDING TEMPERATURE DIFFERENCE.

ø'D'$^{+0.00}_{-0.01}$ AT ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
20.00	19.99	19.98	19.97

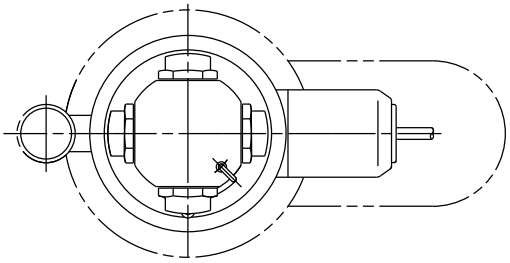
BOTTOM VIEW OF NOZZLES SHOWING THE DIFFERENT NOZZLE CONFIGURATIONS



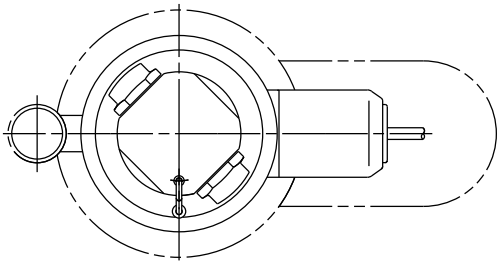
BOTTOM VIEW
CONFIGURATION B SHOWN



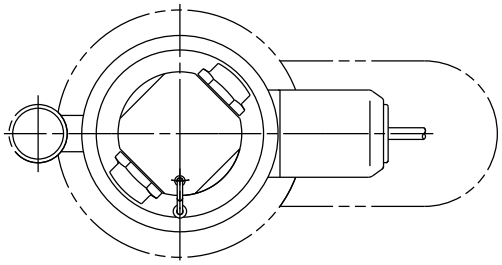
NZDP1TE A_ _ _ H
CONFIGURATION A



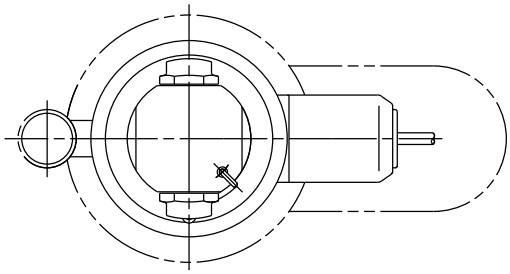
NZDP1TE B_ _ _ H
CONFIGURATION B



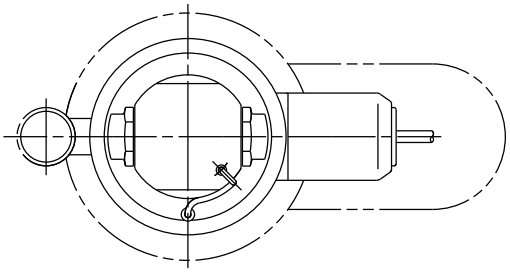
NZDP1TE C_ _ _ H
CONFIGURATION C



NZDP1TE D_ _ _ H
CONFIGURATION D



NZDP1TE E_ _ _ H
CONFIGURATION E

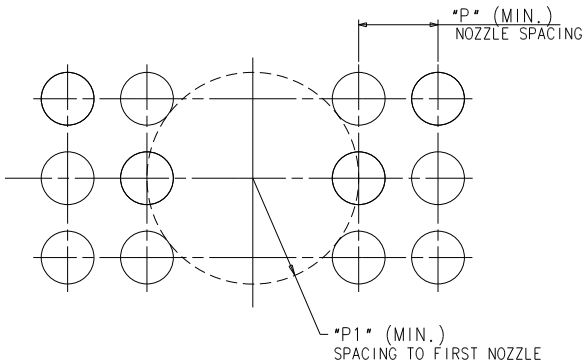


NZDP1TE F_ _ _ H
CONFIGURATION F

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MANIFOLD SHAPE	MANIFOLD PAGE	GATING TYPE	PITCH RANGE	MANIFOLD LOCATOR OPTIONS
"1I" SUB MANIFOLD	05.02.010A/B	SPRUE	X = 70.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	05.02.011A/B	VALVE	X = 70.0 TO 150.0	
"2I" SUB MANIFOLD	05.02.020A/B	SPRUE	X = 56.0 TO 69.9	ML0006, ML0015 ML0030, ML0040
	05.02.021A/B	VALVE	X = 56.0 TO 69.9	
	05.02.022A/B	SPRUE	X = 70.0 TO 150.0	
	05.02.023A/B	VALVE	X = 70.0 TO 150.0	
"T" SUB MANIFOLD	05.02.030A	SPRUE	X = 75.0 TO 150.0 / Y = 71.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	05.02.030B	SPRUE	X = 75.0 TO 150.0 / Y = 78.0 TO 150.0	
	05.02.031A	VALVE	X = 75.0 TO 150.0 / Y = 71.0 TO 150.0	
	05.02.031B	VALVE	X = 75.0 TO 150.0 / Y = 78.0 TO 150.0	
"4I" SUB MANIFOLD	05.02.040A/B	SPRUE	X1 = 50.0 TO 83.0 / X2 = 150.0 TO 249.0	ML0006, ML0015 ML0030, ML0040
	05.02.041A/B	VALVE	X1 = 65.0 TO 83.0 / X2 = 195.0 TO 249.0	
"X" SUB MANIFOLD	05.02.050A/B	SPRUE	X = 65.0 TO 150.0 / Y = 65.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	05.02.051A/B	VALVE	X = 65.0 TO 150.0 / Y = 65.0 TO 150.0	
"H" SUB MANIFOLD	05.02.060A	SPRUE	X = 75.0 TO 150.0 / Y = 50.0 TO 150.0	ML0006, ML0015 ML0030, ML0040
	05.02.060B	SPRUE	X = 82.0 TO 150.0 / Y = 55.0 TO 150.0	
	05.02.061A	VALVE	X = 75.0 TO 150.0 / Y = 50.0 TO 150.0	
	05.02.061B	VALVE	X = 82.0 TO 150.0 / Y = 55.0 TO 150.0	
"XX" SUB MANIFOLD	05.02.070	SPRUE	X = 25.0 TO 50.0 / Y = 25.0 TO 50.0	ML0006, ML0040 ("X"/"Y" < 30) ML0015, ML0030 ("X"/"Y" > 30)
	05.02.071	VALVE	X = 30.0 TO 50.0 / Y = 30.0 TO 50.0	
"HH" SUB MANIFOLD	05.02.072A/B	SPRUE	X = 60.0 TO 111.0 / Y = 80.0 TO 110.0	ML0006, ML0015 ML0030, ML0040
	05.02.073A/B	VALVE	X = 60.0 TO 111.0 / Y = 80.0 TO 110.0	

MIN. PITCH FOR INLET EXTENSION / ACTUATING UNIT

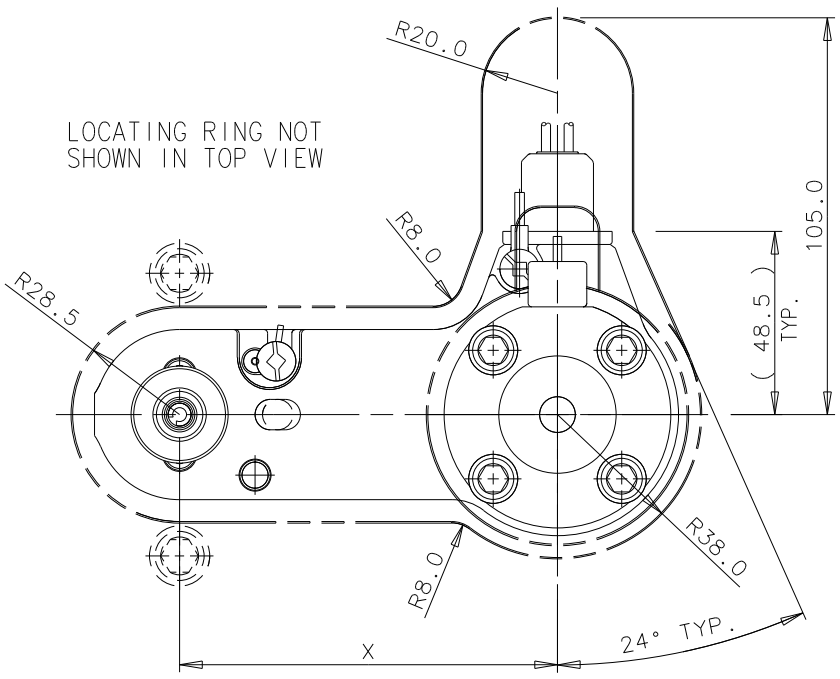


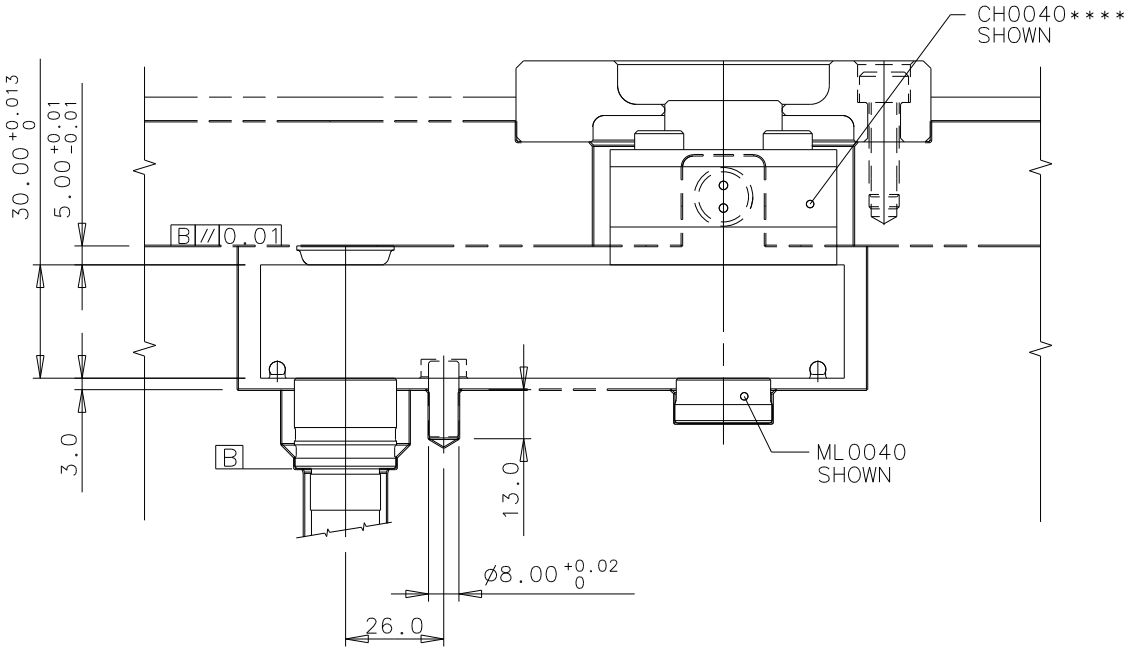
HYD./PNEU. UNIT	INLET EXT.	"P1"	"P"
HY550Xx	IE06***	40.0	36.0
	IE08***	45.0	
HY650Xx OR HY710Xx	IE06*** OR IE08***	50.0	54.0
PN2300x	IE06*** OR IE08***	50.0	48.0
HY5500x	IE06*** OR IE08***	82.0	41.0
HY6500x OR HY7100x	IE06*** OR IE08***	86.5	60.0

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES 05.01

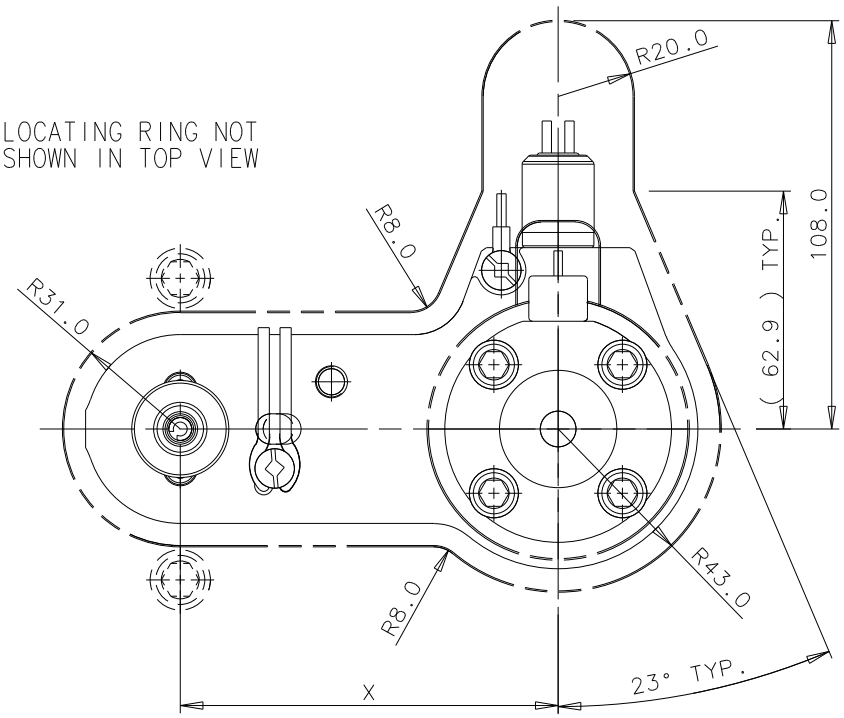
ACCESSORIES 09.01

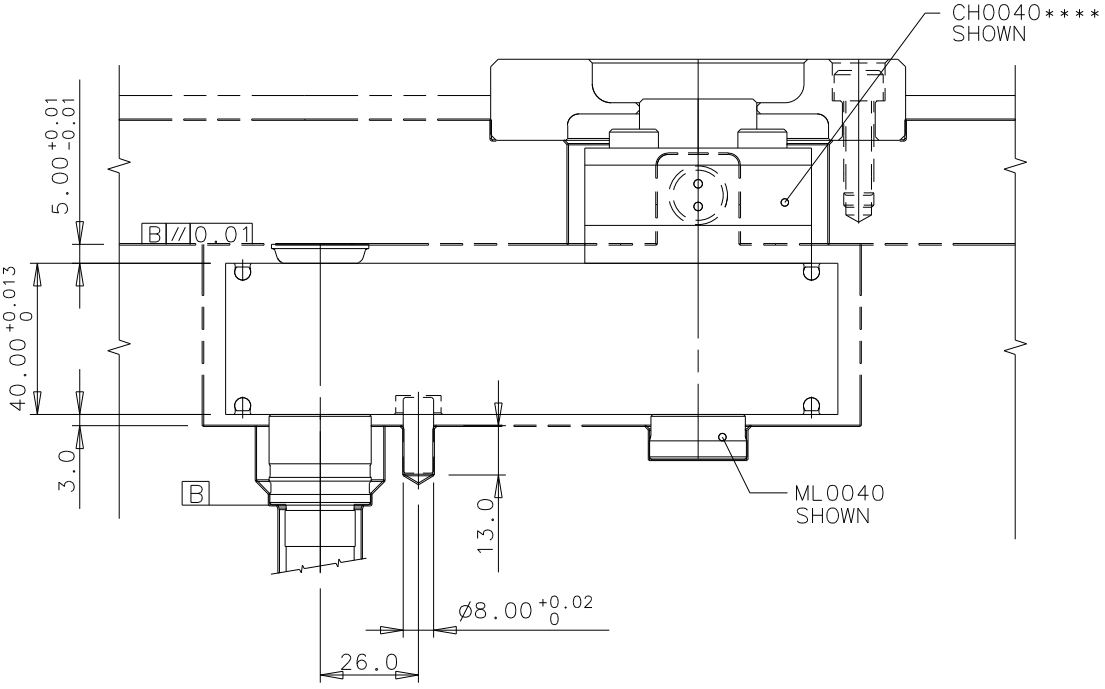
MANIFOLD RANGES 05.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES 05.01

ACCESSORIES 09.01

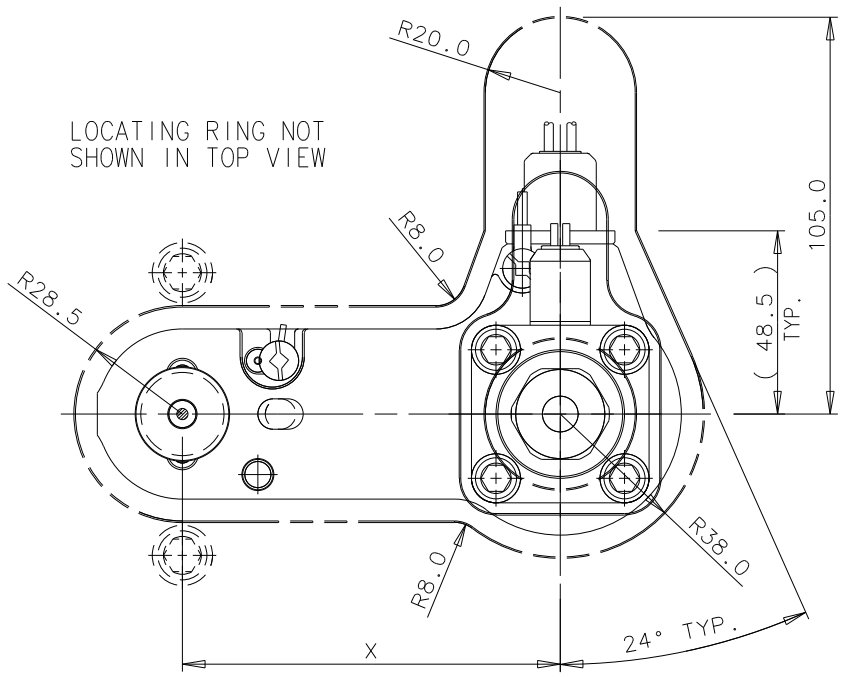
MANIFOLD RANGES 05.02.001

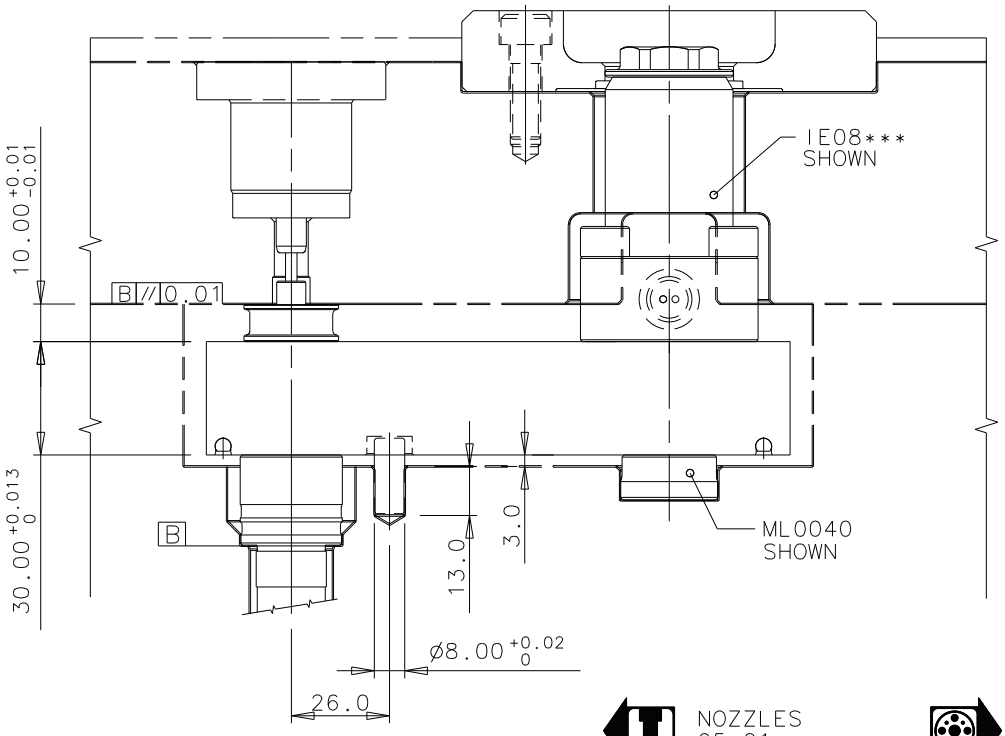
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES
05.01

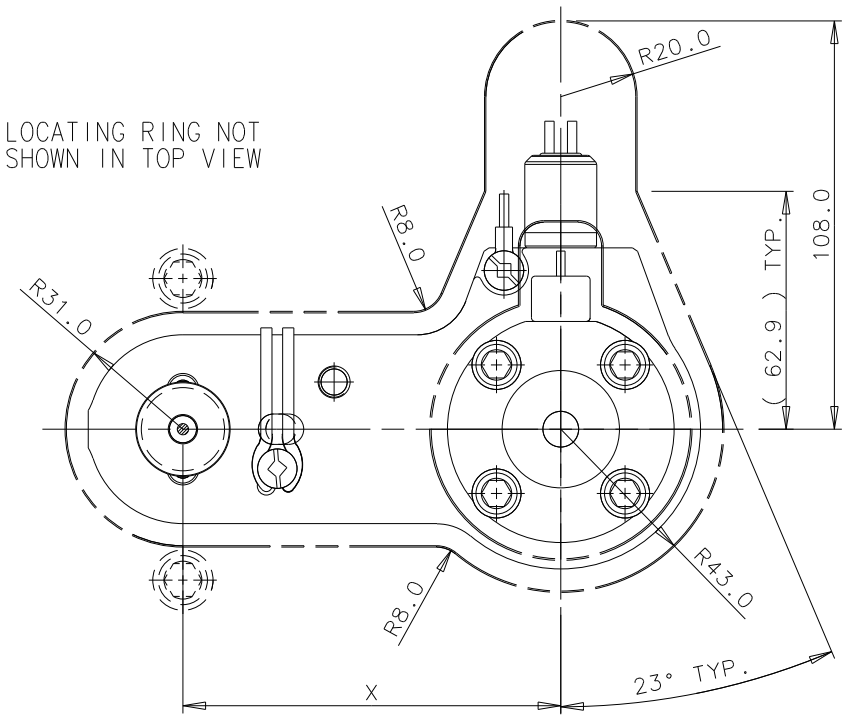
ACCESSORIES
09.01

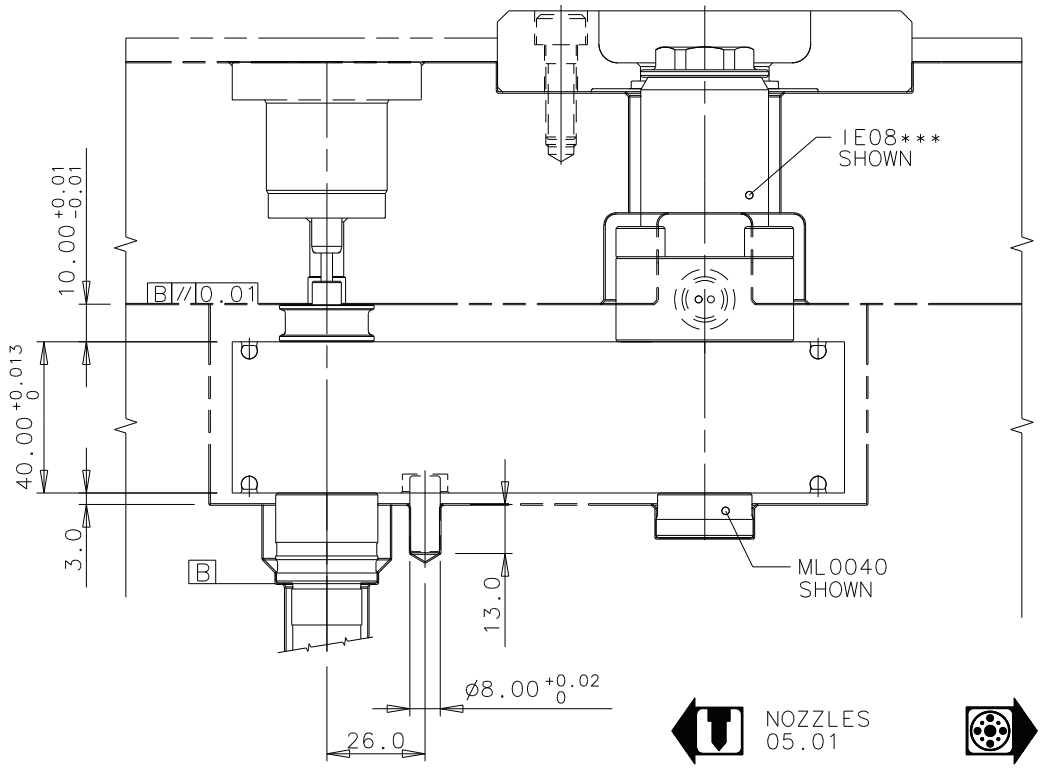
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES 05.01

ACCESSORIES 09.01

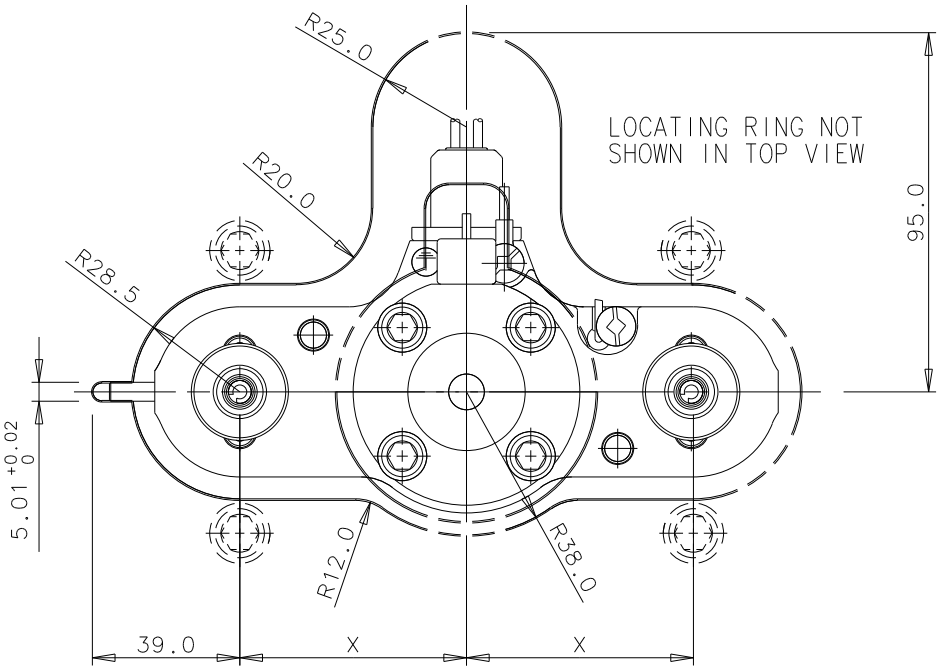
MANIFOLD RANGES 05.02.001

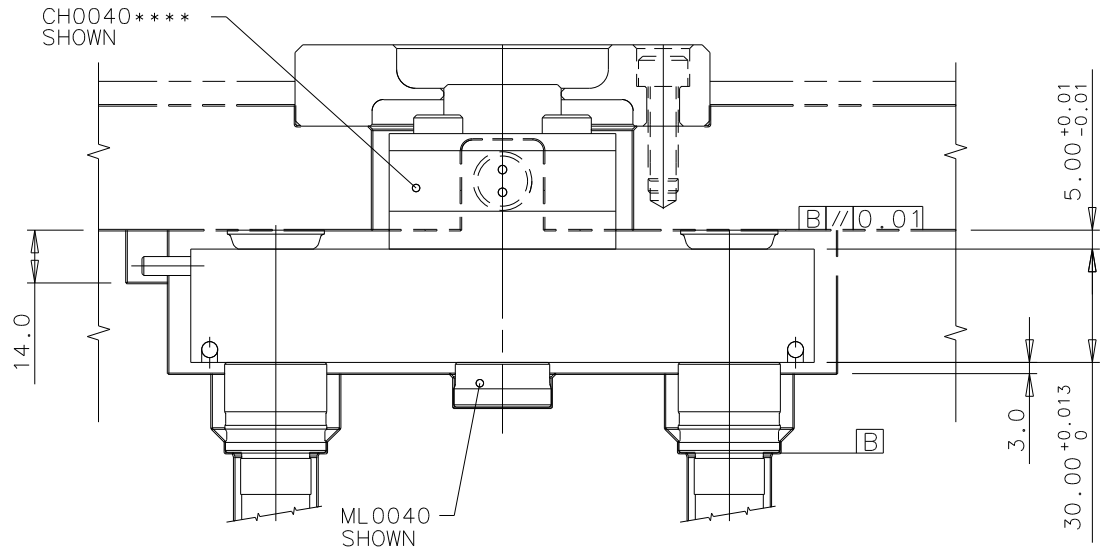
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 60 SHOWN

NOZZLES
05.01

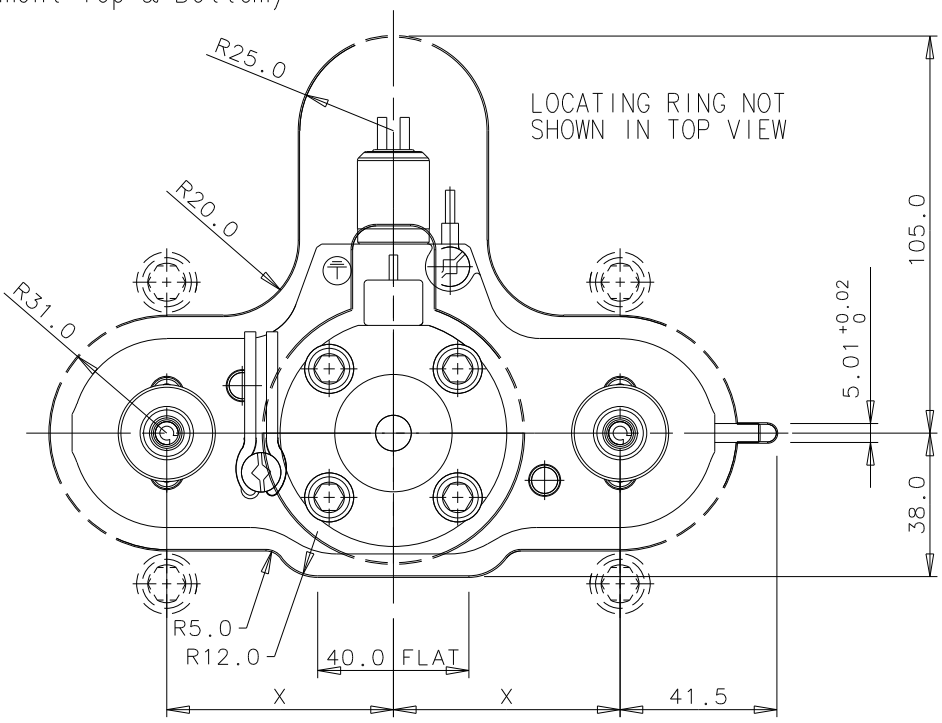
ACCESSORIES
09.01

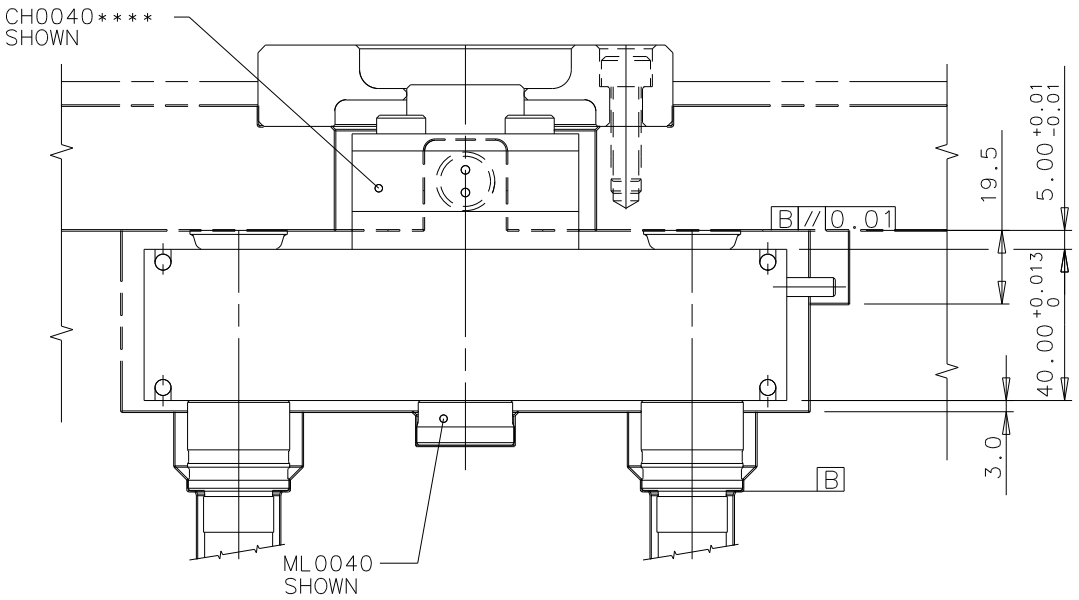
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





NOZZLES 05.01

ACCESSORIES 09.01

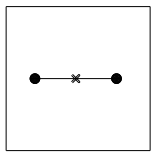
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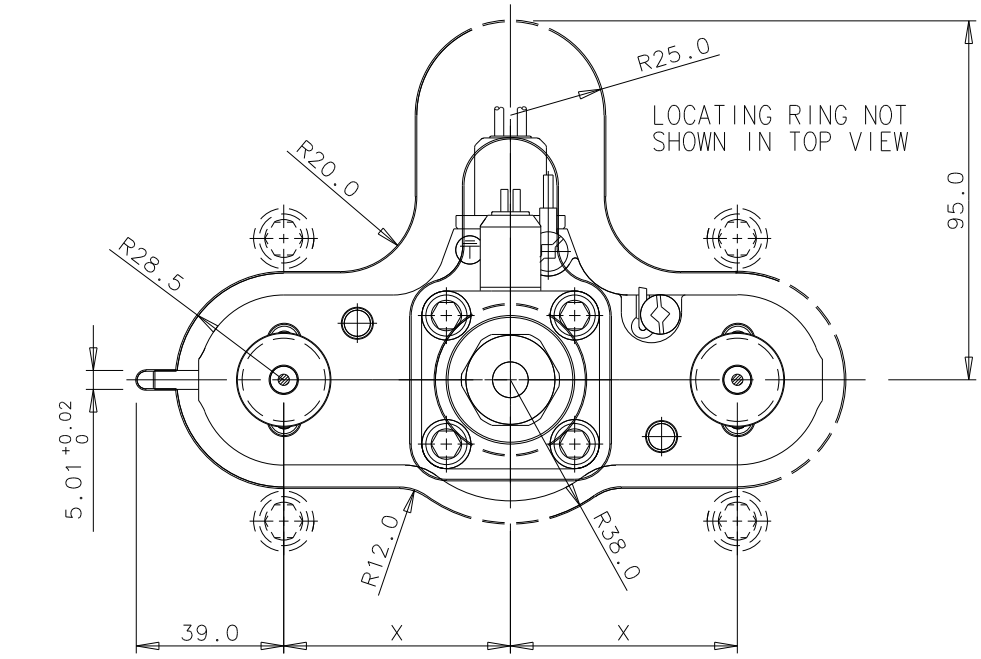
MANIFOLD COMPONENTS 10.01

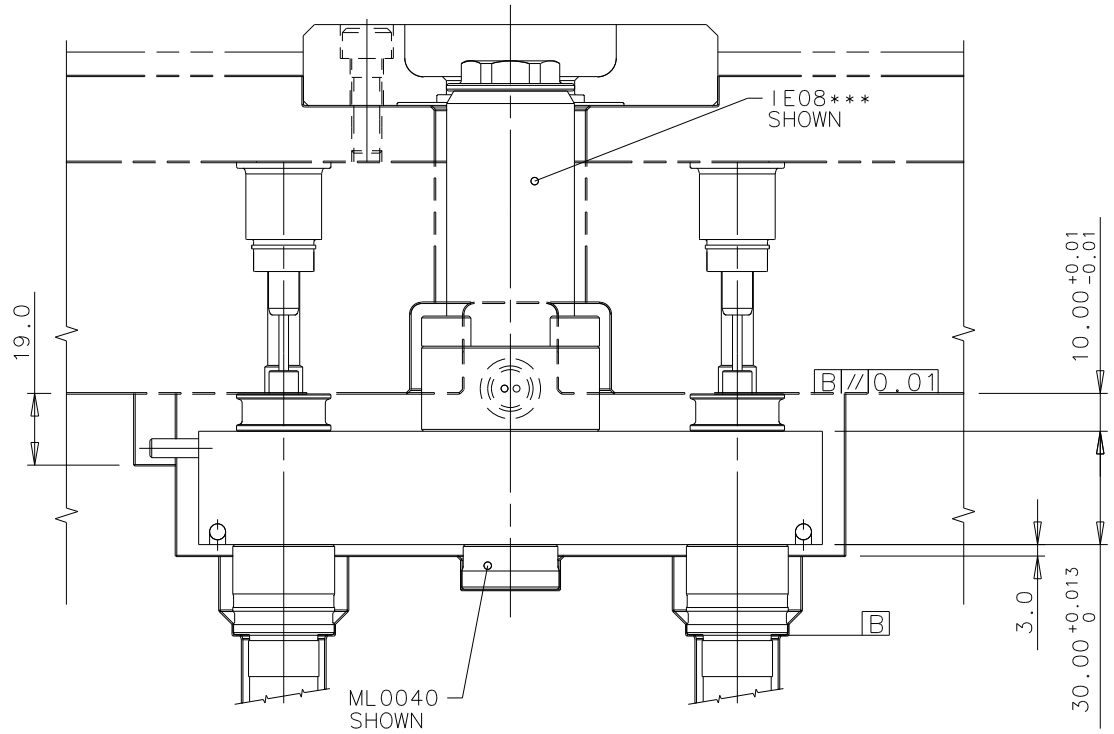
X = 60 SHOWN

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 60 SHOWN

NOZZLES
05.01

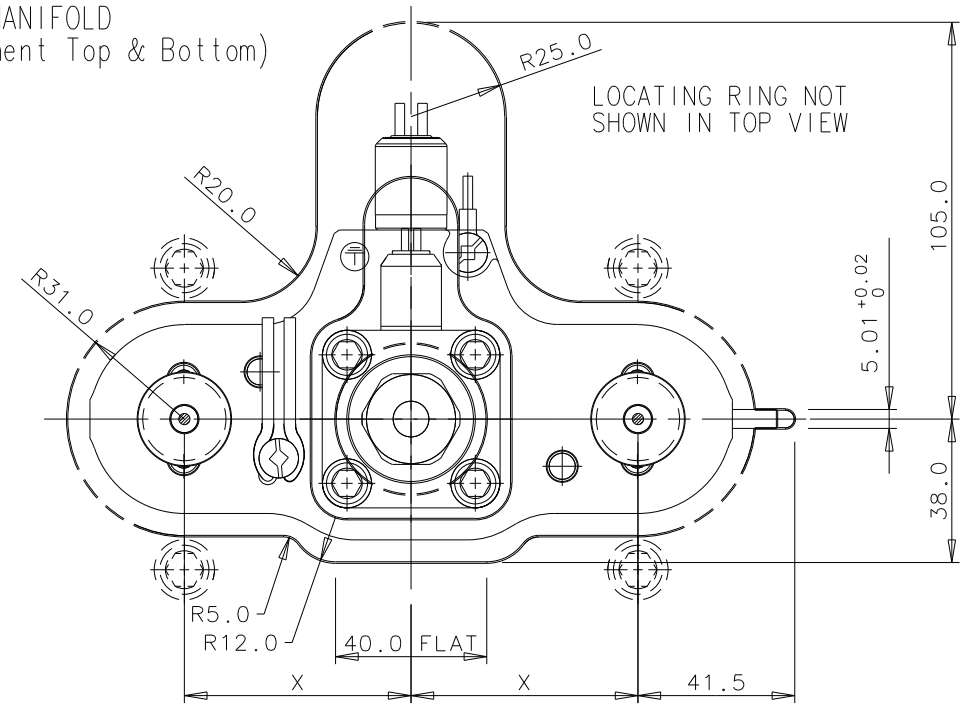
ACCESSORIES
09.01

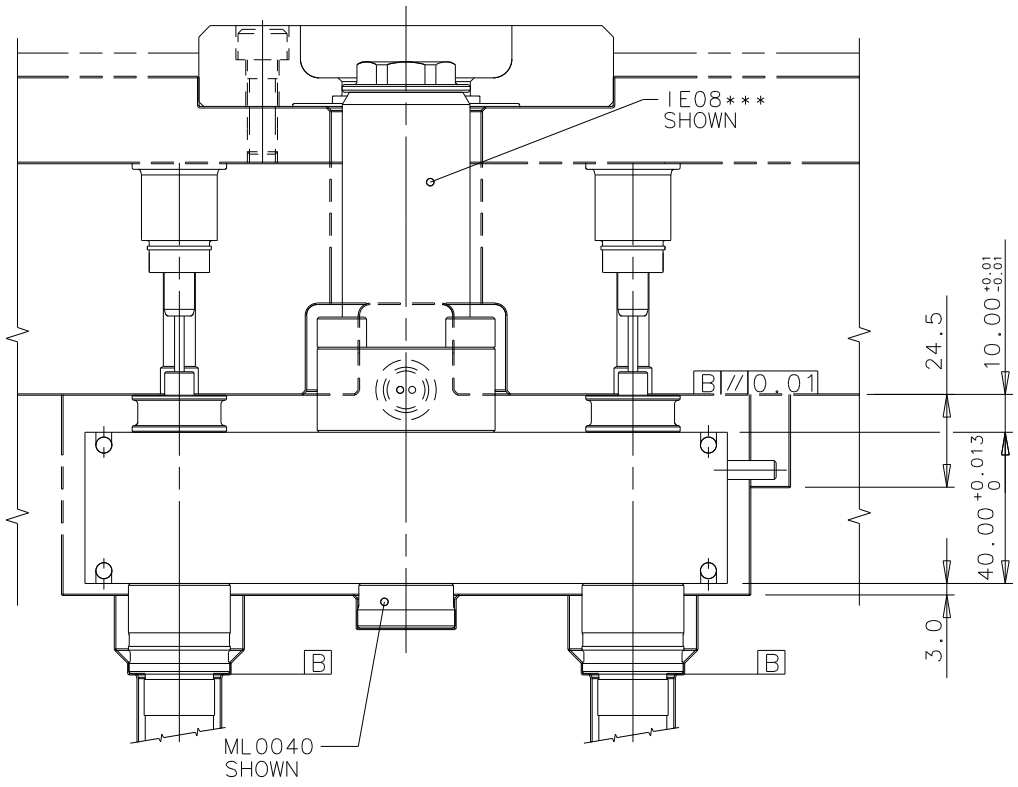
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





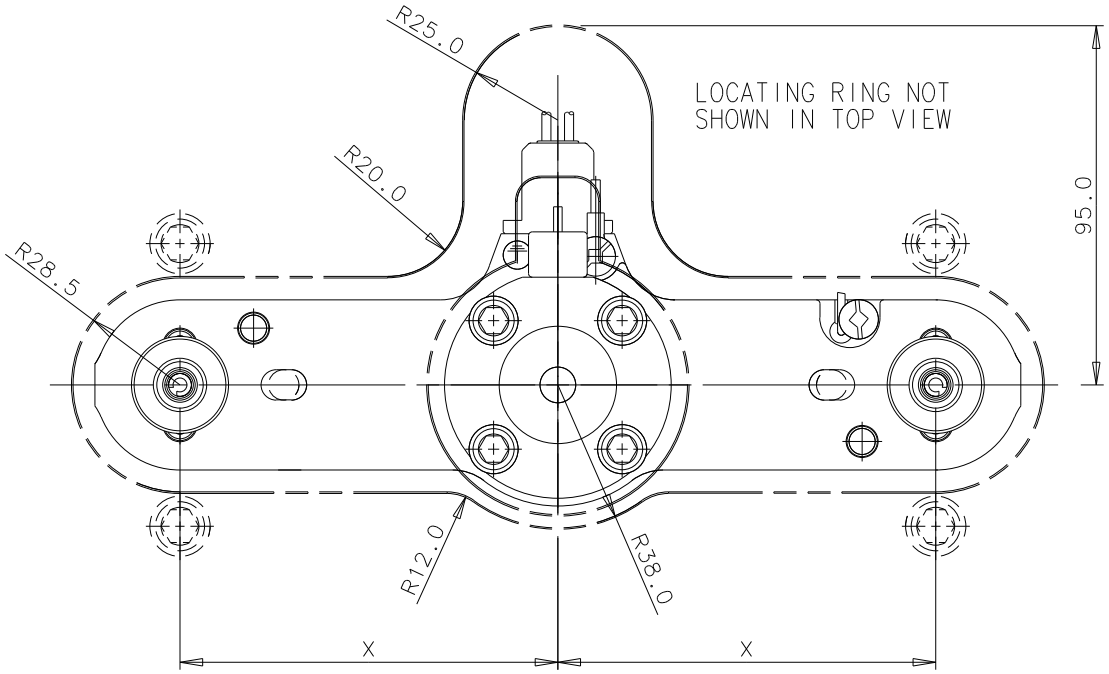
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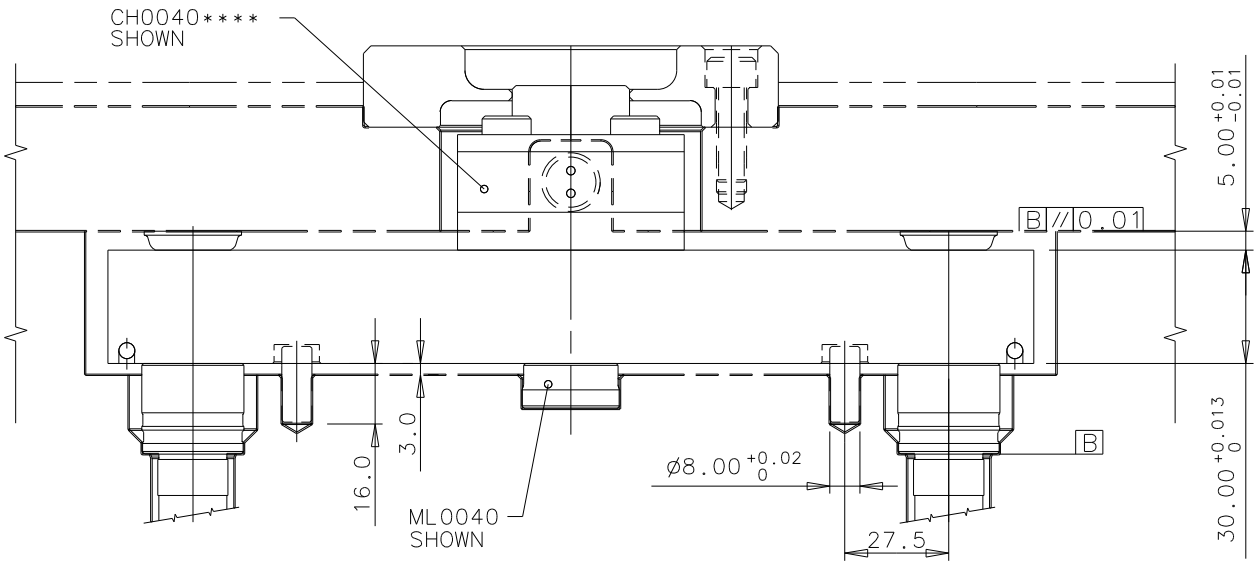
NOZZLES 05.01
ACCESSORIES 09.01
MANIFOLD RANGES 05.02.001
MANIFOLD COMPONENTS 10.01

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Mold Masters®

NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES
05.01

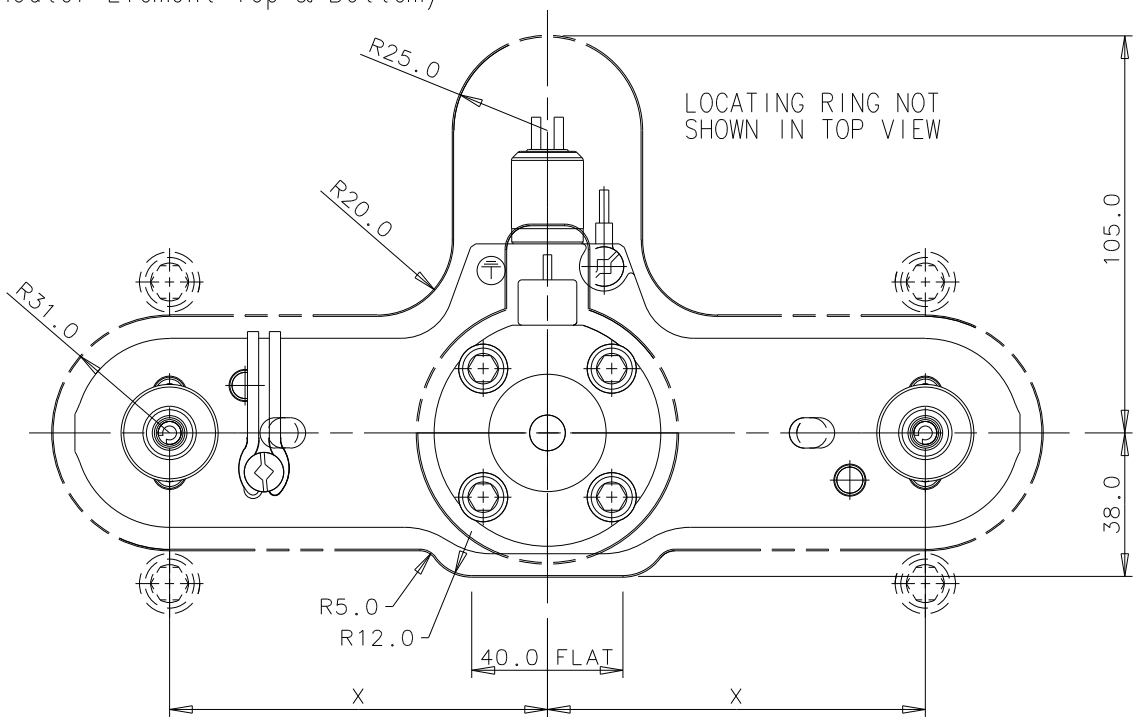
ACCESSORIES
09.01

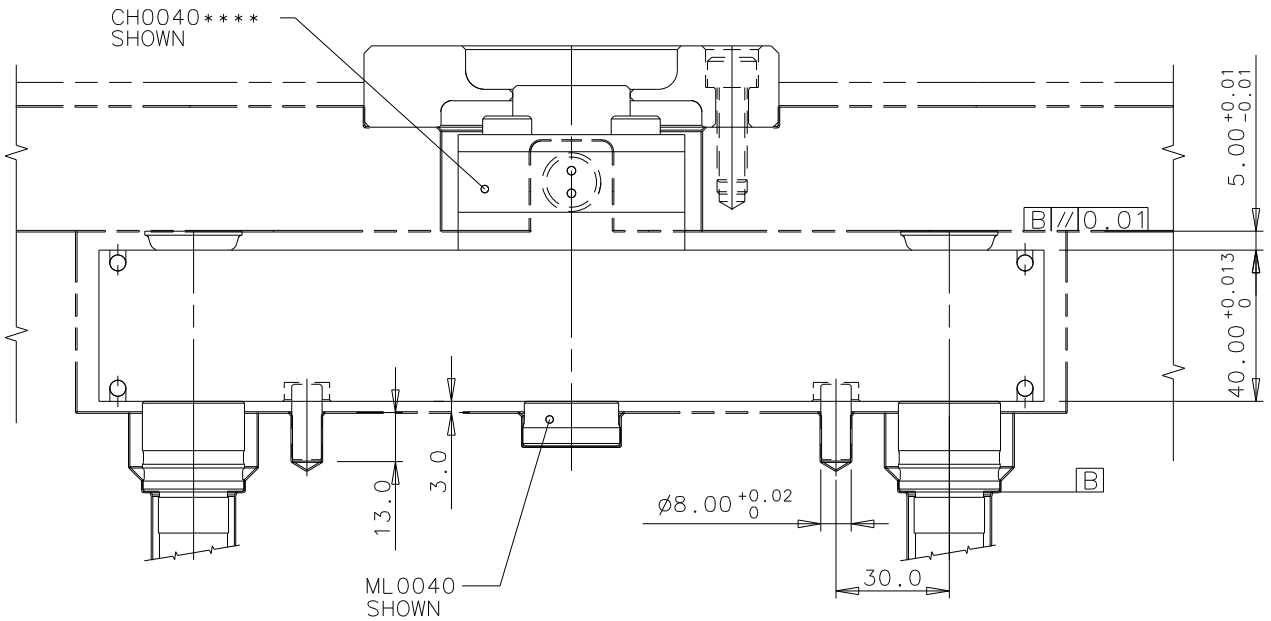
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





NOZZLES
05.01

ACCESSORIES
09.01

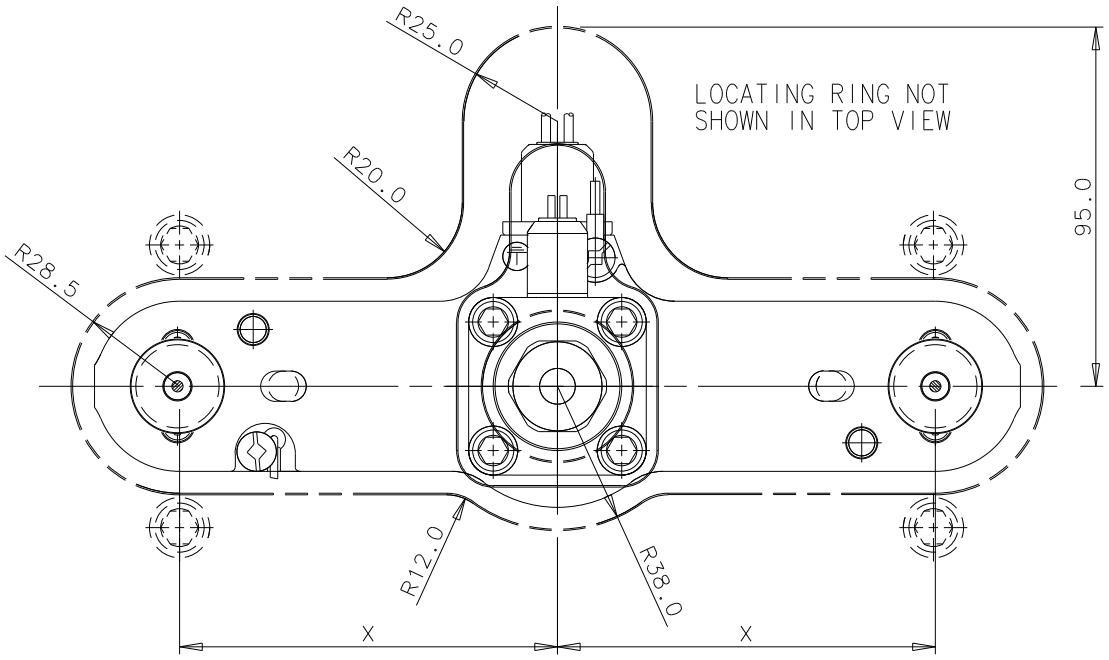
MANIFOLD
RANGES
05.02.001

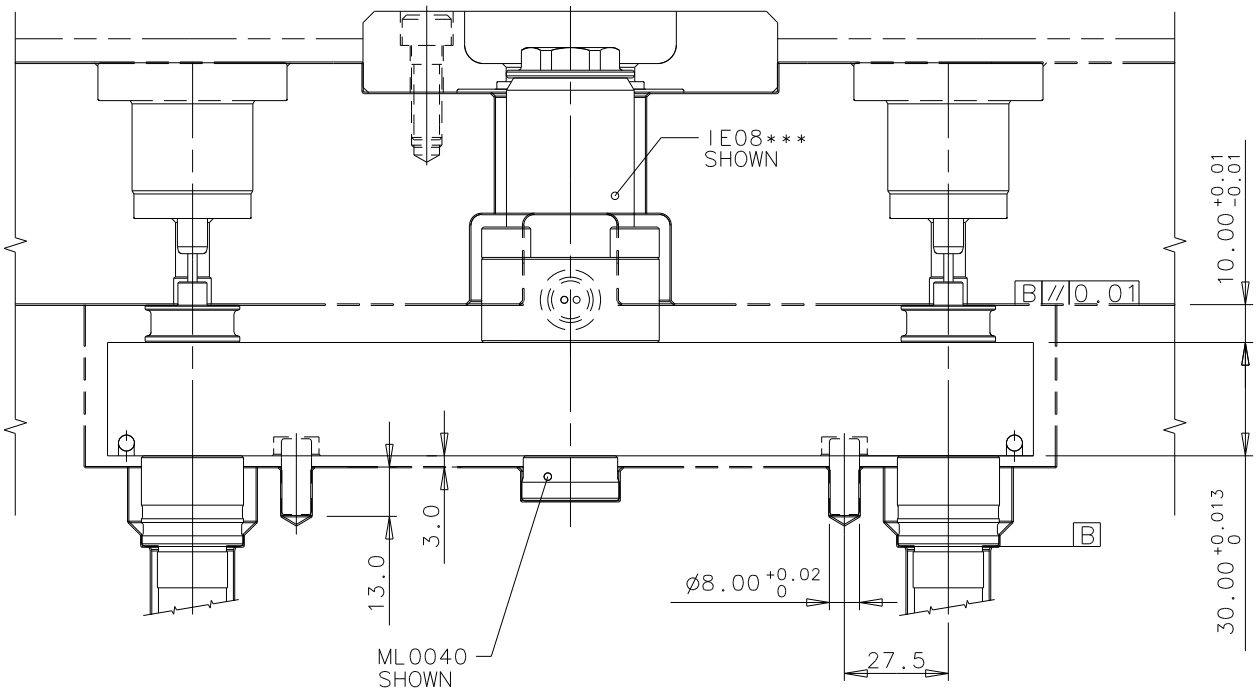
MANIFOLD
COMPONENTS
10.01

X = 100 SHOWN

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





NOZZLES
05.01

ACCESSORIES
09.01

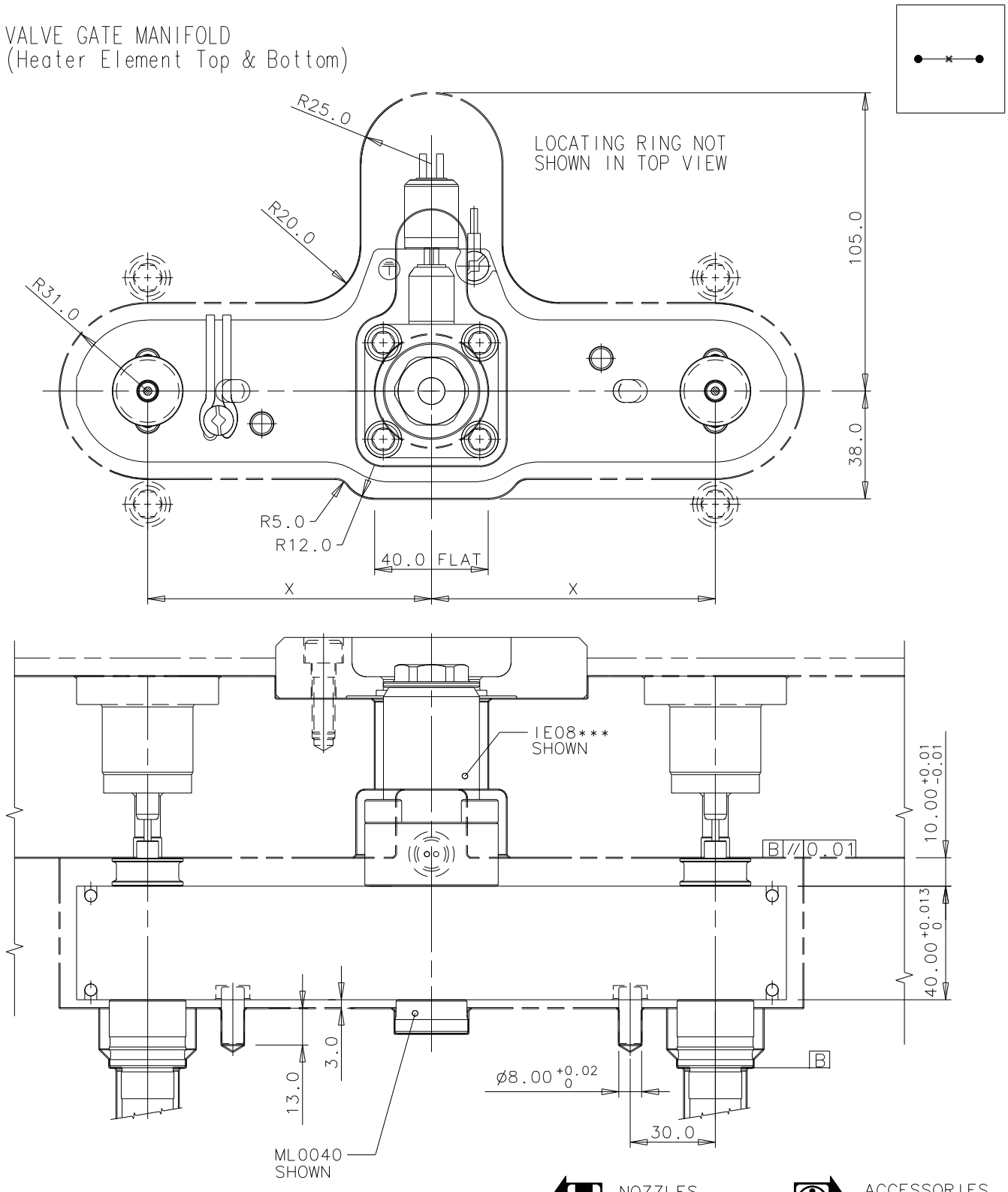
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

X = 100 SHOWN

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



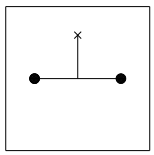
X = 100 SHOWN

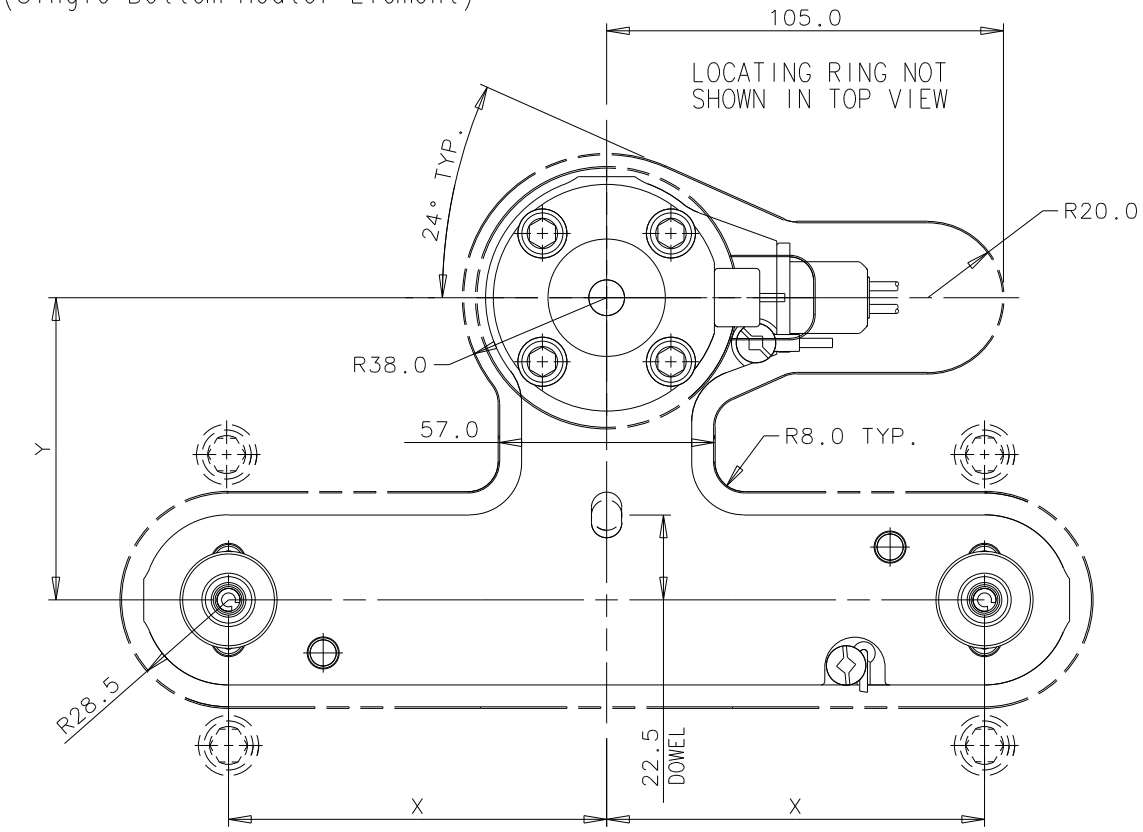
NOZZLES 05.01
ACCESSORIES 09.01
MANIFOLD RANGES 05.02.001
MANIFOLD COMPONENTS 10.01

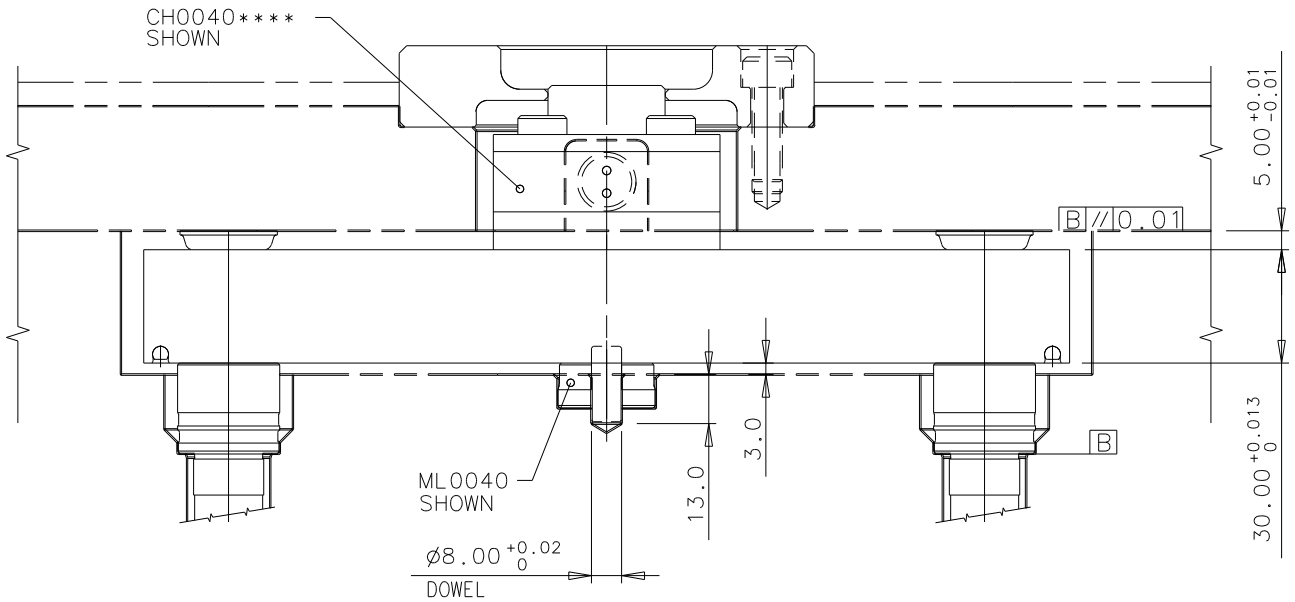
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 100 / Y = 80 SHOWN

NOZZLES
05.01

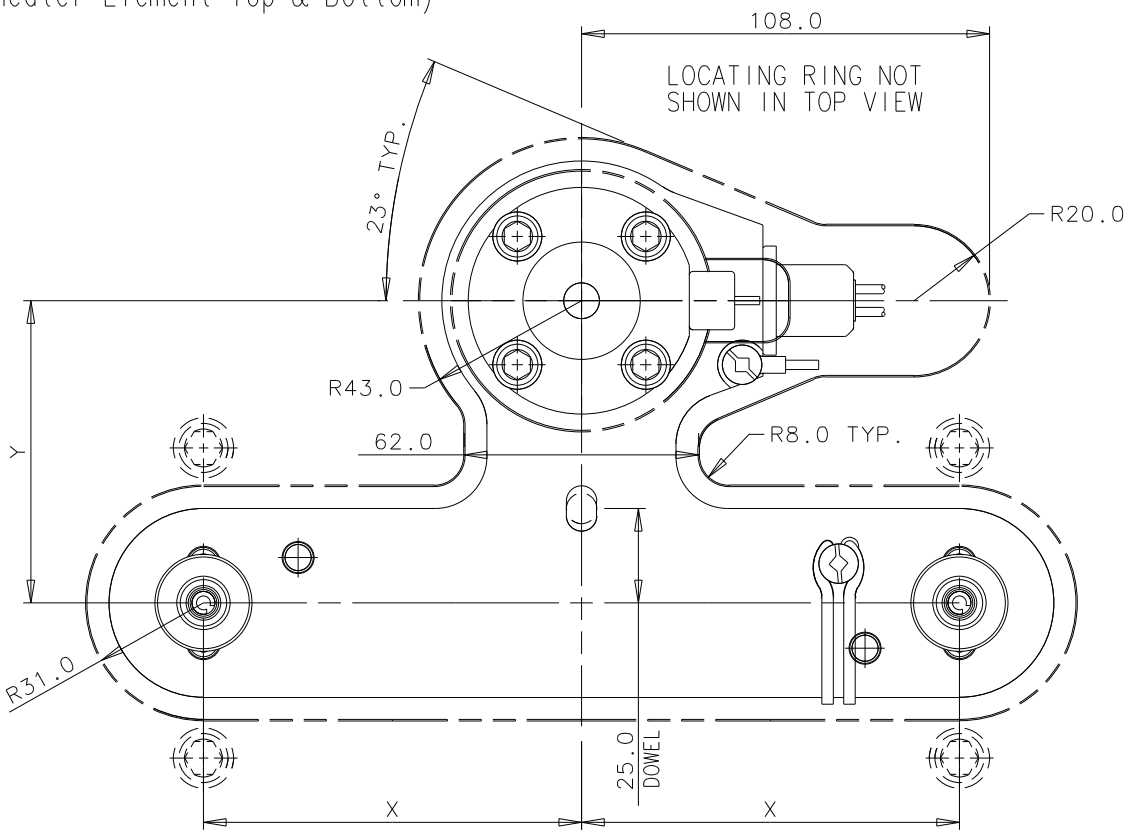
ACCESSORIES
09.01

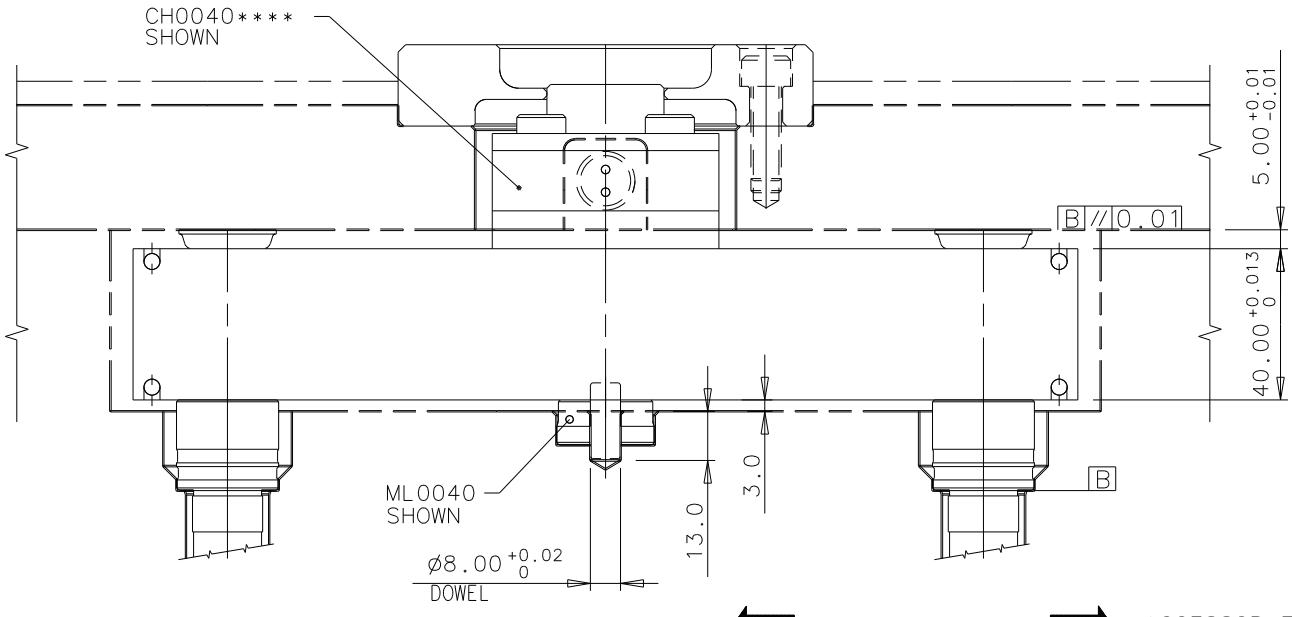
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 / Y = 80 SHOWN

NOZZLES 05.01

ACCESSORIES 09.01

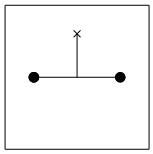
MANIFOLD RANGES 05.02.001

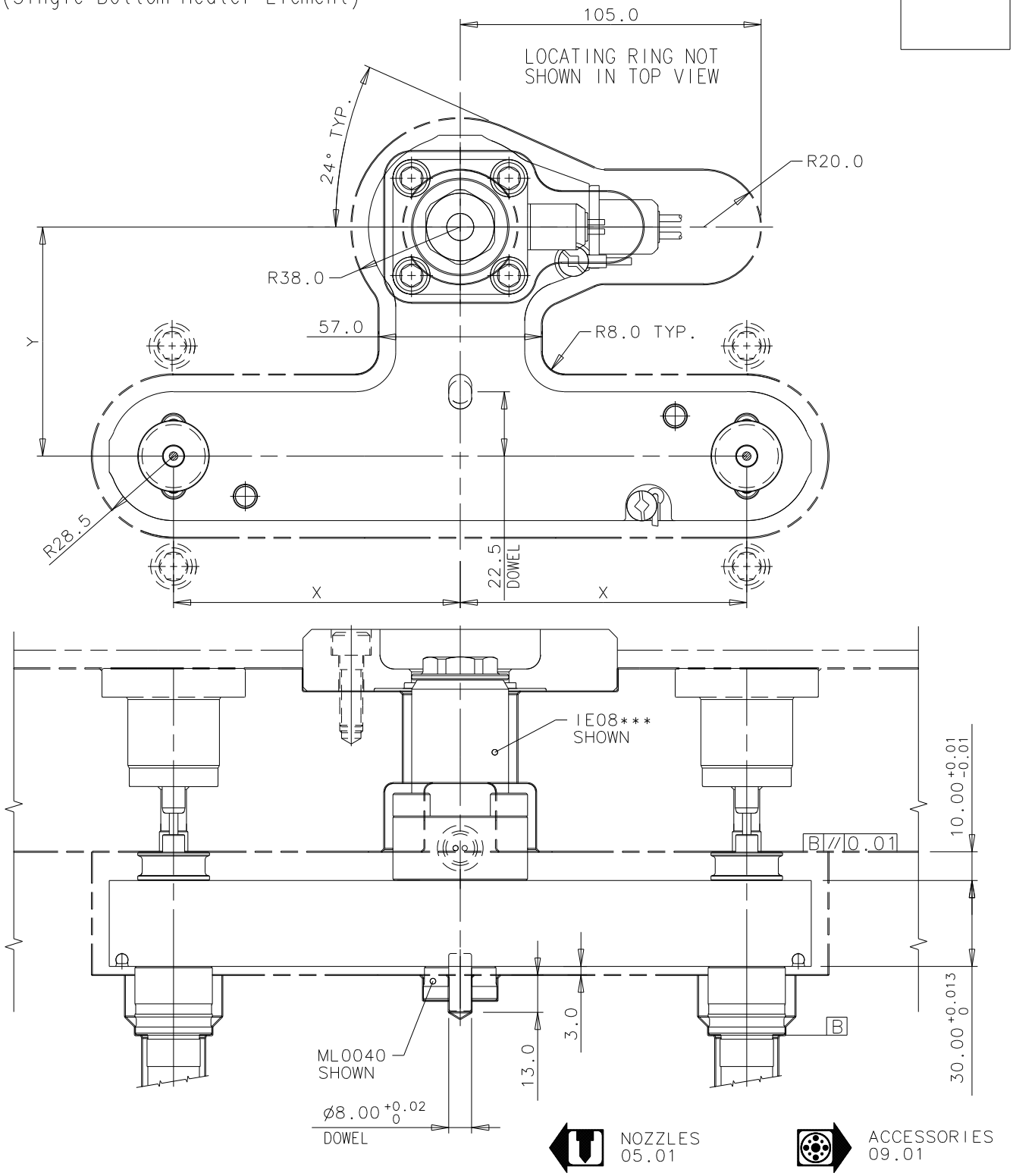
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 / Y = 80 SHOWN

NOZZLES 05.01

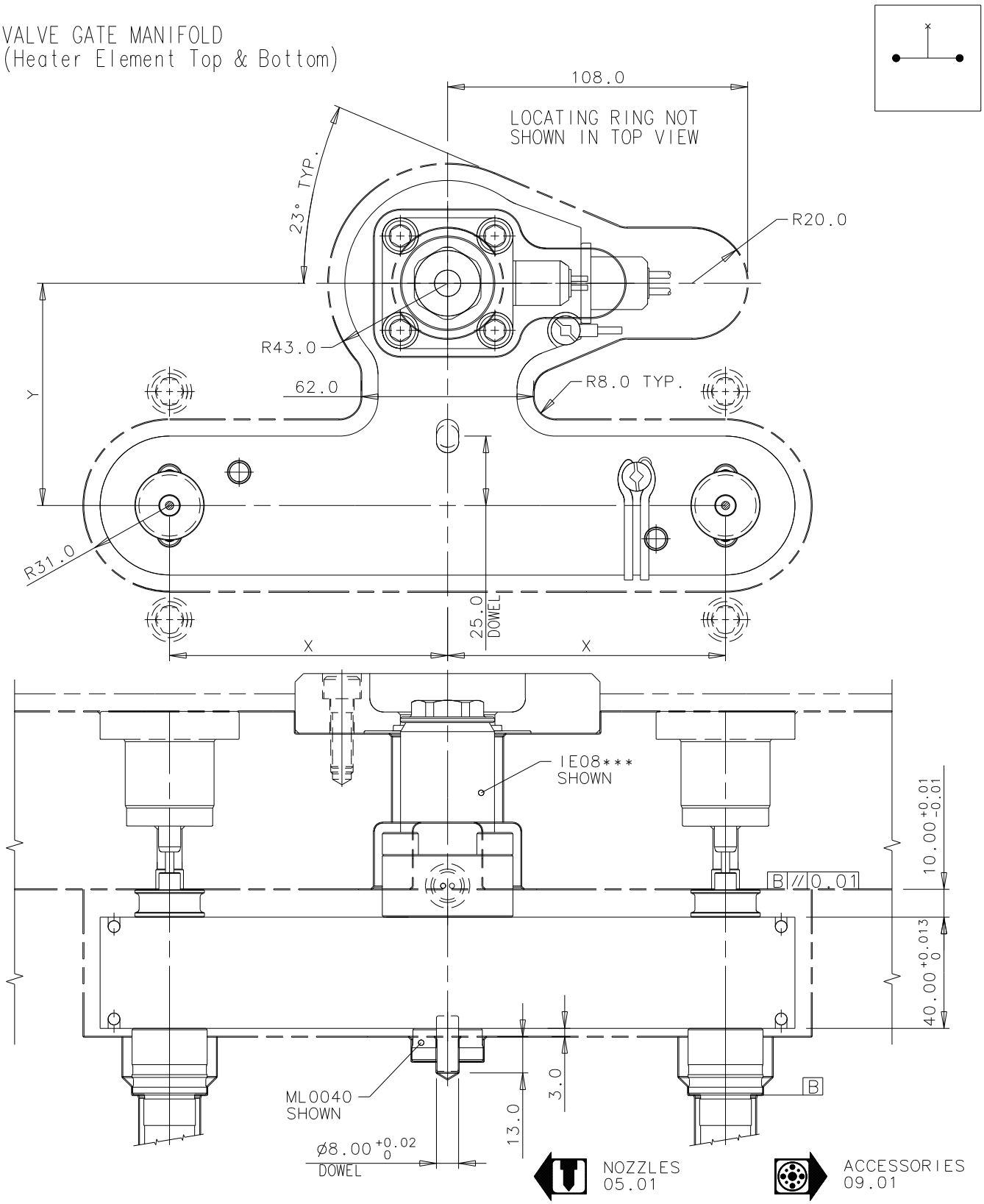
ACCESSORIES 09.01

MANIFOLD RANGES 05.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



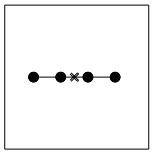
X = 100 / Y = 80 SHOWN

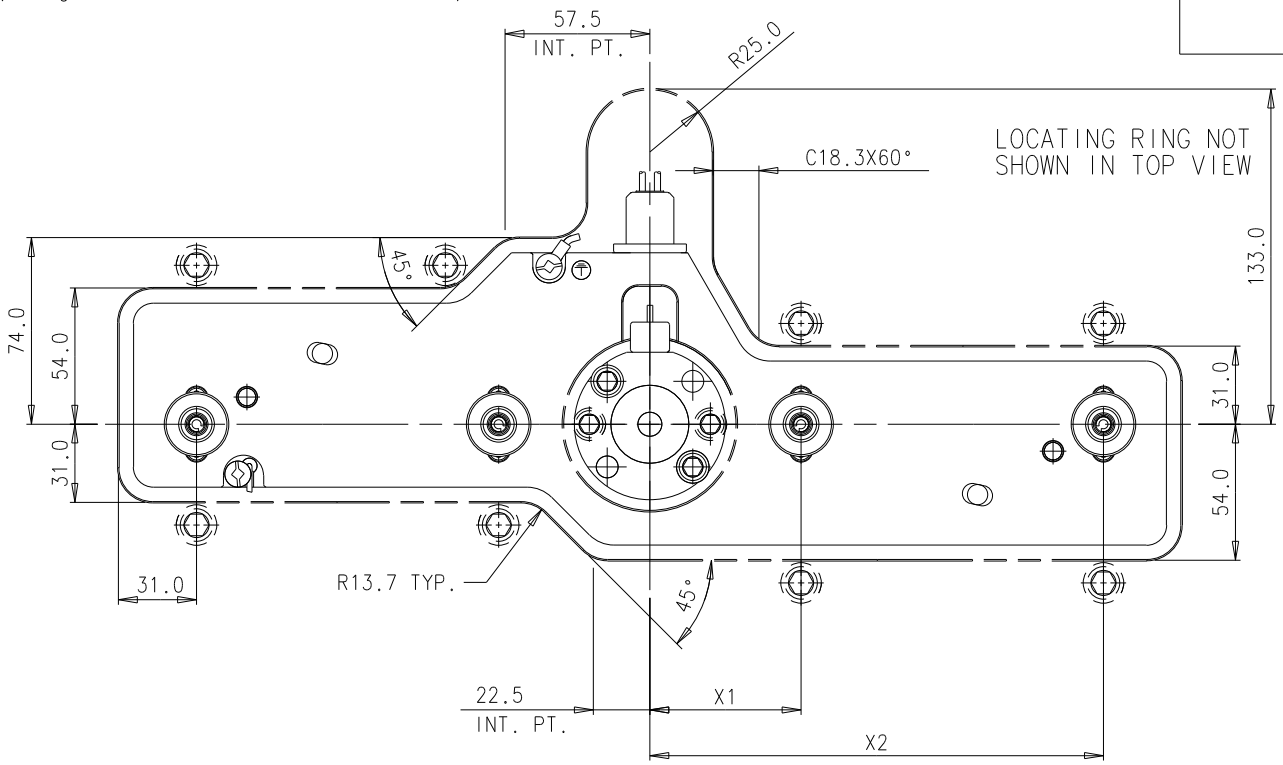
NOZZLES 05.01
ACCESSORIES 09.01
MANIFOLD RANGES 05.02.001
MANIFOLD COMPONENTS 10.01

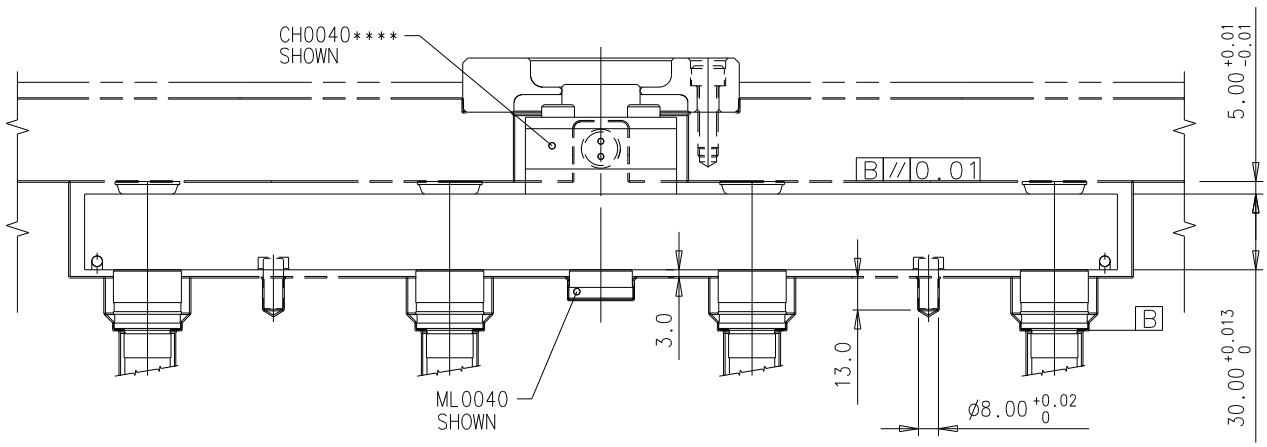
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 60 SHOWN

NOZZLES
05.01

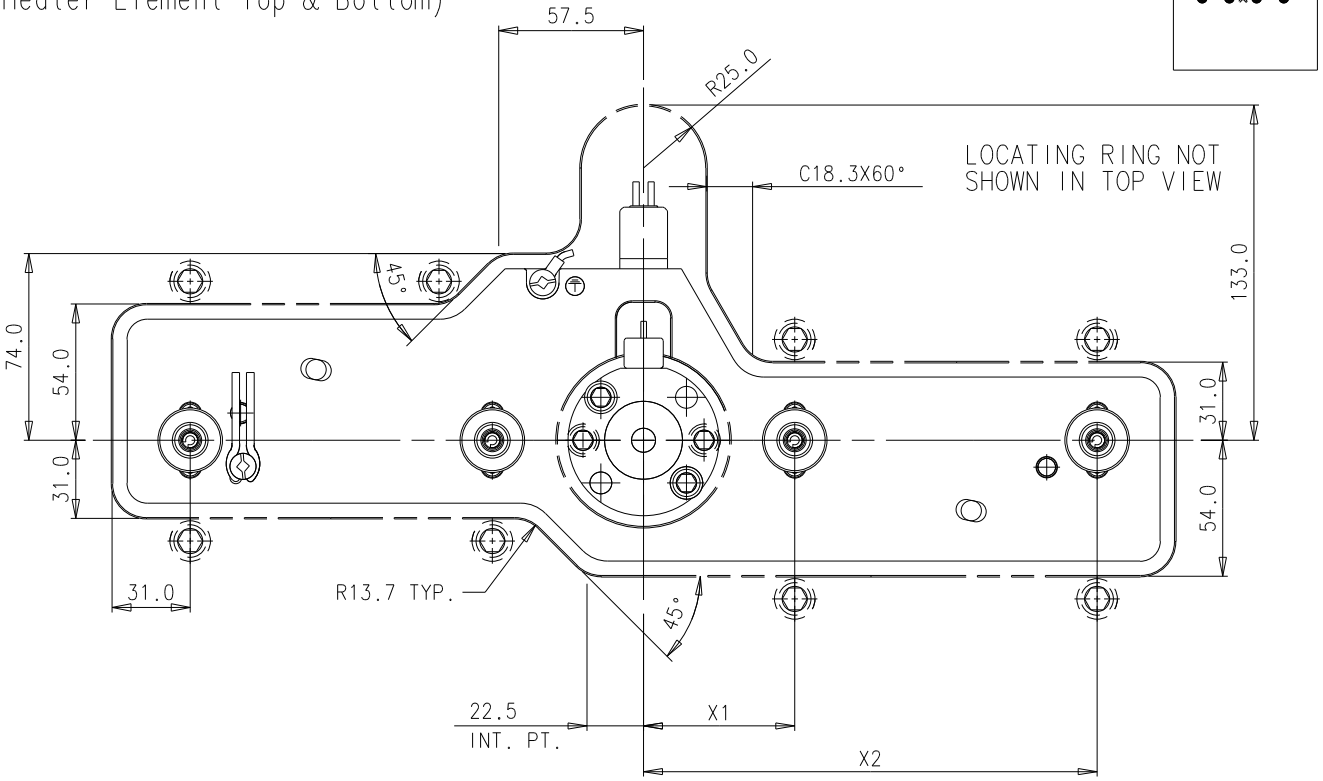
ACCESSORIES
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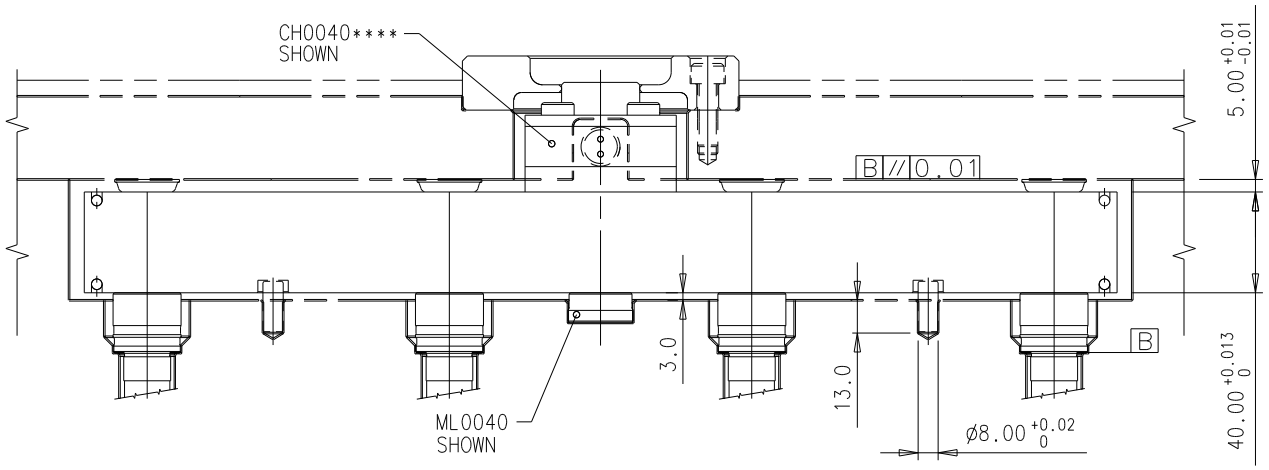
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



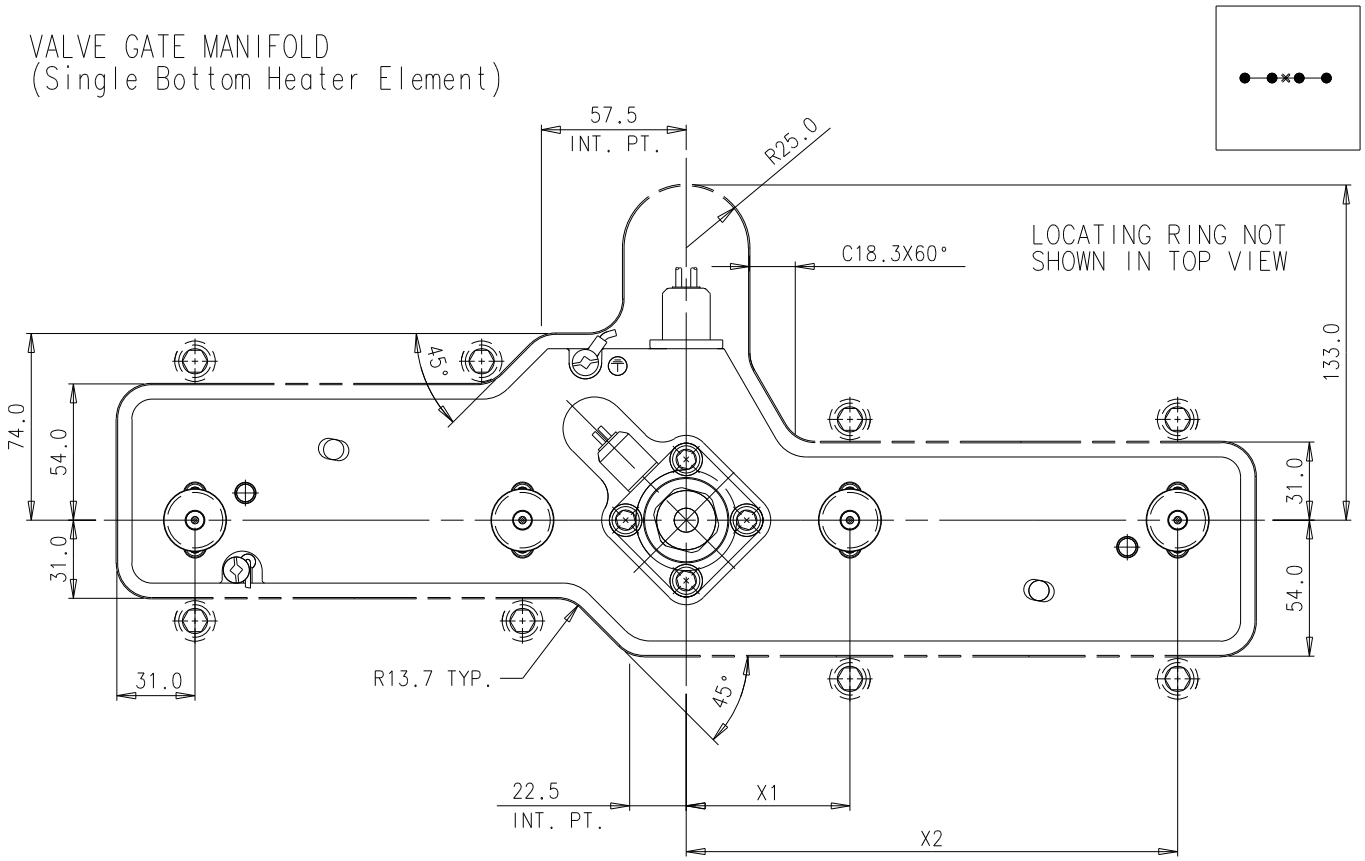


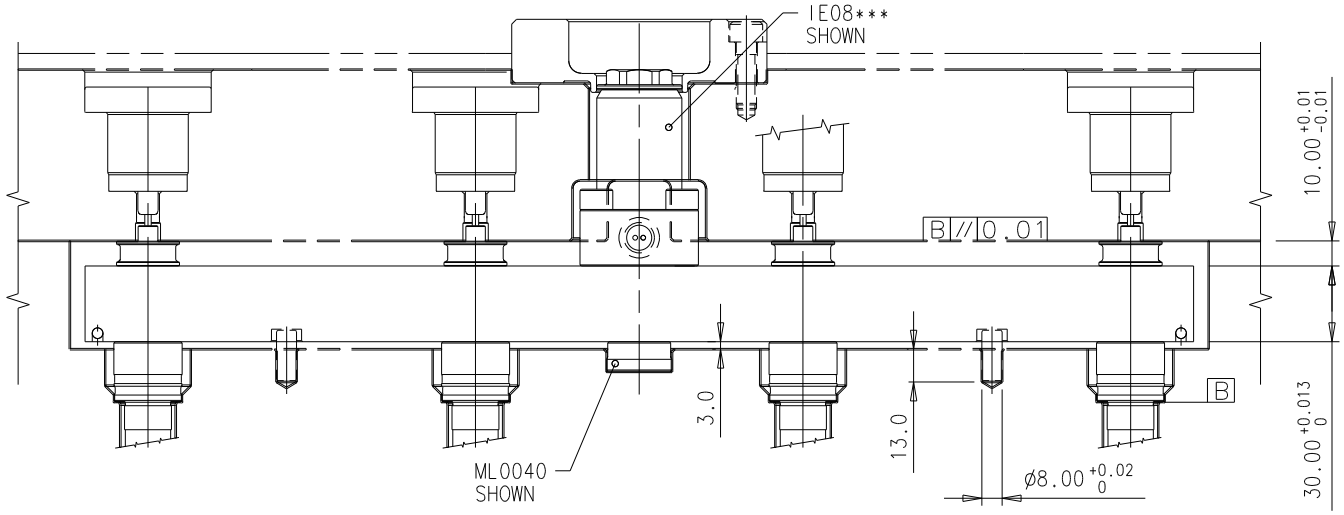
X = 60 SHOWN

NOZZLES 05.01
ACCESSORIES 09.01
MANIFOLD RANGES 05.02.001
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 65 SHOWN

NOZZLES
05.01

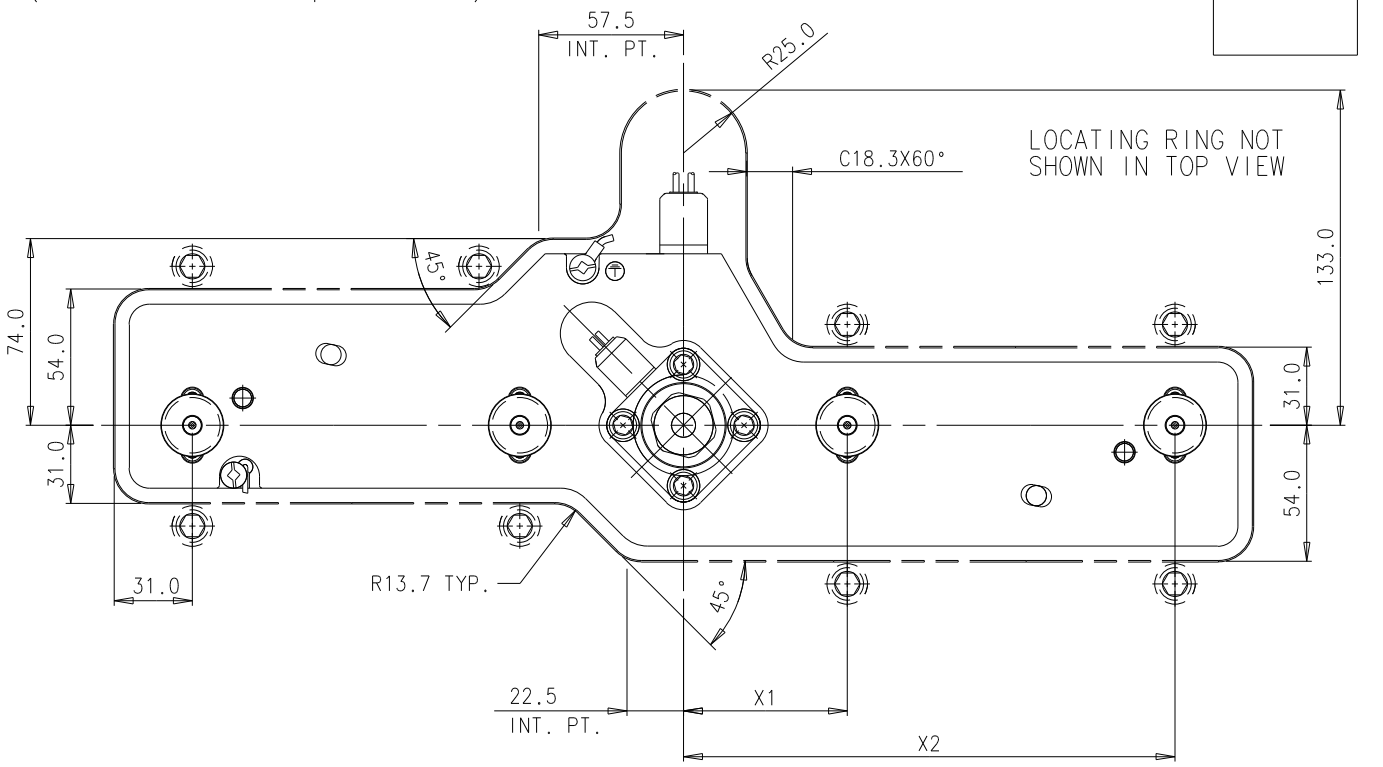
ACCESSORIES
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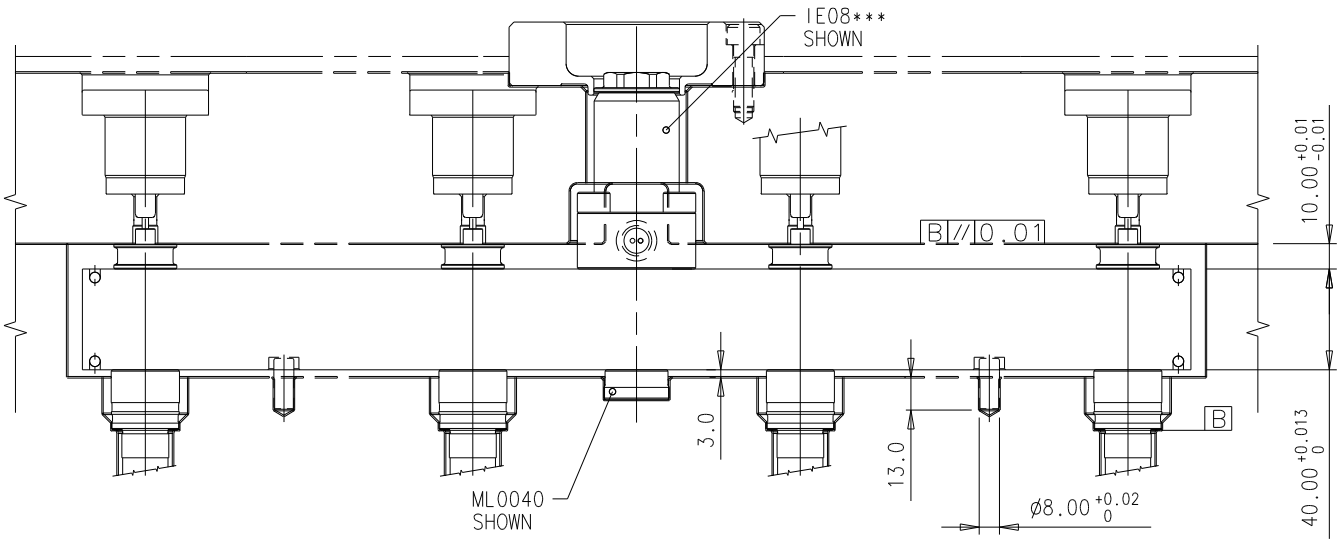
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 65 SHOWN

NOZZLES
05.01

ACCESSORIES
09.01

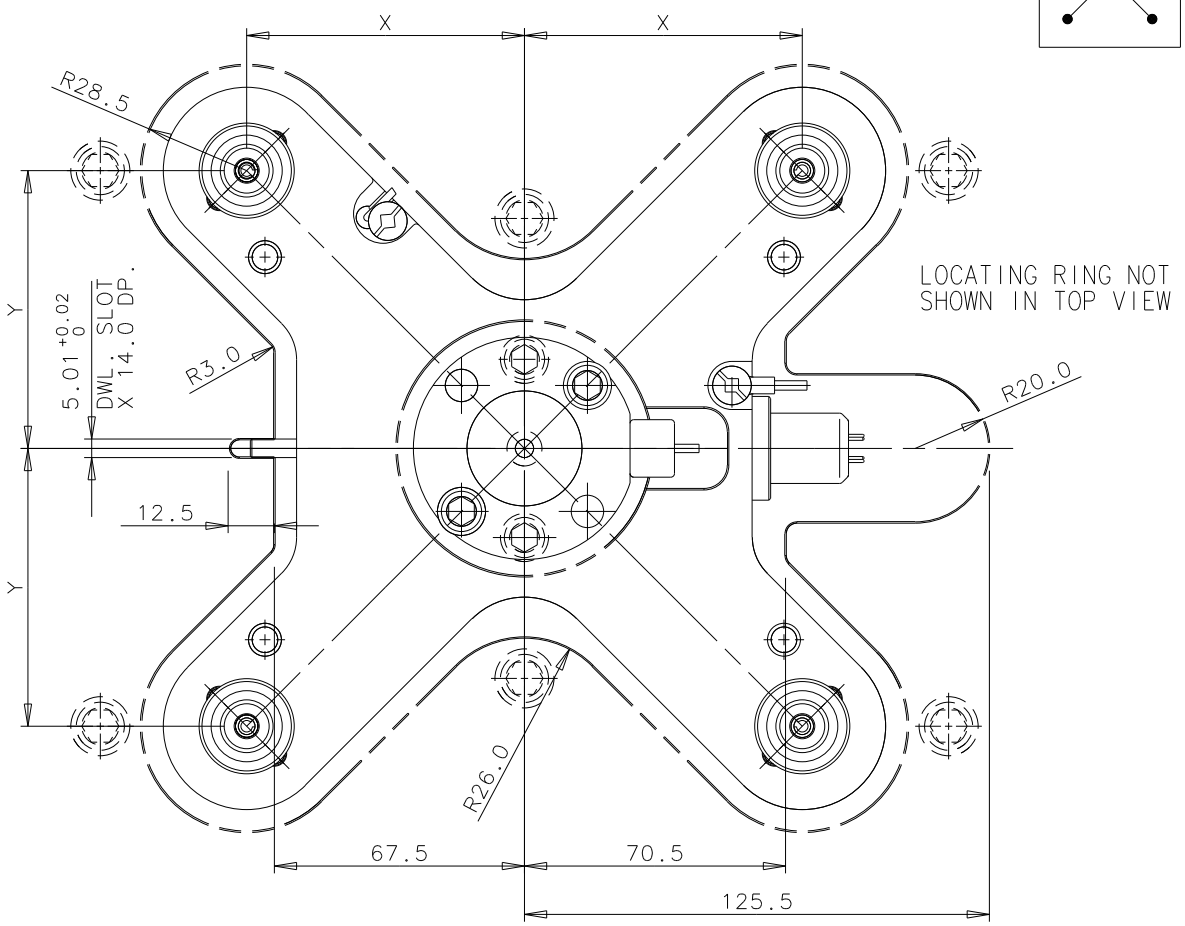
MANIFOLD
RANGES
05.02.001

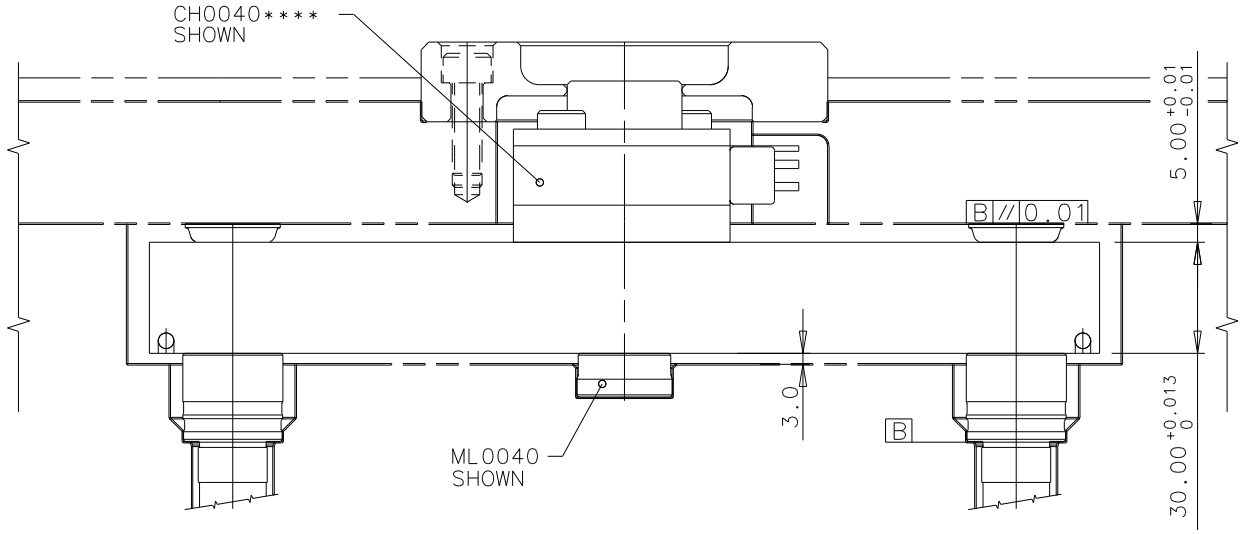
MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 75 SHOWN

NOZZLES
05.01

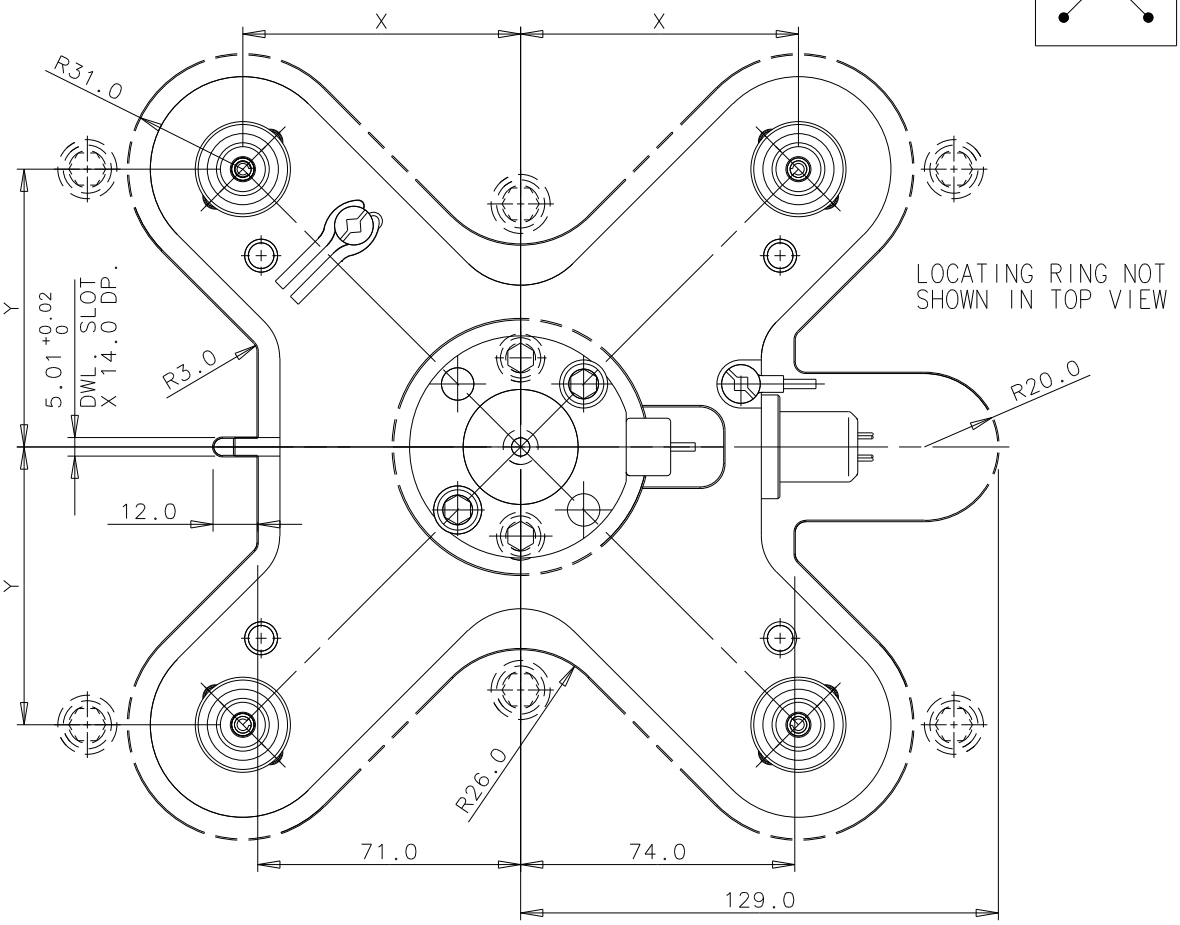
ACCESSORIES
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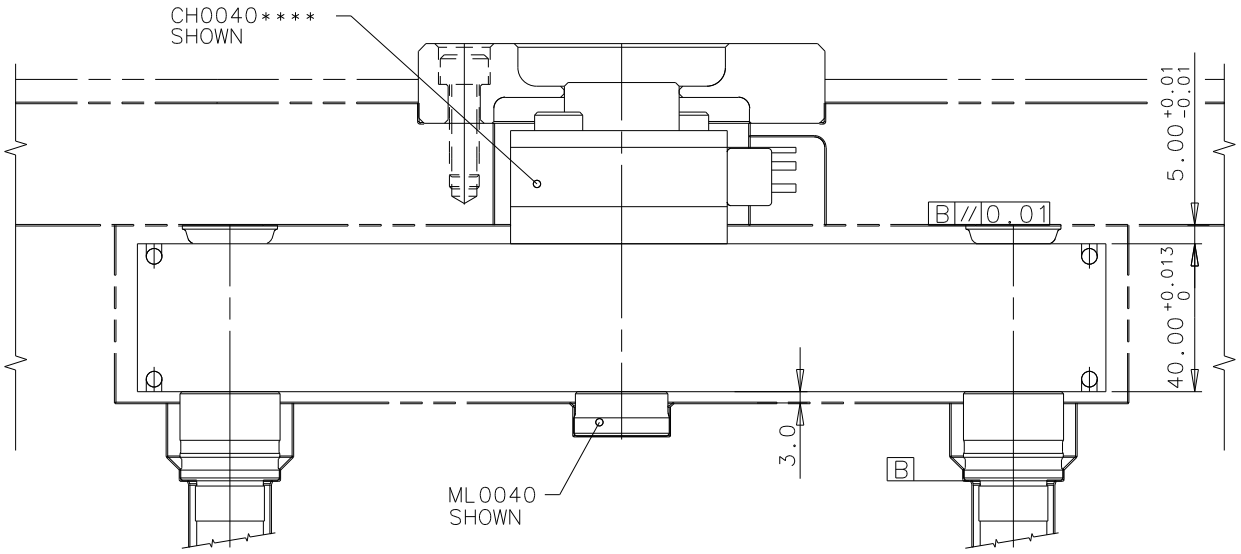
MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 75 SHOWN

NOZZLES
05.01

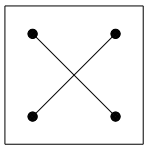
ACCESSORIES
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MANIFOLD
RANGES
05.02.001

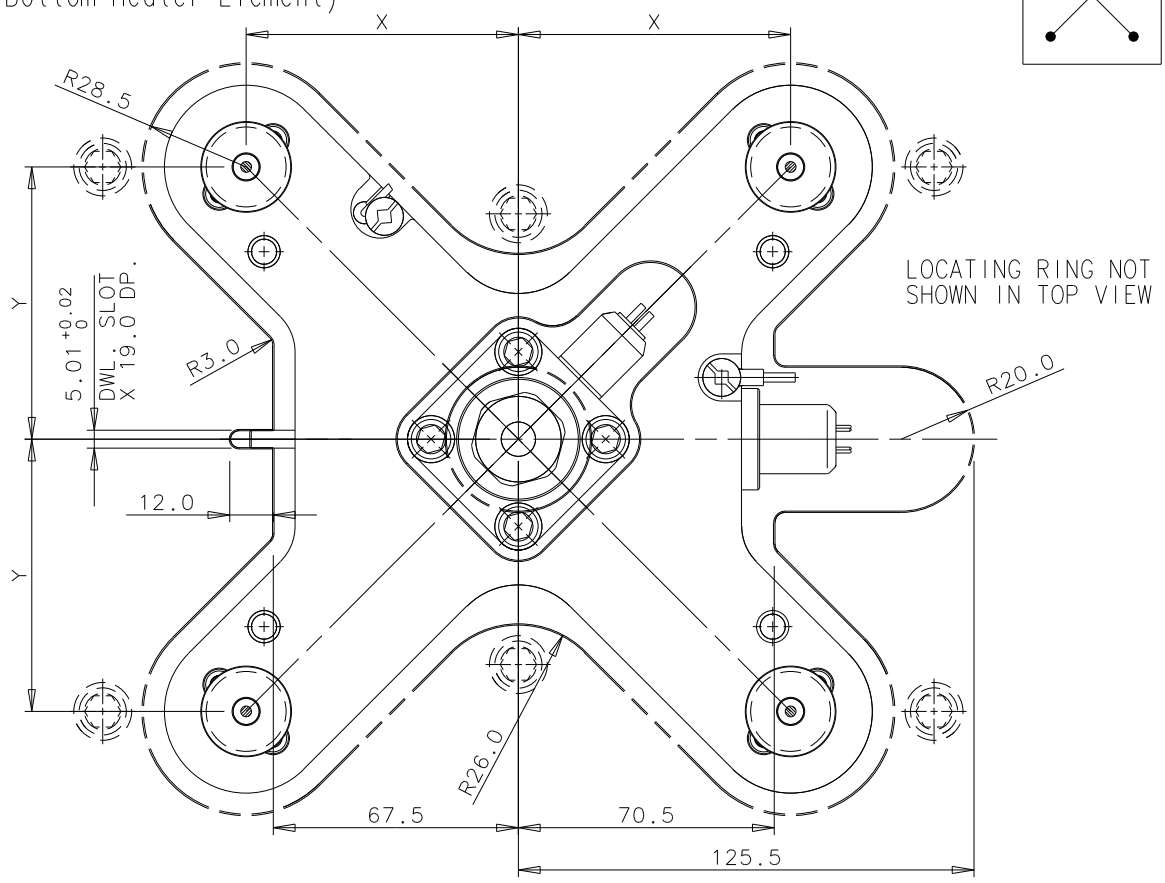
MANIFOLD
COMPONENTS
10.01

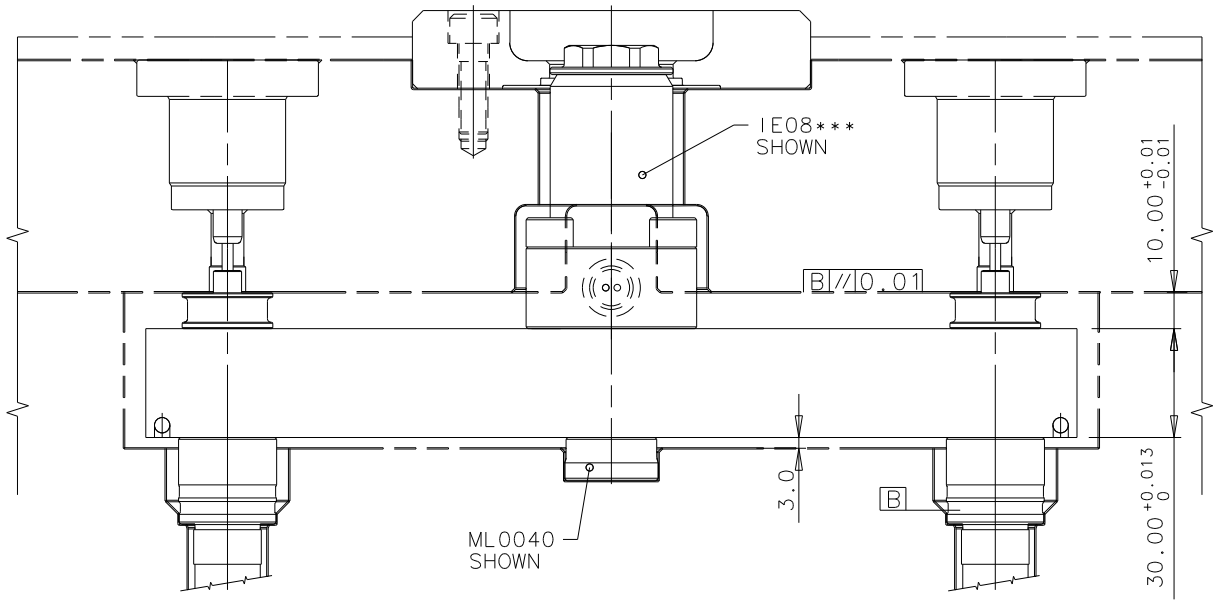
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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 75 SHOWN

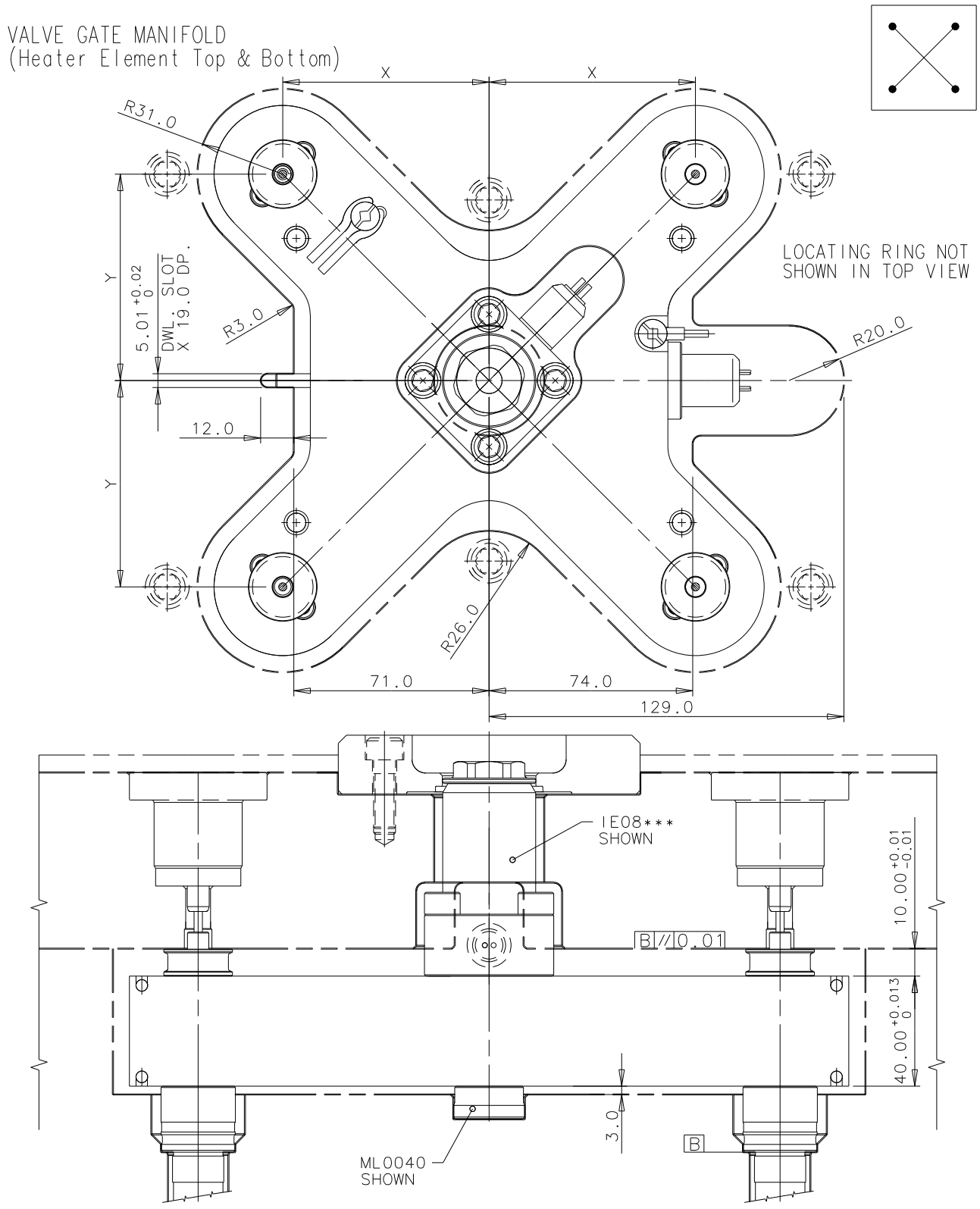
NOZZLES
05.01

ACCESSORIES
09.01

MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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X = 75 SHOWN

NOZZLES 05.01

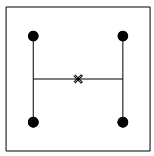
ACCESSORIES 09.01

MANIFOLD RANGES 05.02.001

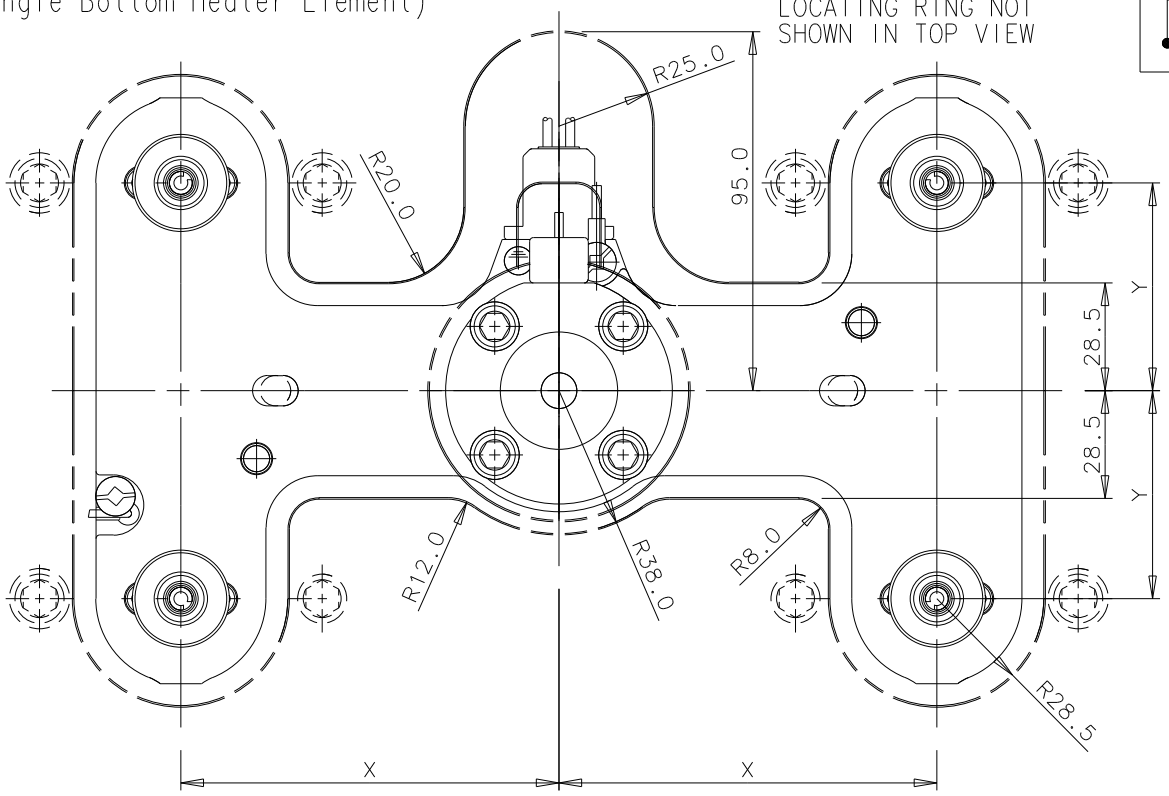
MANIFOLD COMPONENTS 10.01

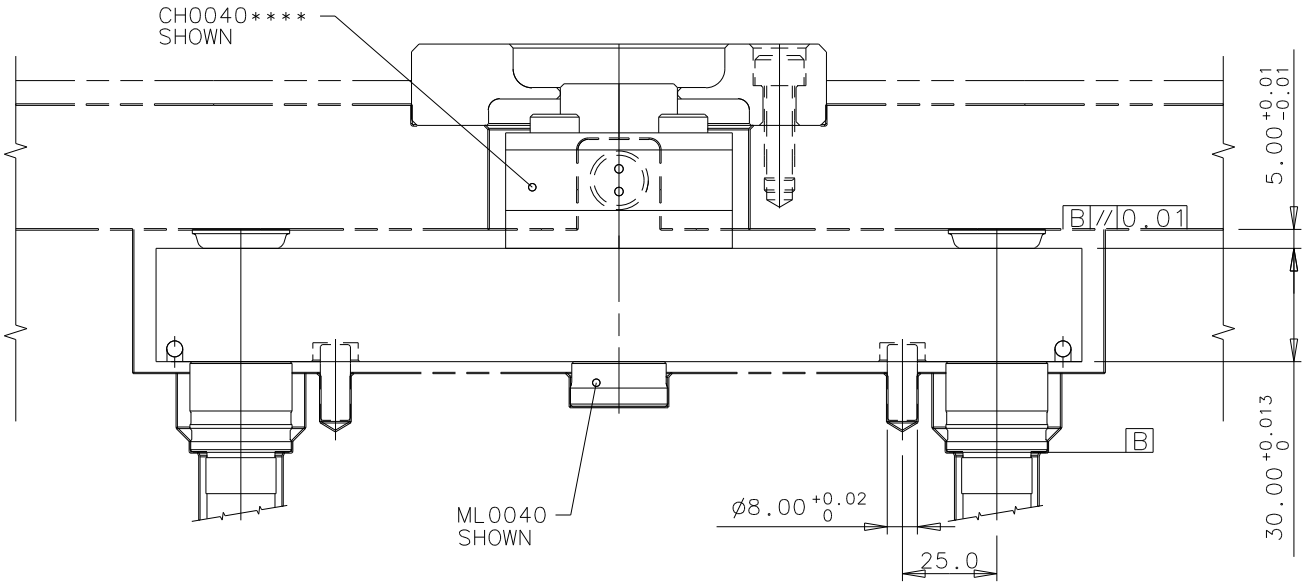
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 / Y = 55 SHOWN

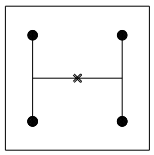
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ACCESSORIES
09.01

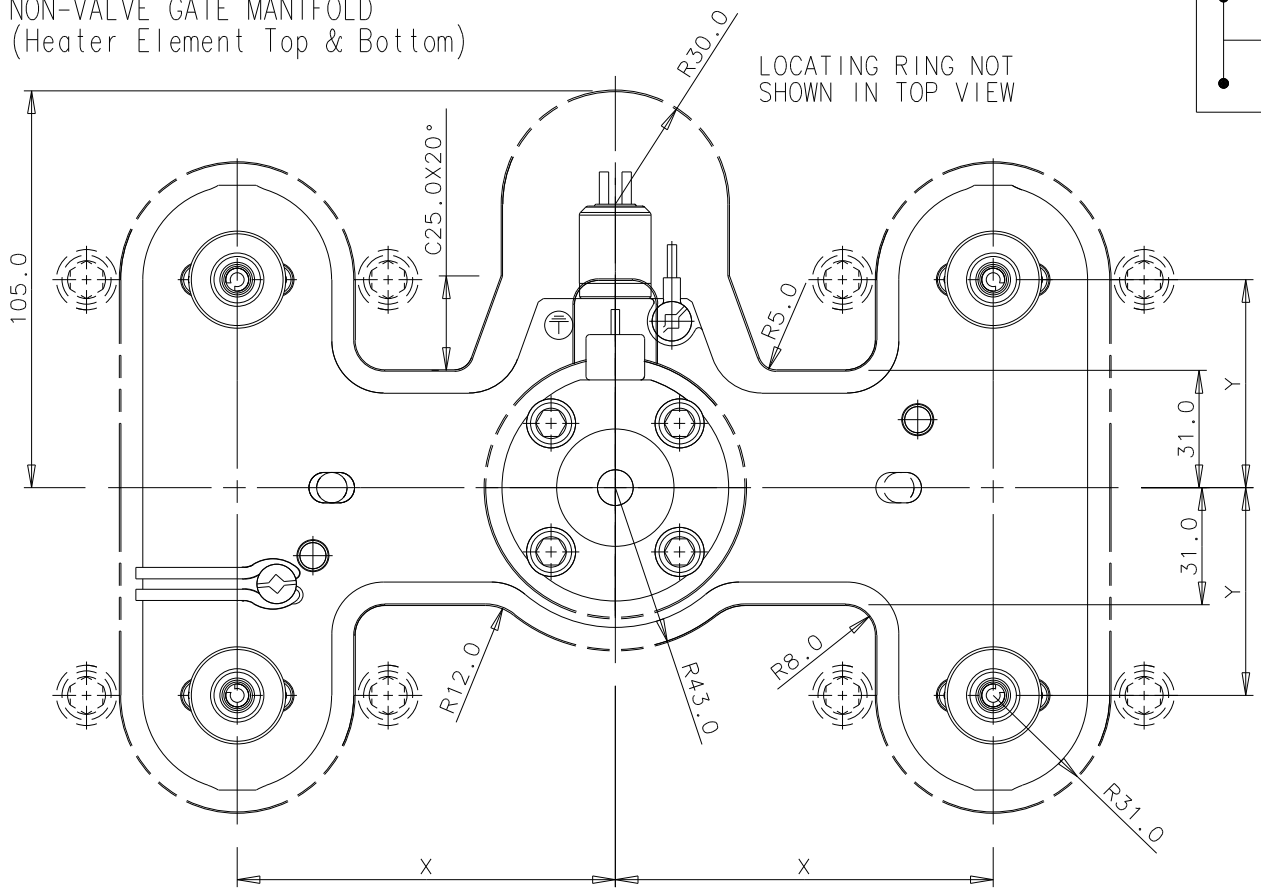
MANIFOLD
RANGES
05.02.001

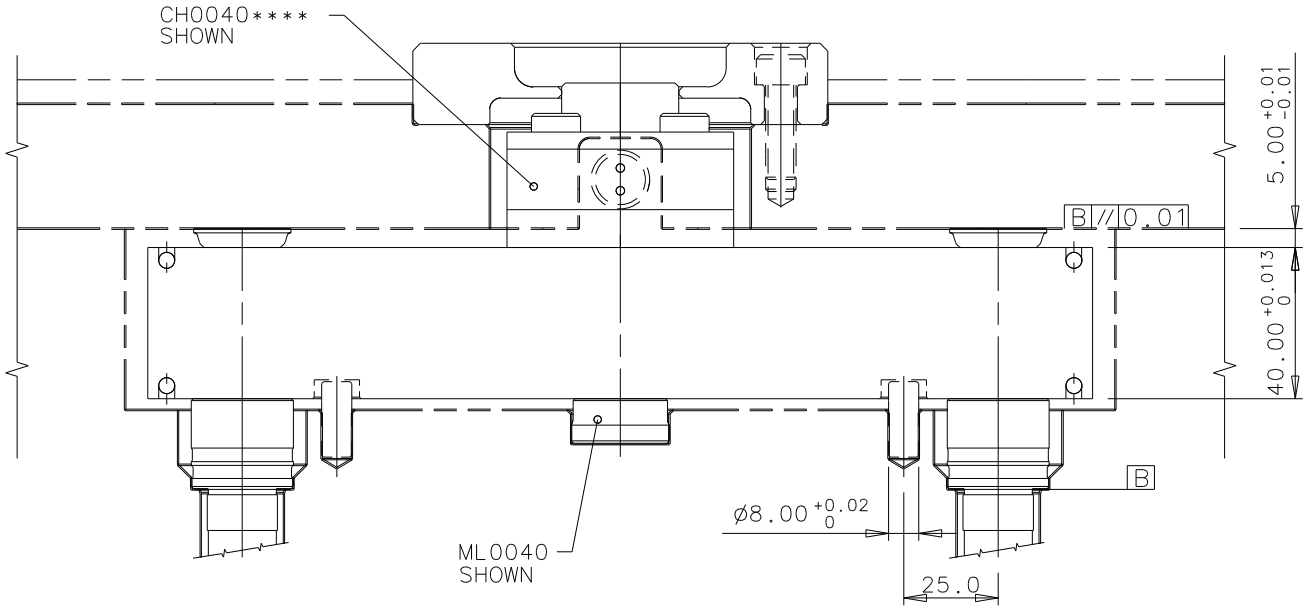
MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



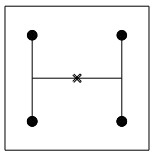


X = 100 / Y = 55 SHOWN

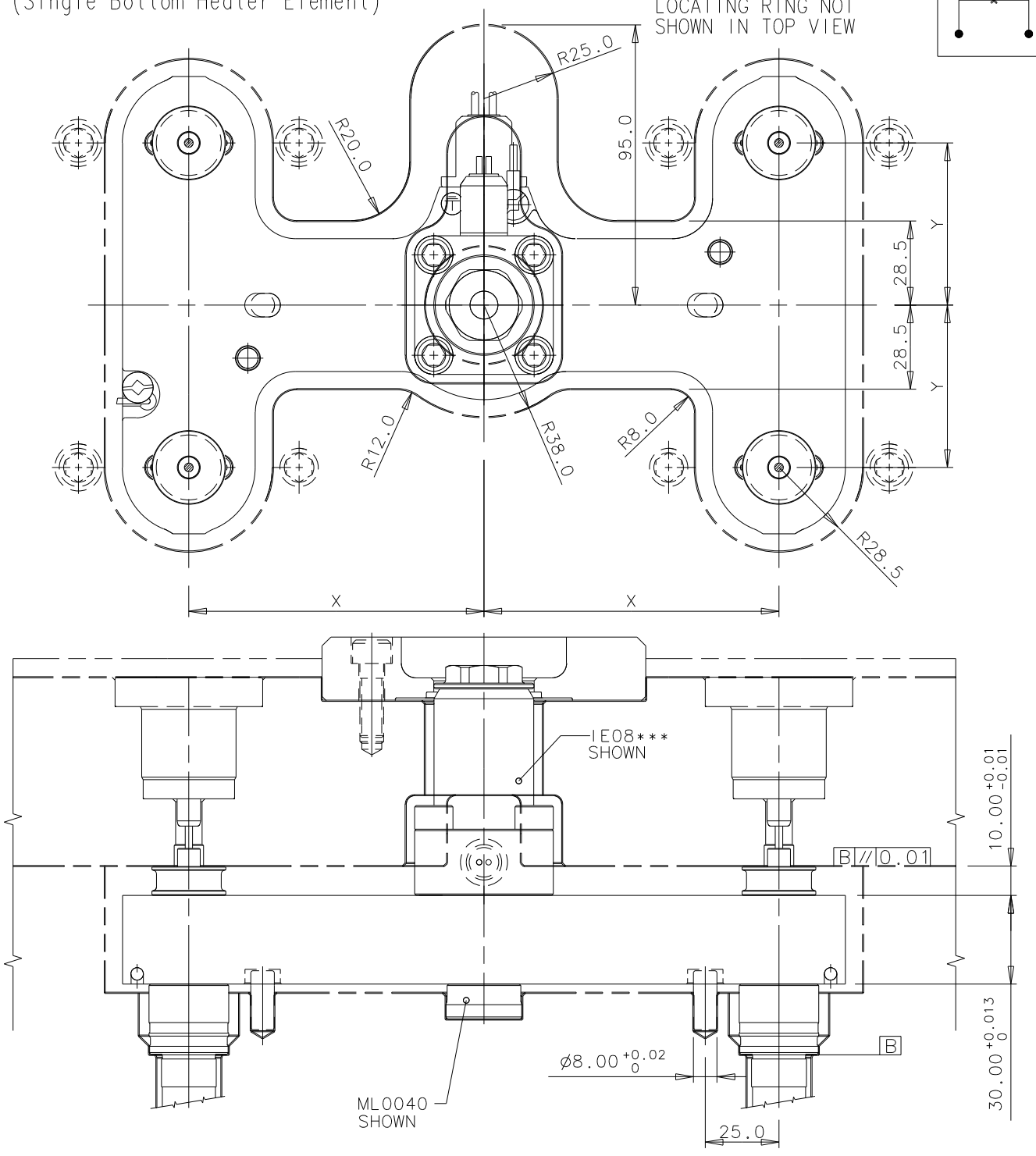
NOZZLES 05.01
ACCESSORIES 09.01
MANIFOLD RANGES 05.02.001
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)



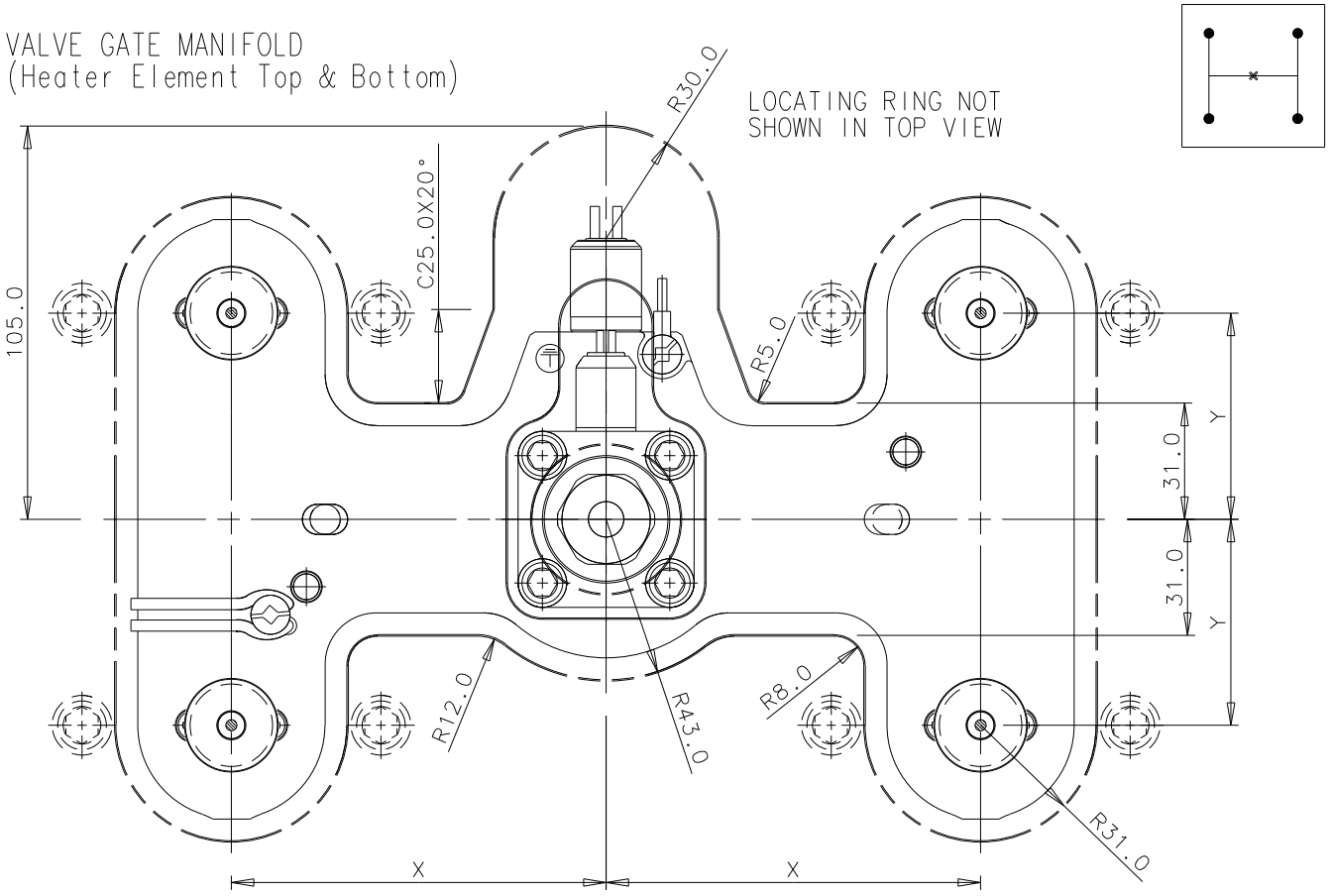
X = 100 / Y = 55 SHOWN

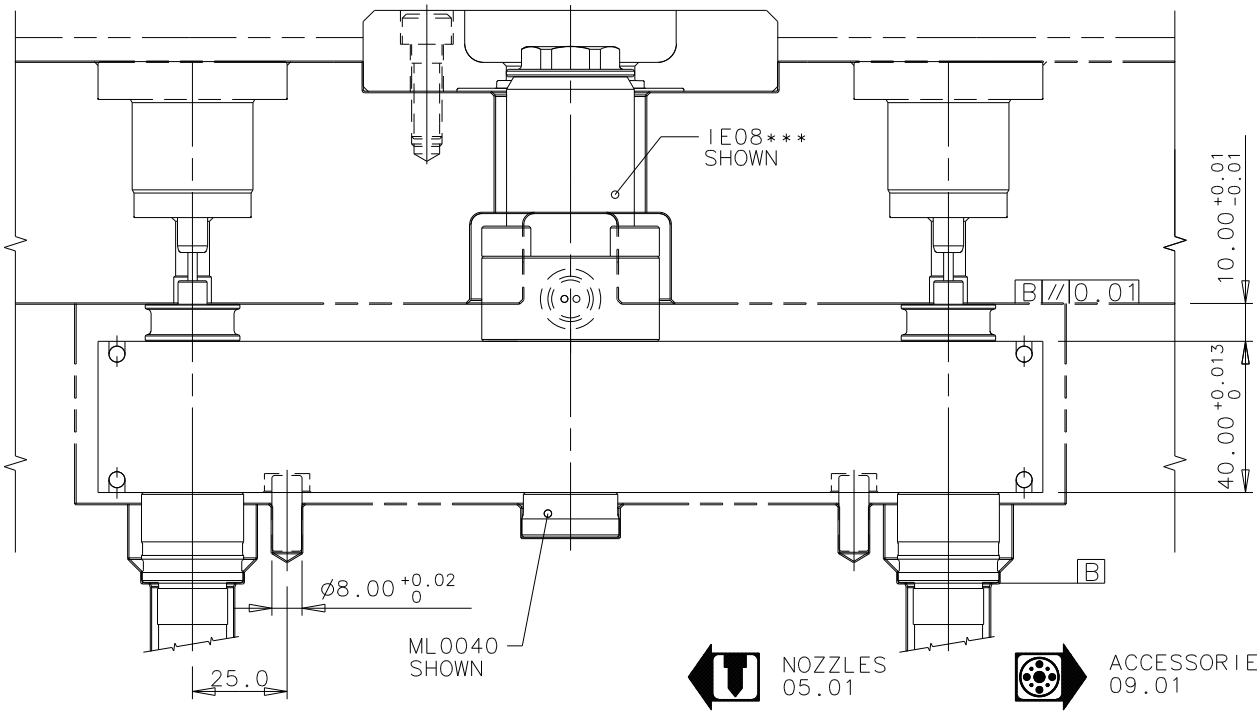
NOZZLES 05.01
ACCESSORIES 09.01
MANIFOLD RANGES 05.02.001
MANIFOLD COMPONENTS 10.01

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H Sub Manifold (Valve) w/ Top & Btm Htr

05.02.061B





X = 100 / Y = 55 SHOWN

NOZZLES 05.01

ACCESSORIES 09.01

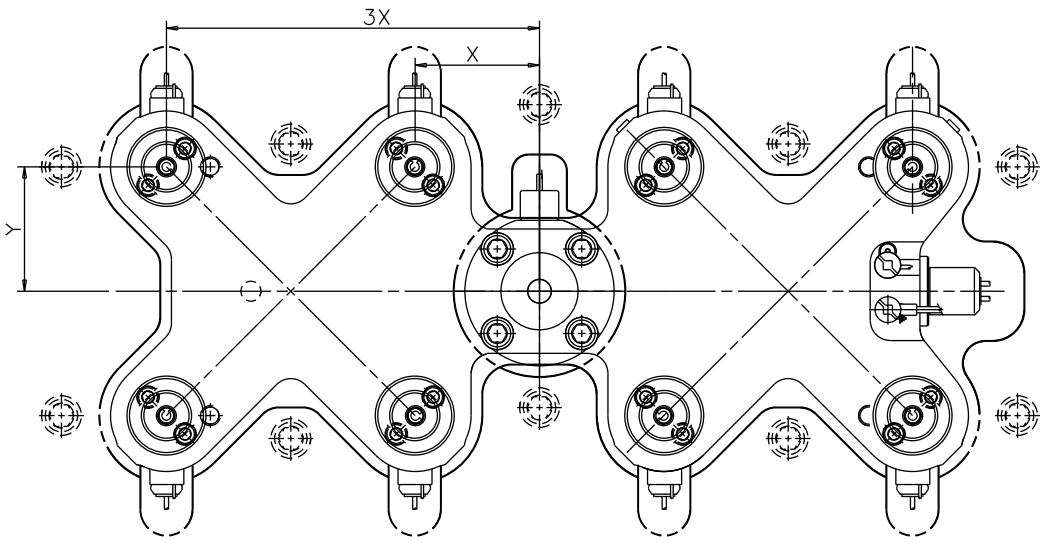
MANIFOLD RANGES 05.02.001

MANIFOLD COMPONENTS 10.01

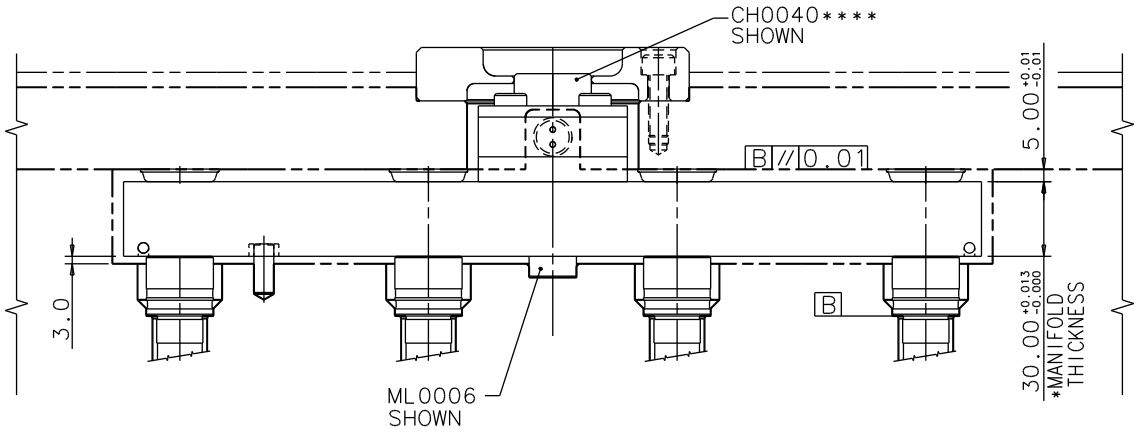
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SPRUE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X,Y = 50 SHOWN

NOZZLES 05.01

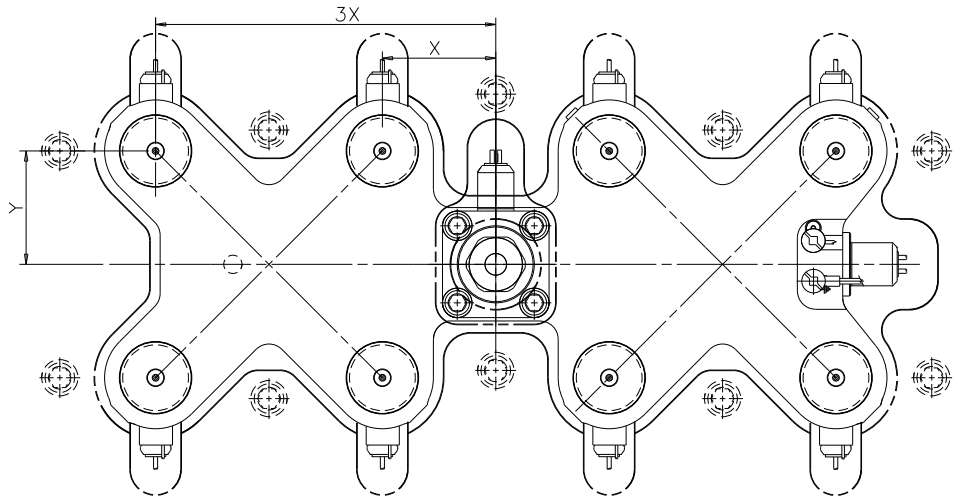
ACCESSORIES 09.01

MANIFOLD RANGES 05.02.001

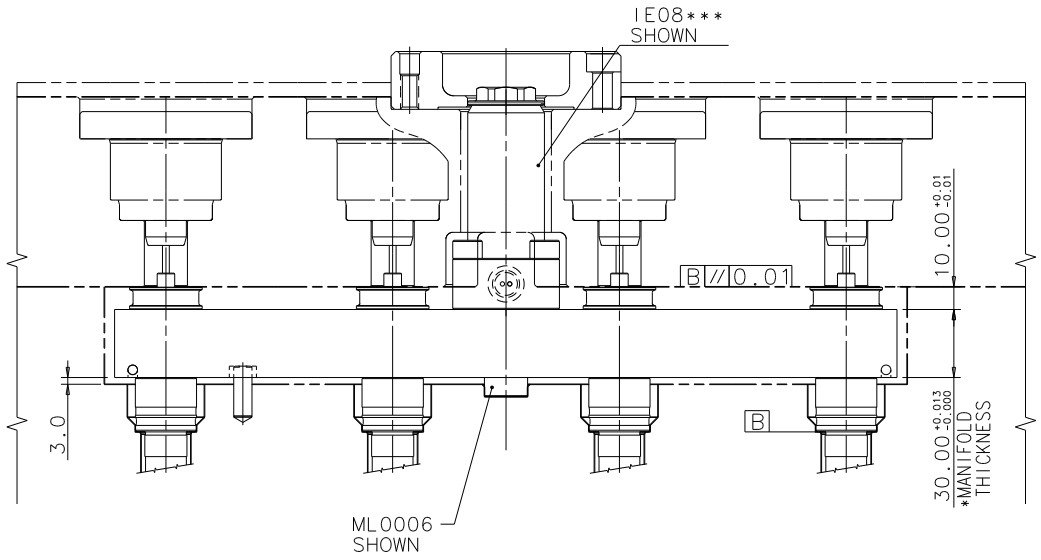
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO Ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X,Y = 50 SHOWN

NOZZLES 05.01

ACCESSORIES 09.01

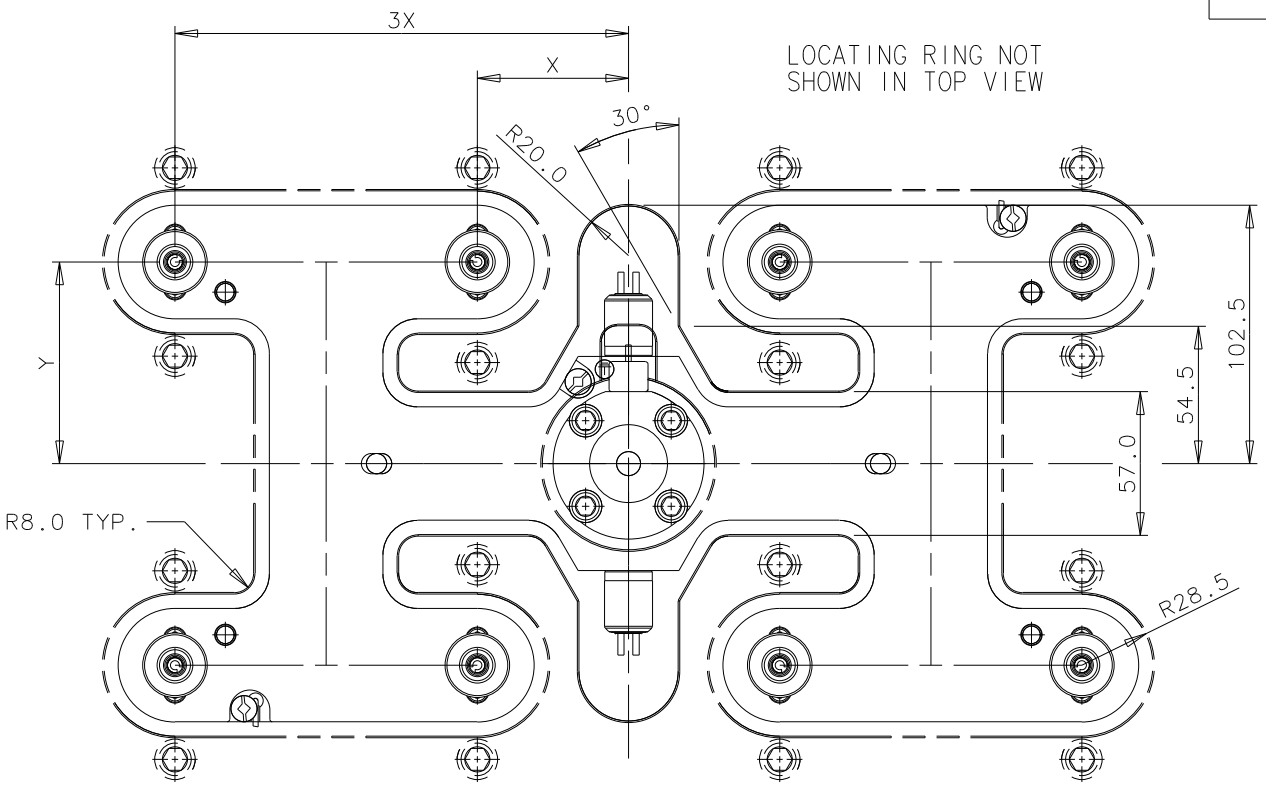
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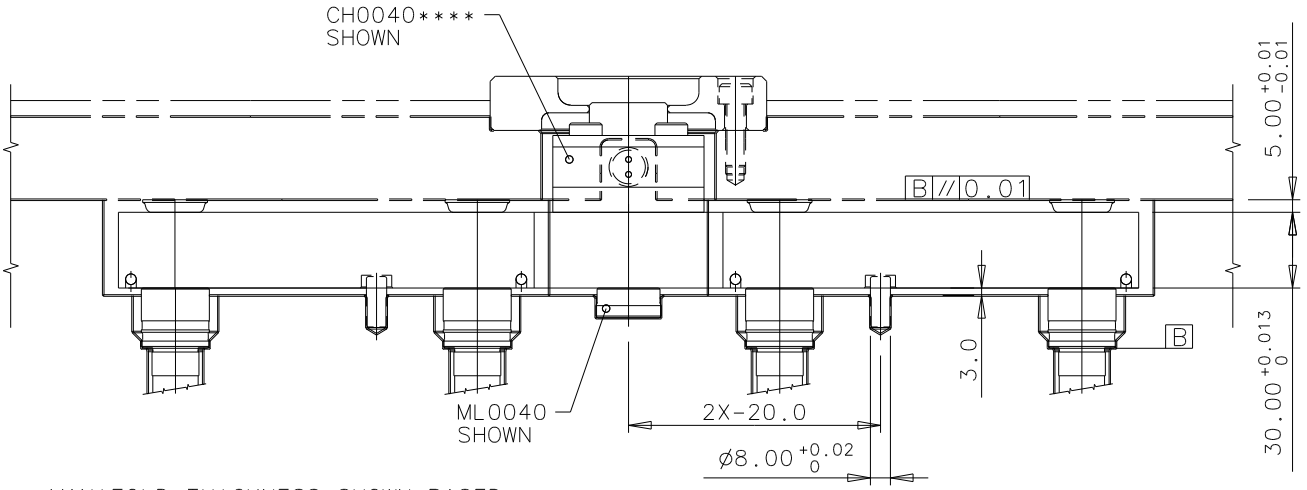
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES 05.01

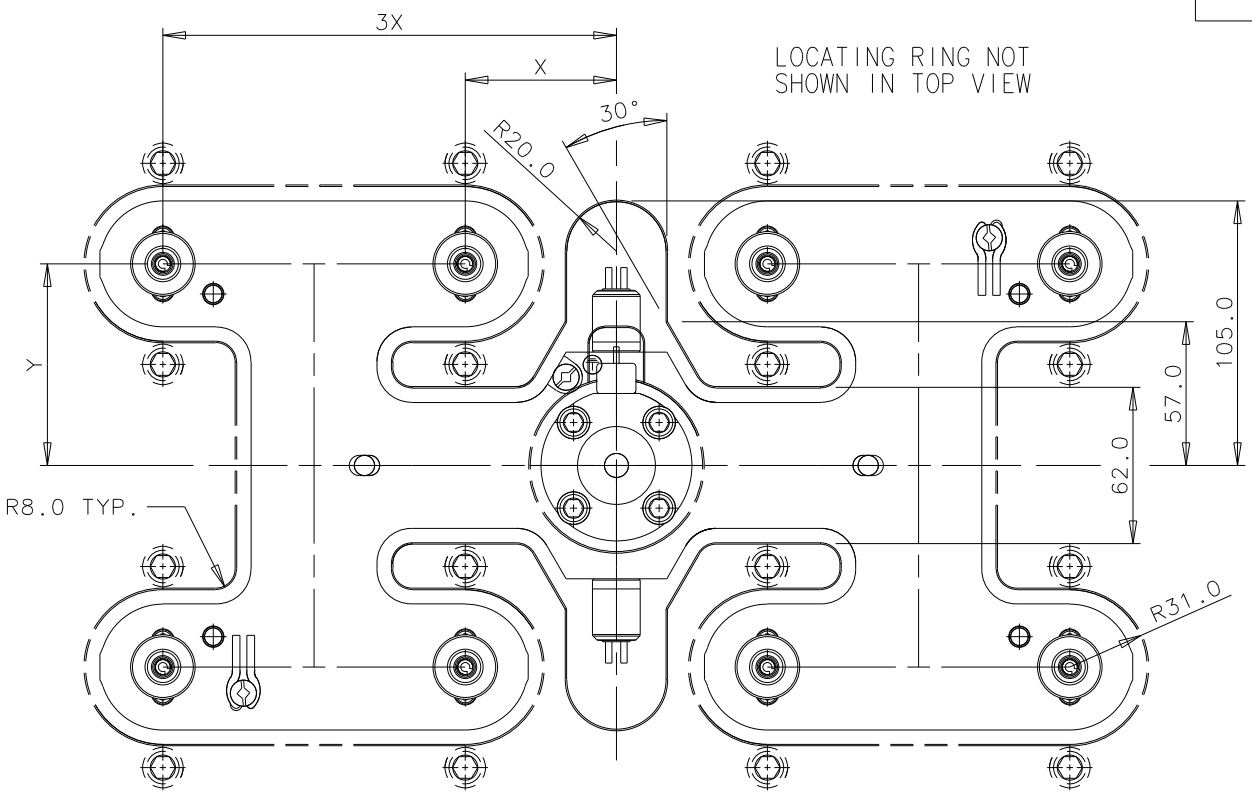
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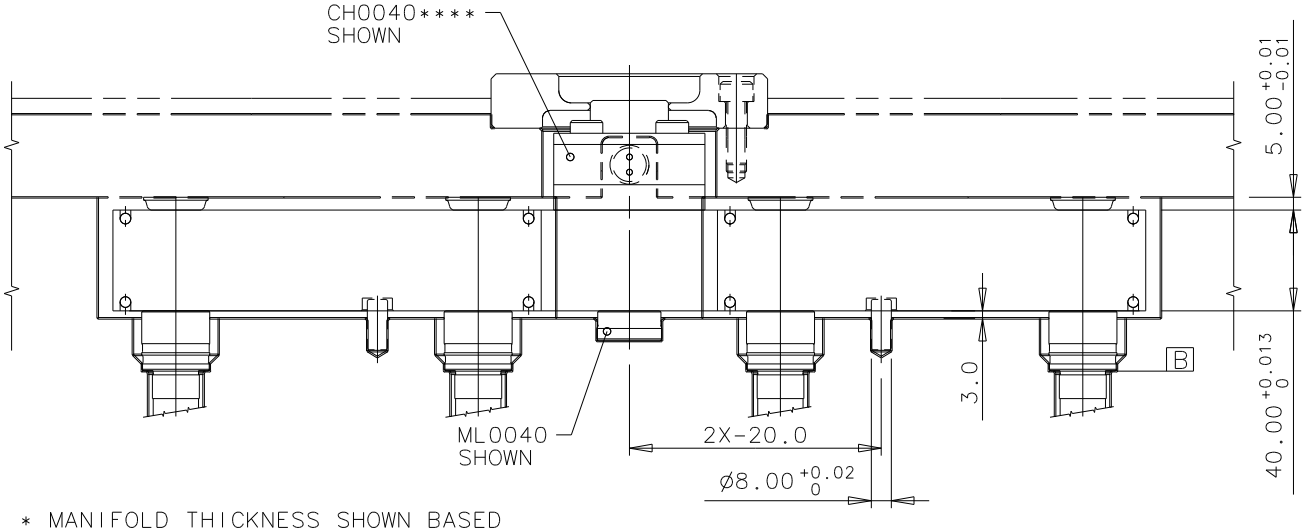
MANIFOLD RANGES 05.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES
05.01

ACCESSORIES
09.01

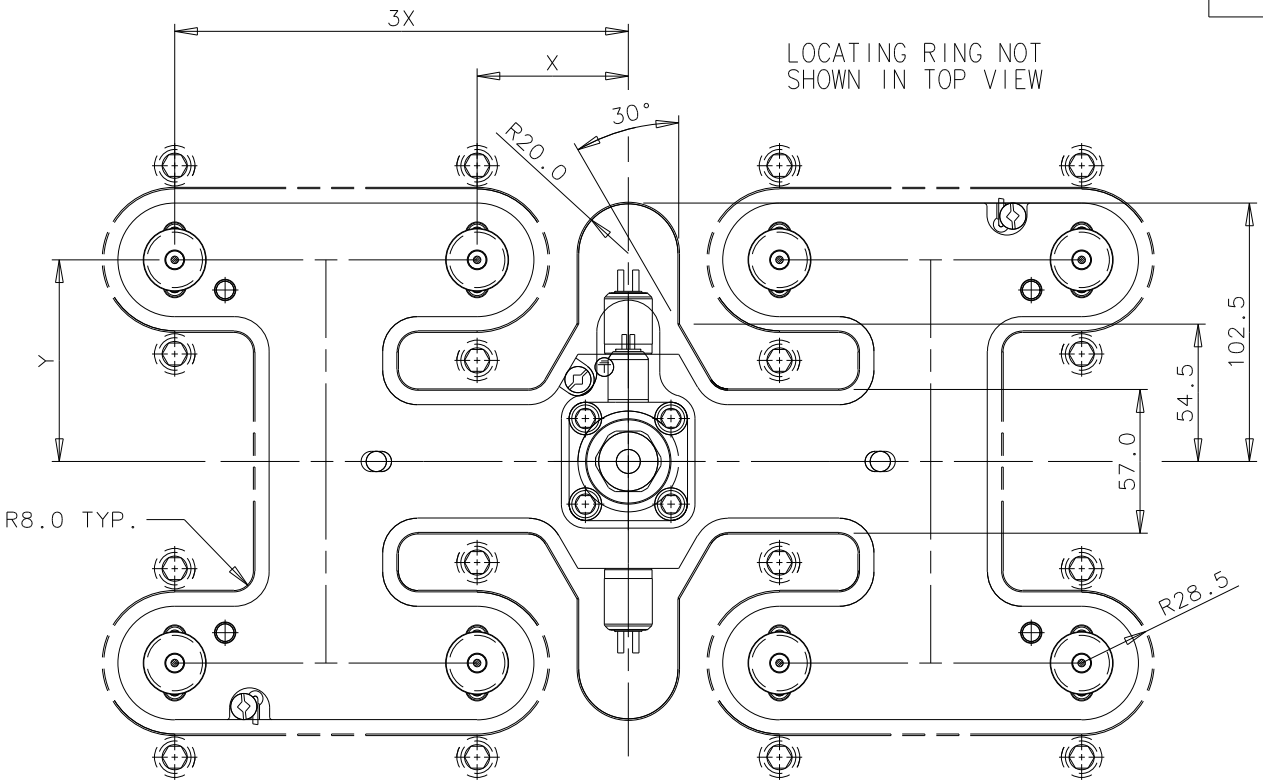
MANIFOLD
RANGES
05.02.001

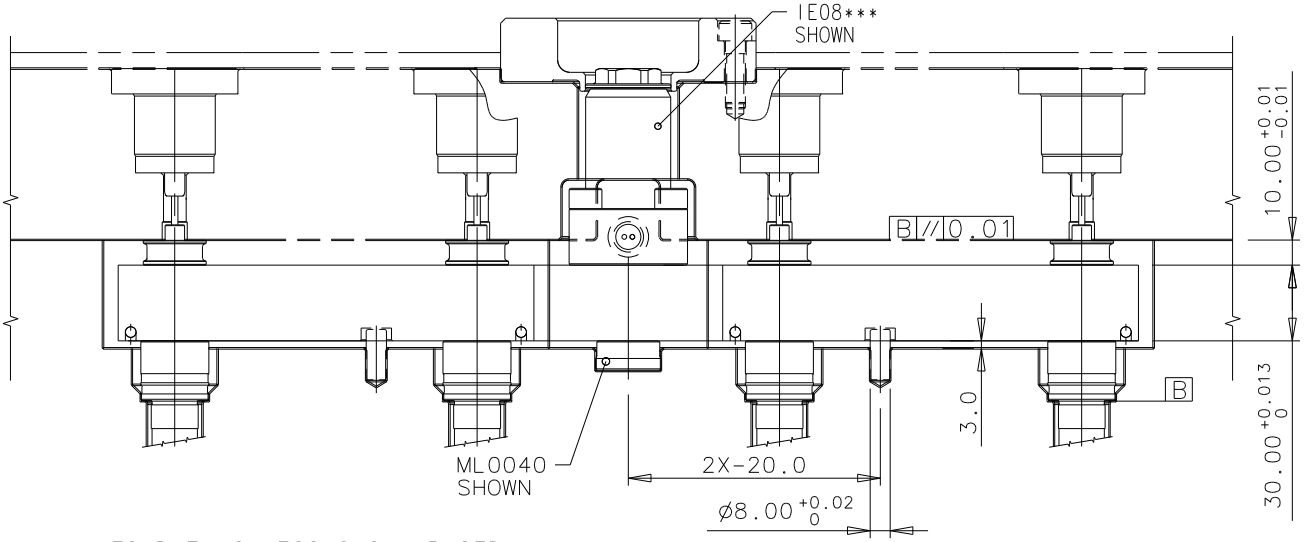
MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES 05.01

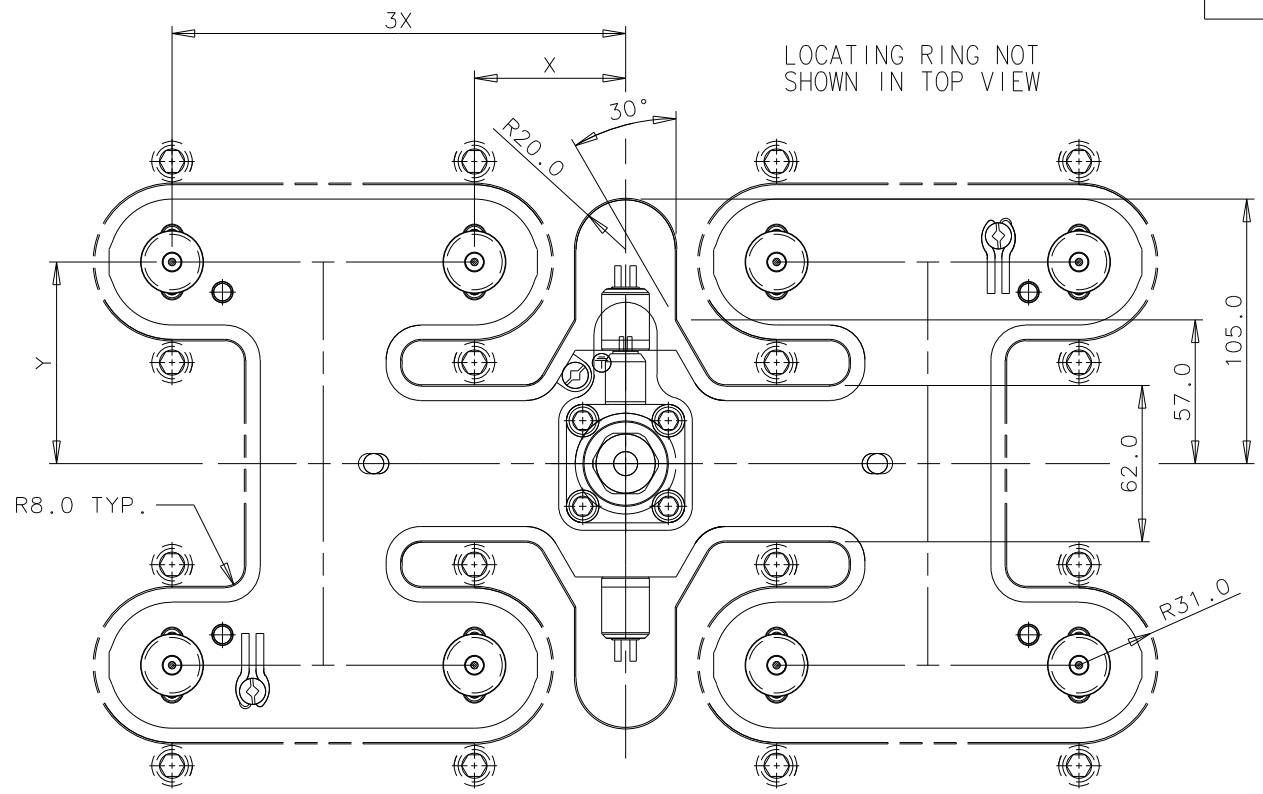
ACCESSORIES 09.01

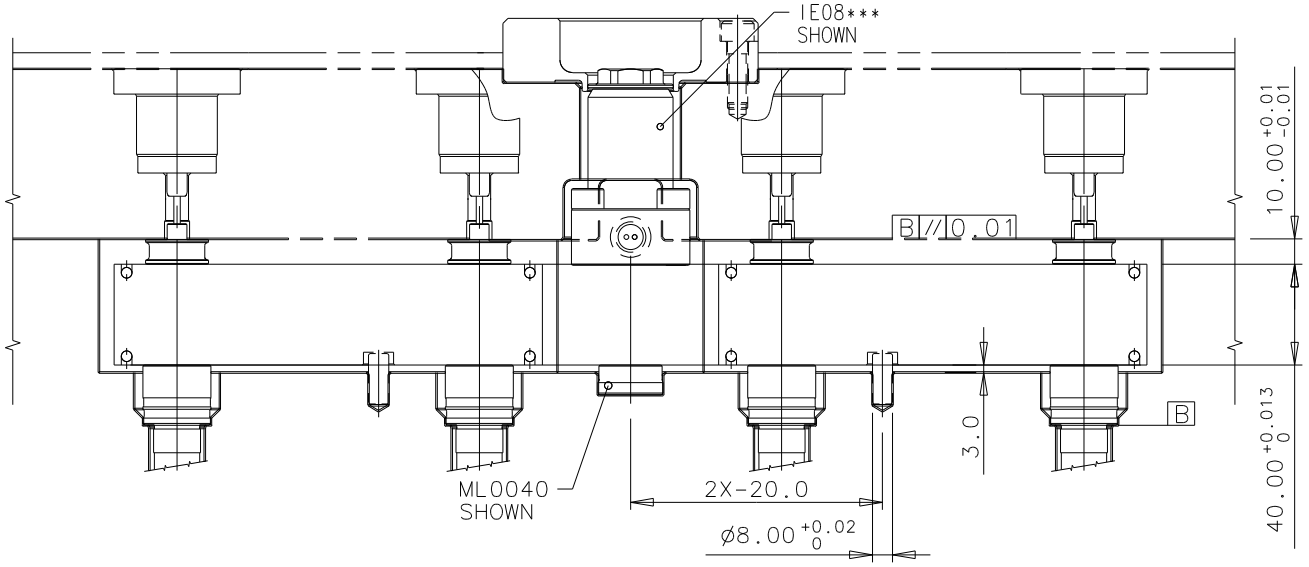
MANIFOLD RANGES 05.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 / Y = 80 SHOWN

NOZZLES
05.01

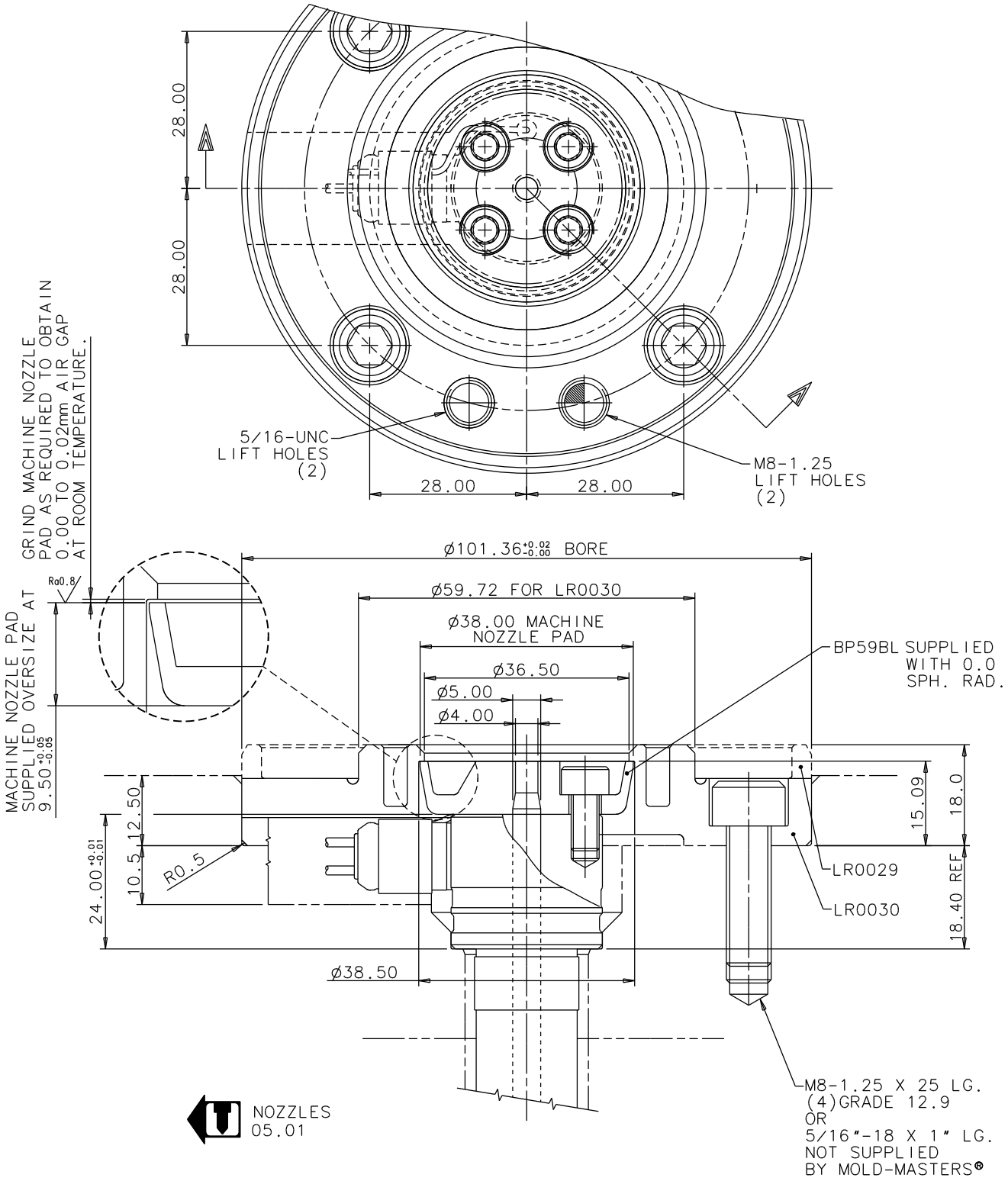
ACCESSORIES
09.01

MANIFOLD
RANGES
05.02.001

MANIFOLD
COMPONENTS
10.01

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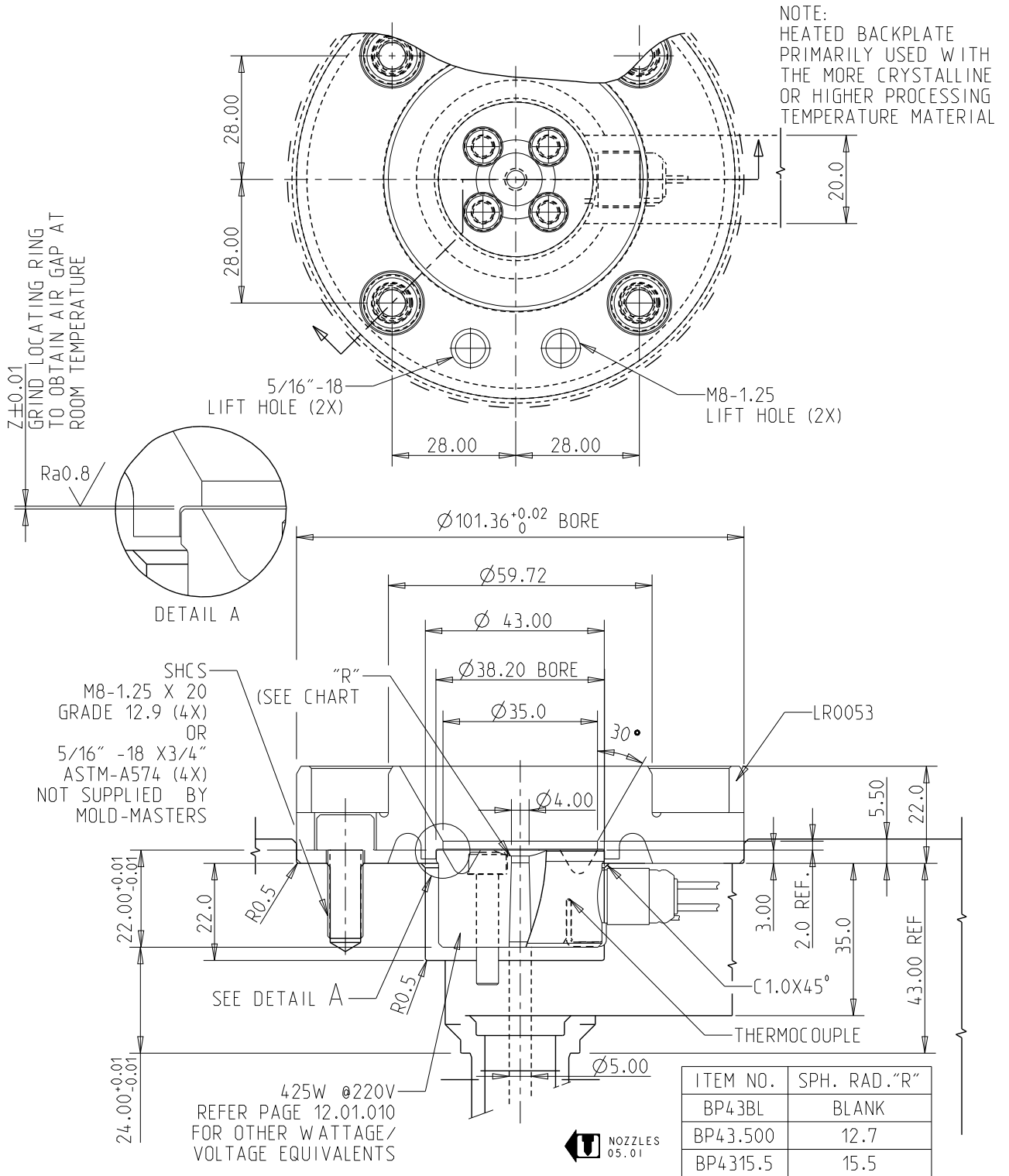
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SINGLE NOZZLE OPTIONS	
LOCATING RING #	USED WITH:
LR0029	ø101.60 BORE IN FIXED PLATTEN
LR0030	ø60.00 BORE IN FIXED PLATTEN

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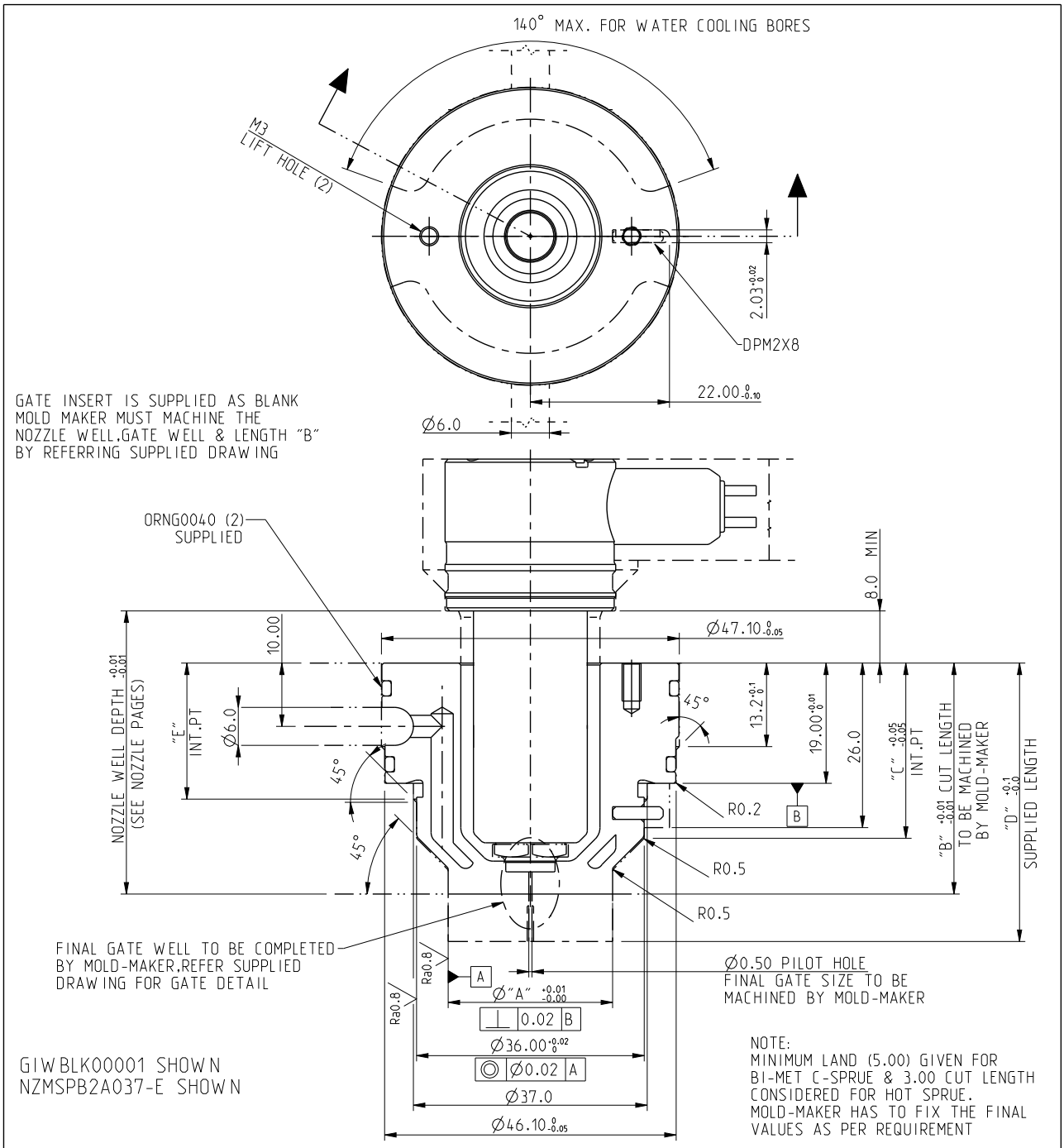


ITEM NO.	SPH. RAD."R"
BP43BL	BLANK
BP43.500	12.7
BP4315.5	15.5
BP43.750	19.1
BP4340.0	40.0

SINGLE NOZZLE OPTIONS	
LOCATING RING#	USED WITH:
LR0053	Ø101.60 BORE IN FIXED PLATEN

	ΔT=Tp-Tm (PROCESS TEMP.-MOLD TEMP.)			
GAP AT ROOM TEMPERATURE	150°C	200°C	250°C	300°C
"Z" +/-0.01	0.02	0.05	0.07	0.09

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WATER COOLED GATE INSERT OPTIONS										
GATING STYLE	GIWBLK00001					GIWBLK00002				
	"A"	"B"	"C"	"D"	"E"	"A"	"B"	"C"	"D"	"E"
E-TYPE	25.00	36.50	27.80	44.0	21.5	25.00	66.50	57.80	74.0	51.5
F-TYPE	26.00	35.00				26.00	65.00			
BI-MET C-SPRUE	26.00	38.50 (SEE NOTE)				26.00	68.50 (SEE NOTE)			
HOT SPRUE	26.00	36.00 (SEE NOTE)				26.00	66.00 (SEE NOTE)			
BI-MET C-VALVE	26.00	35.50				26.00	65.50			
HOT VALVE	26.00	35.00				26.00	65.00			
ACCU-VALVE CX	24.00	36.85				24.00	66.85			
ACCU-VALVE MX	24.00	36.80				24.00	66.80			
ACCU-VALVE LX	26.00	35.00				26.00	65.00			

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GATING STYLE	PAGE	GATE Ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
E-TYPE TORPEDO (VISCO)	06.01.020	Ø0.60 - Ø1.60	TSM018-1 + TPM004-2	TSM018P7 FOR PROCESSING TEM. <280°C
			TSM018-1 + TPM004-1	TSM018P1 FOR PROCESSING TEMP. >280°C
E-TYPE TORPEDO (NON-VISCO)	06.01.025	Ø0.60 - Ø1.60	TSM196 + TPM004-2	TSM196P2 FOR PROCESSING TEMP. <280°C
			TSM196 + TPM004-1	TSM196P FOR PROCESSING TEMP. >280°C
F-TYPE TORPEDO *APPLICATION DEPENDANT AND SUBJECTED TO TSE REVIEW	06.01.030	Ø1.00	*TSM019 + TPM005-2	TSM019P3 FOR PROCESSING TEMP. <280°C
			TSM317+ TPM084 (WEAR RESISTANT)	TSM317P FOR PROCESSING TEMP. >280°C
		Ø1.20	*TSM057 + TPM005-2	TSM057P3 FOR PROCESSING TEMP. <280°C
			TSM318+ TPM084 (WEAR RESISTANT)	TSM0318P FOR PROCESSING TEMP. >280°C
		Ø1.40	*TSM058 + TPM005-2	TSM058P3 FOR PROCESSING TEMP. <280°C
			TSM319+ TPM084 (WEAR RESISTANT)	TSM319P FOR PROCESSING TEMP. >280°C
		Ø1.60	*TSM059 + TPM005-2	TSM059P3 FOR PROCESSING TEMP. <280°C
			TSM320+ TPM084 (WEAR RESISTANT)	TSM320P FOR PROCESSING TEMP. >280°C
BI-METALLIC C-SPRUE	06.01.040	Ø1.50	TSM020-1 + TSLM010	TSM020P22
		Ø2.00	TSM020-1 + TSLM011	TSM020P23
		Ø2.50	TSM020-1 + TSLM194	TSM020P24
HOT SPRUE	06.01.050	Ø1.00 - Ø2.50	TSM021 (Ø1.0 GATE SUPPLIED)	
EXTENDED HOT SPRUE	06.01.060	Ø1.00 - Ø2.50	TSM043 (Ø1.0 GATE SUPPLIED)	
SPIRAL HOT TIP	06.01.070	Ø0.60 - Ø1.60	TSM047	
			TSM181	
BI-METALLIC C-VALVE	06.01.080	Ø1.50 - Ø2.00	TSM020-1 + TSLM012	TSM020P7
HOT VALVE	06.01.100	Ø1.50	TSM022 (WITH 0.25MM EXTRA LENGTH)	
			TSM022F (LENGTH FINISHED)	
		Ø2.00	TSM023 (WITH 0.25MM EXTRA LENGTH)	
ACCU-VALVE CX	06.01.105	Ø2.50 (MAX.)	TSM107-1A	
ACCU-VALVE MX	06.01.108	Ø2.20 (MAX.)	TSM247A1	
CYLINDRICAL HOT VALVE (ACCU-VALVE LX)	06.01.110	Ø1.50	TSM300 (SUPPLIED WITH "H"=0.75)	
			TSM353 (SUPPLIED WITH "H"=3.00)	
		Ø2.00	TSM301 (SUPPLIED WITH "H"=0.75)	
			TSM354 (SUPPLIED WITH "H"=3.00)	
CYLINDRICAL HOT VALVE-CP	06.01.115	Ø1.00	TSM395 (WITH 0.25MM EXTRA LENGTH)	
			TSM395F (LENGTH FINISHED)	
ACCU-VALVE GX	06.01.120	Ø1.00	TSM400A (WITH 0.25MM EXTRA LENGTH)	
			TSM400AF (LENGTH FINISHED)	

FOR ADDITIONAL GATE SEAL OPTIONS, PLEASE REFER TO PAGE MS06.01.001-1

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GATING STYLE		PAGE	GATE ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
TIT-EDGE		06.01.130	ø 1.00 & ø 1.50	TS0434 - TS0437	
		06.01.140	CONFIGURATIONS		
MULTI TIP TORPEDO		06.01.160	ø 0.60 - ø 1.20	TS0725 + TP0145-3	TS0725P1
		06.01.170	CONFIGURATIONS		
MELT DISK MD40		06.01.180	ø 0.60 - ø 1.00	TSM102 + TPM027	TSM102P
		06.01.185	CONFIGURATIONS		
MELT DISK MD56		06.01.190	ø 0.60 - ø 1.00	TSM102 + TPM027	TSM102P
		06.01.195	CONFIGURATIONS		
MELT DISK MD60	(15°)	06.01.200	ø 0.60 - ø 1.00	TSM103 + TPM028	TSM103P
	(30°)	06.01.205	ø 0.60 - ø 1.00	TSM103 + TPM028	TSM103P
	(45°)	06.01.210	ø 0.60 - ø 1.00	TSM103 + TPM028	TSM103P
	(60°)	06.01.215	ø 0.60 - ø 1.00	TSM103 + TPM028	TSM103P
		06.01.220	CONFIGURATIONS		
MELT-CUBE		06.01.235	CONFIGURATIONS		
	HORIZONTAL	06.01.240A	ø 0.60 - ø 1.00	TSM366 + TPM097	TSM366P
		06.01.245A			
		06.01.250A			
		06.01.255A			
		06.01.282A			
		06.01.295A			
	ANGLED	06.01.240B	ø 0.60 - ø 1.00	TSM269 + TPM066-1	TSM269P
		06.01.245B			
		06.01.250B			
		06.01.255B			
		06.01.260			
		06.01.265			
		06.01.270			
		06.01.275			
		06.01.280			
		06.01.282B			
	MISC. PAGES	06.01.237			
		06.01.287			
		06.01.290			
		06.01.295B			
		06.01.300			

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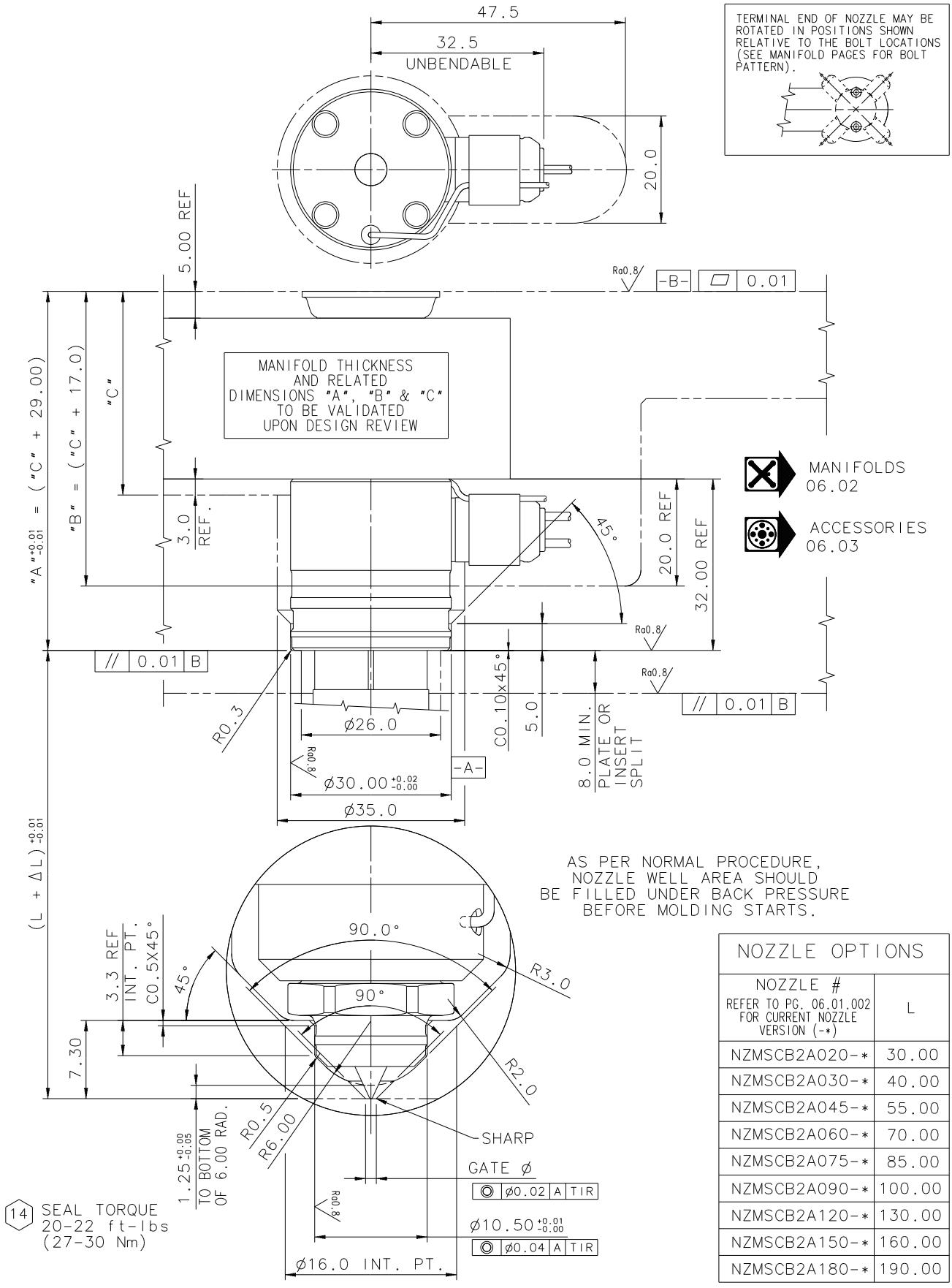
NOZZLE #	**POWER @ 220V
NZMSCB*A020-F	250W
NZMSCB*A030-F	250W
NZMSCB*A045-F	250W
NZMSCB*A060-F	250W
NZMSCB*A075-F	300W
NZMSCB*A090-F	350W
NZMSCB*A120-F	350W
NZMSCB*A150-F	350W
NZMSCB*A180-F	350W
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	

NOZZLE # (FOR MELT DISKS)	**POWER @ 220V
NZMSCMD*020	450W
NZMSCMD*030	300W
NZMSCMD*045	300W
NZMSCMD*060	300W
NZMSCMD*075	300W
NZMSCMD*090	300W
NZMSCMD*120	300W
NZMSCMD*150	350W
NZMSCMD*180	350W
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	

APPLICABLE GATING METHODS	NOZZLE #	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
E-TYPE TORPEDO	NZMSCB2A020-F	0.103	0.141	0.170	0.214
	NZMSCB2A030-F	0.120	0.165	0.203	0.250
	NZMSCB2A045-F	0.146	0.200	0.251	0.306
	NZMSCB2A060-F	0.172	0.235	0.297	0.360
	NZMSCB2A075-F	0.196	0.268	0.342	0.414
	NZMSCB2A090-F	0.222	0.301	0.386	0.465
	NZMSCB2A120-F	0.271	0.365	0.469	0.565
	NZMSCB2A150-F	0.317	0.428	0.545	0.660
	NZMSCB2A180-F	0.363	0.487	0.615	0.748
SPIRAL HOT TIP	NZMSCB2A020-F	0.073	0.130	0.185	0.245
	NZMSCB2A030-F	0.106	0.168	0.232	0.300
	NZMSCB2A045-F	0.152	0.223	0.300	0.381
	NZMSCB2A060-F	0.195	0.275	0.365	0.458
	NZMSCB2A075-F	0.236	0.325	0.427	0.531
	NZMSCB2A090-F	0.273	0.373	0.486	0.601
	NZMSCB2A120-F	0.339	0.461	0.595	0.729
	NZMSCB2A150-F	0.392	0.539	0.691	0.843
	NZMSCB2A180-F	0.434	0.607	0.776	0.942
F-TYPE TORPEDO BI-METALLIC C-SPRUE HOT SPRUE EXTENDED HOT SPRUE BI-METALLIC C-VALVE HOT VALVE CYL. HOT VALVE ACCU-VALVE CX ACCU-VALVE MX CYL. HOT VALVE - CP ACCU-VALVE GX MELT DISK (ALL)	NZMSC***020-F	0.127	0.180	0.225	0.277
	NZMSC***030-F	0.140	0.196	0.248	0.306
	NZMSC***045-F	0.159	0.222	0.285	0.351
	NZMSC***060-F	0.180	0.250	0.323	0.396
	NZMSC***075-F	0.200	0.277	0.360	0.442
	NZMSC***090-F	0.223	0.307	0.399	0.489
	NZMSC***120-F	0.271	0.370	0.478	0.585
	NZMSC***150-F	0.324	0.437	0.560	0.682
	NZMSC***180-F	0.380	0.510	0.644	0.781

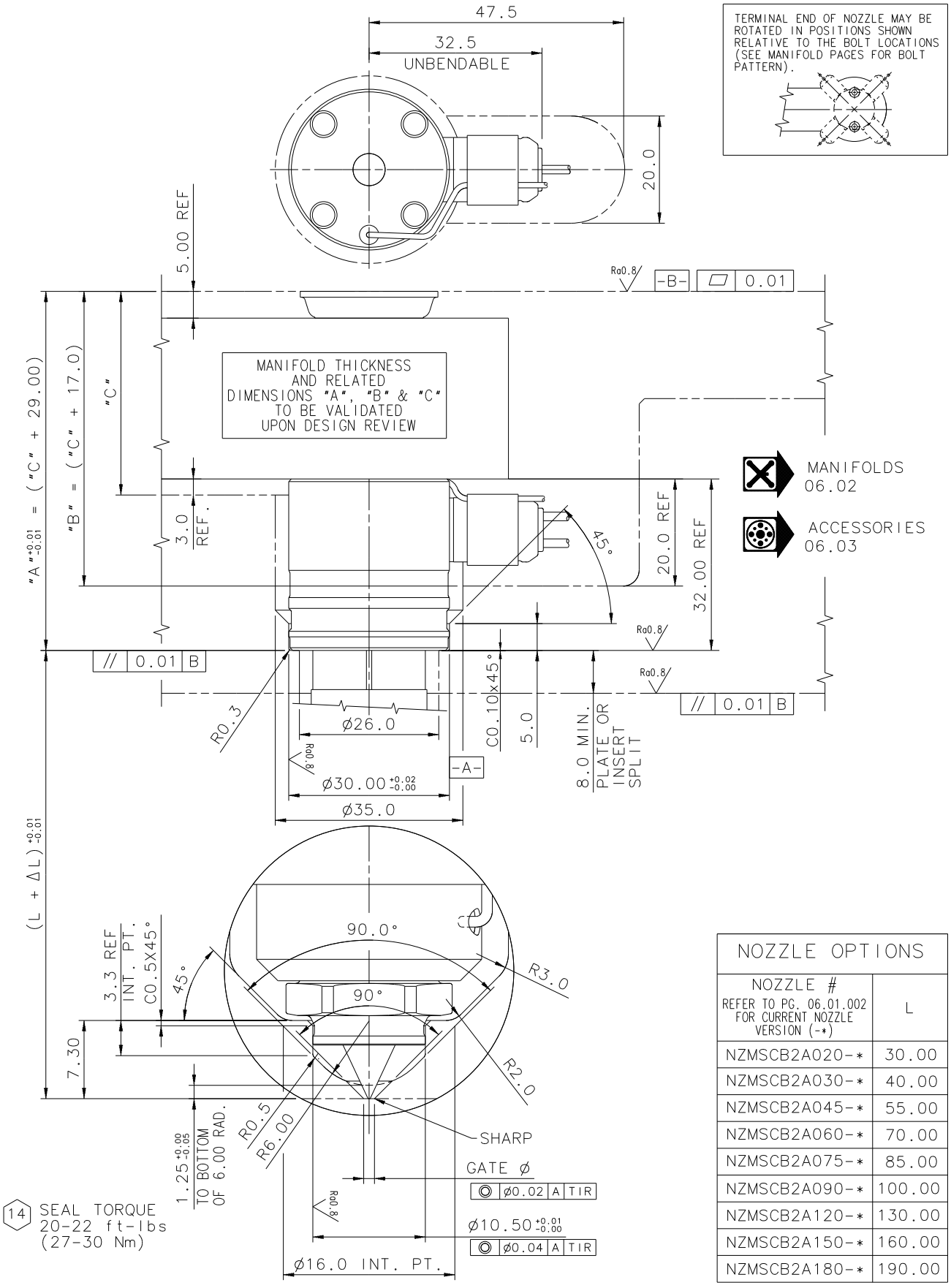
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB2A020-*	30.00
NZMSCB2A030-*	40.00
NZMSCB2A045-*	55.00
NZMSCB2A060-*	70.00
NZMSCB2A075-*	85.00
NZMSCB2A090-*	100.00
NZMSCB2A120-*	130.00
NZMSCB2A150-*	160.00
NZMSCB2A180-*	190.00

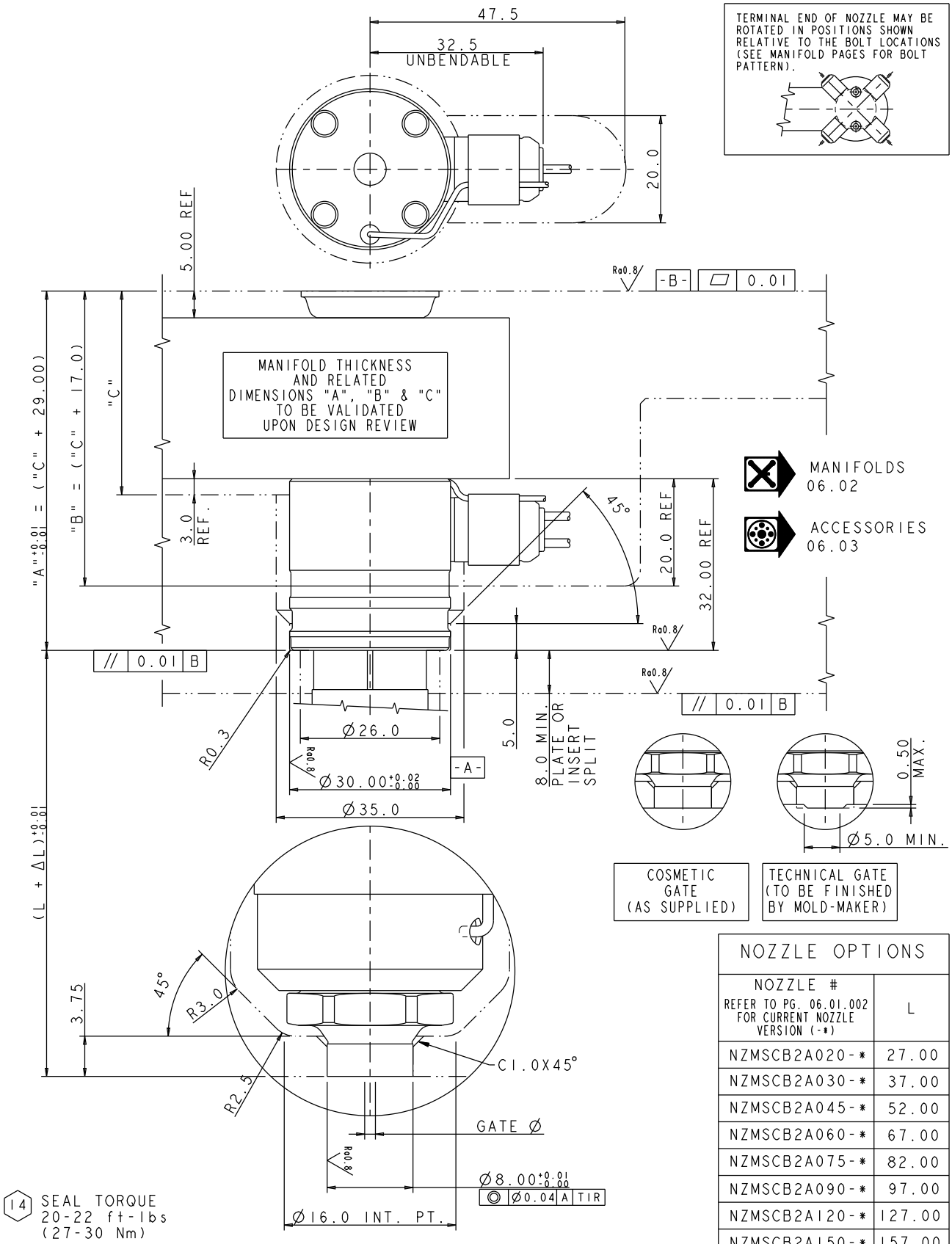
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB2A020-*	30.00
NZMSCB2A030-*	40.00
NZMSCB2A045-*	55.00
NZMSCB2A060-*	70.00
NZMSCB2A075-*	85.00
NZMSCB2A090-*	100.00
NZMSCB2A120-*	130.00
NZMSCB2A150-*	160.00
NZMSCB2A180-*	190.00

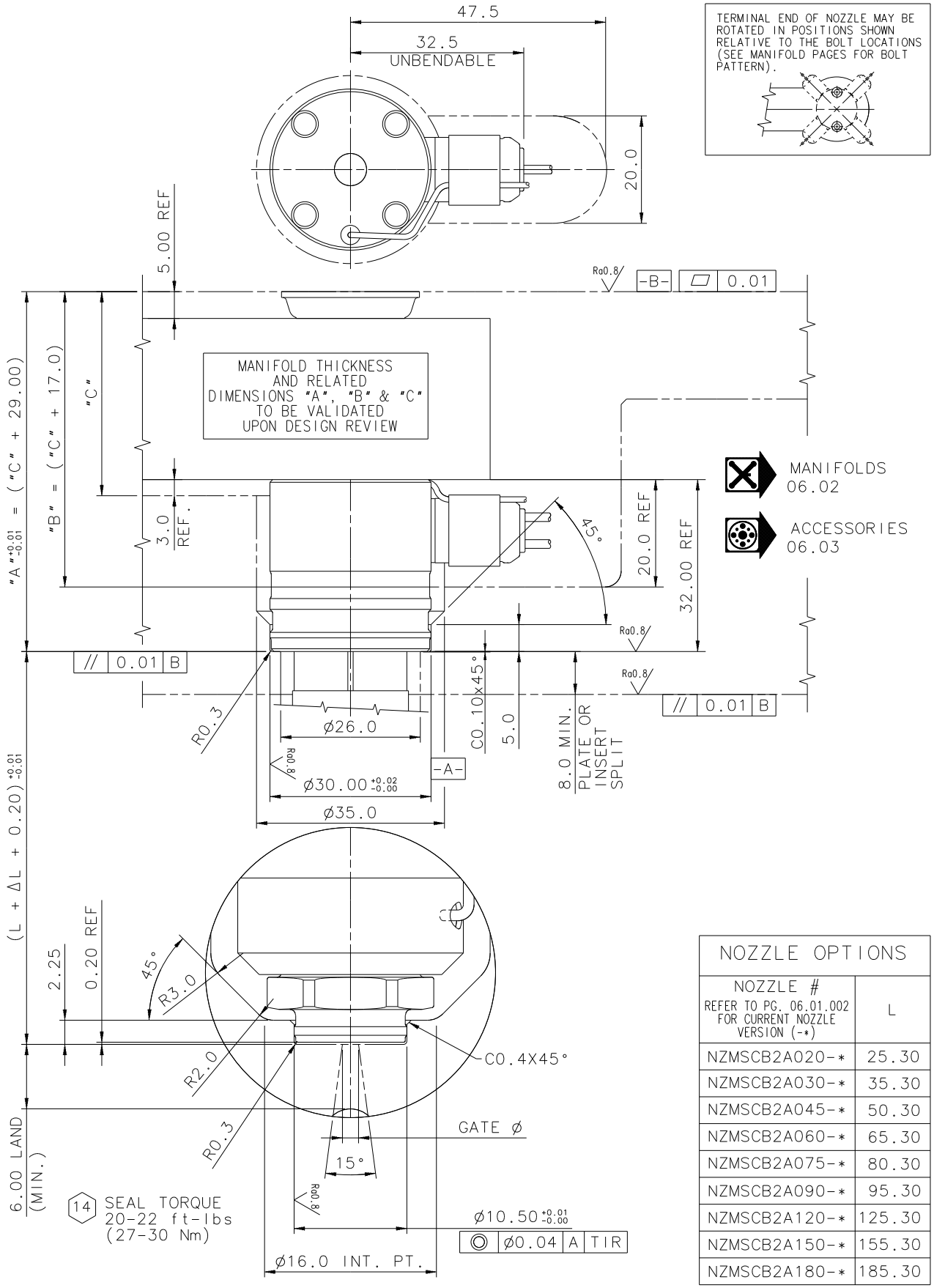
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB2A020-*	27.00
NZMSCB2A030-*	37.00
NZMSCB2A045-*	52.00
NZMSCB2A060-*	67.00
NZMSCB2A075-*	82.00
NZMSCB2A090-*	97.00
NZMSCB2A120-*	127.00
NZMSCB2A150-*	157.00
NZMSCB2A180-*	187.00

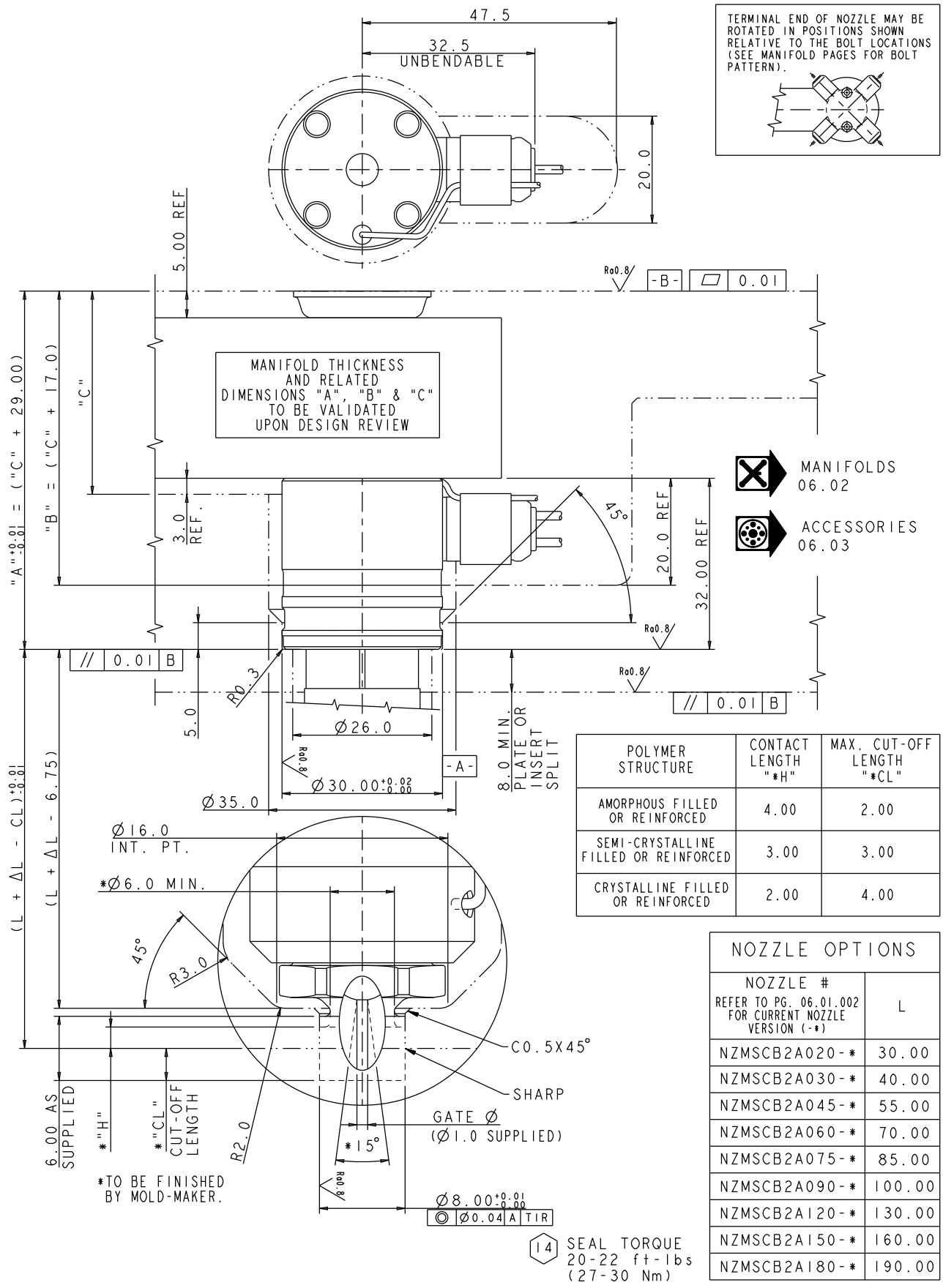
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB2A020-*	25.30
NZMSCB2A030-*	35.30
NZMSCB2A045-*	50.30
NZMSCB2A060-*	65.30
NZMSCB2A075-*	80.30
NZMSCB2A090-*	95.30
NZMSCB2A120-*	125.30
NZMSCB2A150-*	155.30
NZMSCB2A180-*	185.30

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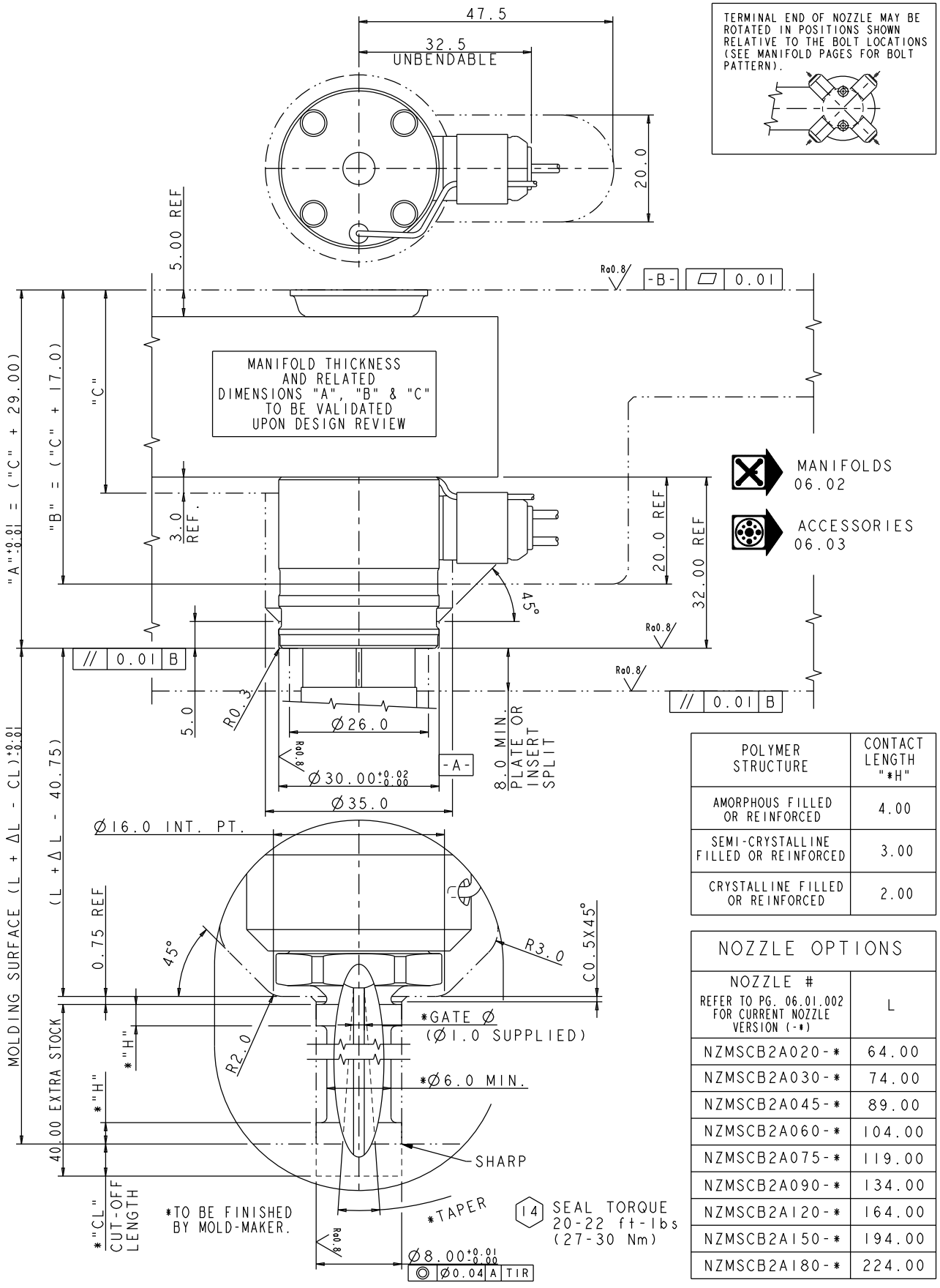
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POLYMER STRUCTURE	CONTACT LENGTH "*H"	MAX. CUT-OFF LENGTH "*CL"
AMORPHOUS FILLED OR REINFORCED	4.00	2.00
SEMI-CRYSTALLINE FILLED OR REINFORCED	3.00	3.00
CRYSTALLINE FILLED OR REINFORCED	2.00	4.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB2A020-*	30.00
NZMSCB2A030-*	40.00
NZMSCB2A045-*	55.00
NZMSCB2A060-*	70.00
NZMSCB2A075-*	85.00
NZMSCB2A090-*	100.00
NZMSCB2A120-*	130.00
NZMSCB2A150-*	160.00
NZMSCB2A180-*	190.00

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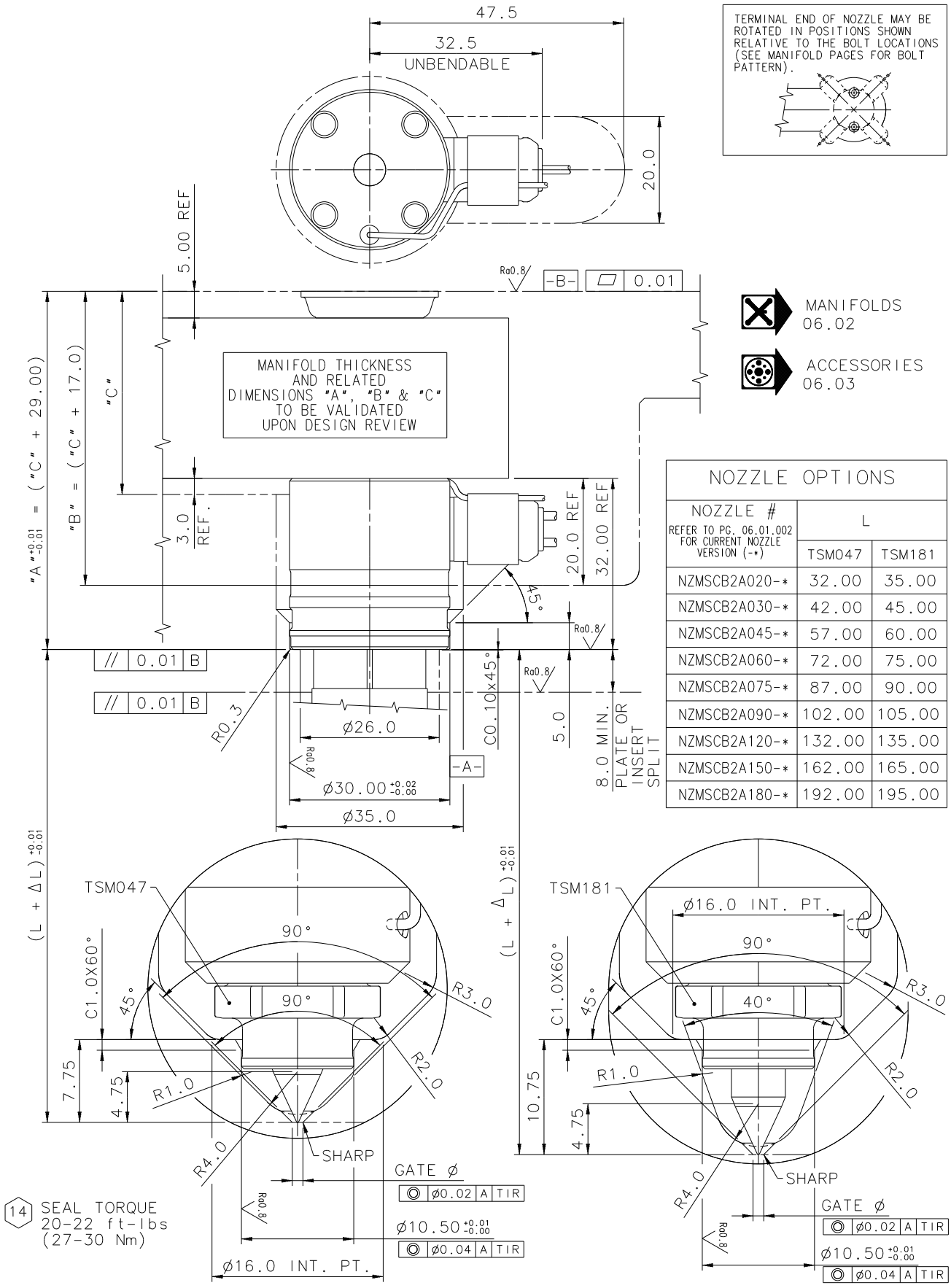


POLYMER STRUCTURE	CONTACT LENGTH "*H"
AMORPHOUS FILLED OR REINFORCED	4.00
SEMI-CRYSTALLINE FILLED OR REINFORCED	3.00
CRYSTALLINE FILLED OR REINFORCED	2.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB2A020-*	64.00
NZMSCB2A030-*	74.00
NZMSCB2A045-*	89.00
NZMSCB2A060-*	104.00
NZMSCB2A075-*	119.00
NZMSCB2A090-*	134.00
NZMSCB2A120-*	164.00
NZMSCB2A150-*	194.00
NZMSCB2A180-*	224.00

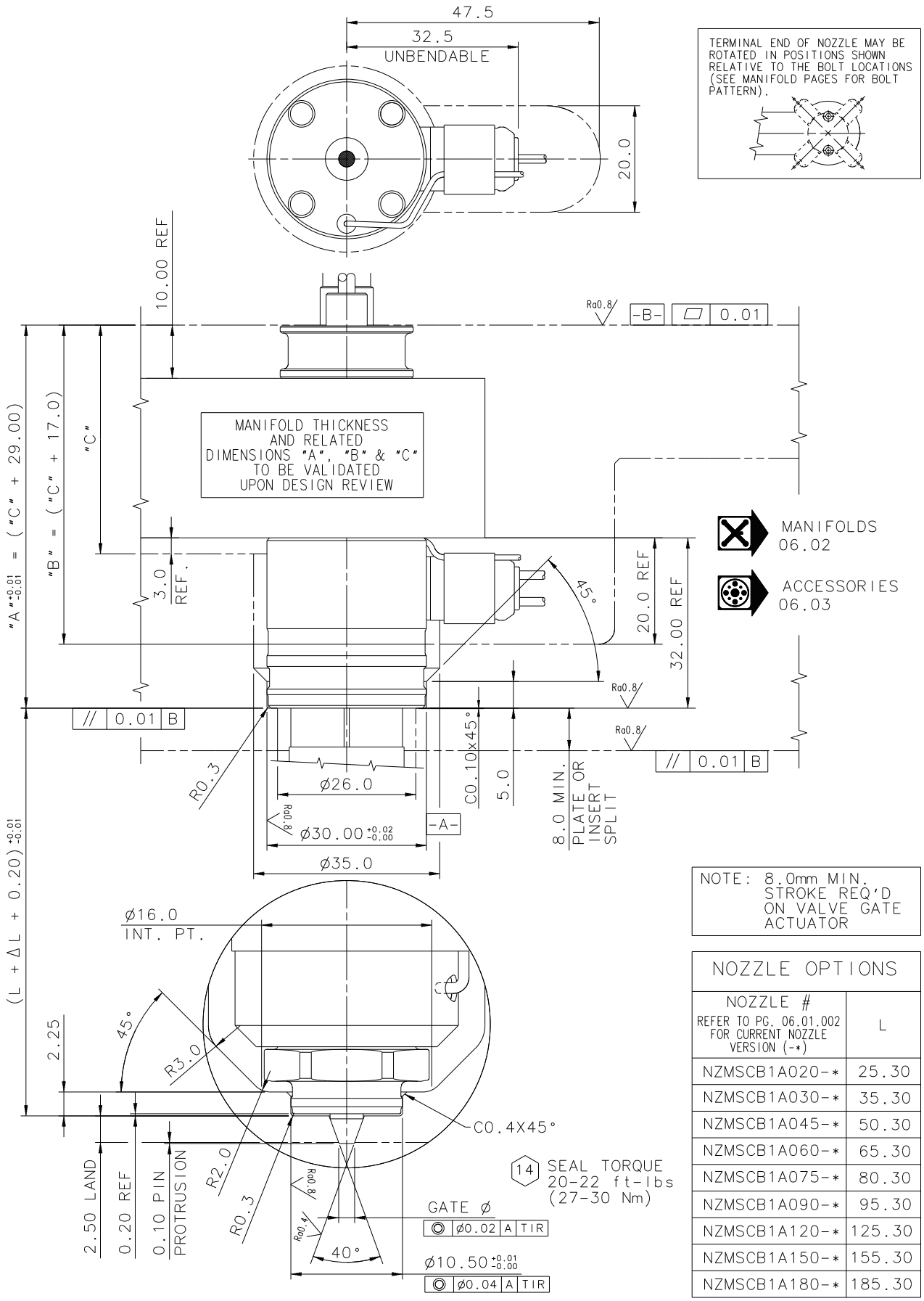
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NOZZLE OPTIONS		
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L	
	TSM047	TSM181
NZMSCB2A020-*	32.00	35.00
NZMSCB2A030-*	42.00	45.00
NZMSCB2A045-*	57.00	60.00
NZMSCB2A060-*	72.00	75.00
NZMSCB2A075-*	87.00	90.00
NZMSCB2A090-*	102.00	105.00
NZMSCB2A120-*	132.00	135.00
NZMSCB2A150-*	162.00	165.00
NZMSCB2A180-*	192.00	195.00

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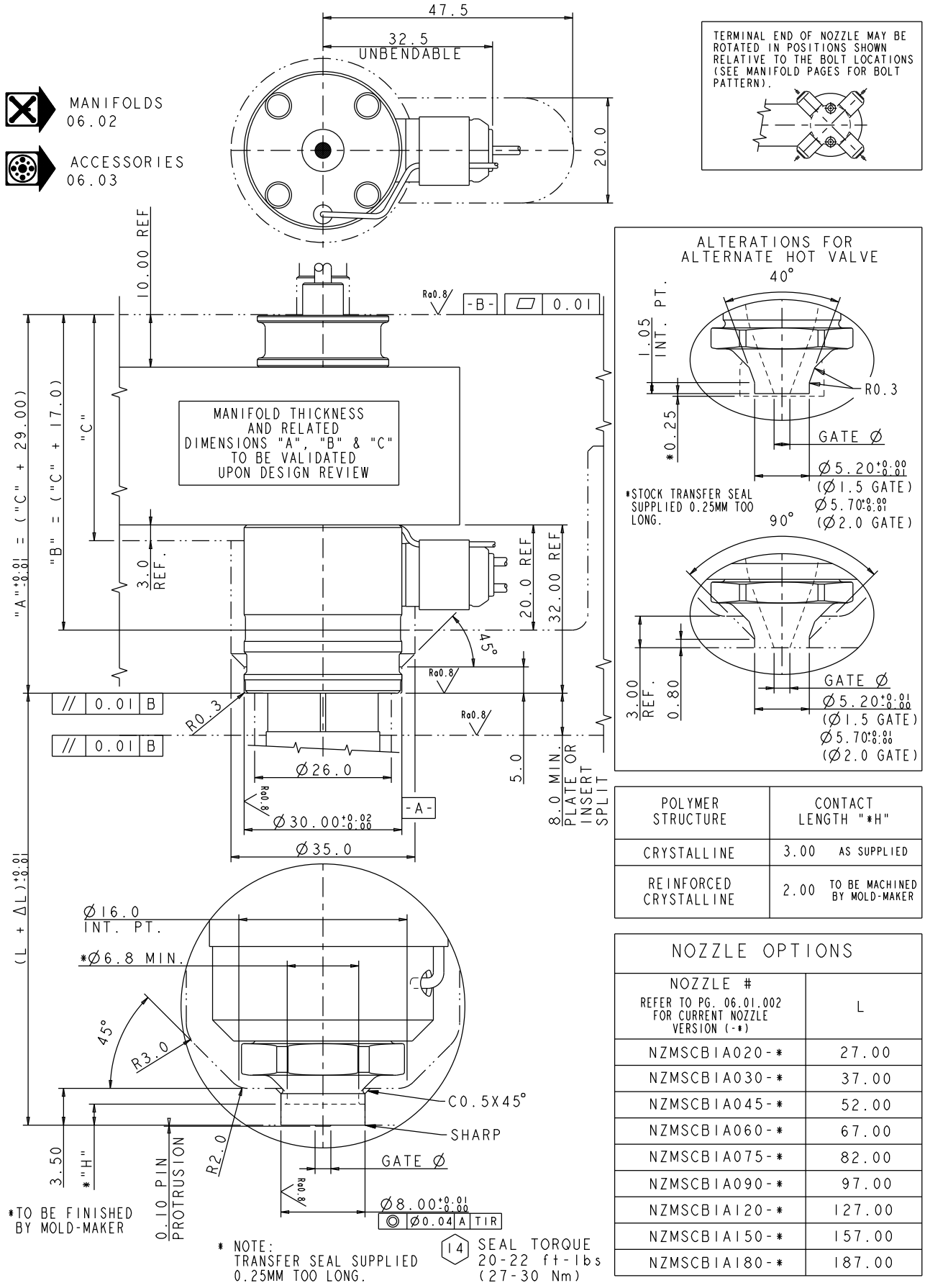


NOTE: 8.0mm MIN. STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB1A020-*	25.30
NZMSCB1A030-*	35.30
NZMSCB1A045-*	50.30
NZMSCB1A060-*	65.30
NZMSCB1A075-*	80.30
NZMSCB1A090-*	95.30
NZMSCB1A120-*	125.30
NZMSCB1A150-*	155.30
NZMSCB1A180-*	185.30

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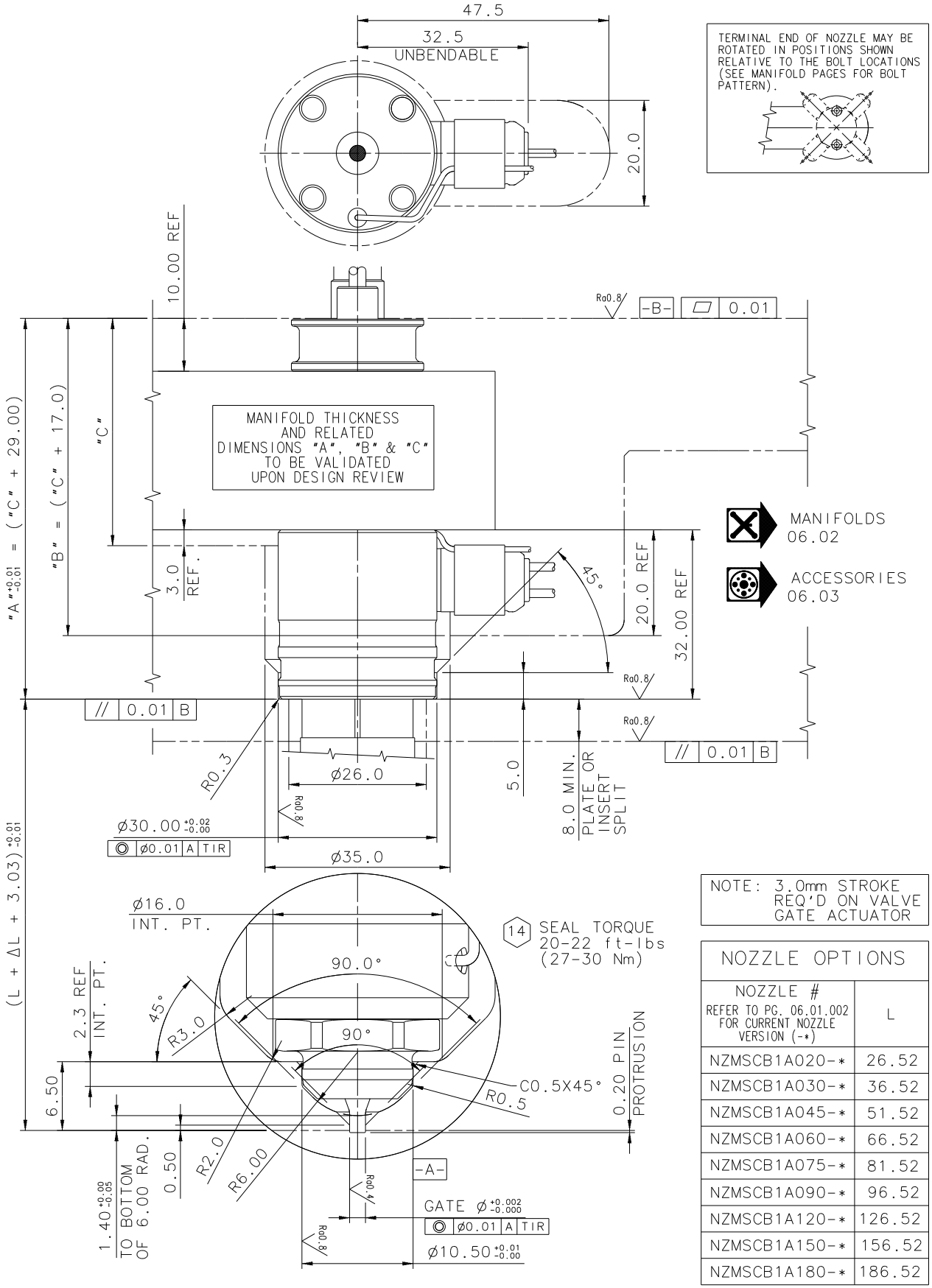
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POLYMER STRUCTURE	CONTACT LENGTH "*H"
CRYSTALLINE	3.00 AS SUPPLIED
REINFORCED CRYSTALLINE	2.00 TO BE MACHINED BY MOLD-MAKER

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCBIA020-*	27.00
NZMSCBIA030-*	37.00
NZMSCBIA045-*	52.00
NZMSCBIA060-*	67.00
NZMSCBIA075-*	82.00
NZMSCBIA090-*	97.00
NZMSCBIAI20-*	127.00
NZMSCBIAI50-*	157.00
NZMSCBIAI80-*	187.00

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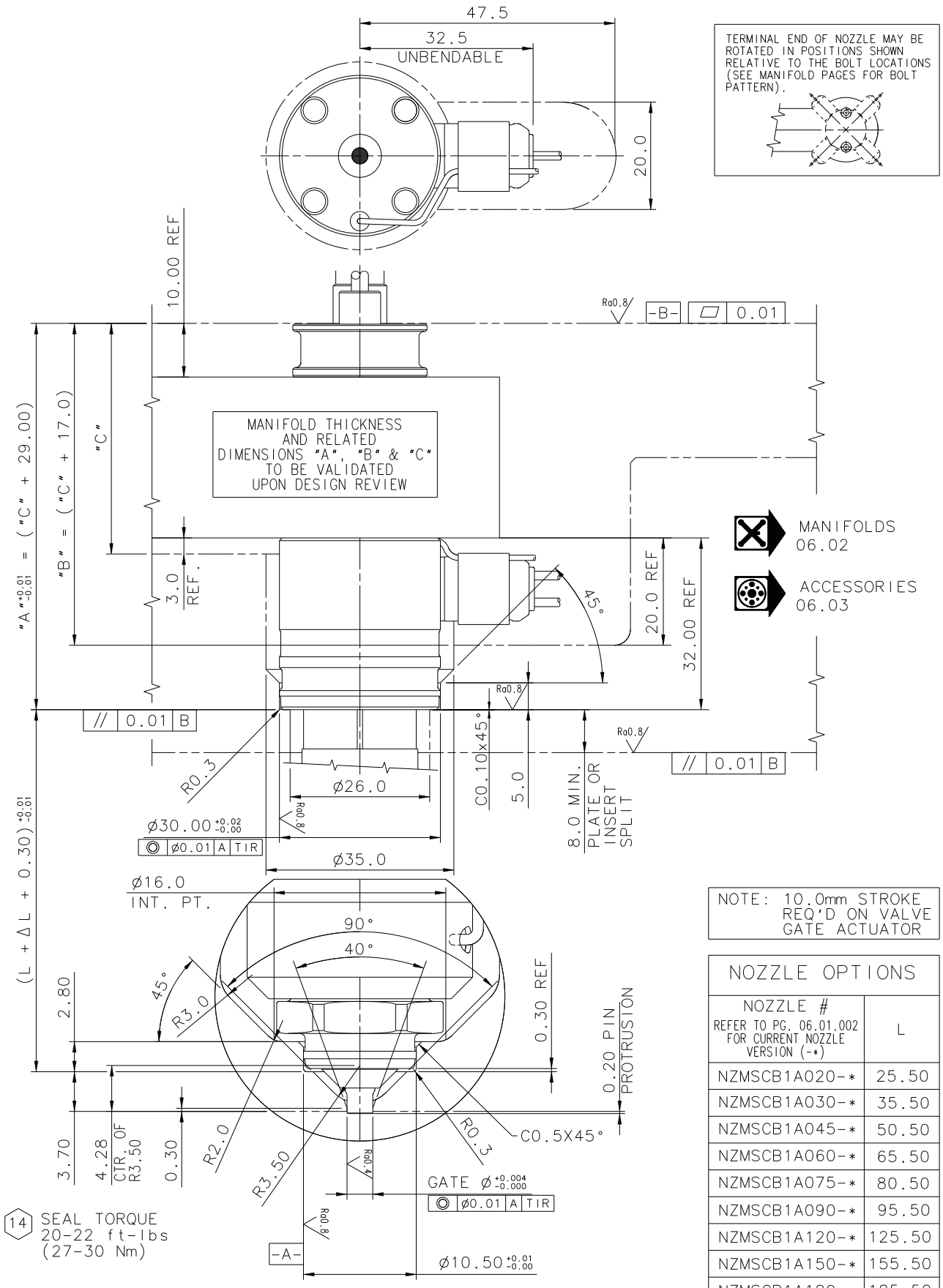


NOTE: 3.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB1A020-*	26.52
NZMSCB1A030-*	36.52
NZMSCB1A045-*	51.52
NZMSCB1A060-*	66.52
NZMSCB1A075-*	81.52
NZMSCB1A090-*	96.52
NZMSCB1A120-*	126.52
NZMSCB1A150-*	156.52
NZMSCB1A180-*	186.52

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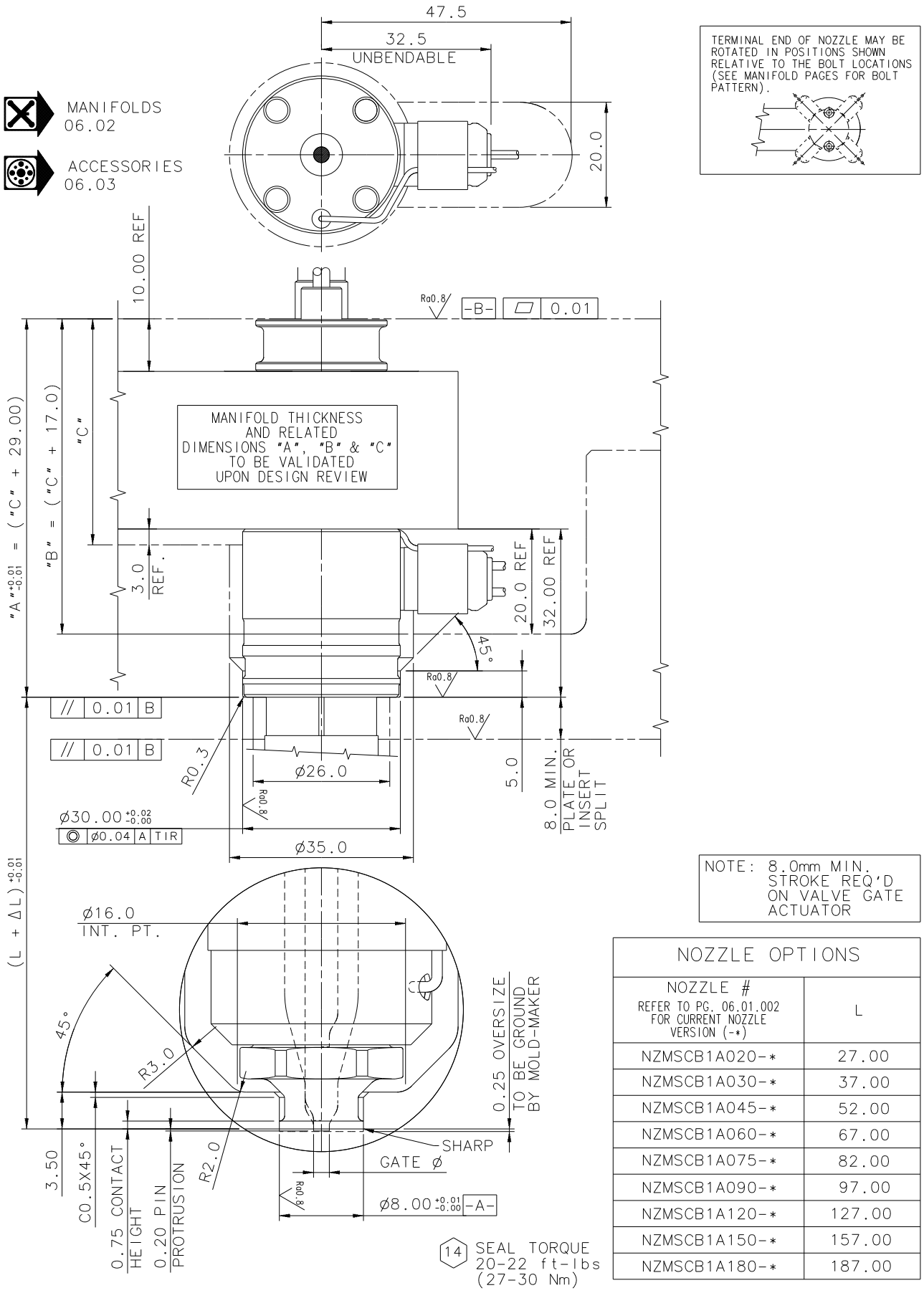
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NOTE: 10.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB1A020-*	25.50
NZMSCB1A030-*	35.50
NZMSCB1A045-*	50.50
NZMSCB1A060-*	65.50
NZMSCB1A075-*	80.50
NZMSCB1A090-*	95.50
NZMSCB1A120-*	125.50
NZMSCB1A150-*	155.50
NZMSCB1A180-*	185.50

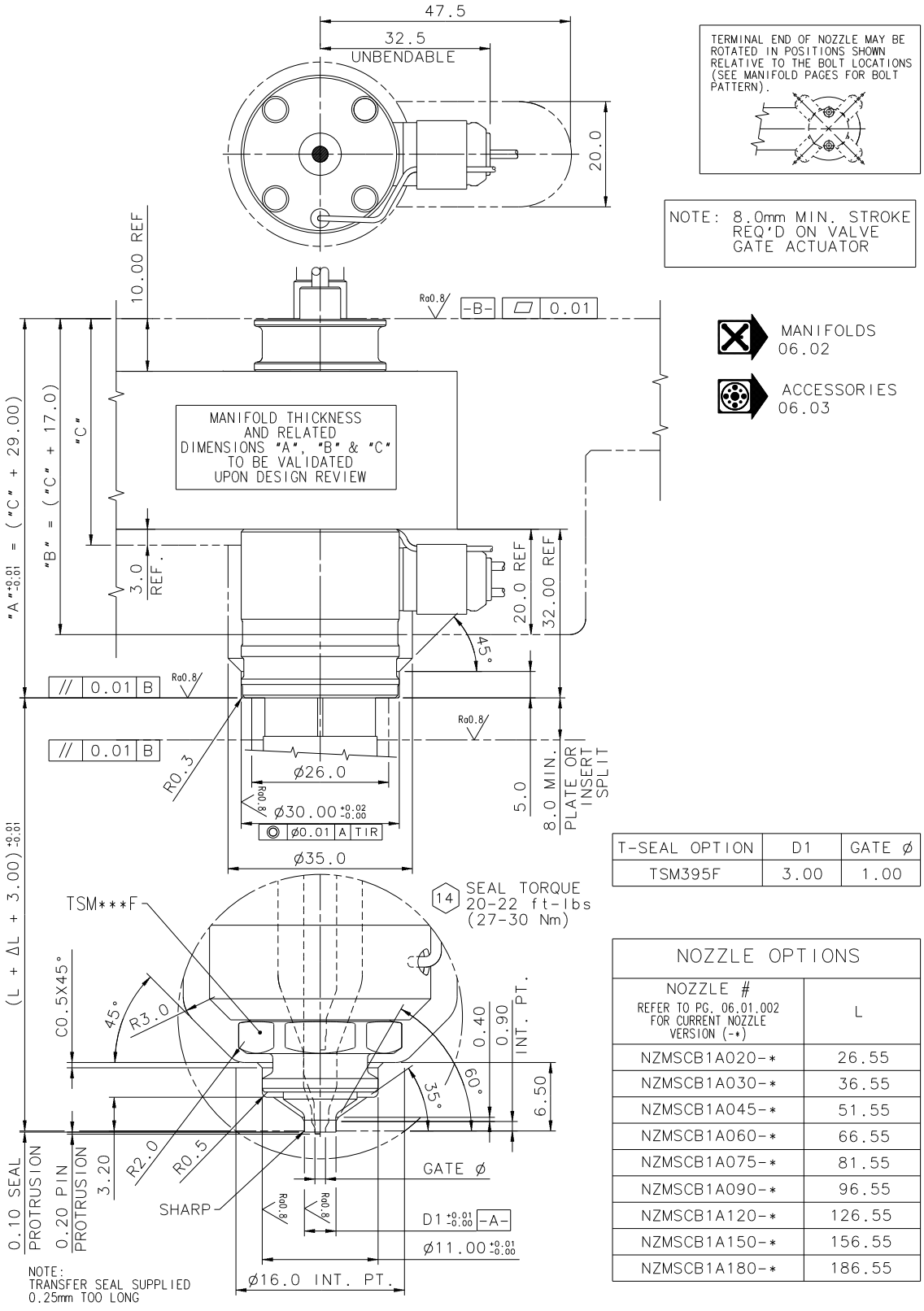
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB1A020-*	27.00
NZMSCB1A030-*	37.00
NZMSCB1A045-*	52.00
NZMSCB1A060-*	67.00
NZMSCB1A075-*	82.00
NZMSCB1A090-*	97.00
NZMSCB1A120-*	127.00
NZMSCB1A150-*	157.00
NZMSCB1A180-*	187.00

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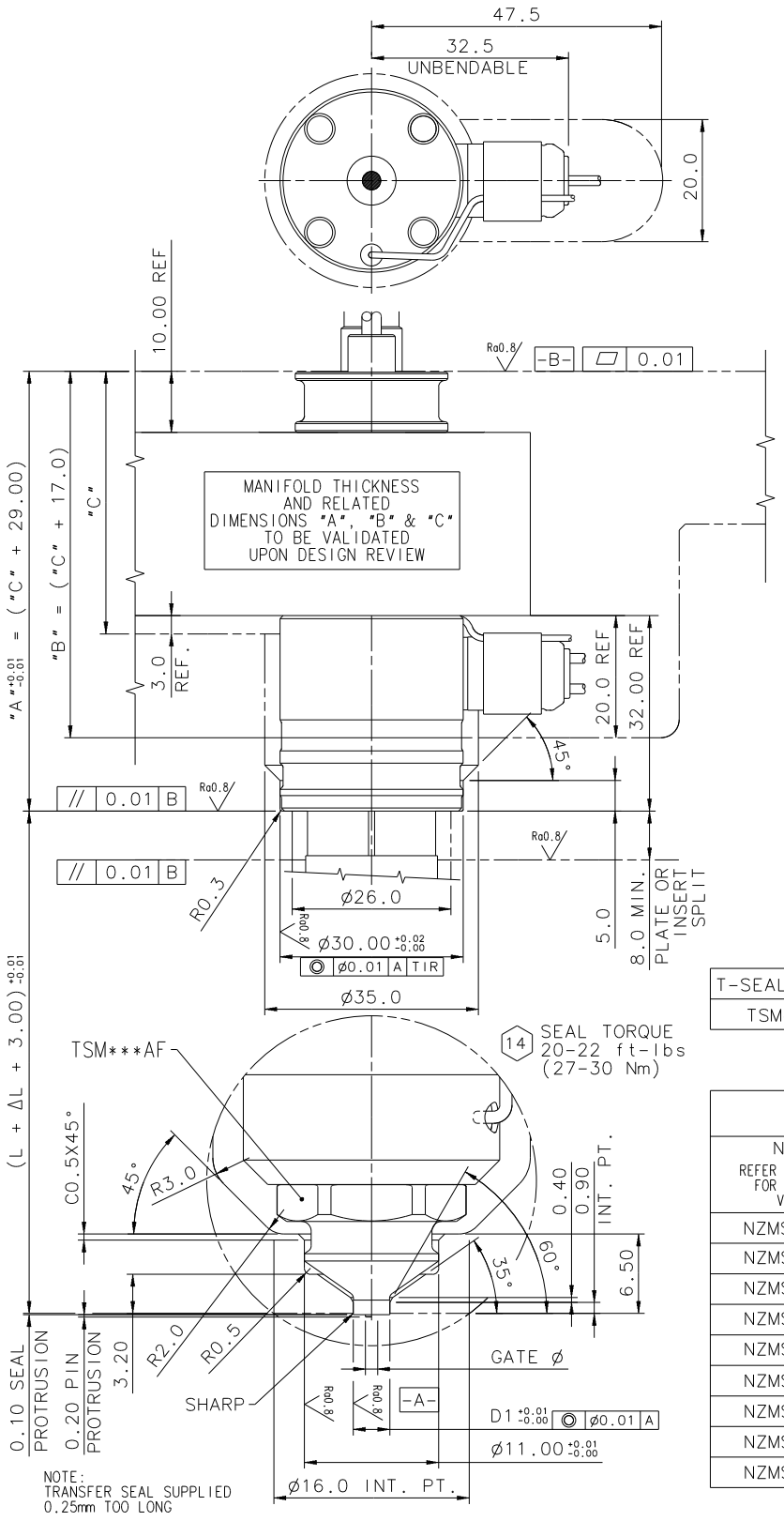
Mold Masters



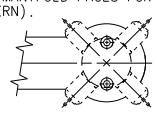
T-SEAL OPTION	D1	GATE Ø
TSM395F	3.00	1.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB1A020-*	26.55
NZMSCB1A030-*	36.55
NZMSCB1A045-*	51.55
NZMSCB1A060-*	66.55
NZMSCB1A075-*	81.55
NZMSCB1A090-*	96.55
NZMSCB1A120-*	126.55
NZMSCB1A150-*	156.55
NZMSCB1A180-*	186.55

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TERMINAL END OF NOZZLE MAY BE ROTATED IN POSITIONS SHOWN RELATIVE TO THE BOLT LOCATIONS (SEE MANIFOLD PAGES FOR BOLT PATTERN).



NOTE: 3.5mm STROKE REQ'D ON VALVE GATE ACTUATOR

MANIFOLDS 06.02

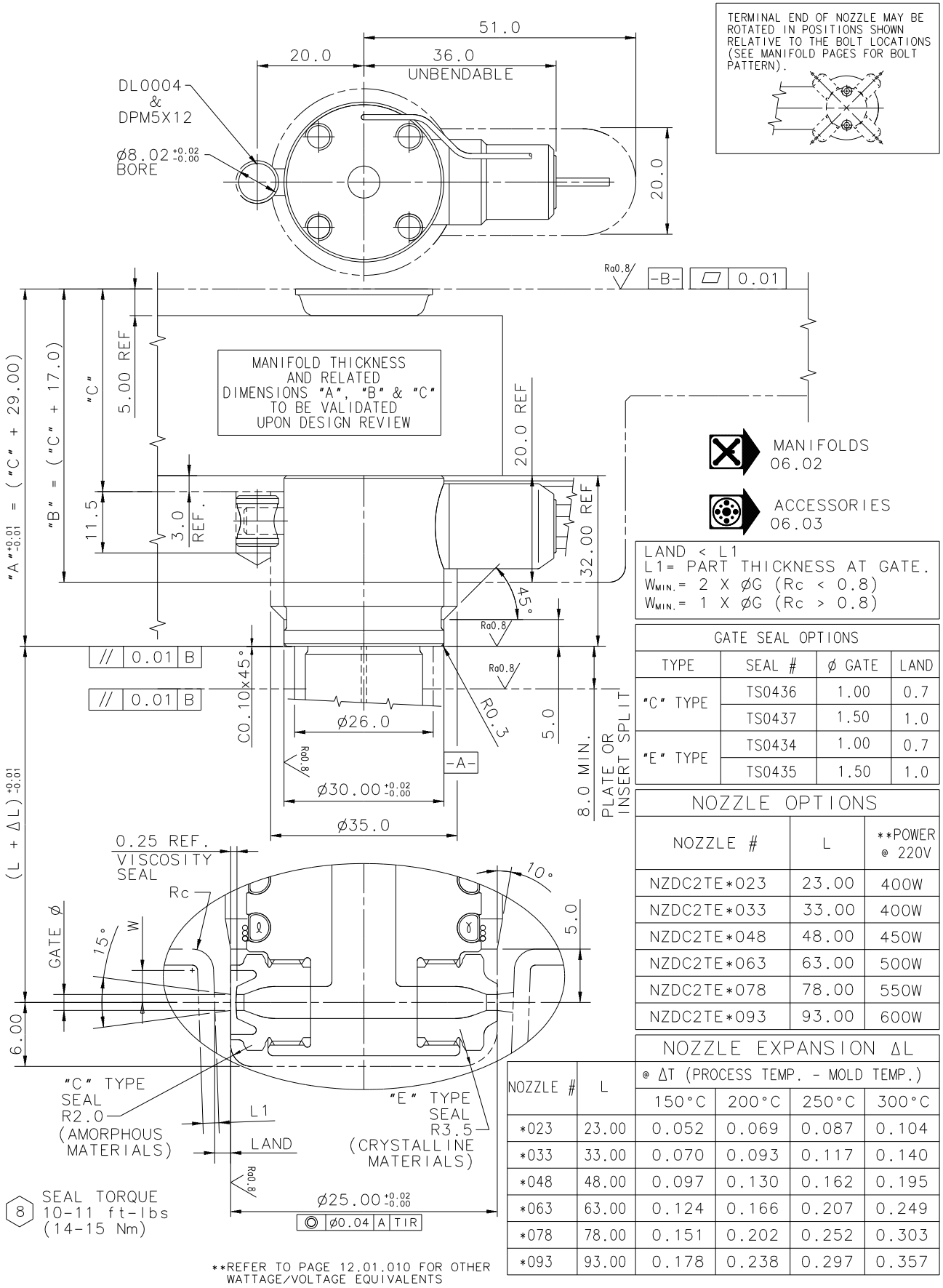
ACCESSORIES 06.03

T-SEAL OPTION	D1	GATE ø
TSM400AF	3.00	1.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 06.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSCB1A020-*	26.55
NZMSCB1A030-*	36.55
NZMSCB1A045-*	51.55
NZMSCB1A060-*	66.55
NZMSCB1A075-*	81.55
NZMSCB1A090-*	96.55
NZMSCB1A120-*	126.55
NZMSCB1A150-*	156.55
NZMSCB1A180-*	186.55

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**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

MANIFOLDS
06.02

ACCESSORIES
06.03

LAND < L1
L1= PART THICKNESS AT GATE.
$W_{MIN.}$ = 2 X ØG (Rc < 0.8)
$W_{MIN.}$ = 1 X ØG (Rc > 0.8)

GATE SEAL OPTIONS			
TYPE	SEAL #	Ø GATE	LAND
"C" TYPE	TS0436	1.00	0.7
	TS0437	1.50	1.0
"E" TYPE	TS0434	1.00	0.7
	TS0435	1.50	1.0

NOZZLE OPTIONS		
NOZZLE #	L	**POWER @ 220V
NZDC2TE*023	23.00	400W
NZDC2TE*033	33.00	400W
NZDC2TE*048	48.00	450W
NZDC2TE*063	63.00	500W
NZDC2TE*078	78.00	550W
NZDC2TE*093	93.00	600W

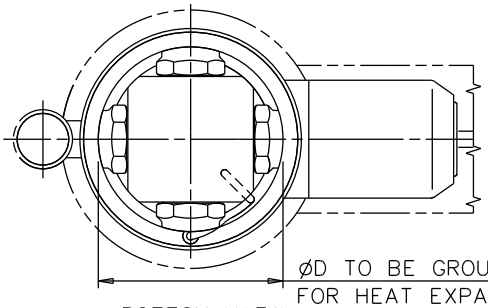
NOZZLE #	L	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
*023	23.00	0.052	0.069	0.087	0.104
*033	33.00	0.070	0.093	0.117	0.140
*048	48.00	0.097	0.130	0.162	0.195
*063	63.00	0.124	0.166	0.207	0.249
*078	78.00	0.151	0.202	0.252	0.303
*093	93.00	0.178	0.238	0.297	0.357

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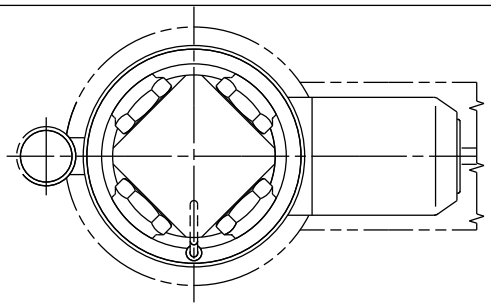
NOTE:
TRANSFER SEALS ARE SUPPLIED OVERSIZE. THE MOLD-MAKER MUST GRIND THE TRANSFER SEALS WHILE ASSEMBLED TO THE NOZZLE TO ENSURE PROPER SEALING AGAINST THE WALL. SEE CHART FOR THE GRINDING DIAMETER AT THE CORRESPONDING TEMPERATURE DIFFERENCE.

ø'D'$^{+0.00}_{-0.01}$ AT ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
25.00	24.99	24.98	24.96

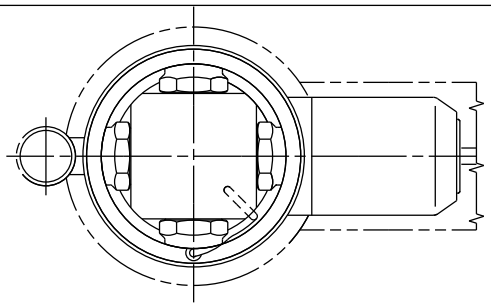
BOTTOM VIEW OF NOZZLES SHOWING THE DIFFERENT NOZZLE CONFIGURATIONS



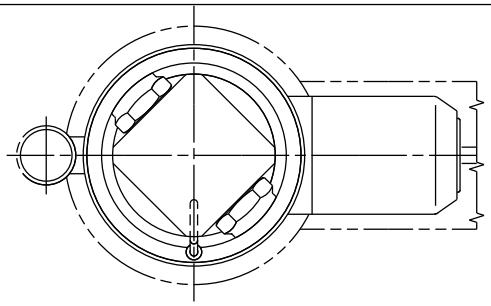
BOTTOM VIEW
CONFIGURATION B SHOWN



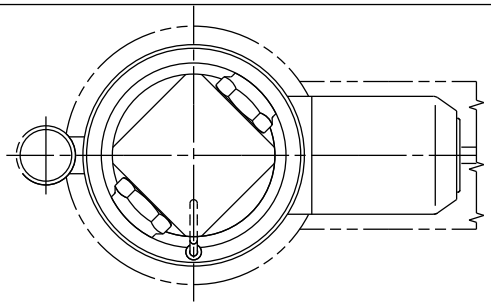
NZDC2TEA _ _ _
CONFIGURATION A



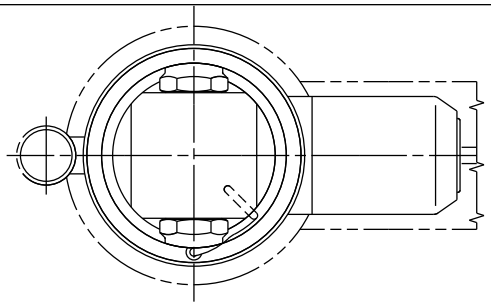
NZDC2TEB _ _ _
CONFIGURATION B



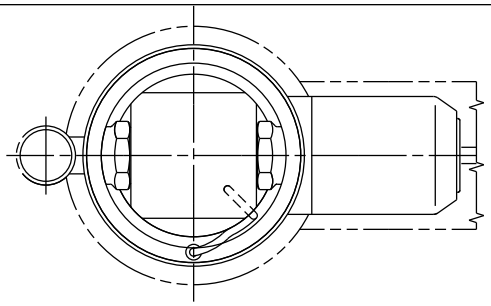
NZDC2TEC _ _ _
CONFIGURATION C



NZDC2TED _ _ _
CONFIGURATION D



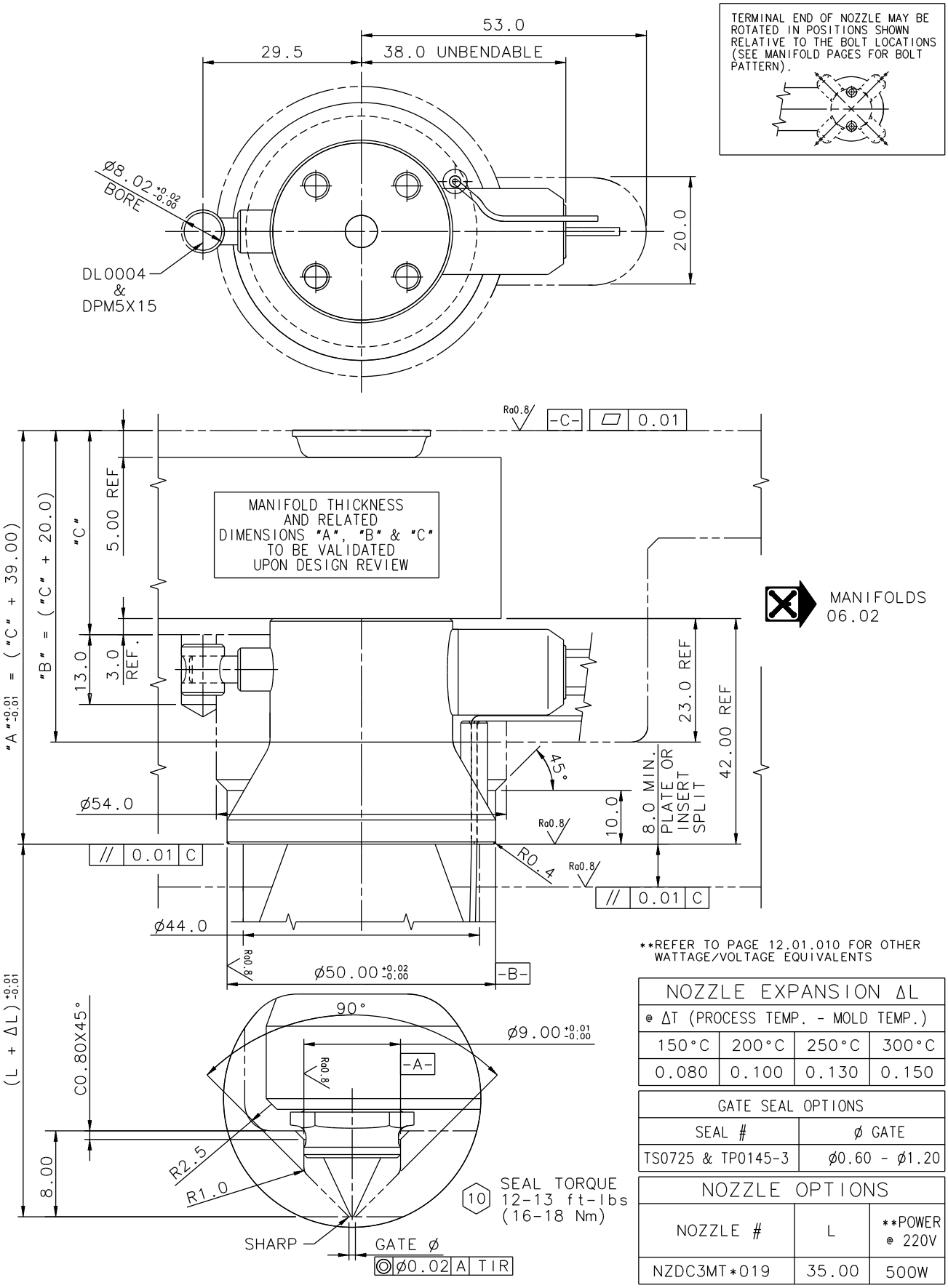
NZDC2TEE _ _ _
CONFIGURATION E



NZDC2TEF _ _ _
CONFIGURATION F

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**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

NOZZLE EXPANSION ΔL			
@ ΔT (PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.080	0.100	0.130	0.150

GATE SEAL OPTIONS	
SEAL #	Ø GATE
TS0725 & TP0145-3	Ø0.60 - Ø1.20

NOZZLE OPTIONS		
NOZZLE #	L	**POWER @ 220V
NZDC3MT*019	35.00	500W

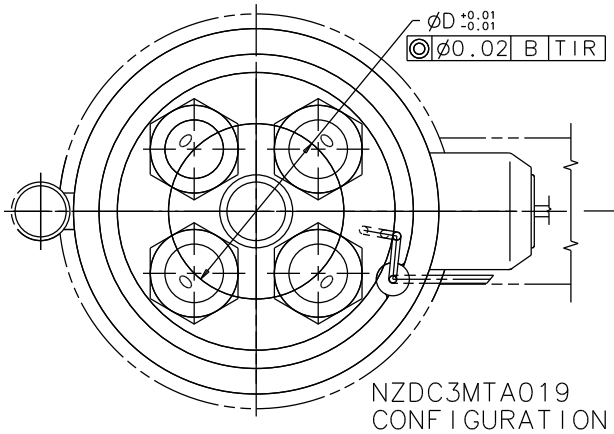
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PITCH DIAMETER D @ΔT(PROCESS TEMP.-MOLD TEMP.)			
150°C	200°C	250°C	300°C
24.04	24.05	24.06	24.08
D = 24.00 @ 20°C			

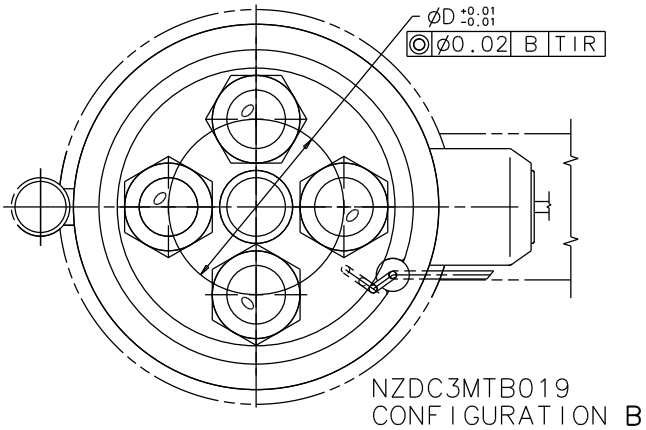
NOZZLE MUST BE HEATED TO PROCESSING TEMP. DURING ASSEMBLY AND REMOVAL OF THE NOZZLE FROM THE CAVITY PLATE

NOTE: DATUM "B" SEE PAGE 06.01.150

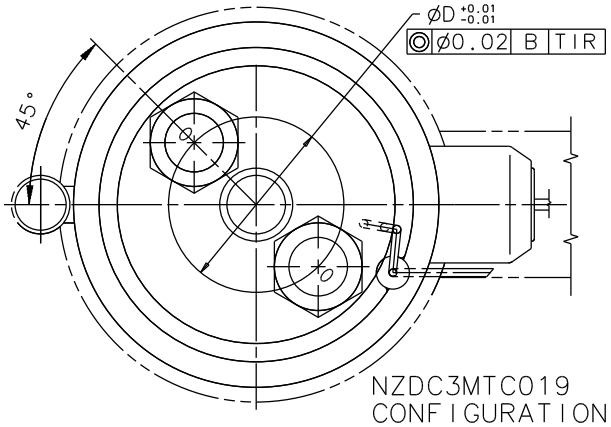
BOTTOM VIEW OF NOZZLES SHOWING THE DIFFERENT NOZZLE CONFIGURATIONS



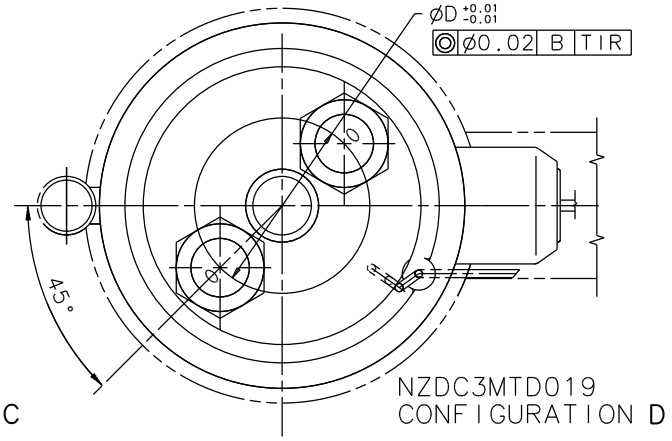
NZDC3MTA019
CONFIGURATION A



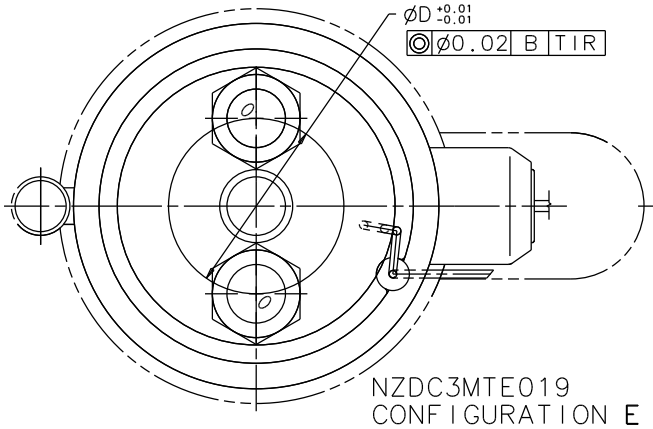
NZDC3MTB019
CONFIGURATION B



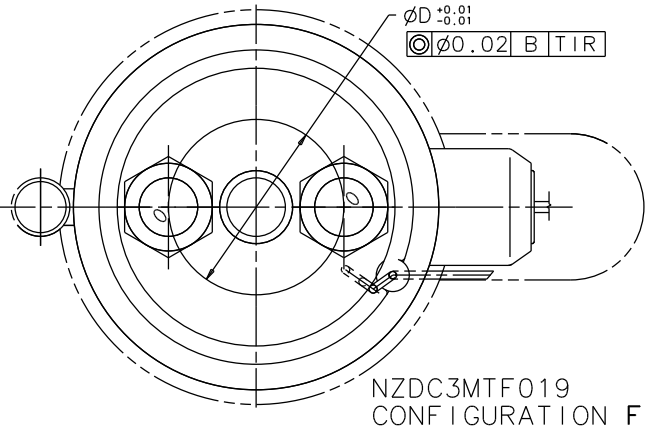
NZDC3MTC019
CONFIGURATION C



NZDC3MTD019
CONFIGURATION D



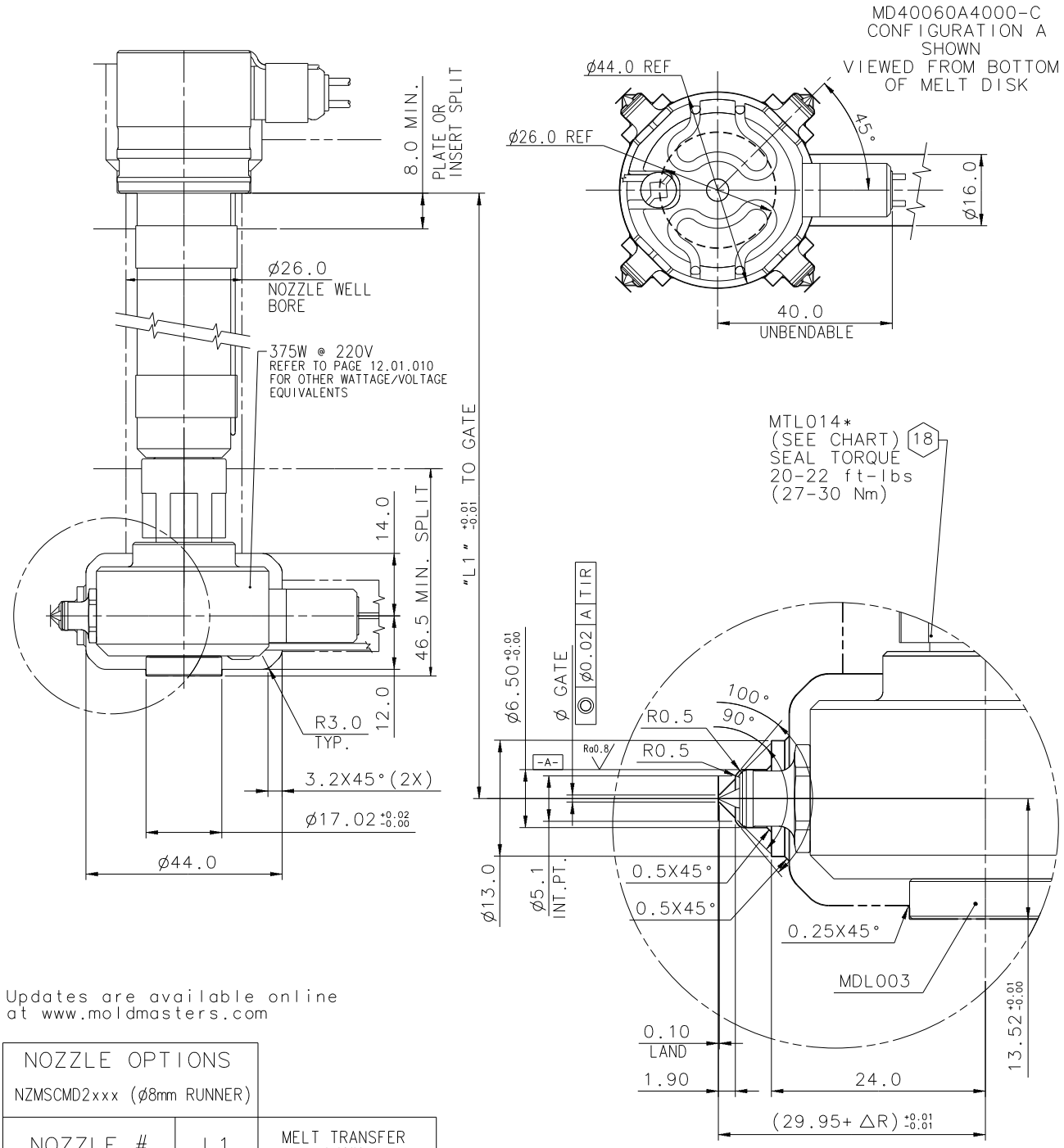
NZDC3MTE019
CONFIGURATION E



NZDC3MTF019
CONFIGURATION F

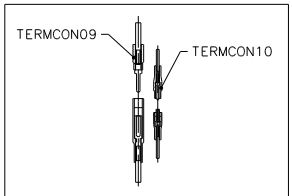
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NOZZLE OPTIONS NZMSCMD2xxx (ø8mm RUNNER)		
NOZZLE #	L1	MELT TRANSFER LINK
NZMSCMD2020	54.73	MTL014A + MTL014B
NZMSCMD2030	64.75	
NZMSCMD2045	79.79	
NZMSCMD2060	94.83	
NZMSCMD2075	109.86	
NZMSCMD2090	124.90	
NZMSCMD2120	154.98	
NZMSCMD2150	185.06	
NZMSCMD2180	215.15	

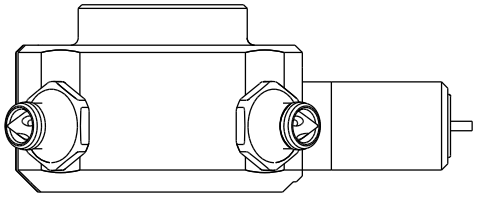


QUICK DISCONNECT
TERMINAL END KITS:
TERMCON09 (POWER)
TERMCON10 (T/C)
QDISC-CRIMP (TOOL FOR T/C)
QDISC-CRIMP01 (TOOL FOR POWER)
AVAILABLE UPON REQUEST

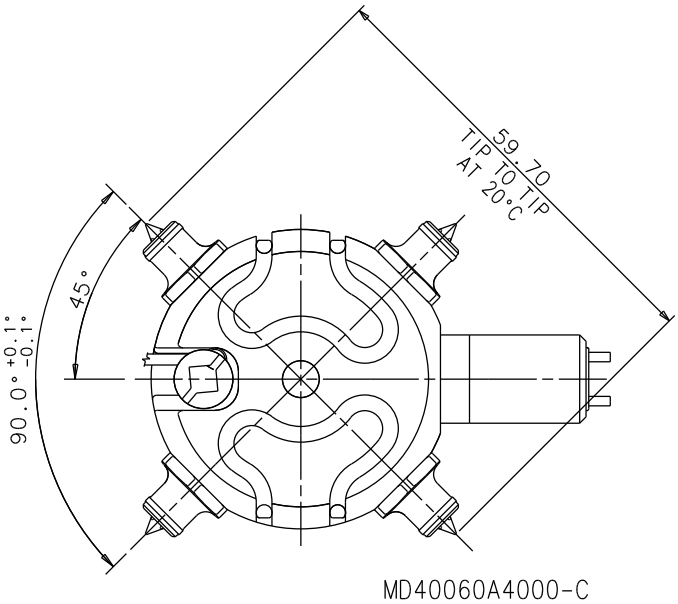
* 'L1' VALUE BASED UPON NOZZLE HEAT EXPANSION @ 250°C ΔT. FOR APPLICATIONS IN WHICH ΔT EXCEEDS 250°C, PLEASE CONSULT MOLD-MASTERS.

MELT DISK EXPANSION (ΔR) @ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.070	0.093	0.117	0.140

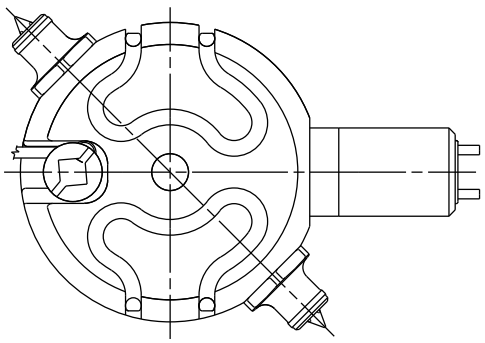
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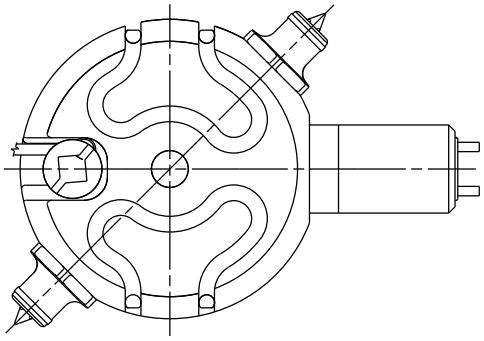
VIEW SHOWN FROM GATE
END OF THE MELT DISK



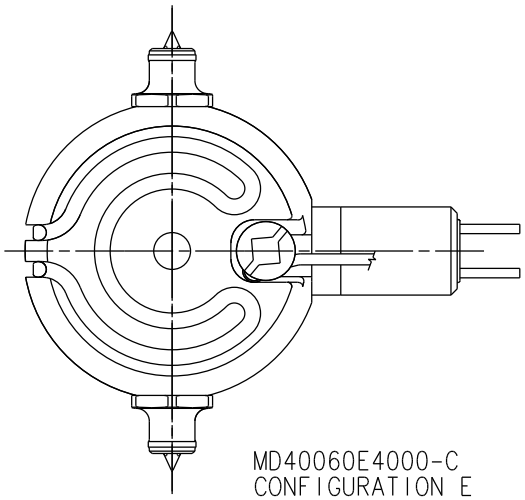
MD40060A4000-C
CONFIGURATION A



MD40060C4000-C
CONFIGURATION C



MD40060D4000-C
CONFIGURATION D



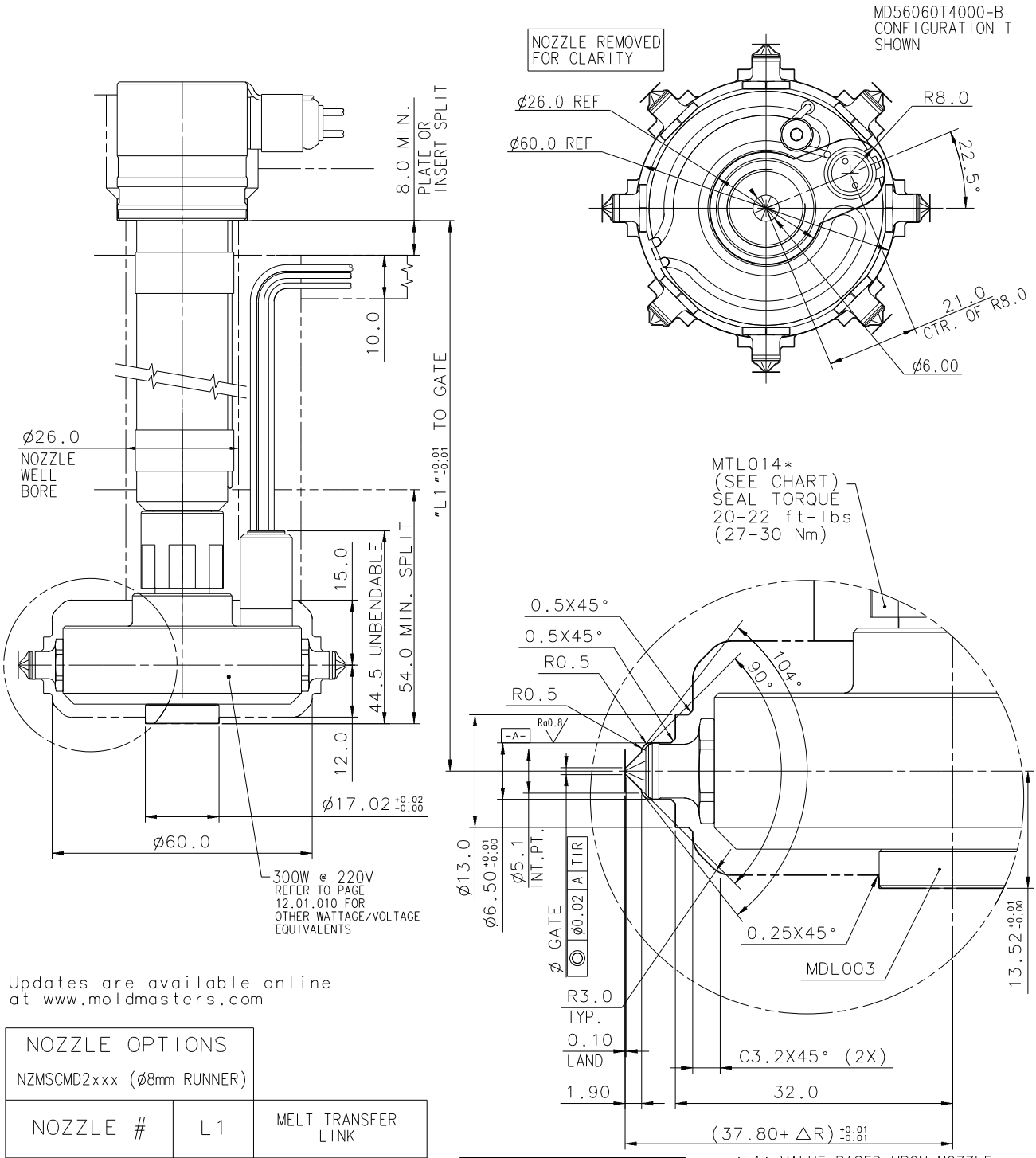
MD40060E4000-C
CONFIGURATION E

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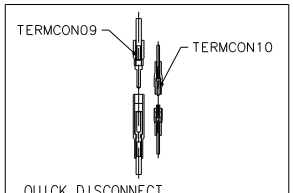
Melt-Disk 56 Horiz. Hot Tip w/ Inverted Melt-Link

06.01.190



Updates are available online at www.moldmasters.com

NOZZLE OPTIONS NZMSCMD2xxx (ø8mm RUNNER)		
NOZZLE #	L1	MELT TRANSFER LINK
NZMSCMD*030	64.75	MTL014A + MTL014B
NZMSCMD*045	79.79	
NZMSCMD*060	94.83	
NZMSCMD*075	109.86	
NZMSCMD*090	124.90	
NZMSCMD*120	154.98	
NZMSCMD*150	185.06	
NZMSCMD*180	215.15	



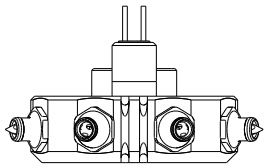
QUICK DISCONNECT
TERMINAL END KITS:
TERMCON09 (POWER)
TERMCON10 (T/C)
QDISC-CRIMP (TOOL FOR T/C)
QDISC-CRIMP01 (TOOL FOR POWER)
AVAILABLE UPON REQUEST

*'L1' VALUE BASED UPON NOZZLE HEAT EXPANSION @ 250°C ΔT. FOR APPLICATIONS IN WHICH ΔT EXCEEDS 250°C, PLEASE CONSULT MOLD-MASTERS.

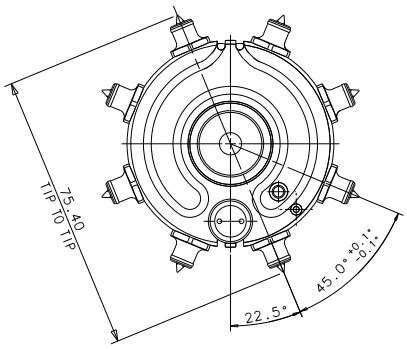
MELT DISK EXPANSION (ΔR) @ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.084	0.112	0.141	0.169

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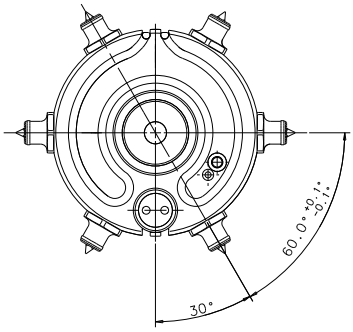
VIEW SHOWN FROM THE TERMINAL
END OF THE MELT DISK



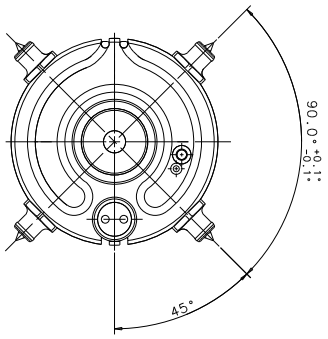
MD56060T4000-B
CONFIGURATION T



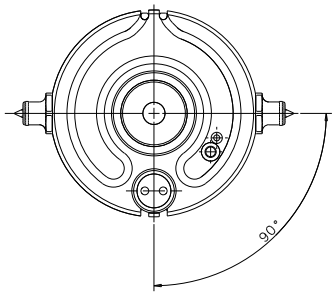
MD56060S4000-B
CONFIGURATION S



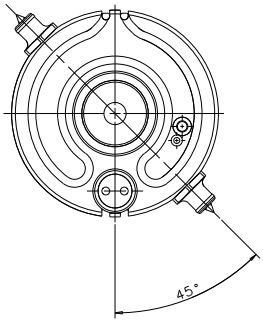
MD56060A4000-B
CONFIGURATION A



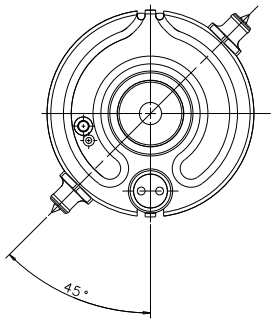
MD56060E4000-B
CONFIGURATION E



MD56060C4000-B
ONFIGURATION C

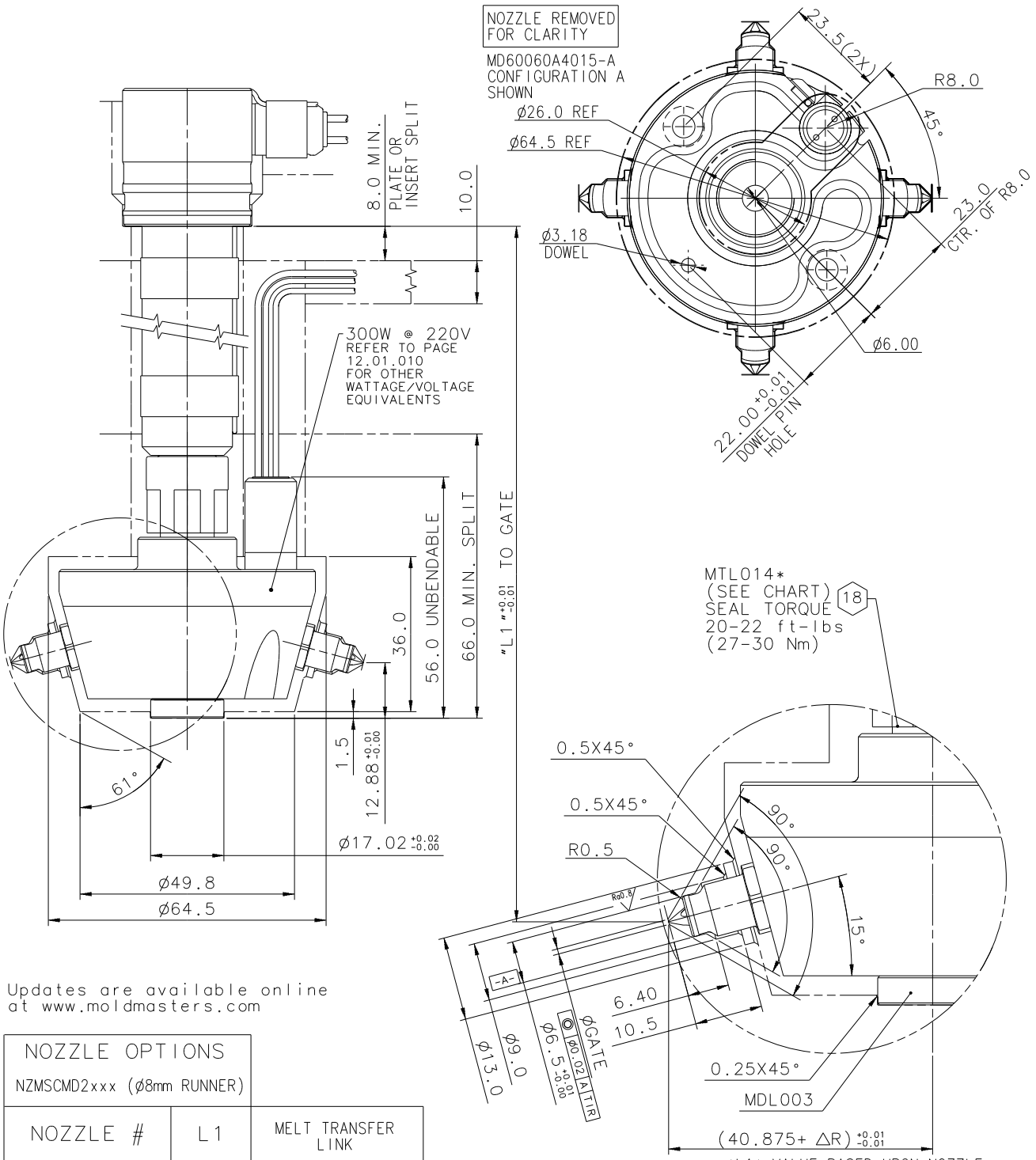


MD56060D4000-B
CONFIGURATION D



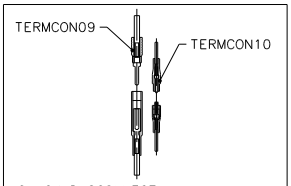
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NOZZLE OPTIONS NZMSCMD2xxx (Ø8mm RUNNER)		
NOZZLE #	L1	MELT TRANSFER LINK
NZMSCMD2030	77.39	MTL014A + MTL014B
NZMSCMD2045	92.42	
NZMSCMD2060	107.46	
NZMSCMD2075	122.50	
NZMSCMD2090	137.54	
NZMSCMD2120	167.62	
NZMSCMD2150	197.70	
NZMSCMD2180	227.78	

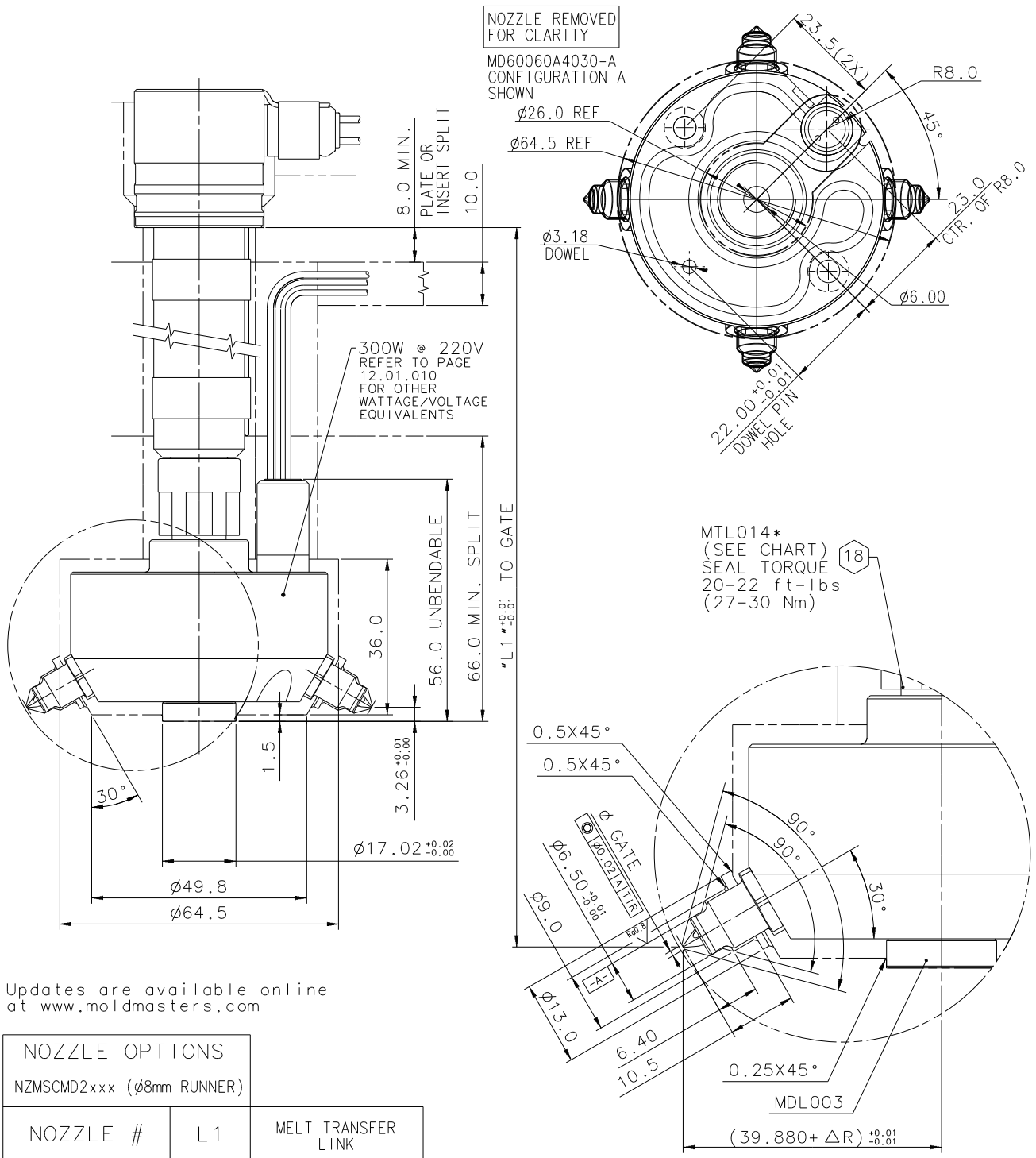


QUICK DISCONNECT TERMINAL END KITS:
TERMCON09 (POWER)
TERMCON10 (T/C)
QDISC-CRIMP (TOOL FOR T/C)
QDISC-CRIMP01 (TOOL FOR POWER)
AVAILABLE UPON REQUEST

*'L1' VALUE BASED UPON NOZZLE HEAT EXPANSION @ 250°C ΔT. FOR APPLICATIONS IN WHICH ΔT EXCEEDS 250°C, PLEASE CONSULT MOLD-MASTERS.

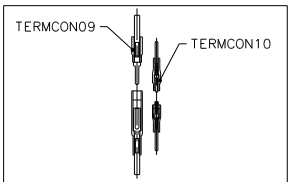
MELT DISK EXPANSION (ΔR) @ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.094	0.125	0.156	0.188

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Updates are available online at www.moldmasters.com

NOZZLE OPTIONS NZMSCMD2xxx (ø8mm RUNNER)		
NOZZLE #	L1	MELT TRANSFER LINK
NZMSCMD2030	87.01	MTL014A + MTL014B
NZMSCMD2045	102.05	
NZMSCMD2060	117.09	
NZMSCMD2075	132.12	
NZMSCMD2090	147.16	
NZMSCMD2120	177.24	
NZMSCMD2150	207.32	
NZMSCMD2180	237.41	

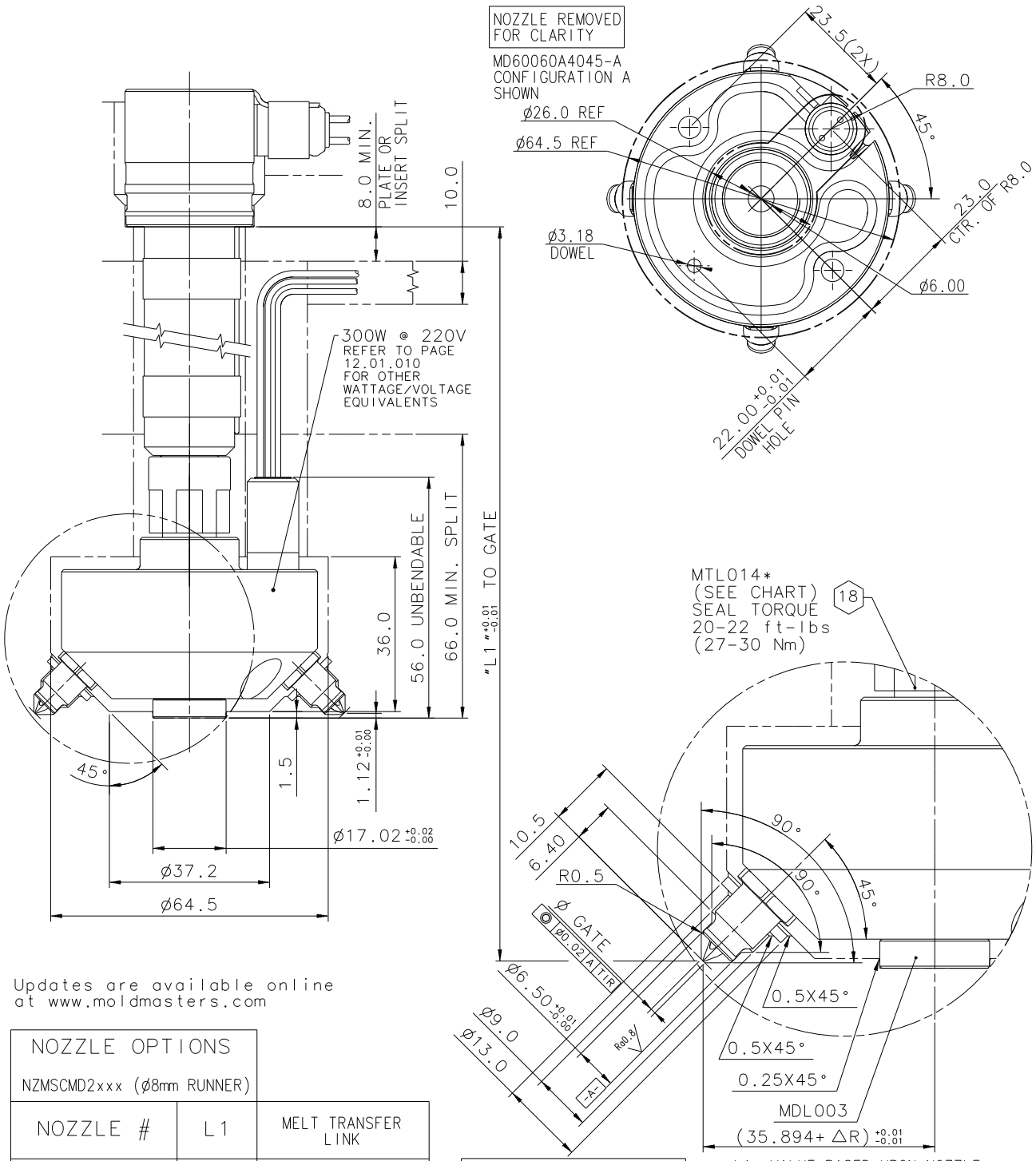


QUICK DISCONNECT TERMINAL END KITS:
TERMCON09 (POWER)
TERMCON10 (T/C)
QDISC-CRIMP (TOOL FOR T/C)
QDISC-CRIMP01 (TOOL FOR POWER)
AVAILABLE UPON REQUEST

*'L1' VALUE BASED UPON NOZZLE HEAT EXPANSION @ 250°C △T. FOR APPLICATIONS IN WHICH △T EXCEEDS 250°C, PLEASE CONSULT MOLD-MASTERS.

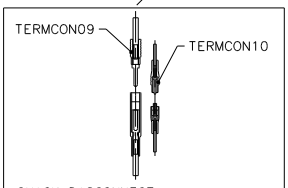
MELT DISK EXPANSION (ΔR) @△T(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.090	0.120	0.150	0.180

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Updates are available online at www.moldmasters.com

NOZZLE OPTIONS NZMSCMD2xxx (ø8mm RUNNER)		
NOZZLE #	L1	MELT TRANSFER LINK
NZMSCMD2030	89.15	MTL014A + MTL014B
NZMSCMD2045	104.19	
NZMSCMD2060	119.23	
NZMSCMD2075	134.26	
NZMSCMD2090	149.30	
NZMSCMD2120	179.38	
NZMSCMD2150	209.46	
NZMSCMD2180	239.55	

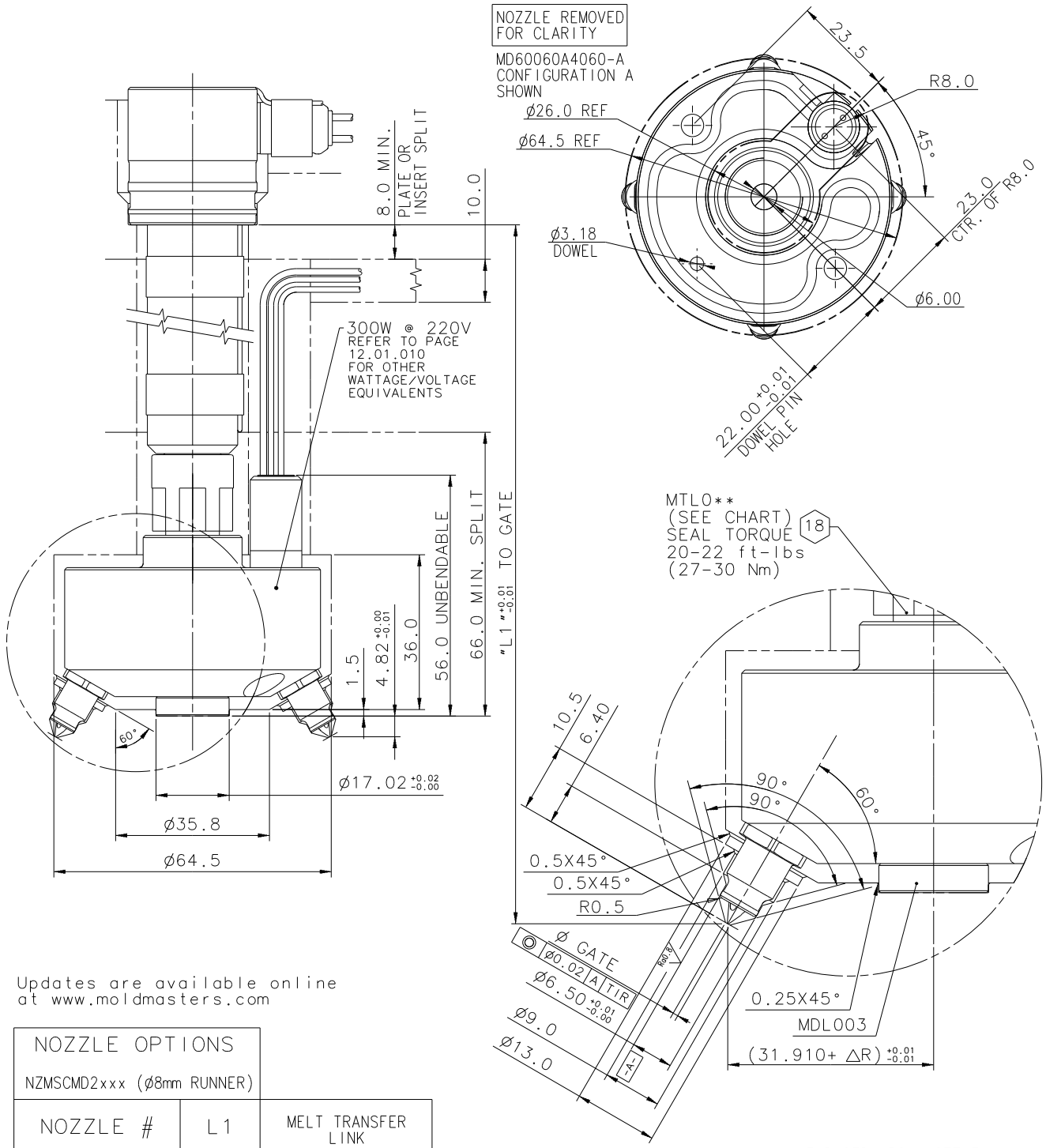


QUICK DISCONNECT TERMINAL END KITS:
TERMCON09 (POWER)
TERMCON10 (T/C)
QDISC-CRIMP (TOOL FOR T/C)
QDISC-CRIMP01 (TOOL FOR POWER)
AVAILABLE UPON REQUEST

*'L1' VALUE BASED UPON NOZZLE HEAT EXPANSION @ 250°C Δ. FOR APPLICATIONS IN WHICH Δ EXCEEDS 250°C, PLEASE CONSULT MOLD-MASTERS.

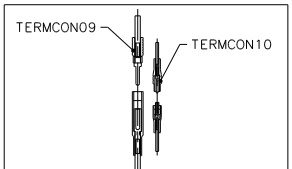
MELT DISK EXPANSION (ΔR) @ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.080	0.106	0.133	0.159

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Updates are available online at www.moldmasters.com

NOZZLE OPTIONS NZMSCMD2xxx (ø8mm RUNNER)		
NOZZLE #	L1	MELT TRANSFER LINK
NZMSCMD2030	95.09	MTL014A + MTL014B
NZMSCMD2045	110.13	
NZMSCMD2060	125.17	
NZMSCMD2075	140.20	
NZMSCMD2090	155.24	
NZMSCMD2120	185.32	
NZMSCMD2150	215.40	
NZMSCMD2180	245.49	

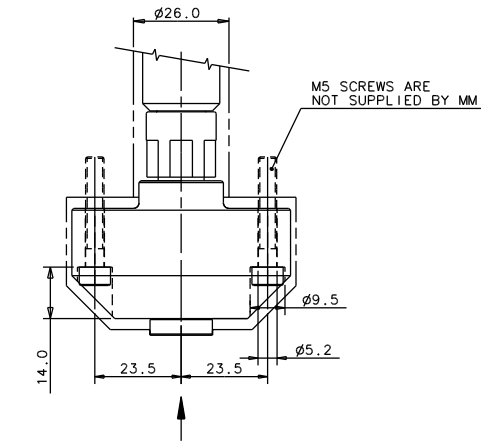


QUICK DISCONNECT TERMINAL END KITS:
TERMCON09 (POWER)
TERMCON10 (T/C)
QDISC-CRIMP (TOOL FOR T/C)
QDISC-CRIMP01 (TOOL FOR POWER)
AVAILABLE UPON REQUEST

*'L1' VALUE BASED UPON NOZZLE HEAT EXPANSION @ 250°C ΔT. FOR APPLICATIONS IN WHICH ΔT EXCEEDS 250°C, PLEASE CONSULT MOLD-MASTERS.

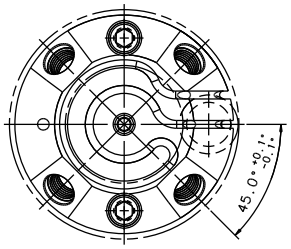
MELT DISK EXPANSION (ΔR) @ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.068	0.090	0.113	0.136

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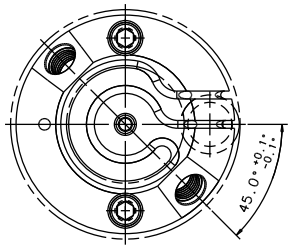


VIEW SHOWN FROM THE GATE
END OF THE MELT DISK

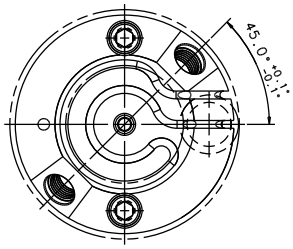
MD60060A40**-A
CONFIGURATION A



MD60060C40**-A
CONFIGURATION C



MD60060D40**-A
CONFIGURATION D



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CAVITY #	PAGE #	Melt-CUBE OPTIONS	TIP TO TIP PITCH X	GATE ORIENTATION	NOZZLE OPTIONS	MELT TRANSFER LINK OPTIONS	CENTER LOCATOR
2	06.01.240A	MC2IXX09B4000-B	0.00	HORIZONTAL	NZMSCB1A***-*	MTL016A (NZ SIDE) + MTL016B (MC SIDE)	ML0043
4	06.01.245A	MC0H2009B4000-B	40.00				
		MC0H2509B4000-B	50.00				
8	06.01.250A	MCHH1009A4000-B	20.00		NZMSDB1A***-*	MTL015A (NZ SIDE) + MTL015B (MC SIDE)	
		MCHH1509A4000-B	30.00				
	06.01.255A	MCHH2009A4000-B	40.00				
		MCHH2509A4000-B	50.00				
16	06.01.260	MC2HH1009C4000-A	20.00			MTL015A (NZ SIDE) + MTL017B (MC SIDE)	
		MC2HH1509C4000-A	30.00				
2	06.01.240B	MC2IXX09B4000-A	0.00	15° / 30° / 45° / 60° TIP ANGLE	NZMSCB1A***-*	MTL016A (NZ SIDE) + MTL016B (MC SIDE)	
4	06.01.245B	MC0H2009B4000-A	40.00				
		MC0H2509B4000-A	50.00				
8	06.01.250B	MCHH1009A4000-A	20.00		NZMSDB1A***-*	MTL015A (NZ SIDE) + MTL015B (MC SIDE)	
		MCHH1509A4000-A	30.00				
	06.01.255B	MCHH2009A4000-A	40.00				
		MCHH2509A4000-A	50.00				
16	06.01.260	MC2HH1009C4000-A	20.00			MTL015A (NZ SIDE) + MTL017B (MC SIDE)	
		MC2HH1509C4000-A	30.00				

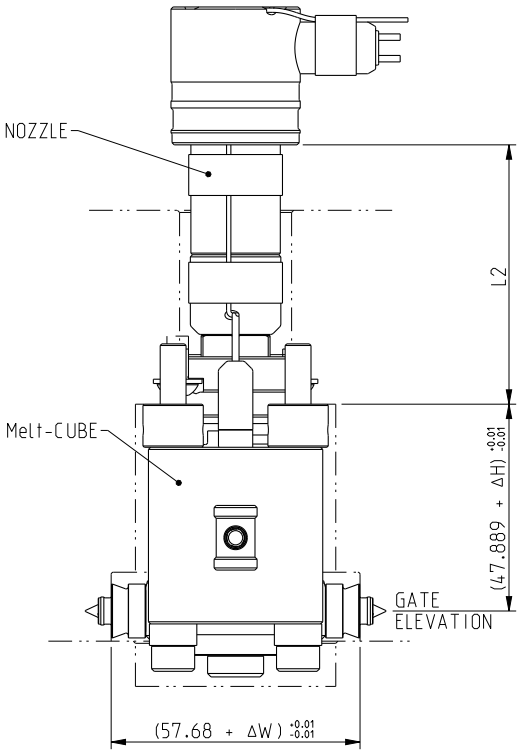
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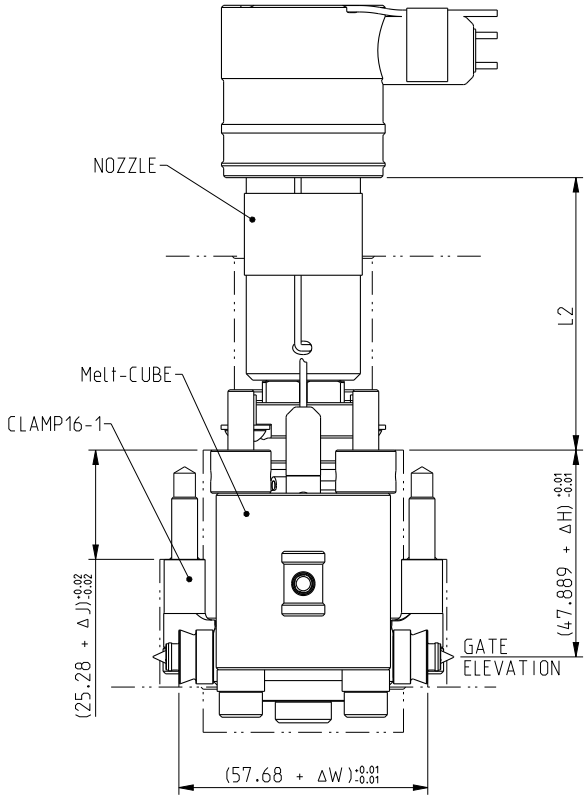
Melt-CUBE #	POWER @ 220V
MC21XX09B4000-B	700W
MC0H2009B4000-B	700W
MC0H2509B4000-B	700W
MCHH1009A4000-B	850W
MCHH1509A4000-B	950W
MCHH2009A4000-B	1350W
MCHH2509A4000-B	1400W

NOZZLE #	L2 ①
NZMSCB1A020-*	35.16
NZMSCB1A030-*	45.15
NZMSCB1A045-*	60.19
NZMSCB1A060-*	75.22
NZMSCB1A075-*	90.26
NZMSCB1A090-*	105.30
NZMSCB1A120-*	135.38
NZMSCB1A150-*	165.46
NZMSCB1A180-*	195.54

NOZZLE #	L2 ①
NZMSDB1A028-*	43.16
NZMSDB1A048-*	63.23
NZMSDB1A068-*	83.30
NZMSDB1A088-*	103.36
NZMSDB1A108-*	123.42
NZMSDB1A128-*	143.48
NZMSDB1A148-*	163.53
NZMSDB1A168-*	183.59
NZMSDB1A188-*	203.66
NZMSDB1A208-*	223.73



MC0H2509B4000-B SHOWN



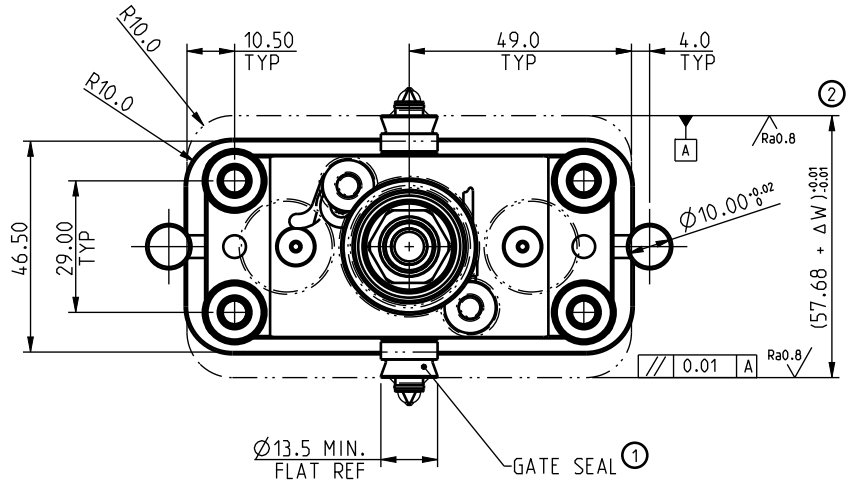
MCHH2509A4000-B SHOWN

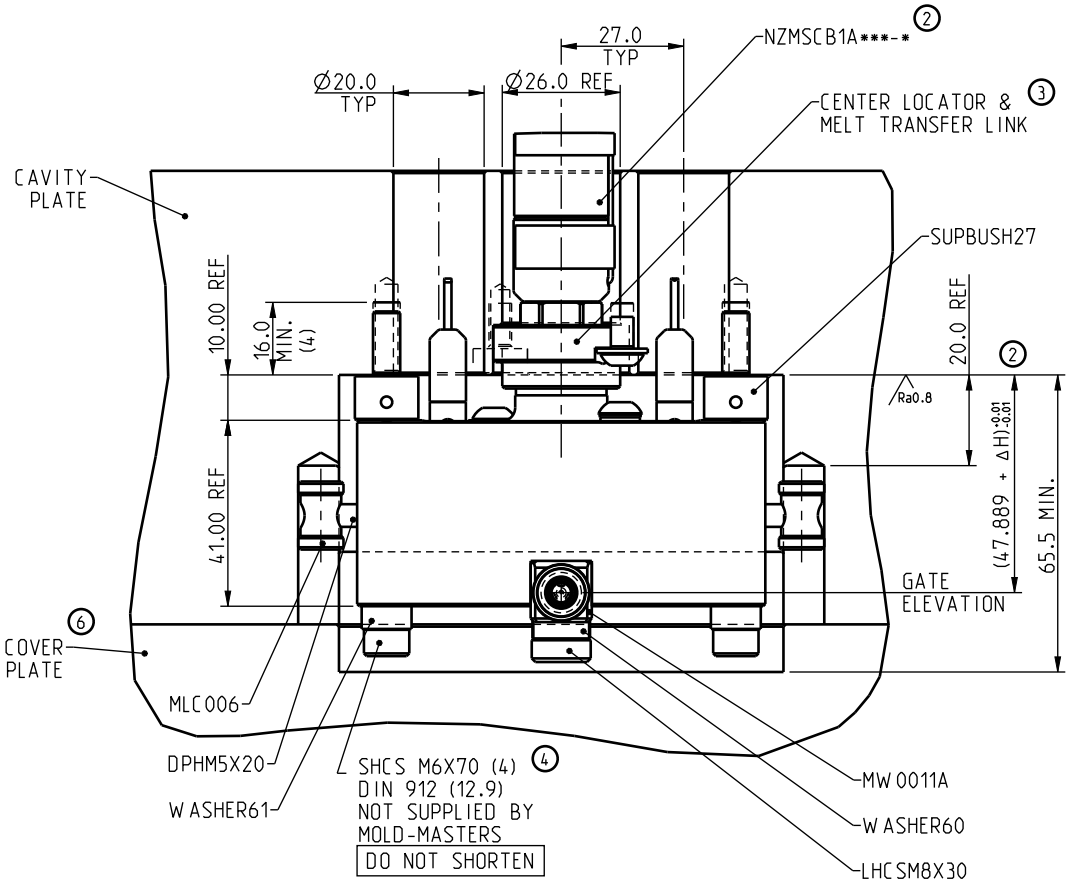
① "L2" VALUE IS BASED UPON NOZZLE HEAT EXPANSION ΔT UP TO 250°C. FOR APPLICATIONS IN WHICH ΔT EXCEEDS 250°C, PLEASE CONTACT MOLD-MASTERS.

② EXPANSION CHART ONLY APPLY TO Melt-CUBE HORIZONTAL GATE; CAVITY NUMBER UP TO 8.

LTR	② EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
ΔW	0.065	0.080	0.100	0.120
ΔH	0.083	0.111	0.139	0.167
ΔJ	0.06	0.08	0.10	0.12

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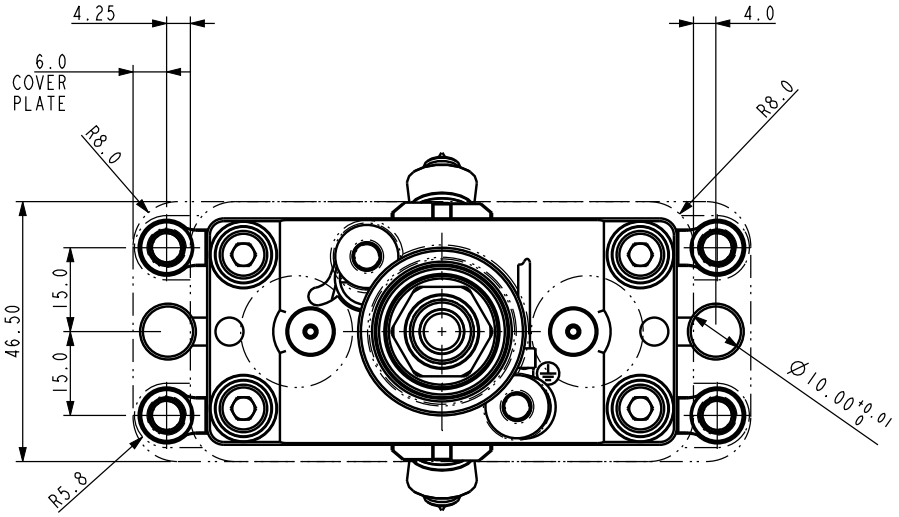


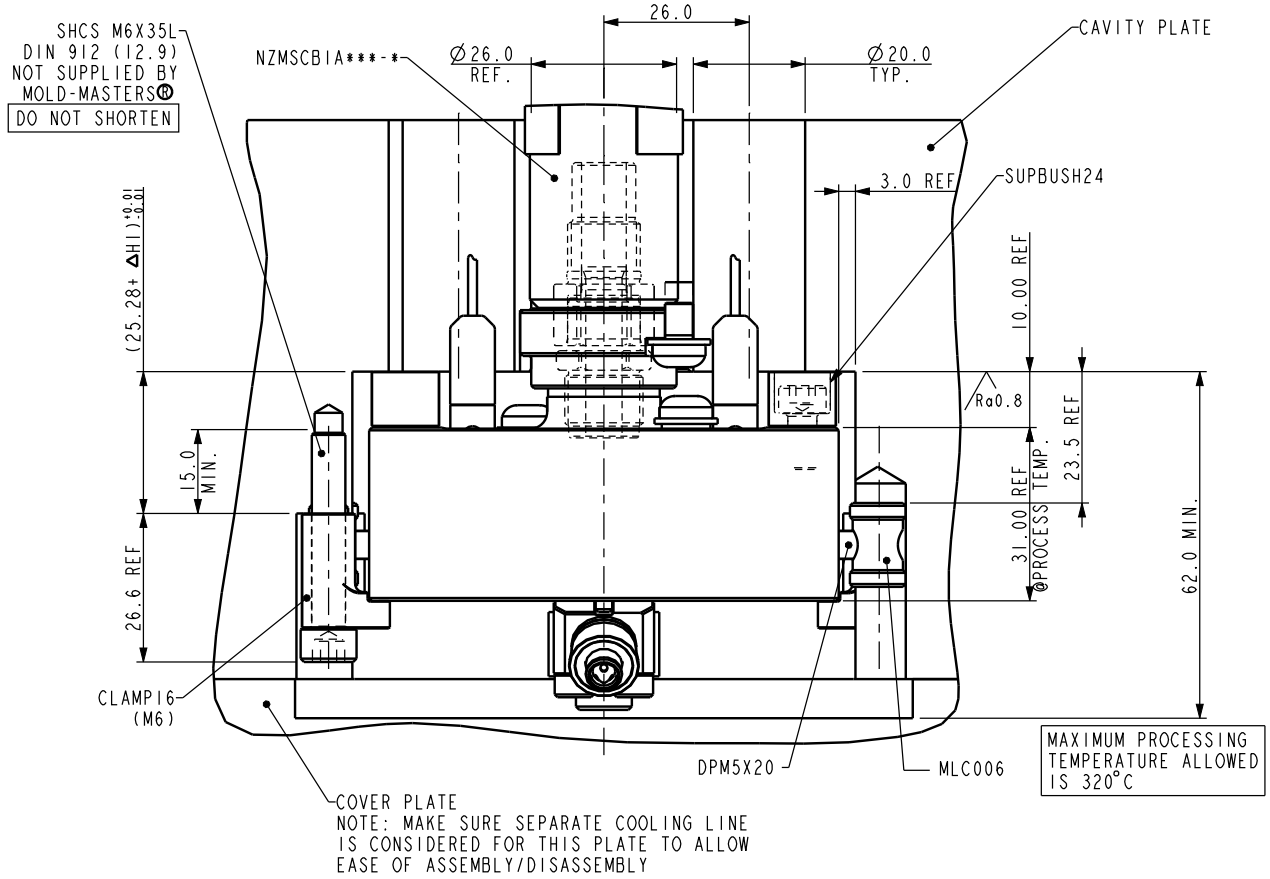
1. SEE PAGE 06.01.001-1 FOR GATING STYLE OPTIONS.
2. SEE PAGE 06.01.237 FOR NOZZLE OPTIONS AND EXPANSION VALUES.
3. SEE PAGE 06.01.290 FOR CENTER LOCATOR & MELT TRANSFER LINK DETAILS.
4. SEE USER MANUAL FOR TORQUE VALUES.
5. MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C.
6. SEPARATE COOLING LINE IS RECOMMENDED FOR COVER PLATE TO ALLOW EASE OF ASSEMBLY & DISASSEMBLY.

Melt-CUBE #
MC2IXX09B4000-B

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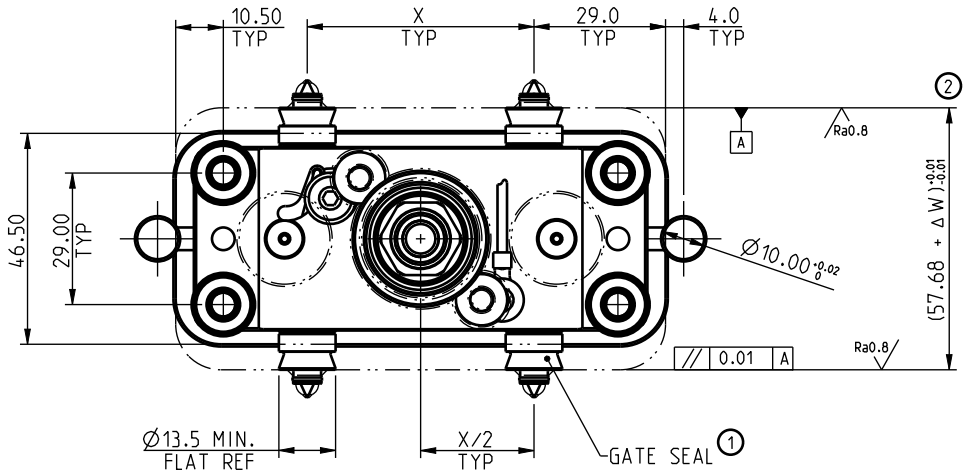


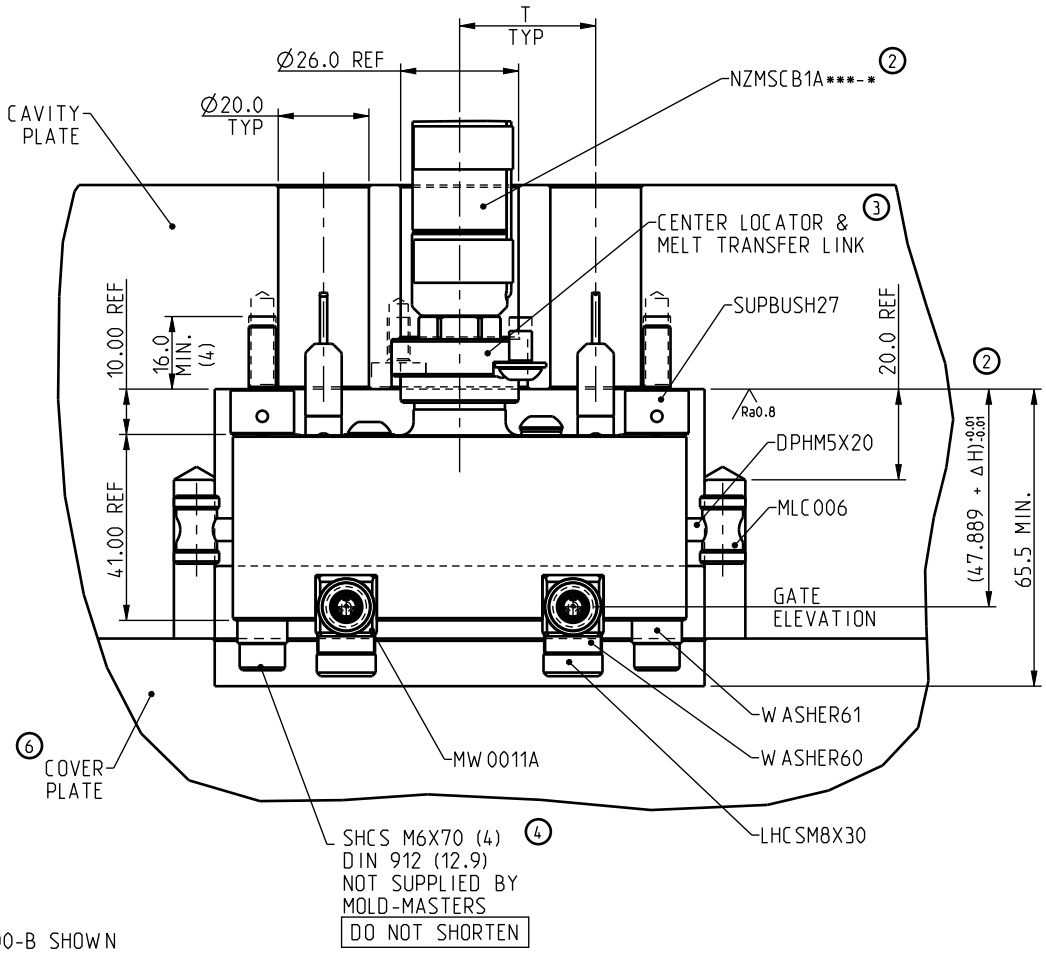
MC2IXX09B4000-A, 600W/220V
WITH 30° ANGLE TIPS IS SHOWN

SEE USER MANUAL FOR TORQUE VALUES

	EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
ΔHI	0.060	0.080	0.100	0.120

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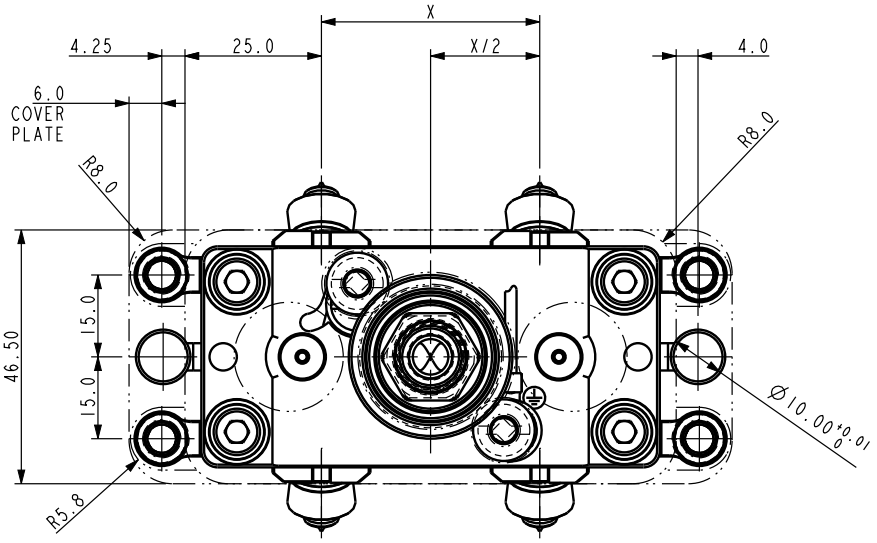
MC0H2509B4000-B SHOWN

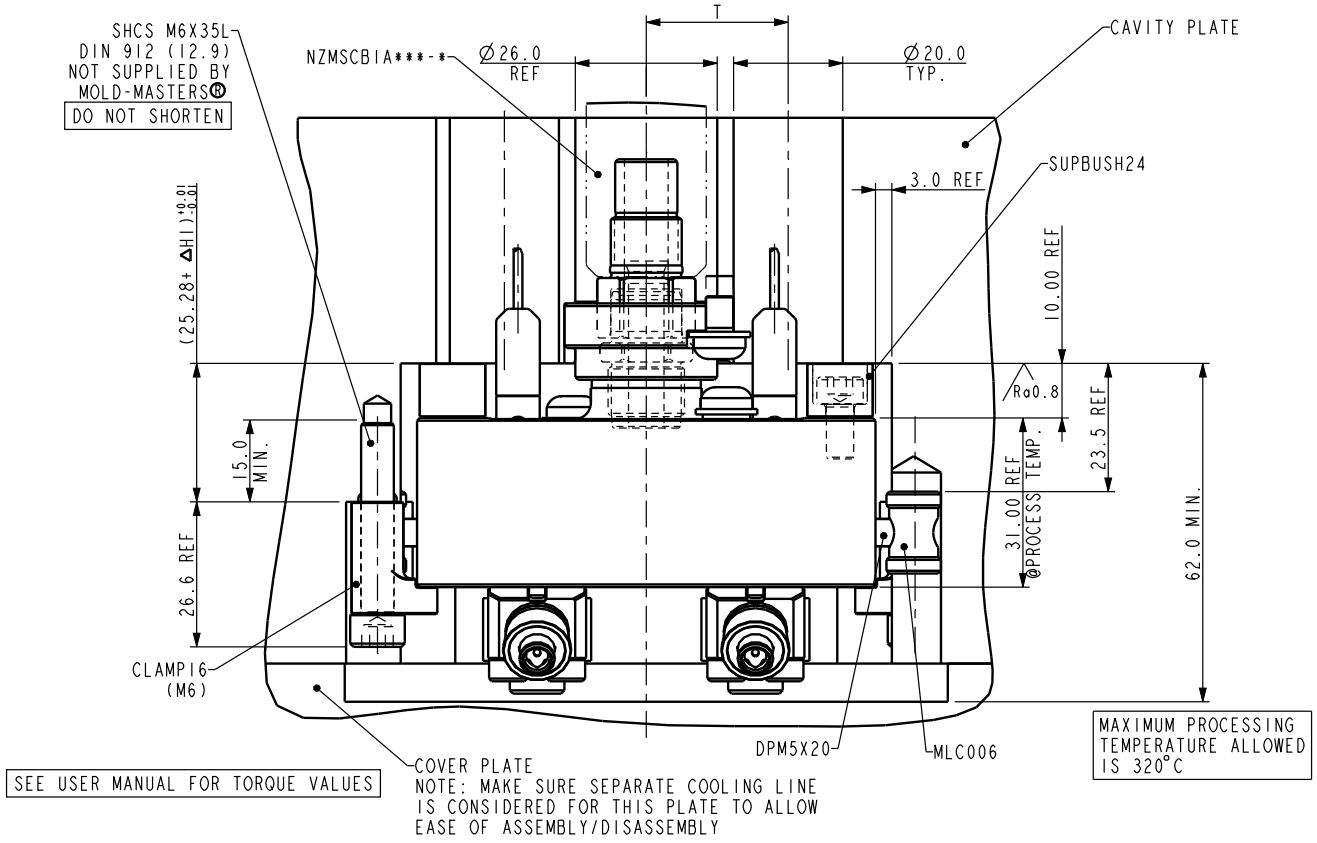
1. SEE PAGE 06.01.001-1 FOR GATING STYLE OPTIONS.
2. SEE PAGE 06.01.237 FOR NOZZLE OPTIONS AND EXPANSION VALUES.
3. SEE PAGE 06.01.290 FOR CENTER LOCATOR & MELT TRANSFER LINK DETAILS.
4. SEE USER MANUAL FOR TORQUE VALUES.
5. MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C.
6. SEPARATE COOLING LINE IS RECOMMENDED FOR COVER PLATE TO ALLOW EASE OF ASSEMBLY & DISASSEMBLY.

Melt-CUBE #	X	T
MC0H2009B4000-B	40.00	27.0
MC0H2509B4000-B	50.00	30.0

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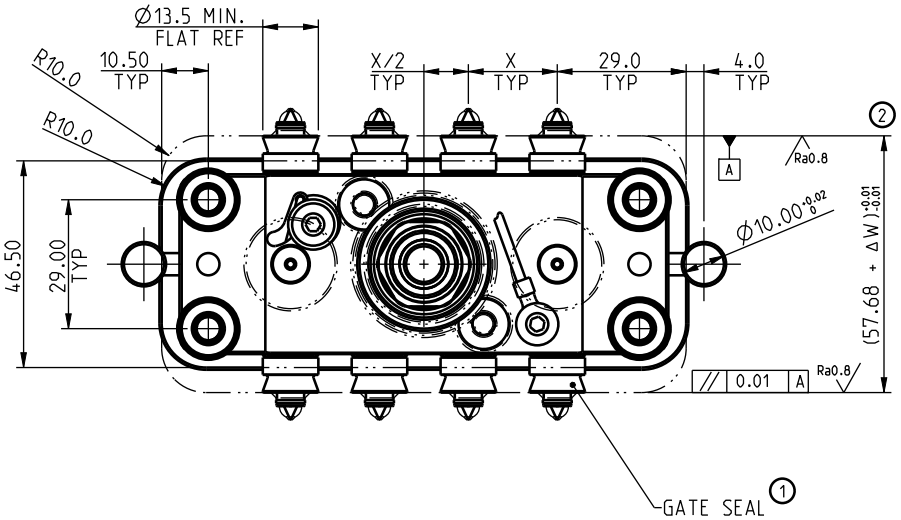


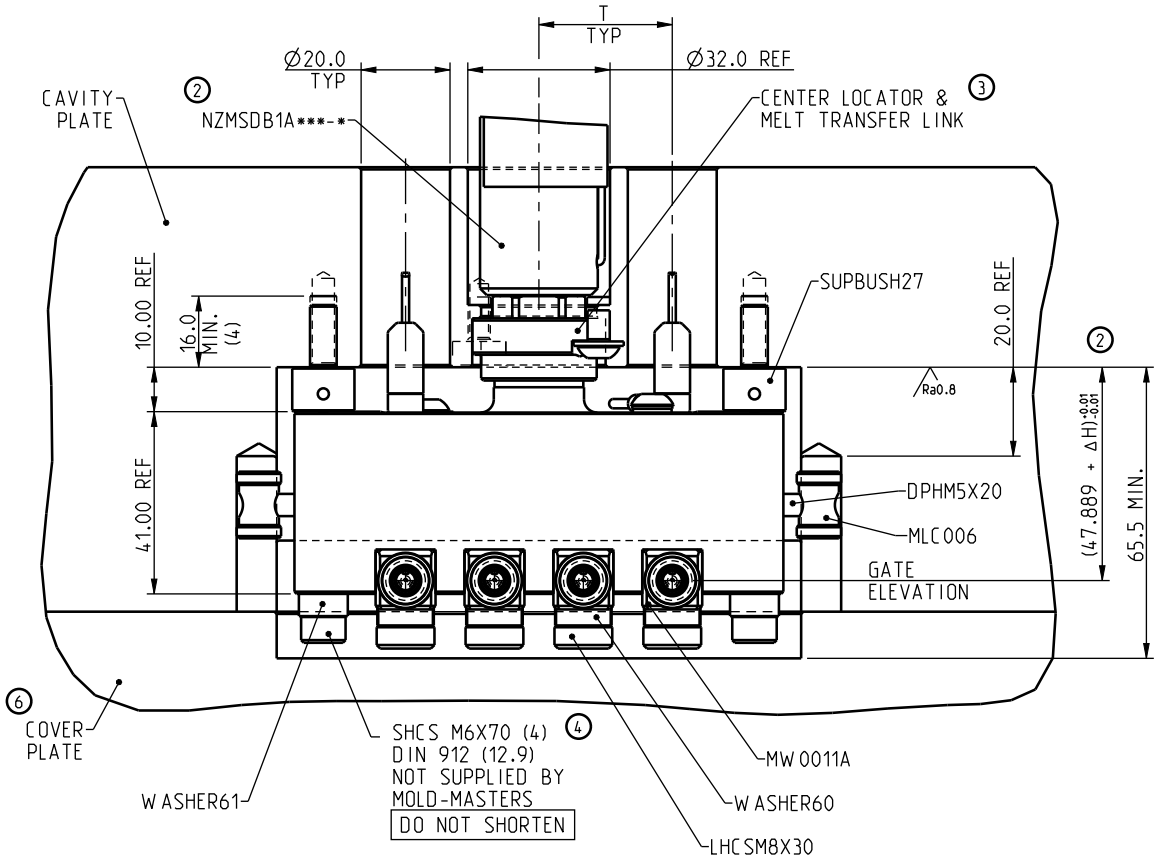
MC0H2009B4000-A WITH 30° ANGLE TIPS IS SHOWN

MELT-CUBE OPTIONS	POWER @220V	PITCH X	T
MC0H2009B4000-A	600W	40.00	26.0
MC0H2509B4000-A	600W	50.00	30.0

	EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
ΔH1	0.060	0.080	0.100	0.120

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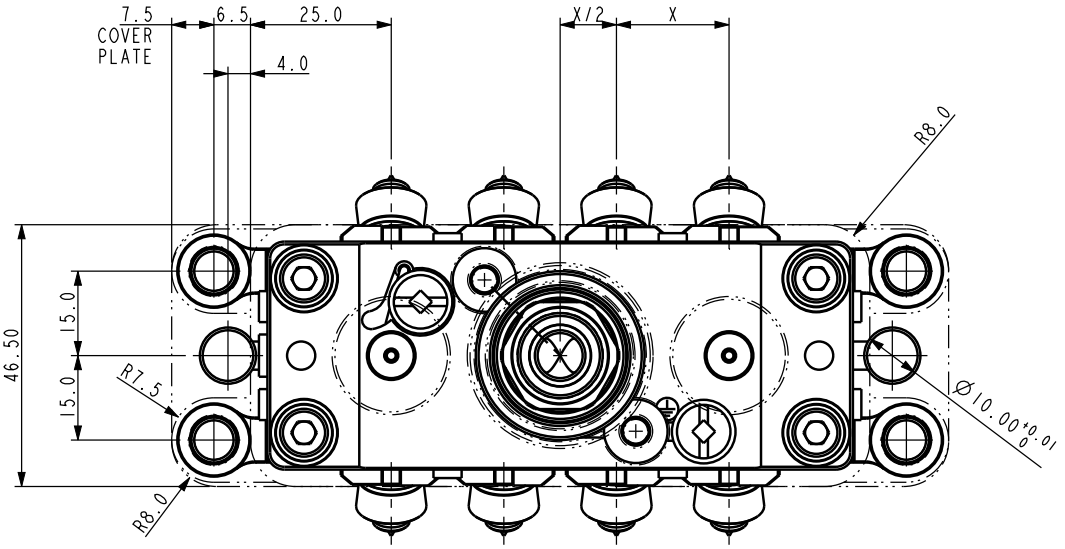


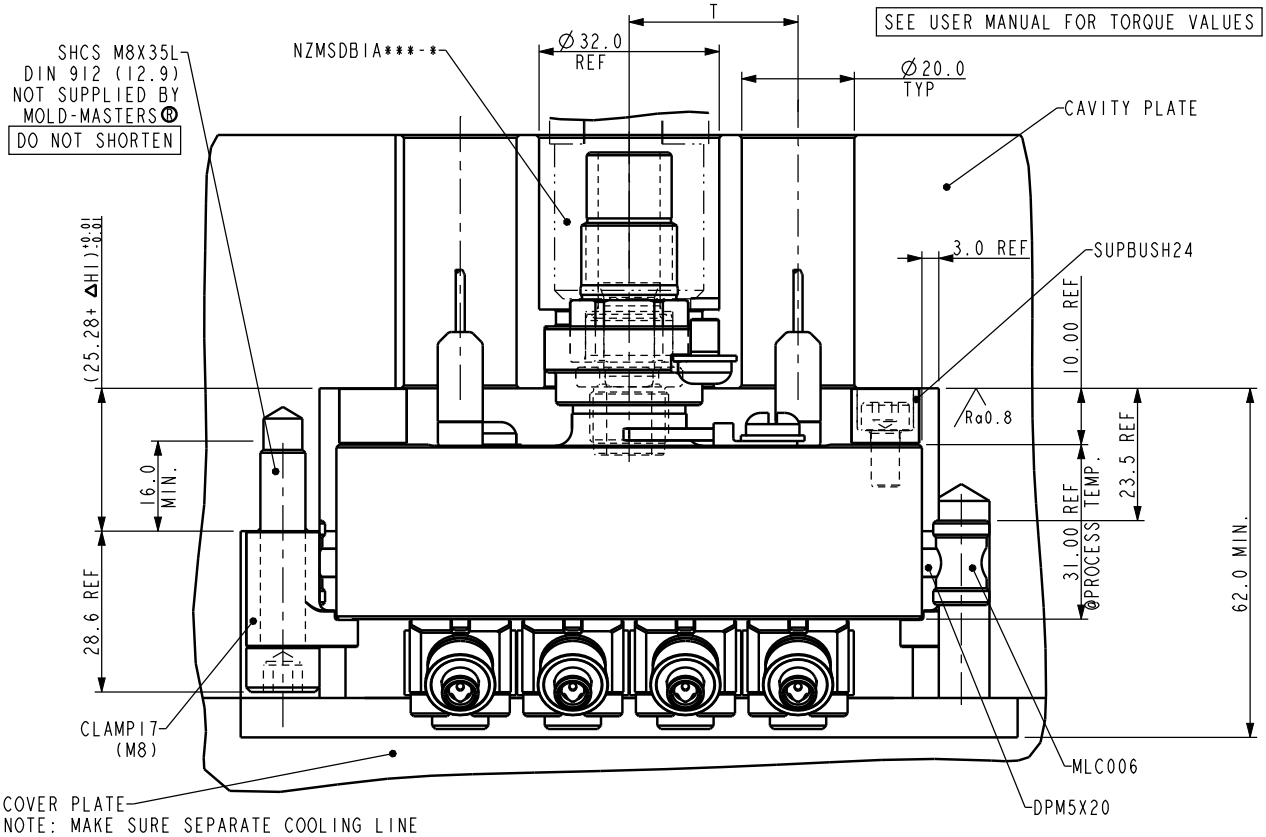
MCHH1009A4000-B SHOWN

1. SEE PAGE 06.01.001-1 FOR GATING STYLE OPTIONS.
2. SEE PAGE 06.01.237 FOR NOZZLE OPTIONS AND EXPANSION VALUES.
3. SEE PAGE 06.01.290 FOR CENTER LOCATOR & MELT TRANSFER LINK DETAILS.
4. SEE USER MANUAL FOR TORQUE VALUES.
5. MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C.
6. SEPARATE COOLING LINE IS RECOMMENDED FOR COVER PLATE TO ALLOW EASE OF ASSEMBLY & DISASSEMBLY.

Melt-CUBE #	X	T
MCHH1009A4000-B	20.00	30.0
MCHH1509A4000-B	30.00	45.0

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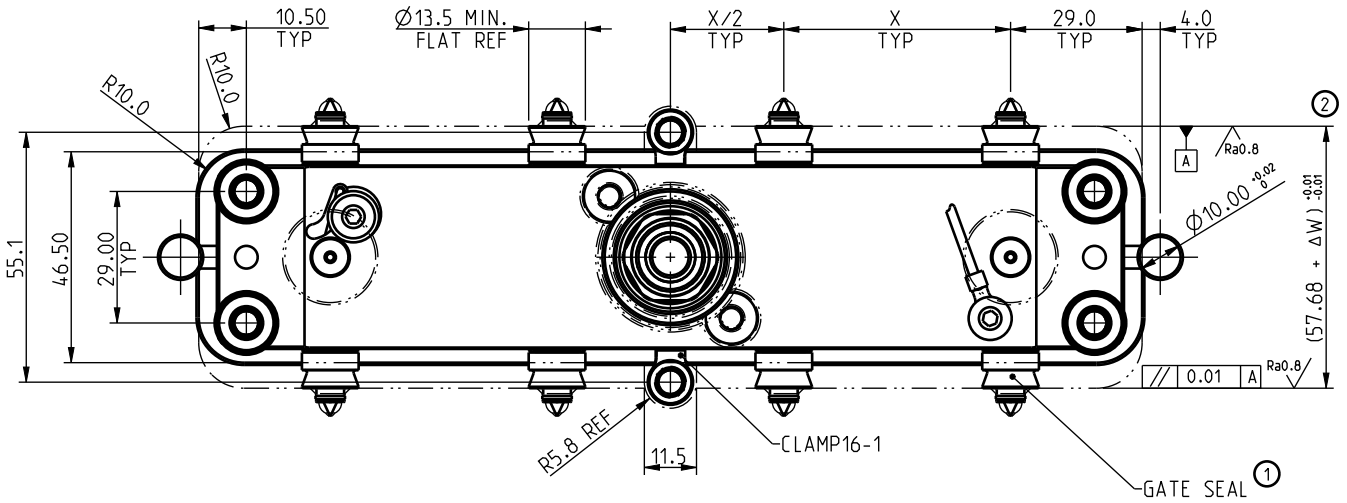
MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C

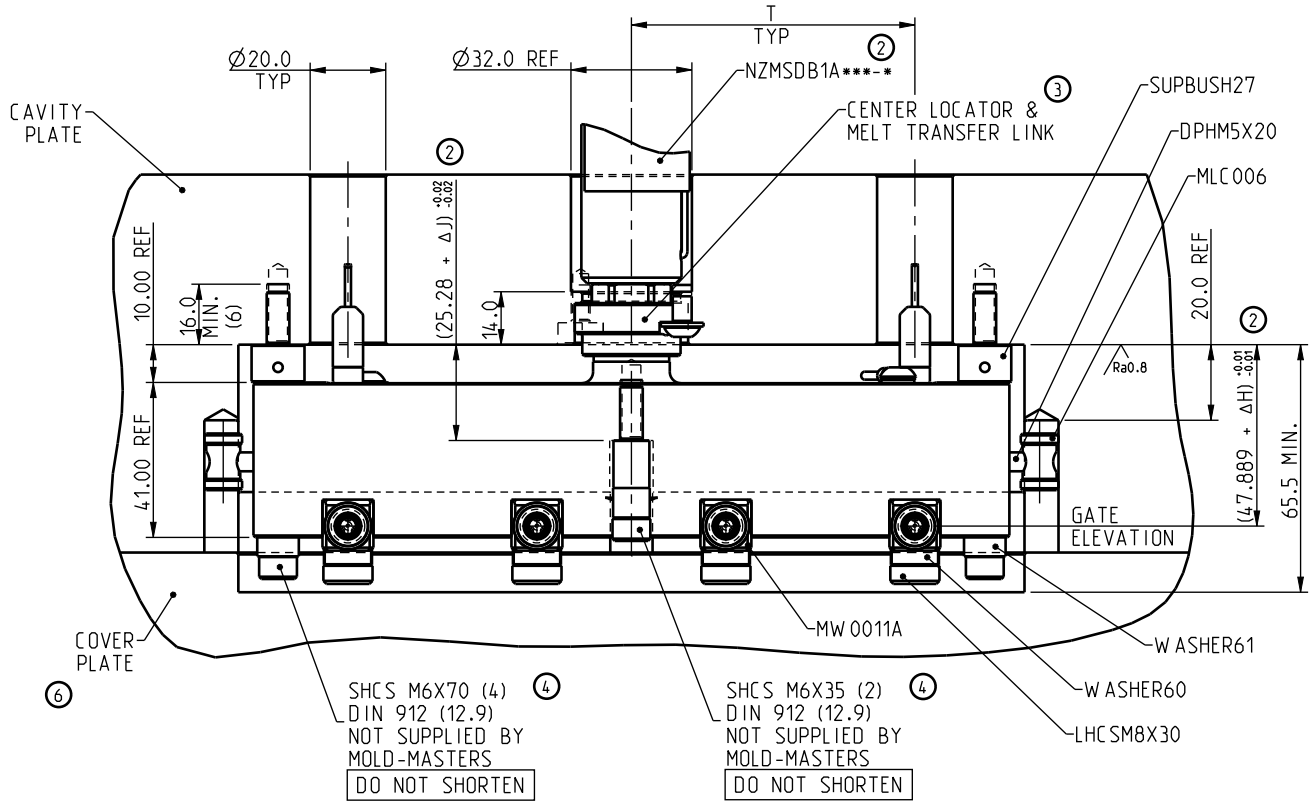
MCHHI009A4000-A WITH 30° ANGLE TIPS IS SHOWN

MELT-CUBE OPTIONS	POWER @220V	PITCH X	T
MCHHI009A4000-A	800W	20.00	30.0
MCHHI509A4000-A	800W	30.00	45.0

	EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
ΔHI	0.060	0.080	0.100	0.120

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MCHH2509A4000-B SHOWN

1. SEE PAGE 06.01.001-1 FOR GATING STYLE OPTIONS.
2. SEE PAGE 06.01.237 FOR NOZZLE OPTIONS AND EXPANSION VALUES.
3. SEE PAGE 06.01.290 FOR CENTER LOCATOR & MELT TRANSFER LINK DETAILS.
4. SEE USER MANUAL FOR TORQUE VALUES.
5. MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C.
6. SEPARATE COOLING LINE IS RECOMMENDED FOR COVER PLATE TO ALLOW EASE OF ASSEMBLY & DISASSEMBLY.

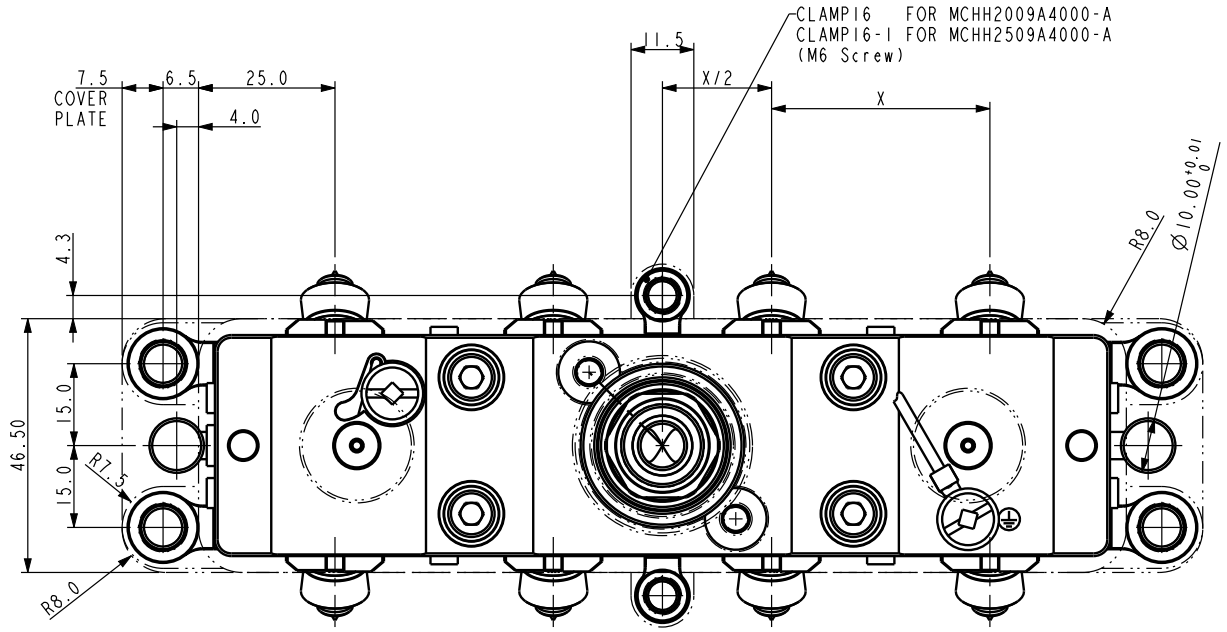
Melt-CUBE #	X	T
MCHH2009A4000-B	40.00	60.0
MCHH2509A4000-B	50.00	75.0

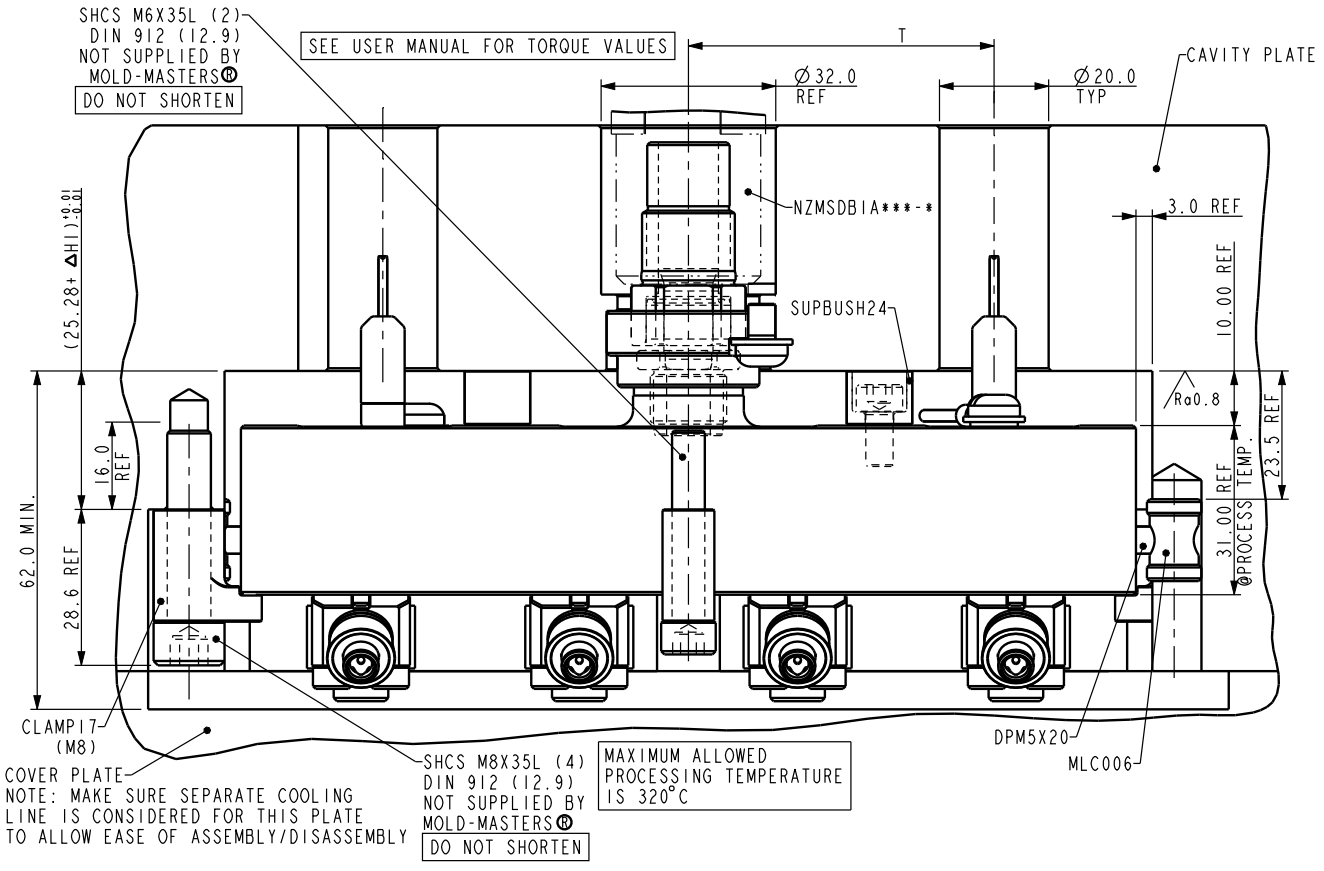
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Melt-CUBE HH Pitch X = 40/50 (Angled Tip)

06.01.255B



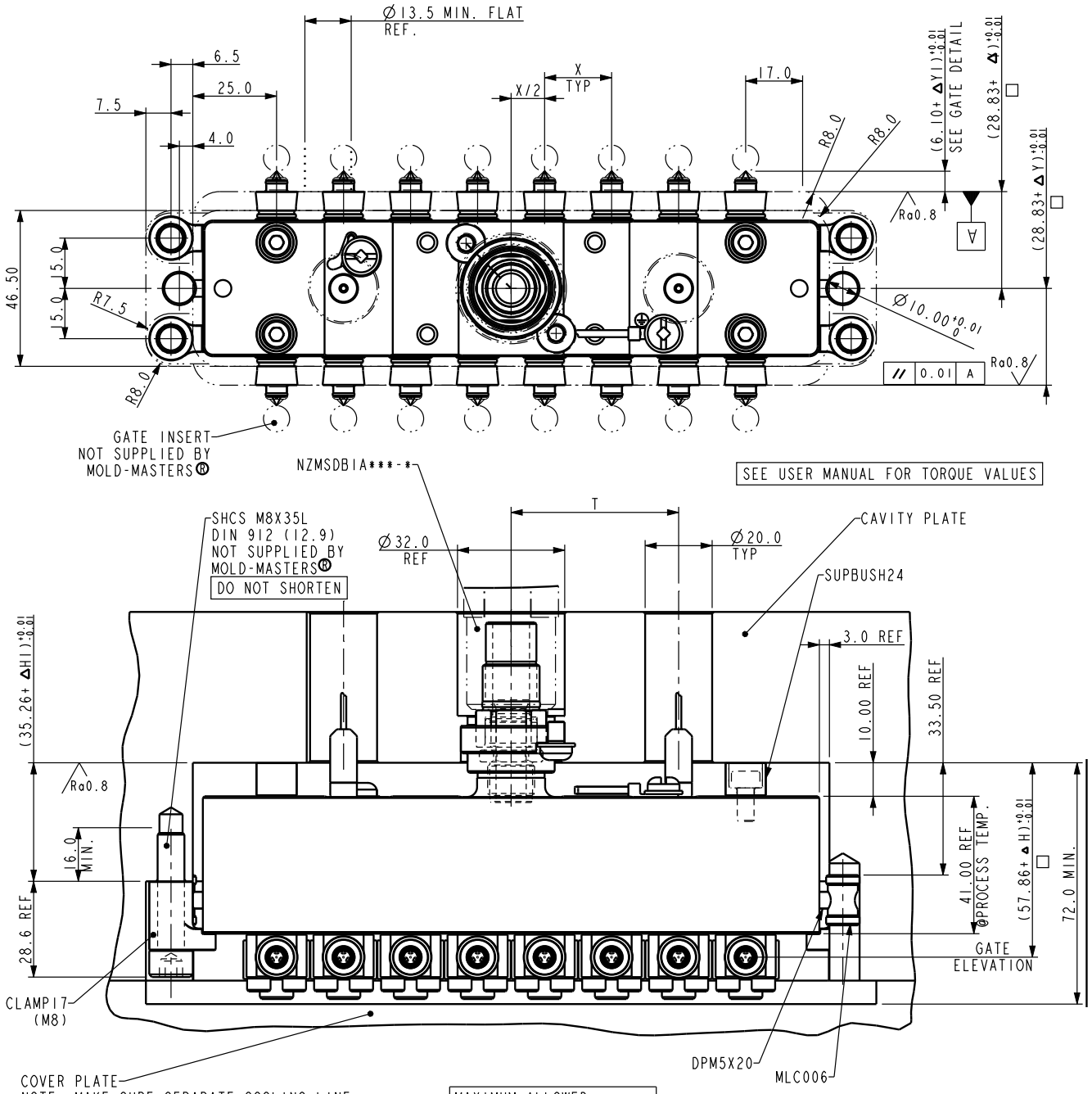


MCHH2009A4000-A WITH 30° ANGLE TIPS IS SHOWN

MELT-CUBE OPTIONS	POWER @220V	PITCH X	T
MCHH2009A4000-A	1200W	40.00	56.0
MCHH2509A4000-A	1200W	50.00	71.0

	EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
ΔH1	0.060	0.080	0.100	0.120

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□ DIMENSION APPLIES ONLY TO ZERO ANGLE TIPS

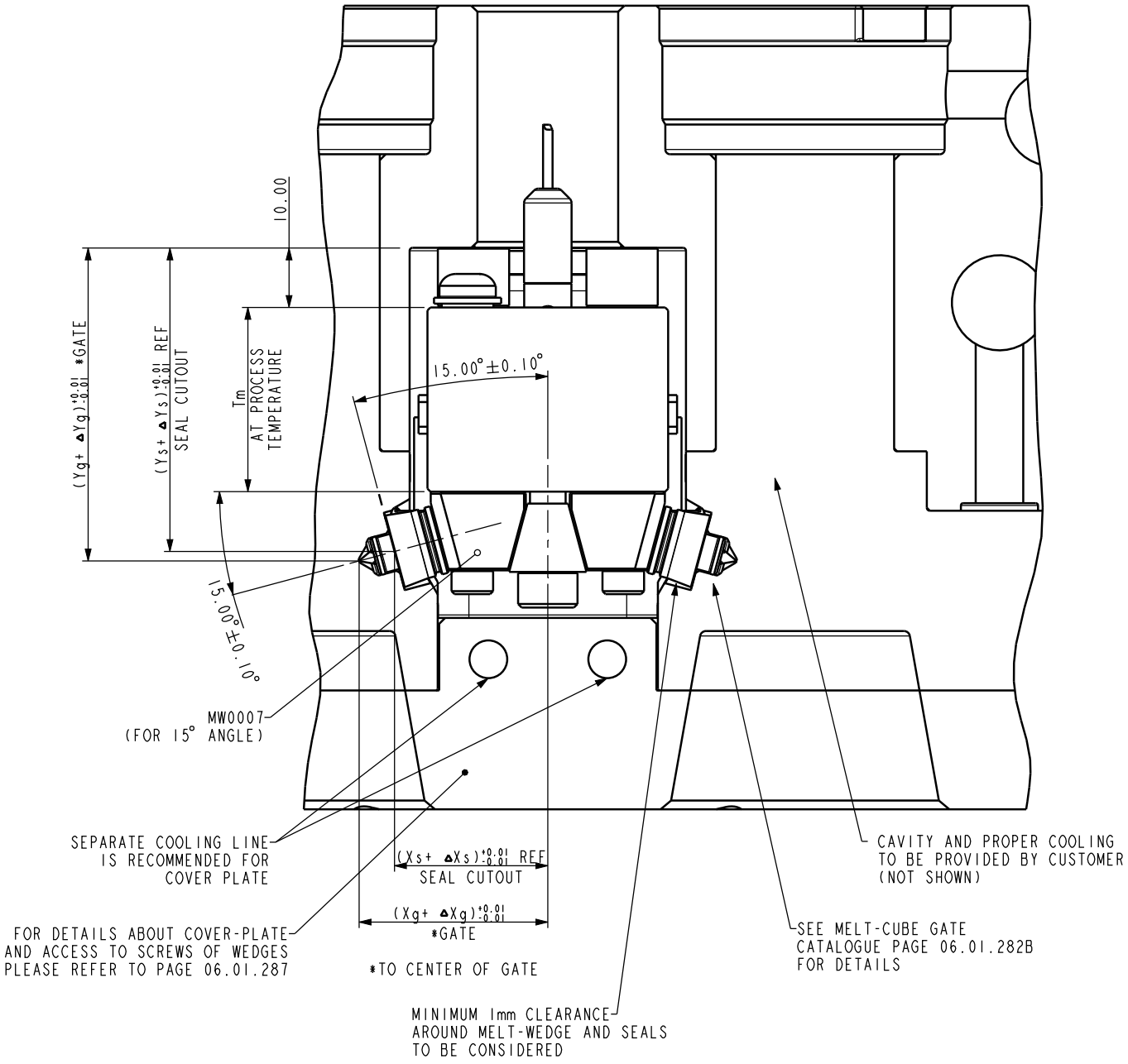
MC2HH1009C4000-A WITH ZERO ANGLE TIPS IS SHOWN

MELT-CUBE OPTIONS	POWER @220V	PITCH X	T
MC2HH1009C4000-A	1300W	20.00	50.0
MC2HH1509C4000-A	1950W	30.00	75.0

	EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
ΔY □	0.021	0.041	0.058	0.076
ΔY1	0.021	0.028	0.036	0.043
ΔH □	0.103	0.137	0.171	0.205
ΔH1	0.079	0.105	0.131	0.157

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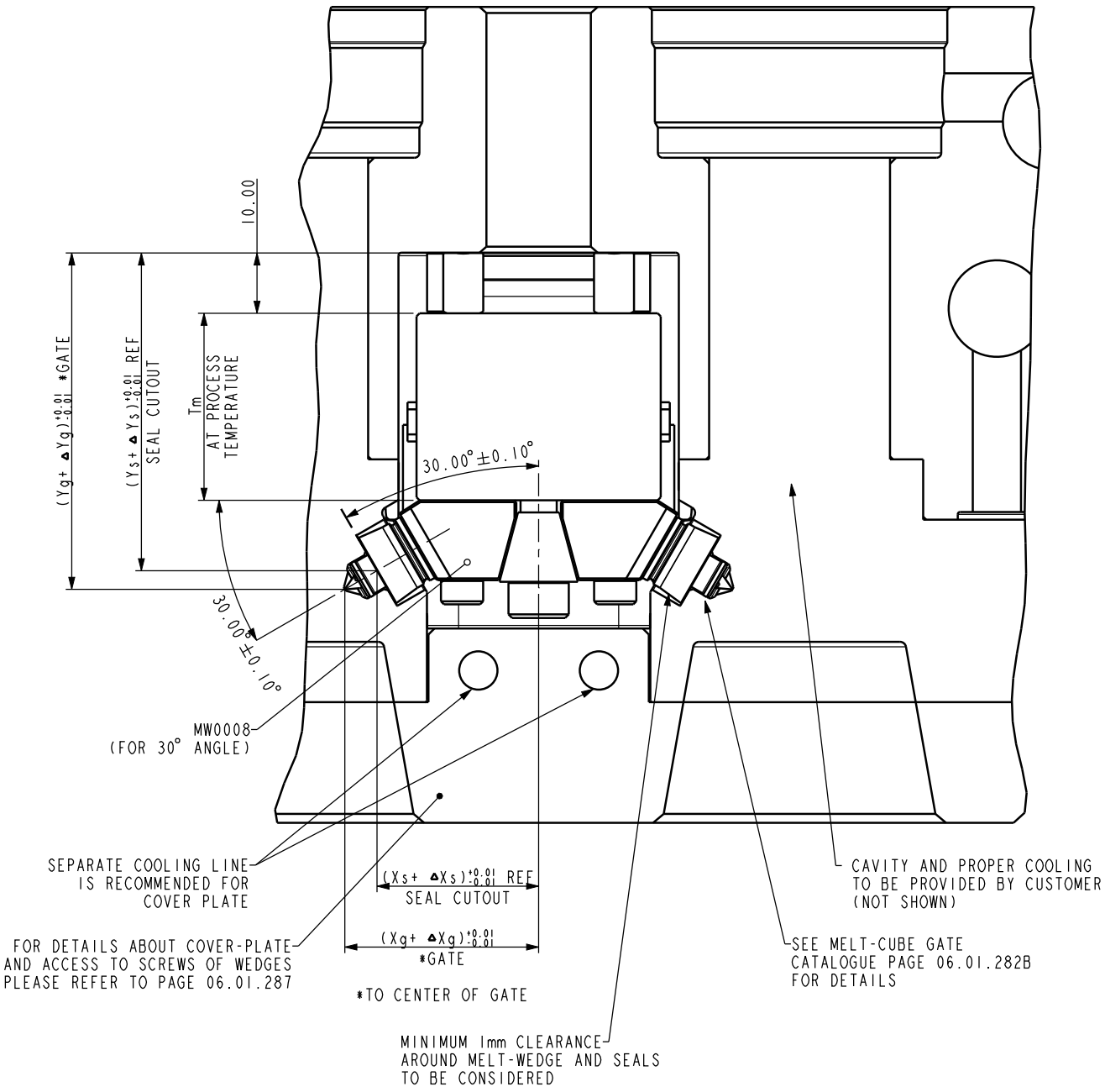
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FOR 2, 4, AND 8 CAVITY MELT-CUBE UNITS Tm=31.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 15°	GATE		SEAL (REF)	
BASE DIM	Xg=31.64	Yg=52.53	Xs=25.75	Ys=50.95
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.07	0.10	0.05	0.09
200°C	0.09	0.13	0.06	0.12
250°C	0.11	0.16	0.08	0.15
300°C	0.14	0.19	0.09	0.18

FOR 16 CAVITY MELT-CUBE UNITS Tm=41.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 15°	GATE		SEAL (REF)	
BASE DIM	Xg=31.64	Yg=62.51	Xs=25.75	Ys=60.93
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.07	0.11	0.05	0.11
200°C	0.09	0.15	0.06	0.14
250°C	0.11	0.19	0.08	0.18
300°C	0.14	0.22	0.09	0.21

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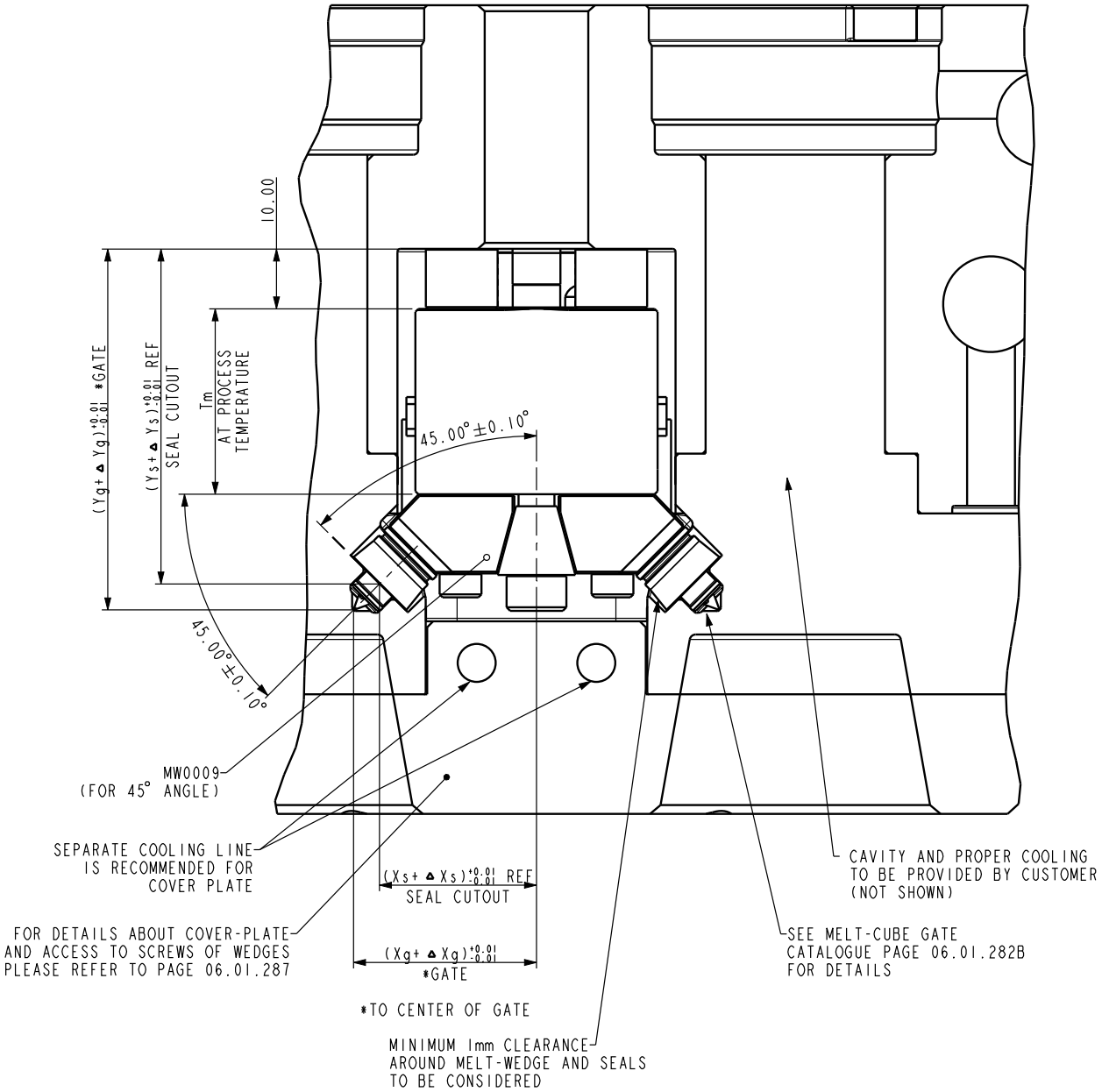


FOR 2, 4, AND 8 CAVITY MELT-CUBE UNITS Tm=31.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 30°	GATE		SEAL (REF)	
BASE DIM	Xg=32.04	Yg=55.61	Xs=26.76	Ys=52.56
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.07	0.10	0.05	0.09
200°C	0.10	0.13	0.07	0.12
250°C	0.12	0.16	0.09	0.15
300°C	0.14	0.20	0.10	0.18

FOR 16 CAVITY MELT-CUBE UNITS Tm=41.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 30°	GATE		SEAL (REF)	
BASE DIM	Xg=32.04	Yg=65.58	Xs=26.76	Ys=62.53
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.07	0.12	0.05	0.11
200°C	0.09	0.16	0.07	0.15
250°C	0.12	0.20	0.09	0.18
300°C	0.14	0.24	0.10	0.22

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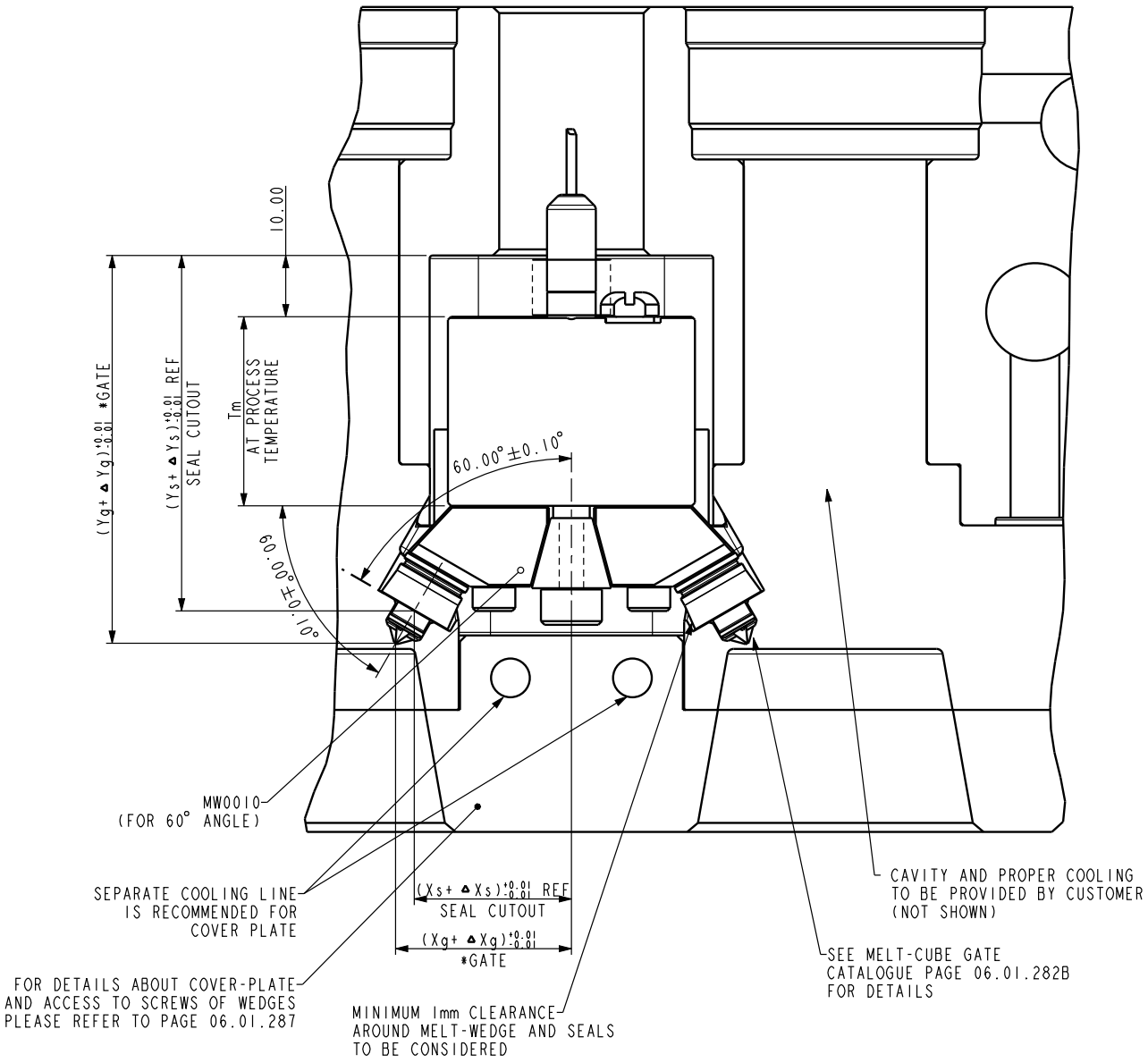
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FOR 2, 4, AND 8 CAVITY MELT-CUBE UNITS Tm=31.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 45°	GATE		SEAL (REF)	
BASE DIM	Xg=30.51	Yg=60.18	Xs=26.20	Ys=55.87
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.07	0.11	0.05	0.09
200°C	0.09	0.15	0.06	0.12
250°C	0.11	0.19	0.08	0.16
300°C	0.13	0.22	0.10	0.19

FOR 16 CAVITY MELT-CUBE UNITS Tm=41.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 45°	GATE		SEAL (REF)	
BASE DIM	Xg=30.51	Yg=70.15	Xs=26.20	Ys=65.84
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.07	0.13	0.05	0.12
200°C	0.09	0.18	0.06	0.15
250°C	0.11	0.22	0.08	0.19
300°C	0.13	0.26	0.10	0.23

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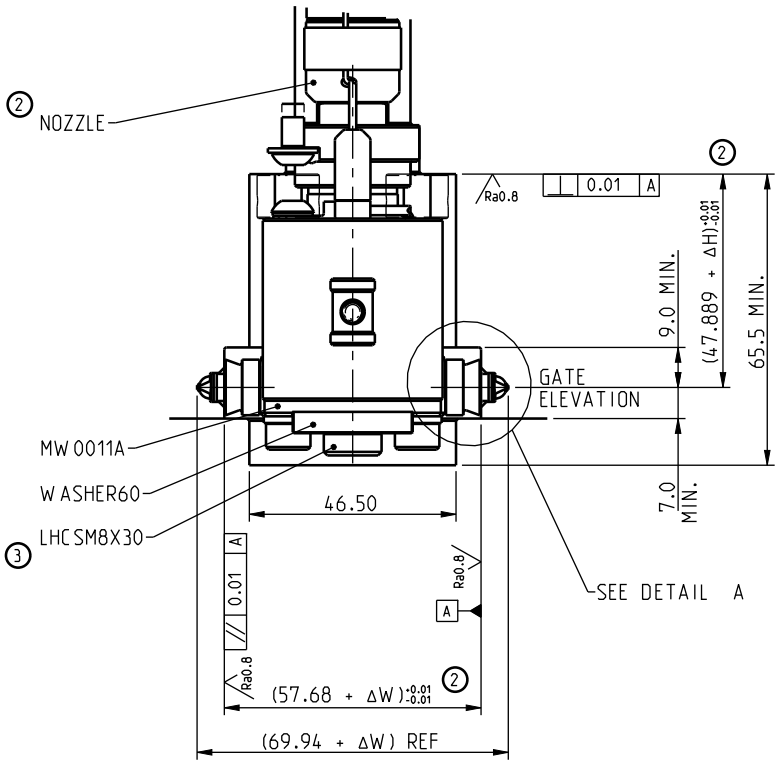


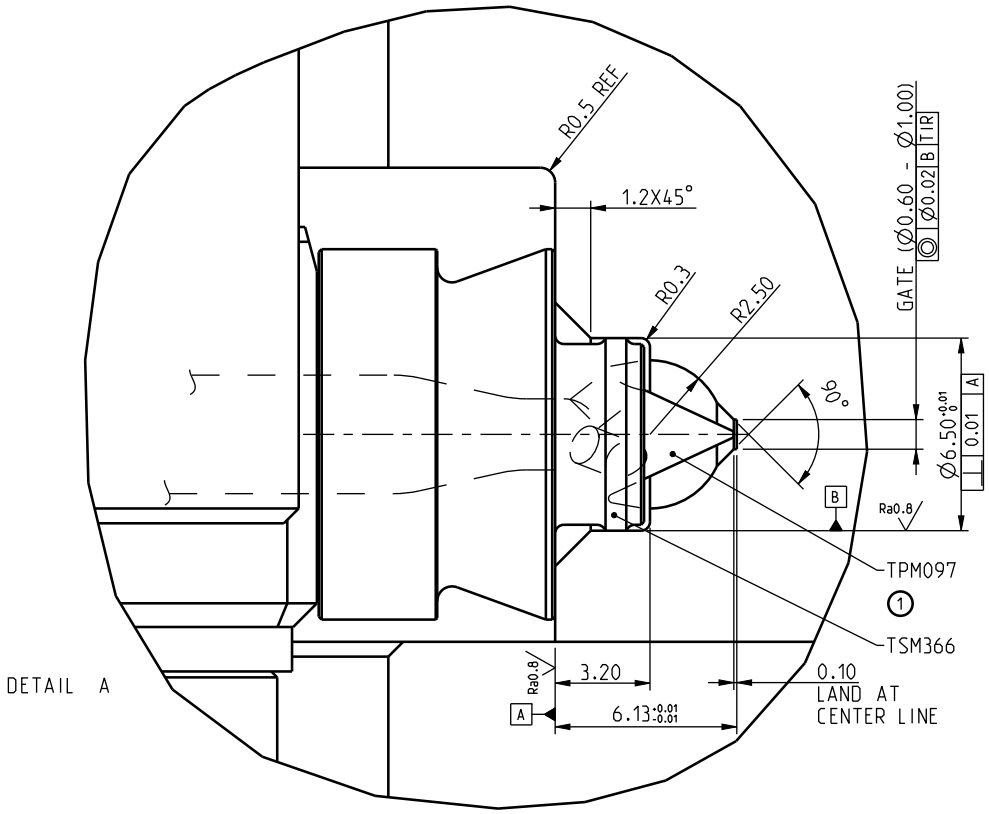
FOR 2, 4, AND 8 CAVITY MELT-CUBE UNITS Tm=31.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 60°	GATE		SEAL (REF)	
BASE DIM	Xg=28.79	Yg=63.38	Xs=25.74	Ys=58.09
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.06	0.11	0.05	0.10
200°C	0.08	0.15	0.07	0.14
250°C	0.10	0.19	0.08	0.17
300°C	0.12	0.23	0.10	0.20

FOR 16 CAVITY MELT-CUBE UNITS Tm=41.00 mm (AT PROCESS TEMPERATURE)				
ANGLE 60°	GATE		SEAL (REF)	
BASE DIM	Xg=28.79	Yg=73.35	Xs=25.74	Ys=68.07
ΔT (°C)	ΔXg	ΔYg	ΔXs	ΔYs
150°C	0.06	0.14	0.05	0.12
200°C	0.08	0.18	0.07	0.16
250°C	0.10	0.23	0.08	0.20
300°C	0.12	0.27	0.10	0.23

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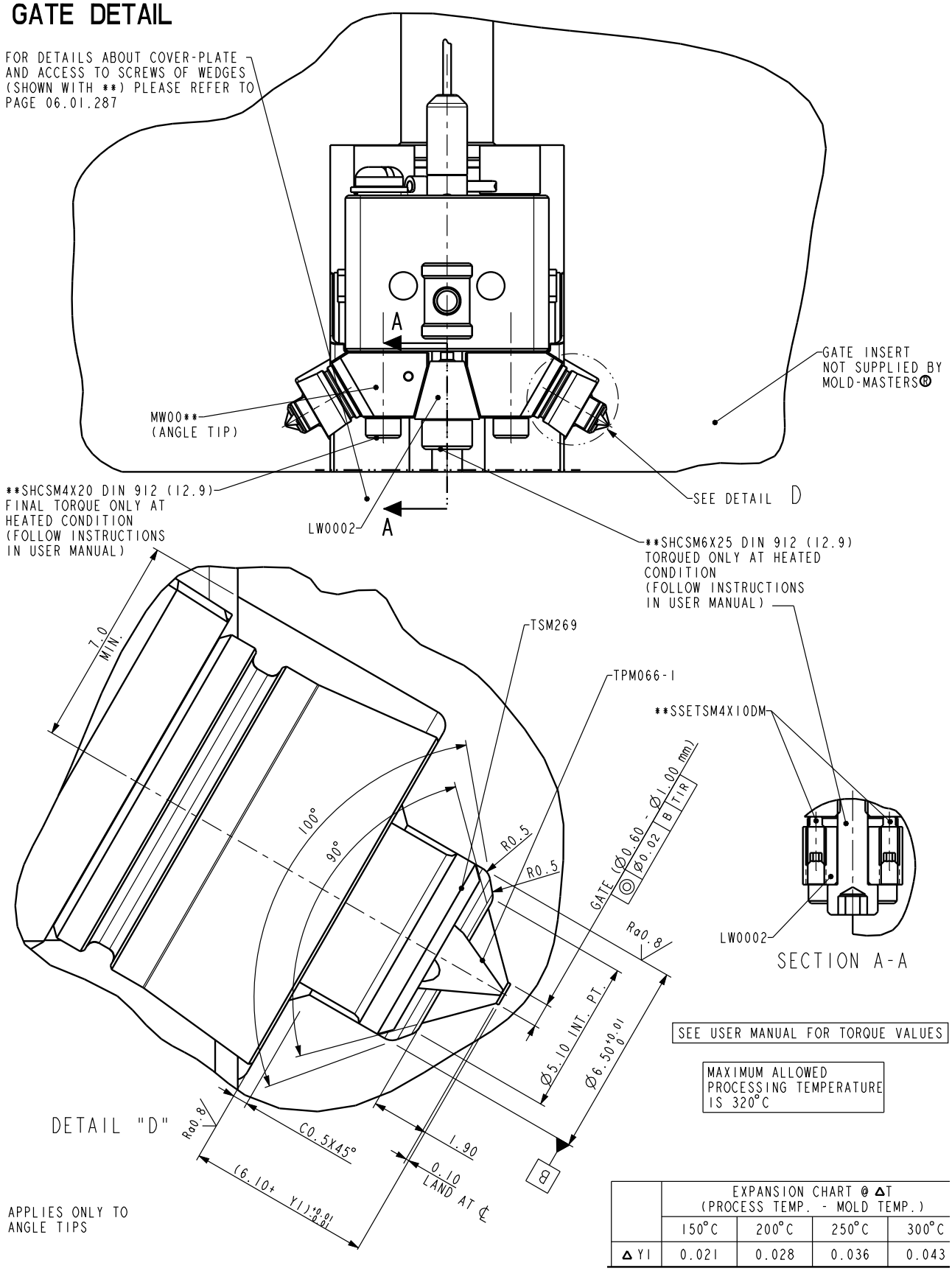




① SEE PAGE 06.01.001-1 FOR GATE SEAL OPTIONS.
② SEE PAGE 06.01.237 FOR NOZZLE OPTIONS AND EXPANSION VALUES.
③ SEE USER MANUAL FOR TORQUE VALUES.
④ MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C.

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GATE DETAIL



SEE USER MANUAL FOR TORQUE VALUES

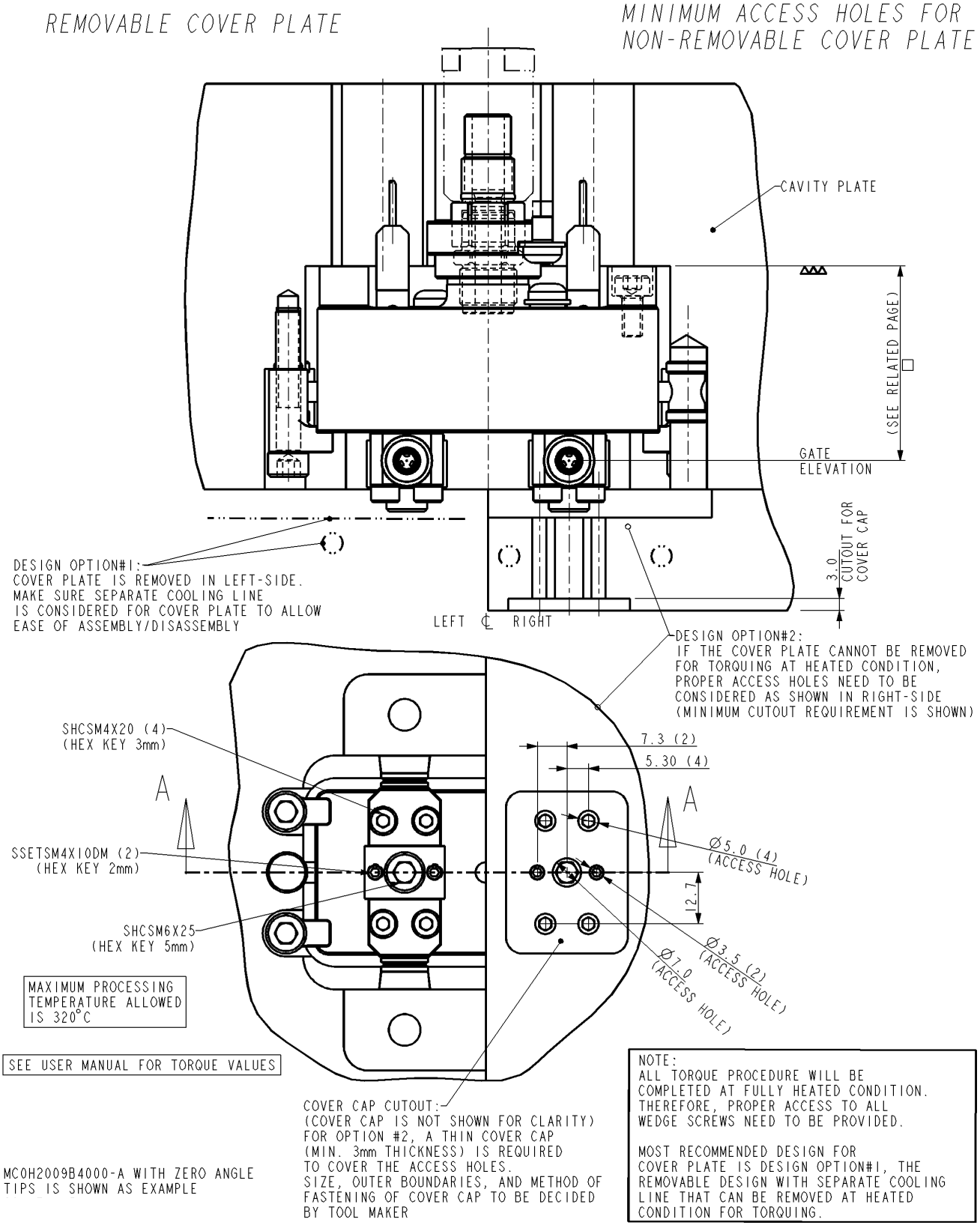
MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C

	EXPANSION CHART @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
	150°C	200°C	250°C	300°C
Δ Y1	0.021	0.028	0.036	0.043

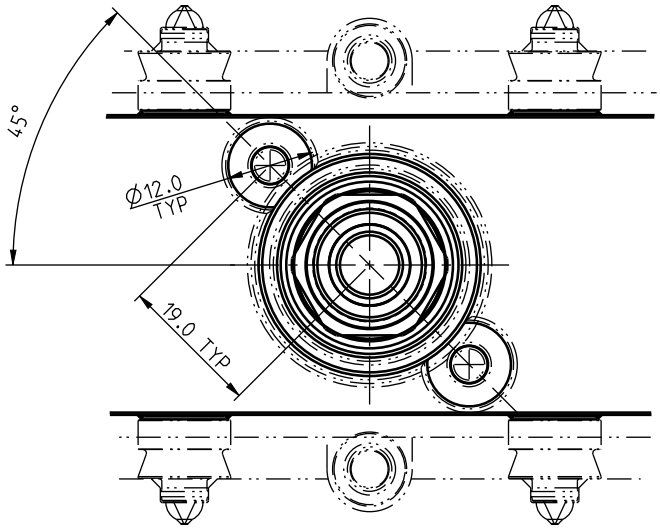
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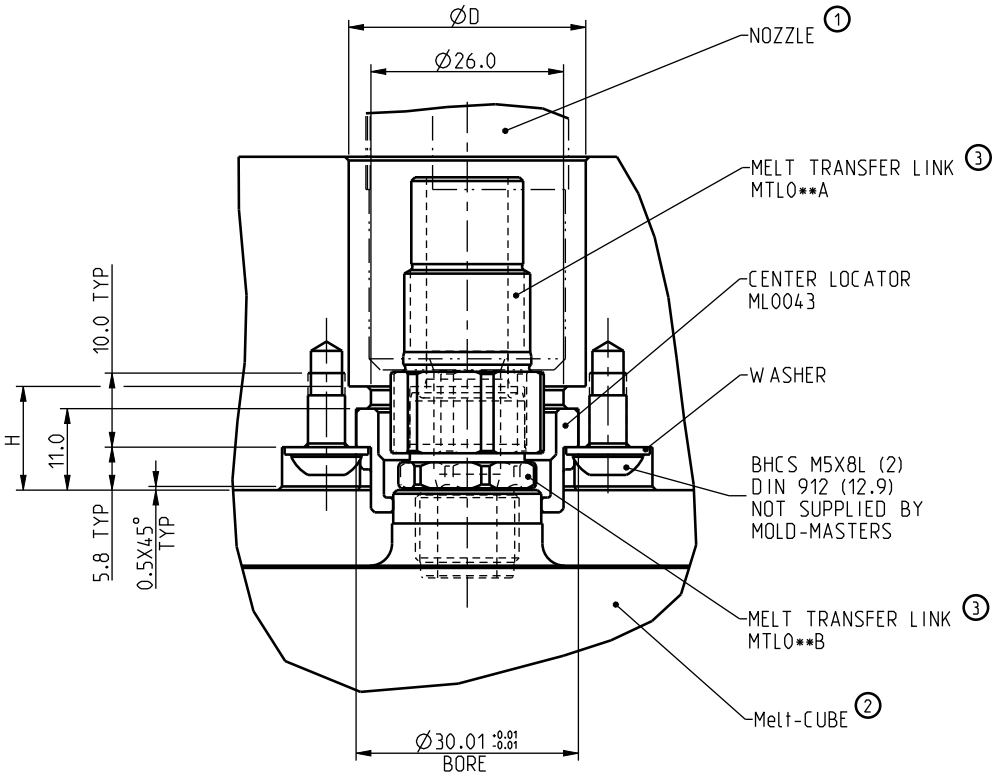
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COVER-PLATE DESIGN OPTIONS FOR TORQUING ACCESS



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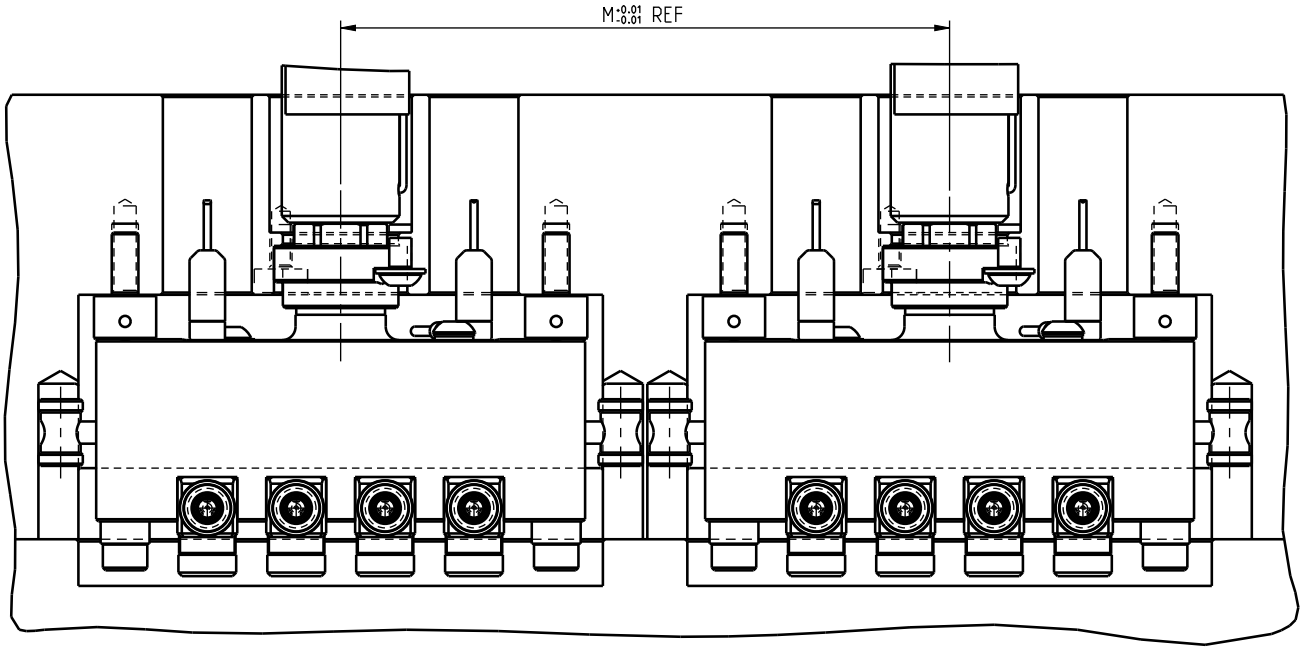
CAVITY #	NOZZLE # REF ②	MELT TRANSFER LINK OPTIONS ③	ØD	H
2 - 4	NZMSCB1A***-*	MTL016A + MTL016B	Ø26.0	N/A
8	NZMSDB1A***-*	MTL015A + MTL015B	Ø32.0	14.0
16	NZMSDB1A***-*	MTL015A + MTL017B	Ø32.0	14.0

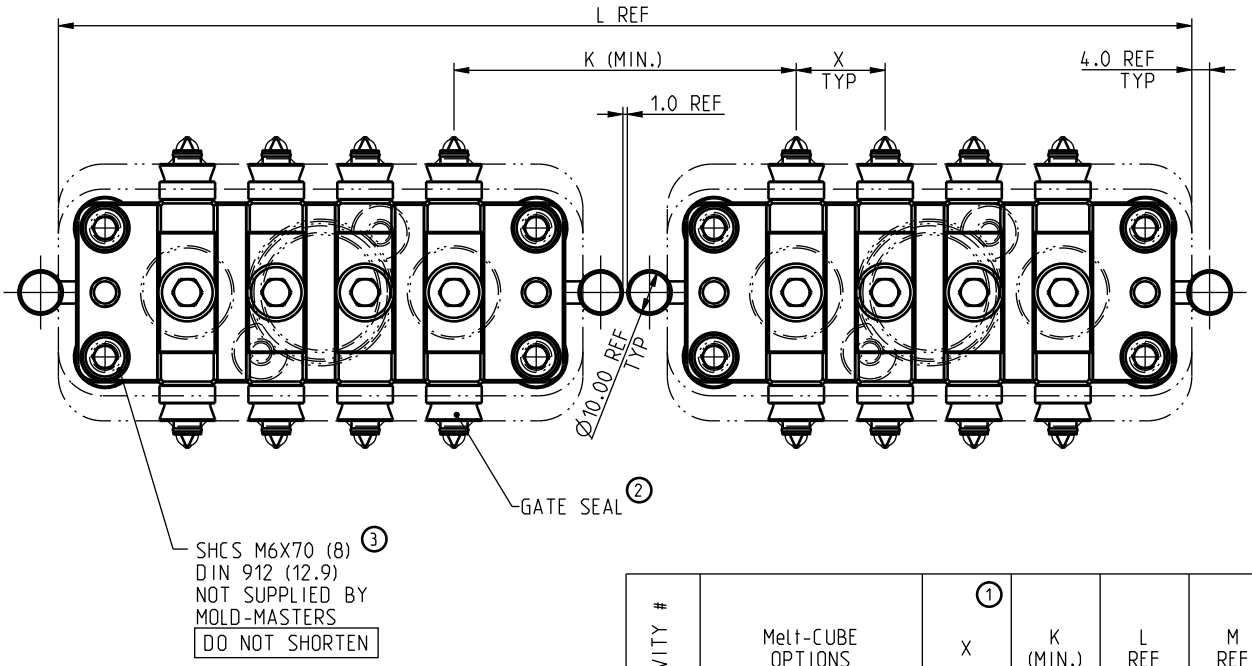
① SEE PAGE 06.01.235 FOR Melt-CUBE OPTIONS

② SEE PAGE 06.01.237 FOR NOZZLE OPTIONS

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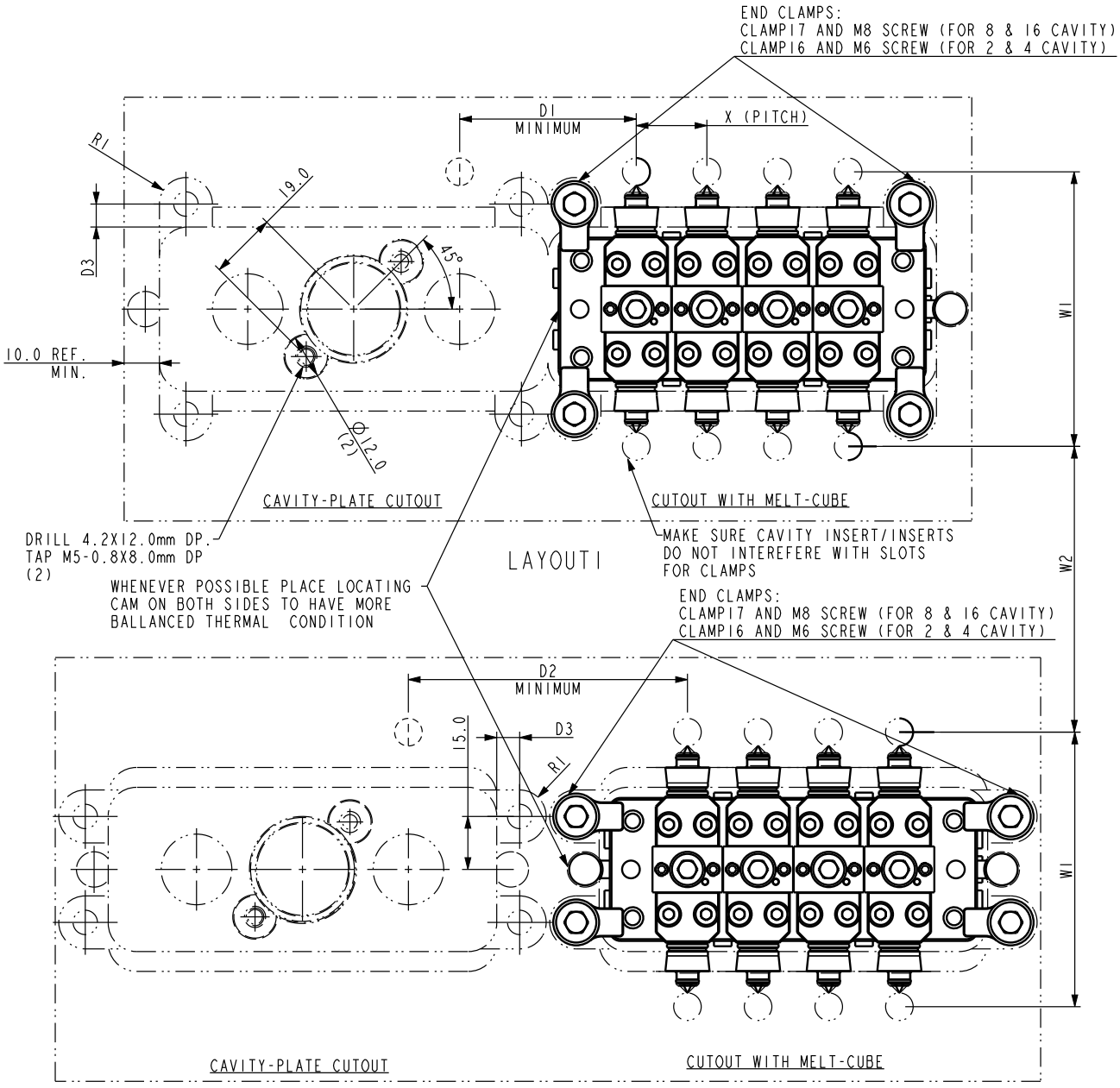


MCHH1009A4000-B SHOWN

CAVITY #	Melt-CUBE OPTIONS	X ①	K (MIN.)	L REF	M REF
2	MC2IXX09B4000-B	0.00	117.00	215.0	117.00
4	MC0H2009B4000-B	40.00	77.00	215.0	117.00
	MC0H2509B4000-B	50.00	77.00	235.0	127.00
8	MCHH1009A4000-B	20.00	77.00	255.0	137.00
	MCHH1509A4000-B	30.00	77.00	315.0	167.00
	MCHH2009A4000-B	40.00	77.00	375.0	197.00
	MCHH2509A4000-B	50.00	77.00	435.0	227.00

① SEE PAGES 06.01.240A / 245A / 250A / 255A FOR Melt-CUBE HORIZONTAL GATE CUT OUT DETAILS.
② SEE PAGE 06.01.001-1 FOR GATING STYLE OPTIONS.
③ SEE USER MANUAL FOR TORQUE VALUES.
④ MAXIMUM ALLOWED PROCESSING TEMPERATURE IS 320°C.

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NOTE:
DIMENSION "W1" IS DICTATED BY PLASTIC PART DESIGN, MELT-CUBE GEOMETRIES, PROCESSING & MOLD TEMPERATURES.
IF SPACING BETWEEN CAVITIES IN "Y" DIRECTION (↕) NEED TO FOLLOW CERTAIN PATTERN, MOLD DESIGNER NEED TO CONSIDER DIMENSION "W2" PROPERLY TO ACHEIVE REQUIRED PATTERN.

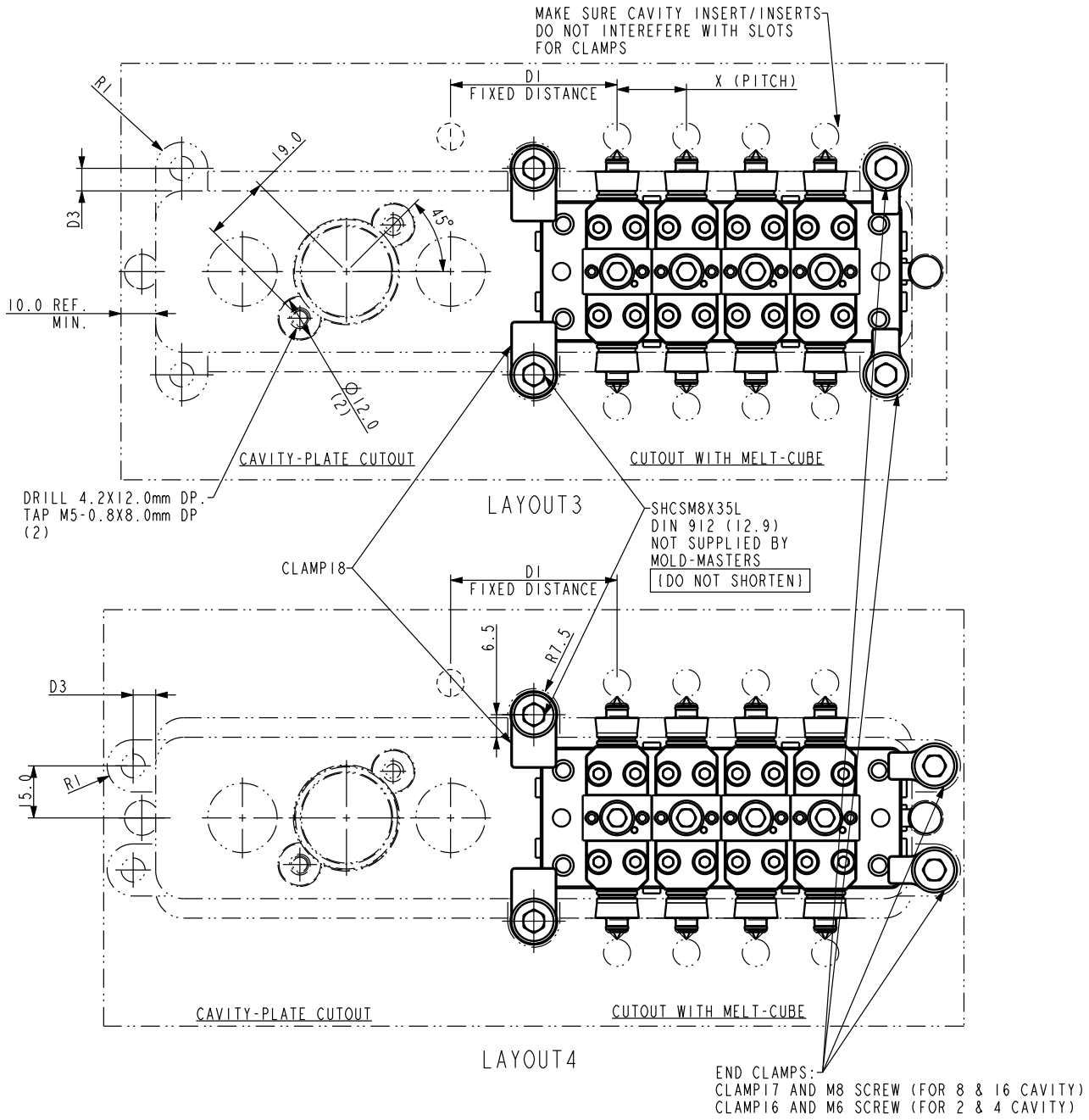
SEE USER MANUAL FOR TORQUE VALUES

	D1 MIN.	D2 MIN.	D3	R1
2-CAVITY	88	111.5	4.3	5.8
4-CAVITY	48	71.5	4.3	5.8
8 &16 CAVITY	50	79	6.5	7.5

MCHH1009A4000-A SHOWN

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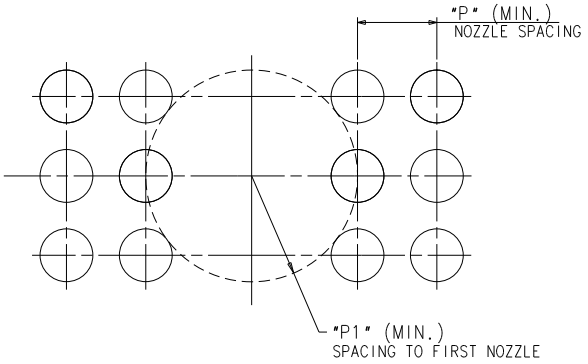


	D1	D3	R1
2-CAVITY	88	4.3	5.8
4-CAVITY	48	4.3	5.8
8 &16 CAVITY	48	6.5	7.5

MCHH1009A4000-A SHOWN

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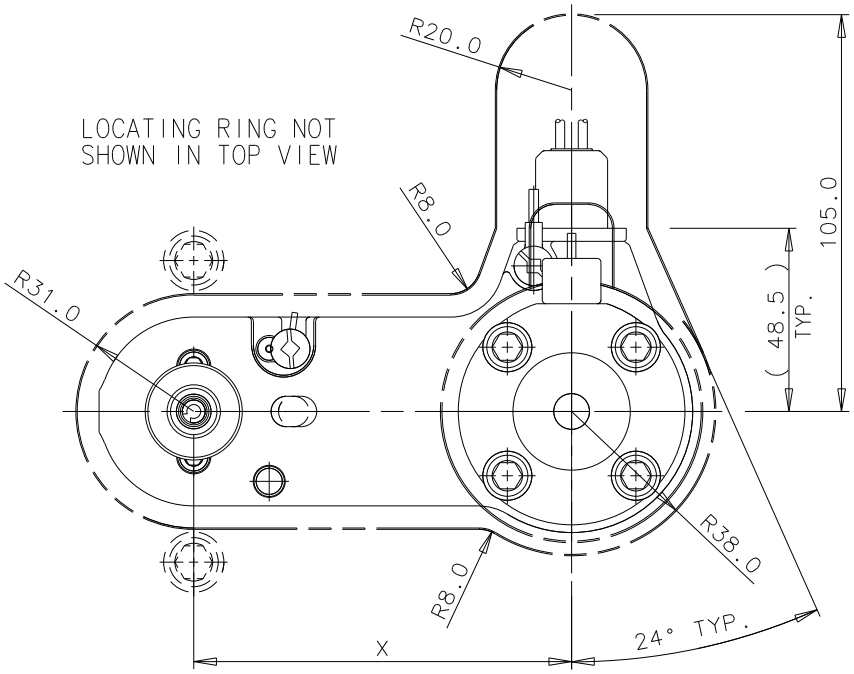
MANIFOLD SHAPE	MANIFOLD PAGE	GATING TYPE	PITCH RANGE	MANIFOLD LOCATOR OPTIONS
"1I" SUB MANIFOLD	06.02.010A/B	SPRUE	X = 70.0 TO 150.0	ML0015, ML0030
	06.02.011A/B	VALVE	X = 70.0 TO 150.0	
"2I" SUB MANIFOLD	06.02.020A/B	SPRUE	X = 56.0 TO 69.9	ML0015, ML0030
	06.02.021A/B	VALVE	X = 56.0 TO 69.9	
	06.02.022A/B	SPRUE	X = 70.0 TO 150.0	
	06.02.023A/B	VALVE	X = 70.0 TO 150.0	
"T" SUB MANIFOLD	06.02.030A	SPRUE	X = 75.0 TO 150.0 / Y = 73.0 TO 150.0	ML0015, ML0030
	06.02.030B	SPRUE	X = 75.0 TO 150.0 / Y = 78.0 TO 150.0	
	06.02.031A	VALVE	X = 75.0 TO 150.0 / Y = 73.0 TO 150.0	
	06.02.031B	VALVE	X = 75.0 TO 150.0 / Y = 78.0 TO 150.0	
"4I" SUB MANIFOLD	06.02.040A/B	SPRUE	X1 = 50.0 TO 83.0 / X2 = 150.0 TO 249.0	ML0015, ML0030
	06.02.041A/B	VALVE	X1 = 65.0 TO 83.0 / X2 = 195.0 TO 249.0	
"X" SUB MANIFOLD	06.02.050A/B	SPRUE	X = 65.0 TO 150.0 / Y = 65.0 TO 150.0	ML0015, ML0030
	06.02.051A/B	VALVE	X = 65.0 TO 150.0 / Y = 65.0 TO 150.0	
"H" SUB MANIFOLD	06.02.060A	SPRUE	X = 75.0 TO 150.0 / Y = 55.0 TO 150.0	ML0015, ML0030
	06.02.060B	SPRUE	X = 82.0 TO 150.0 / Y = 55.0 TO 150.0	
	06.02.061A	VALVE	X = 75.0 TO 150.0 / Y = 55.0 TO 150.0	
	06.02.061B	VALVE	X = 82.0 TO 150.0 / Y = 55.0 TO 150.0	
"XX" SUB MANIFOLD	06.02.070	SPRUE	X = 30.0 TO 50.0 / Y = 30.0 TO 50.0	ML0015, ML0030
	06.02.071	VALVE	X = 30.0 TO 50.0 / Y = 30.0 TO 50.0	
"HH" SUB MANIFOLD	06.02.072A/B	SPRUE	X = 60.0 TO 111.0 / Y = 80.0 TO 110.0	ML0015, ML0030
	06.02.073A/B	VALVE	X = 60.0 TO 111.0 / Y = 80.0 TO 110.0	

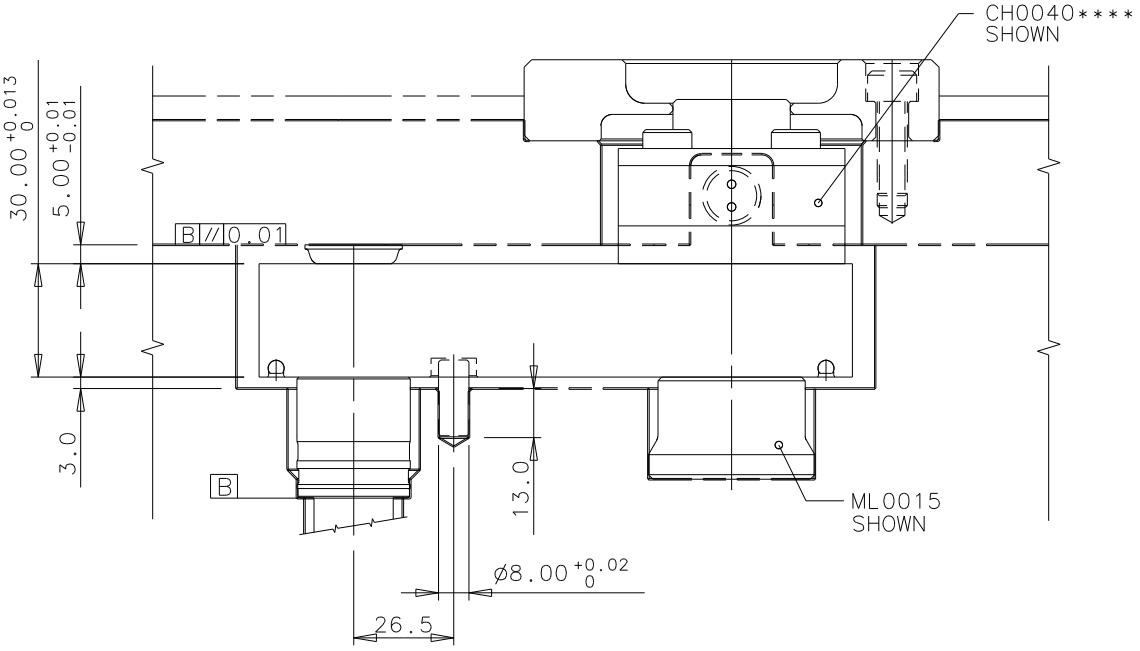


HYD./PNEU. UNIT	INLET EXT.	"P1"	"P"
HY550Xx	IE06***	42.0	40.0
	IE08***	47.0	
HY650Xx OR HY710Xx	IE06*** OR IE08***	50.0	54.0
PN2300x	IE06*** OR IE08***	50.0	48.0
HY5500x	IE06*** OR IE08***	82.0	41.0
HY6500x OR HY7100x	IE06*** OR IE08***	86.5	60.0

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES 06.01

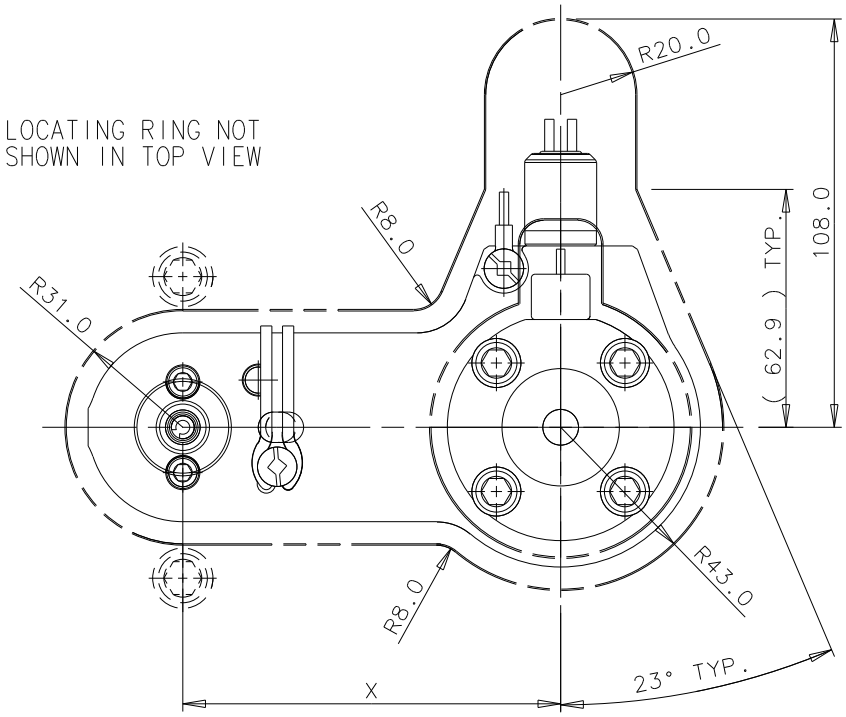
ACCESSORIES 09.01

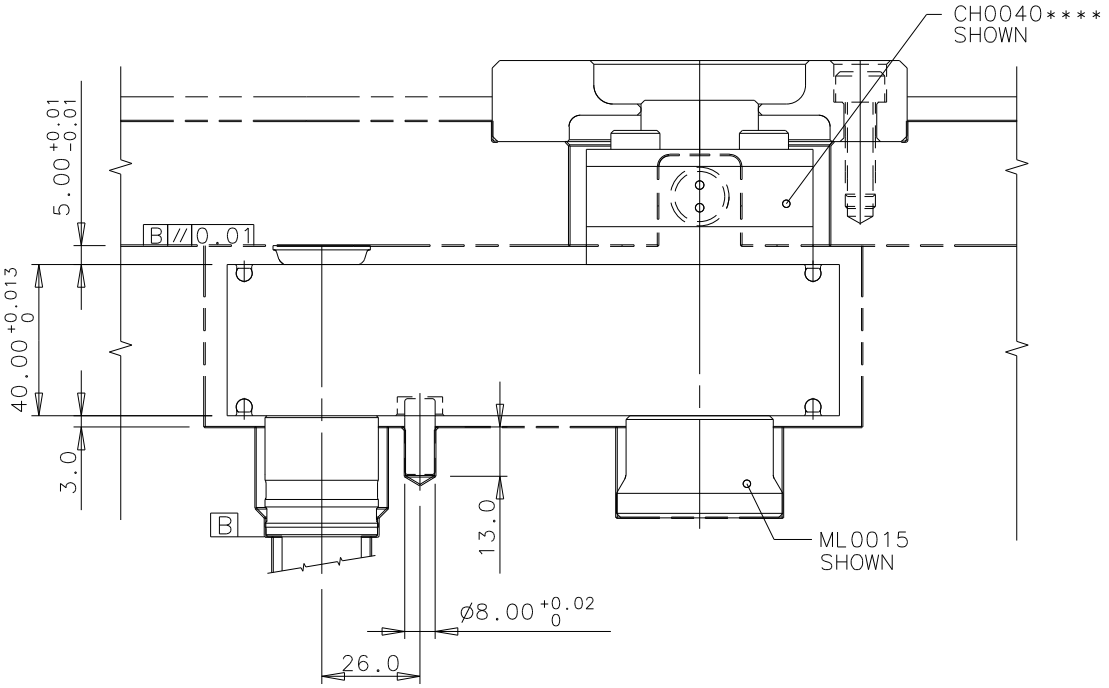
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES
06.01

ACCESSORIES
09.01

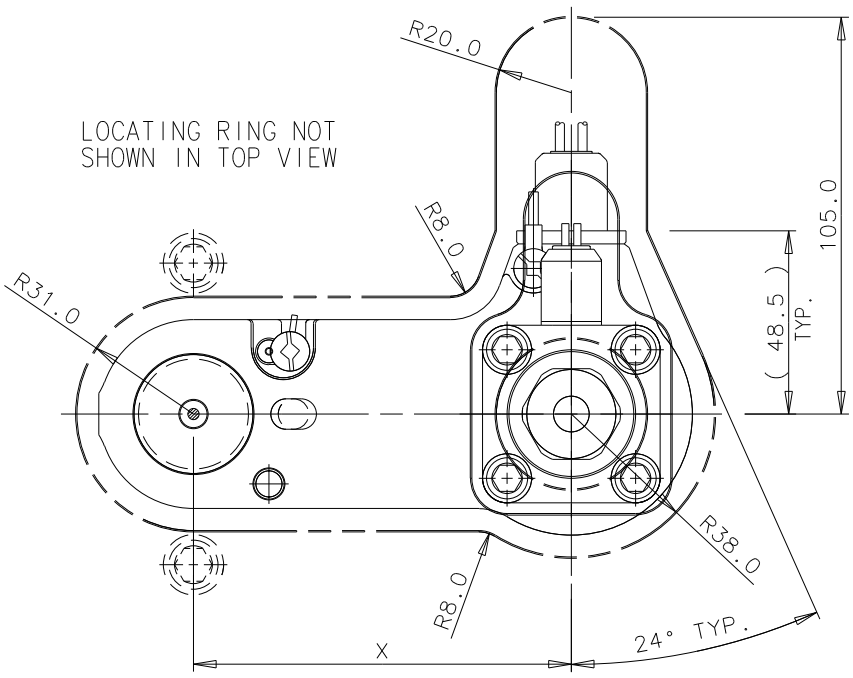
MANIFOLD
RANGES
06.02.001

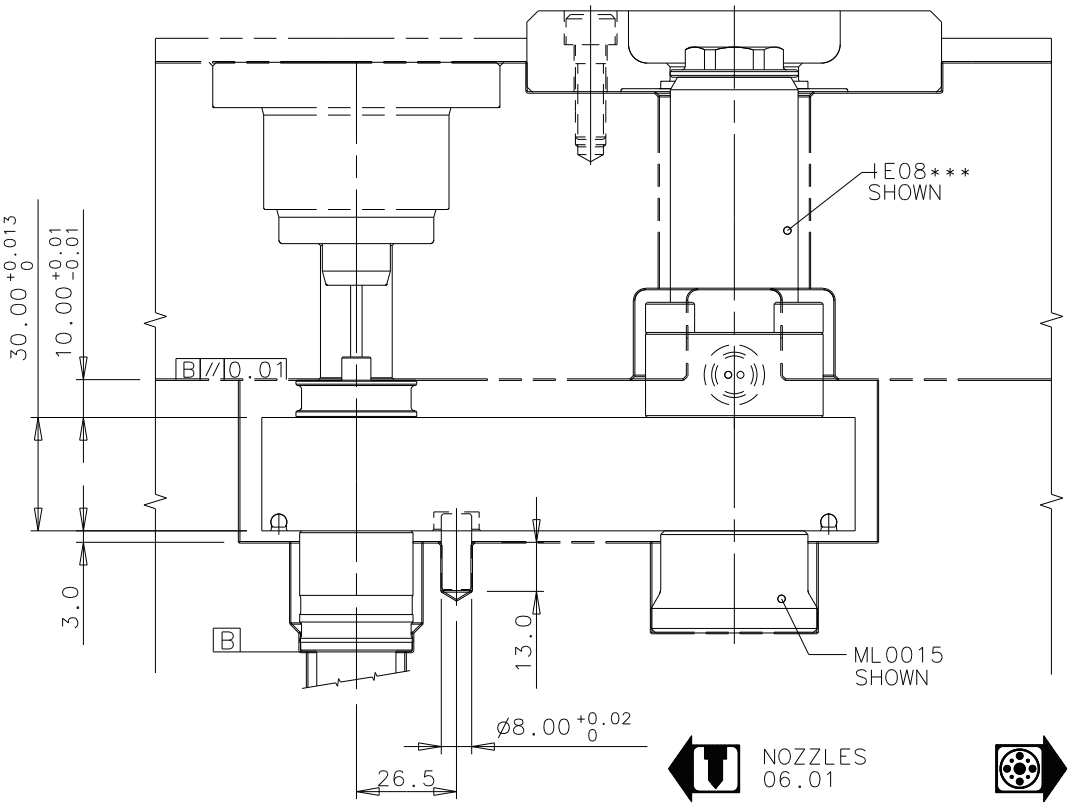
MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES 06.01

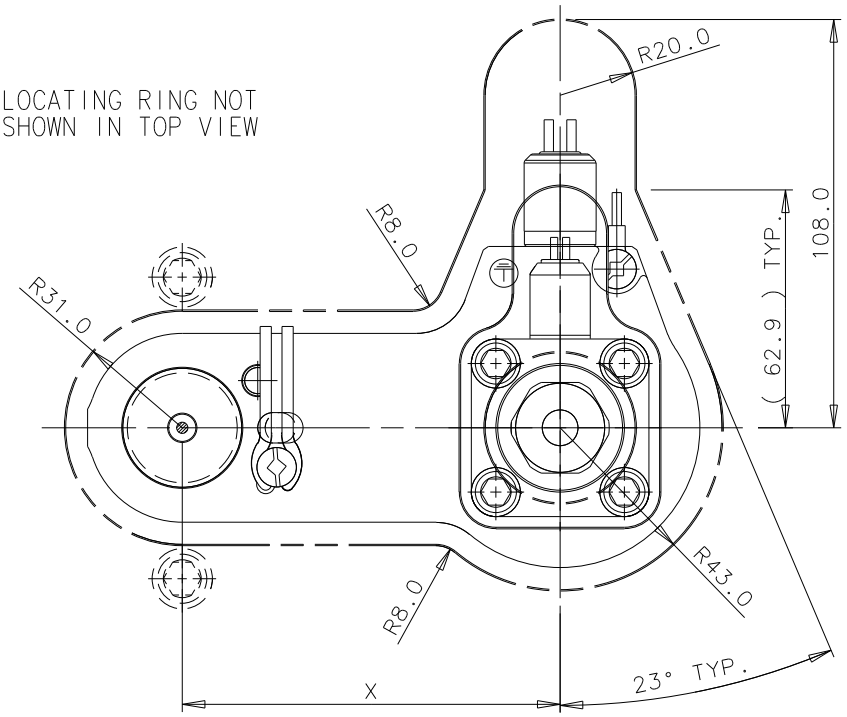
ACCESSORIES 09.01

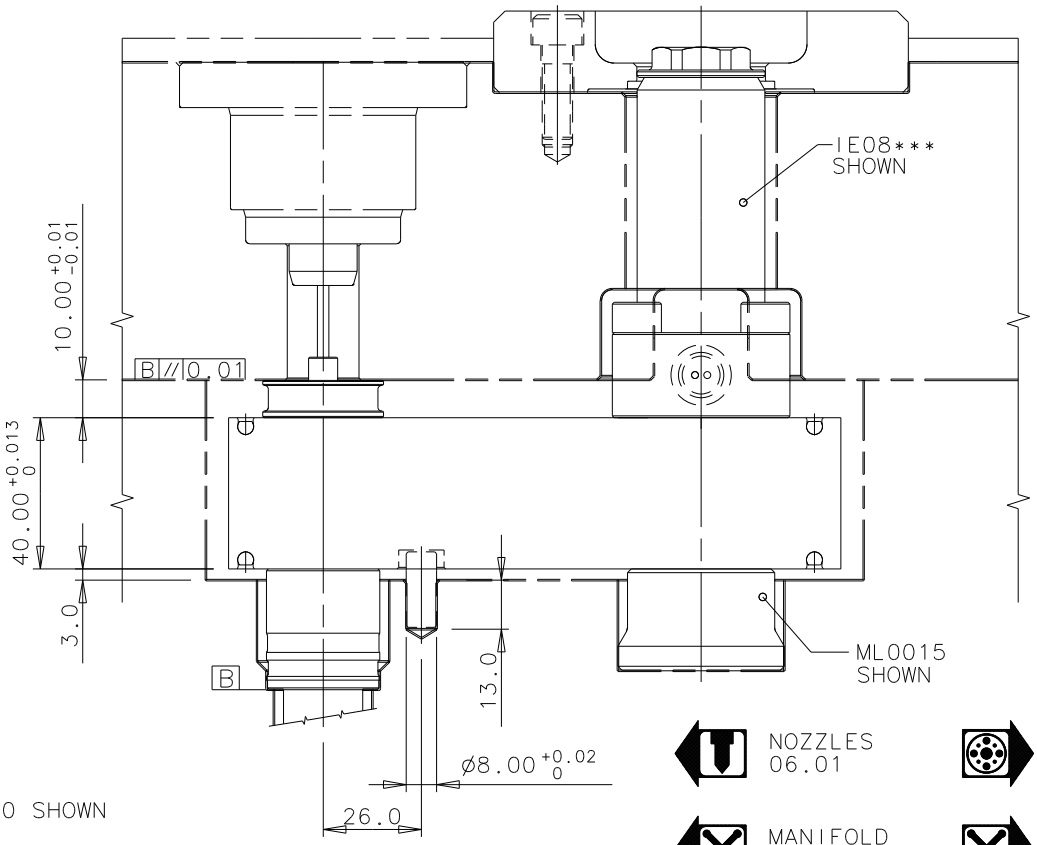
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES 06.01

ACCESSORIES 09.01

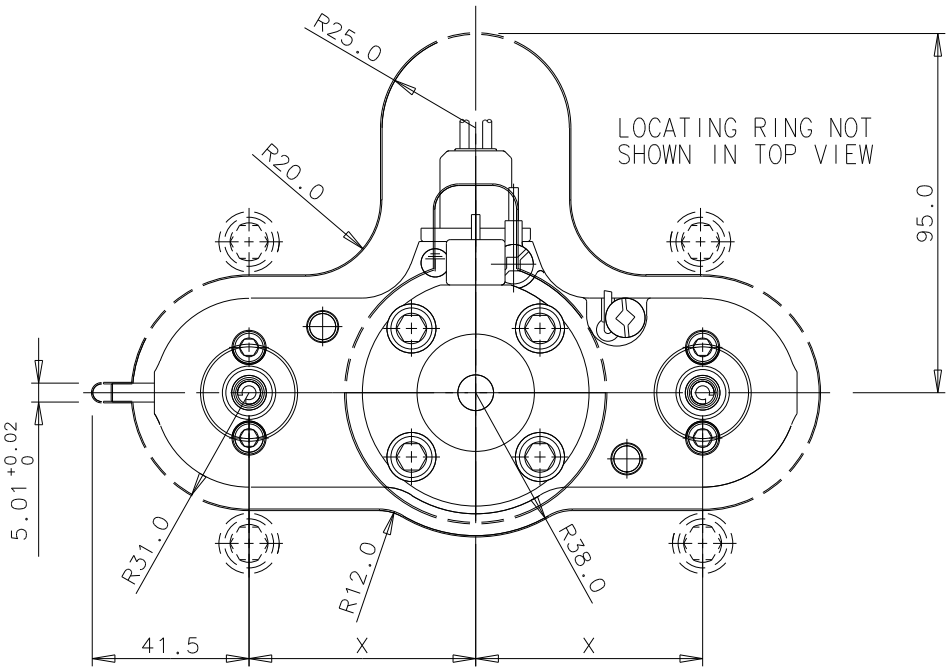
MANIFOLD RANGES 06.02.001

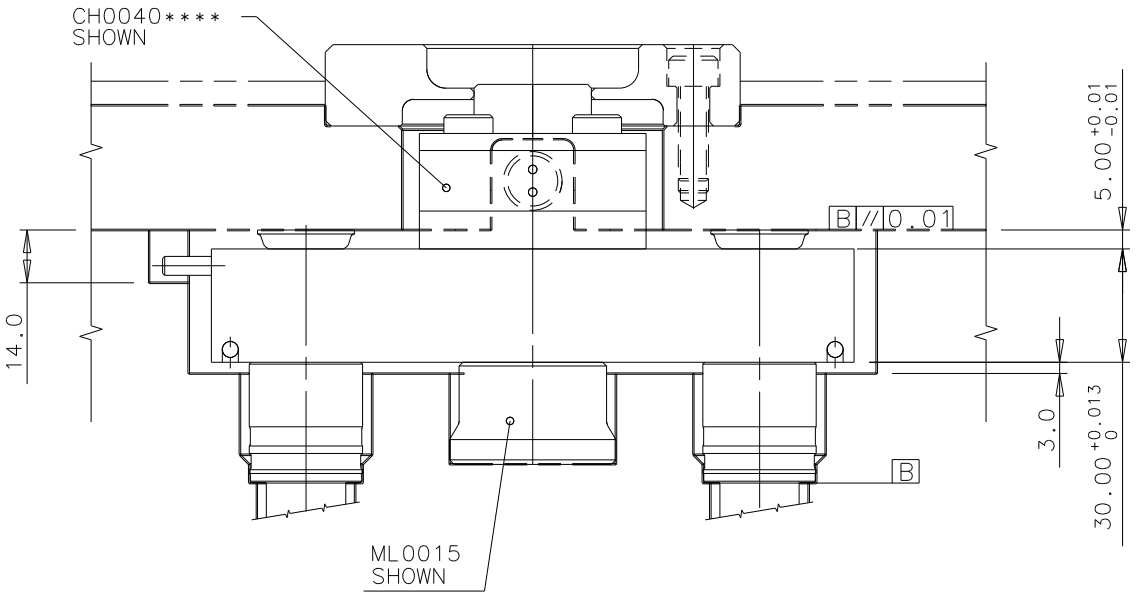
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 60 SHOWN

NOZZLES
06.01

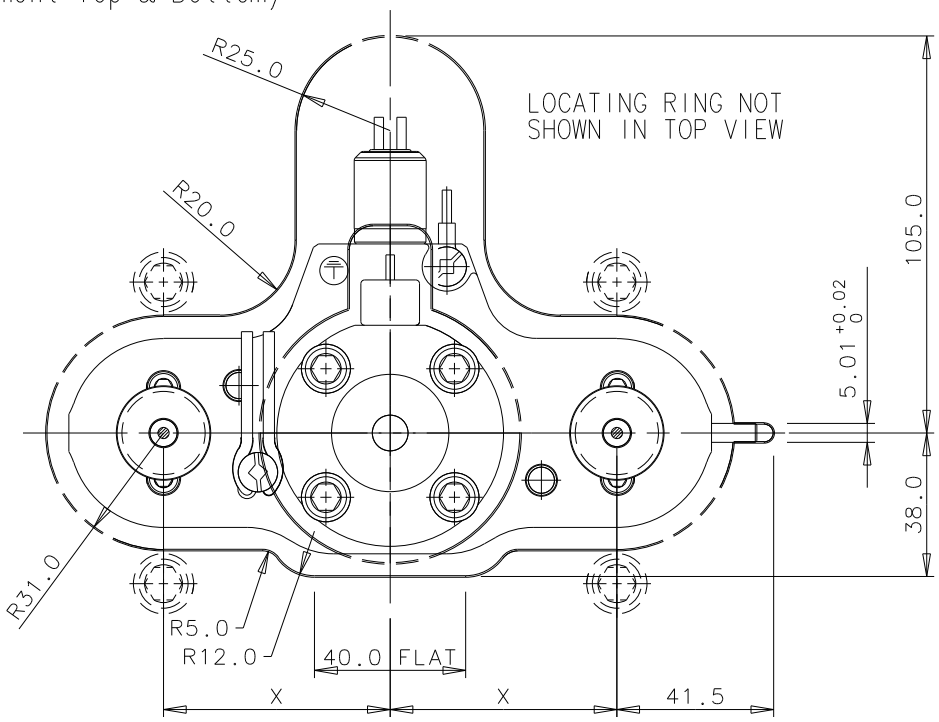
ACCESSORIES
09.01

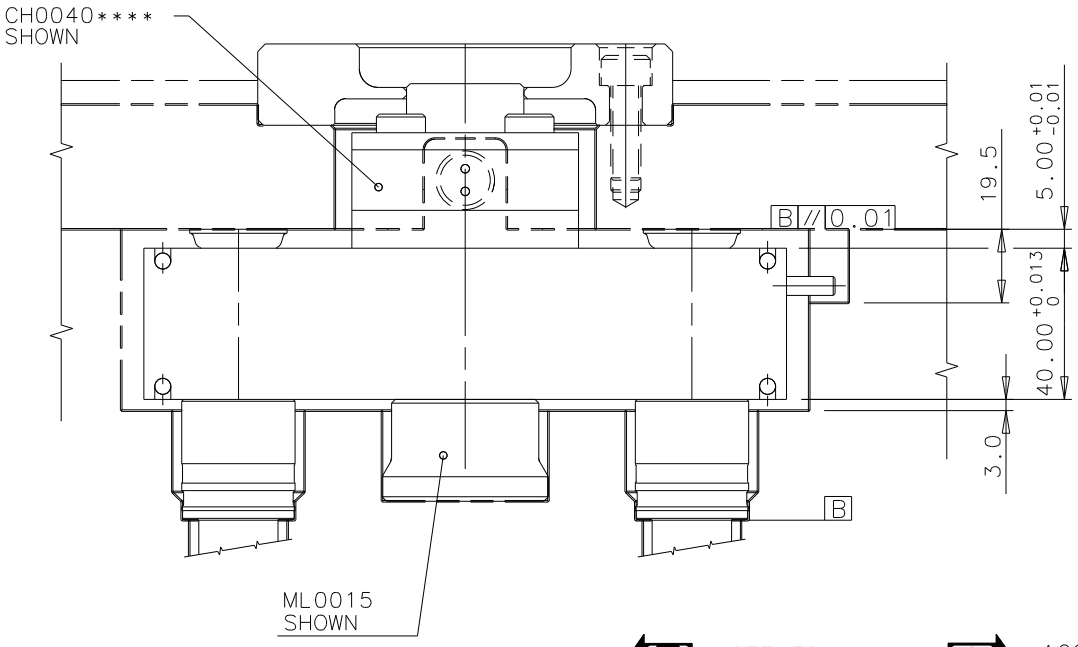
MANIFOLD
RANGES
06.02.001

MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 SHOWN

NOZZLES 06.01

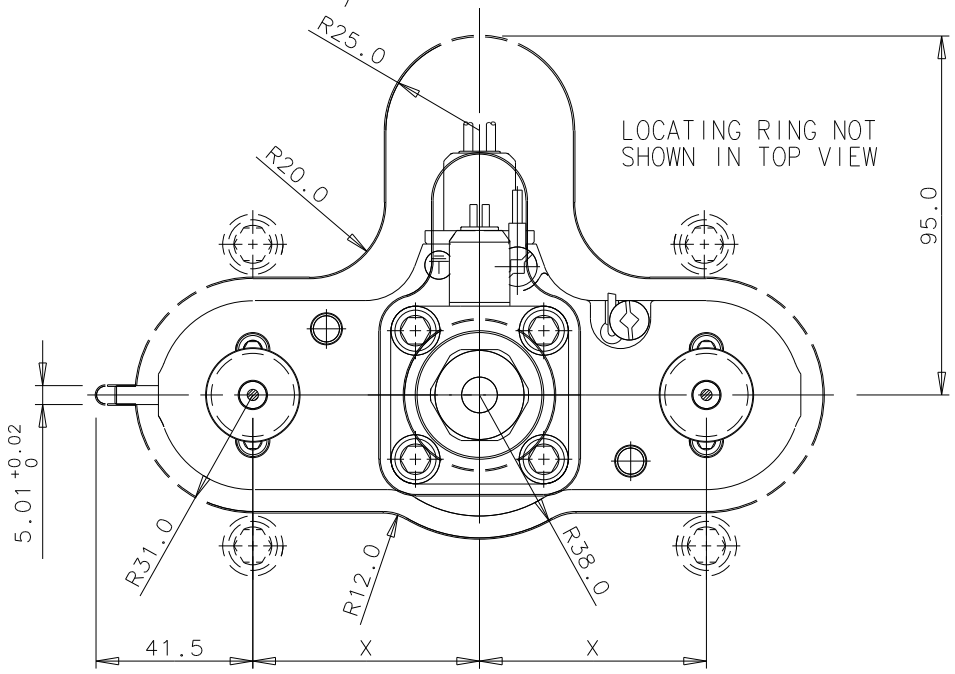
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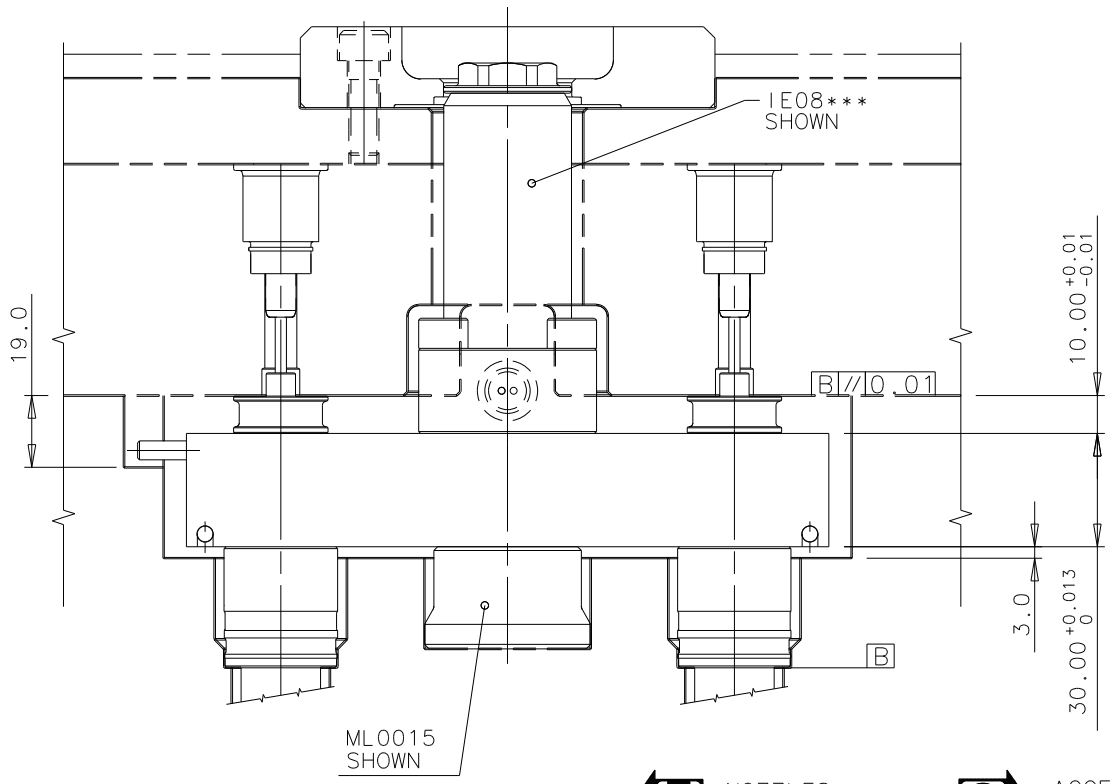
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 60 SHOWN

NOZZLES 06.01

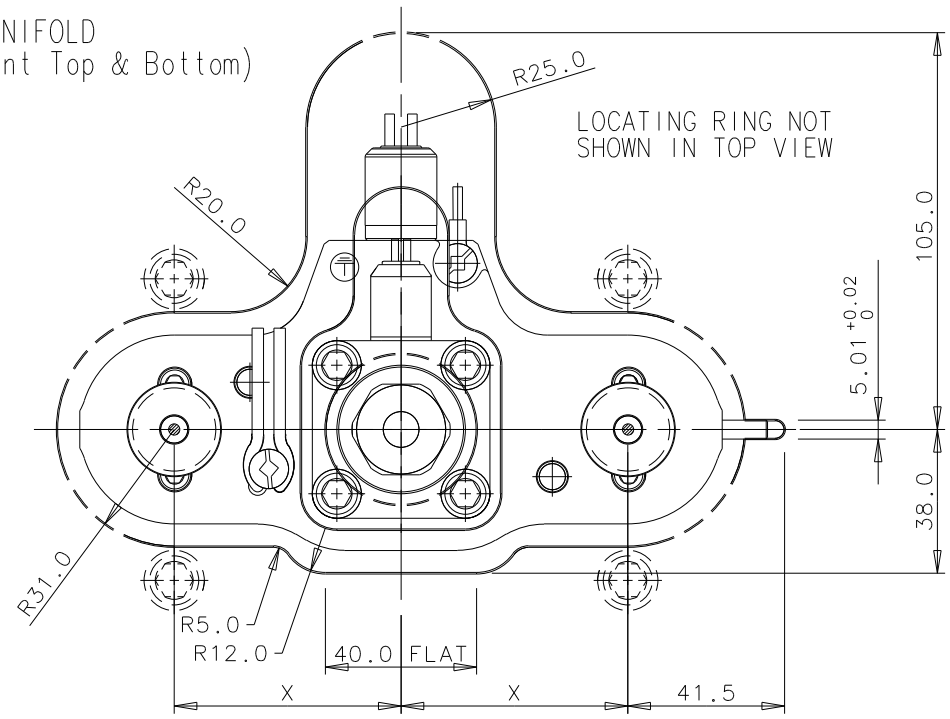
ACCESSORIES 09.01

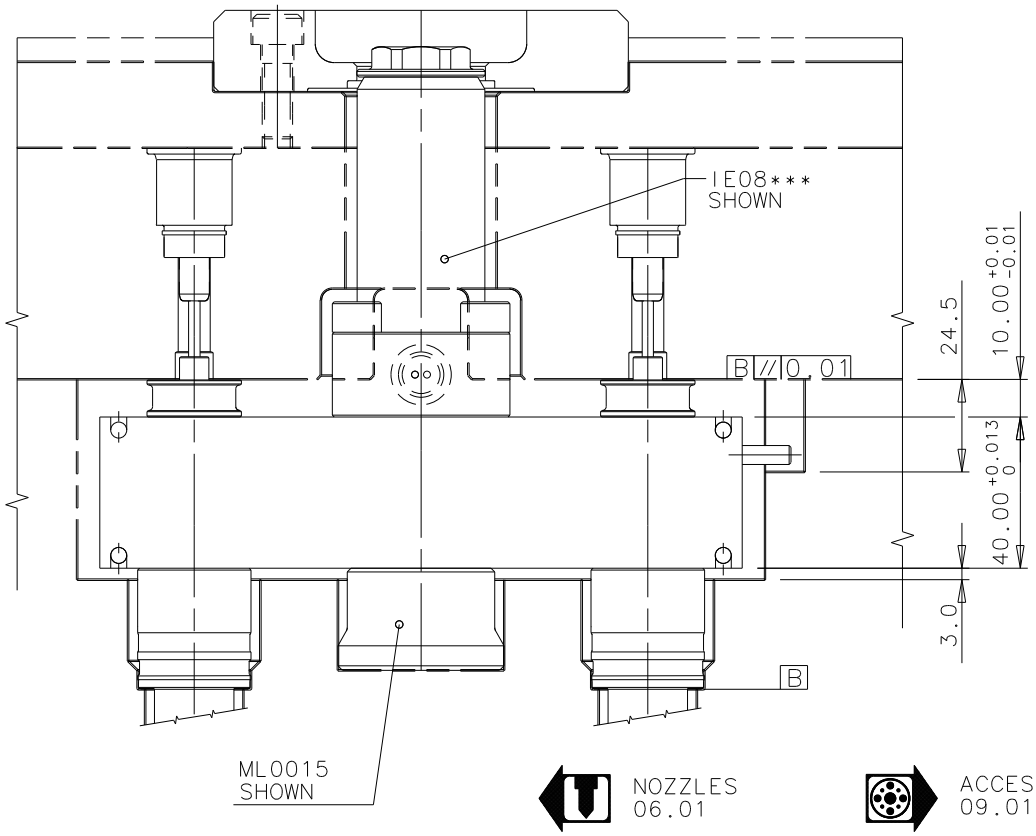
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 SHOWN

NOZZLES 06.01

ACCESSORIES 09.01

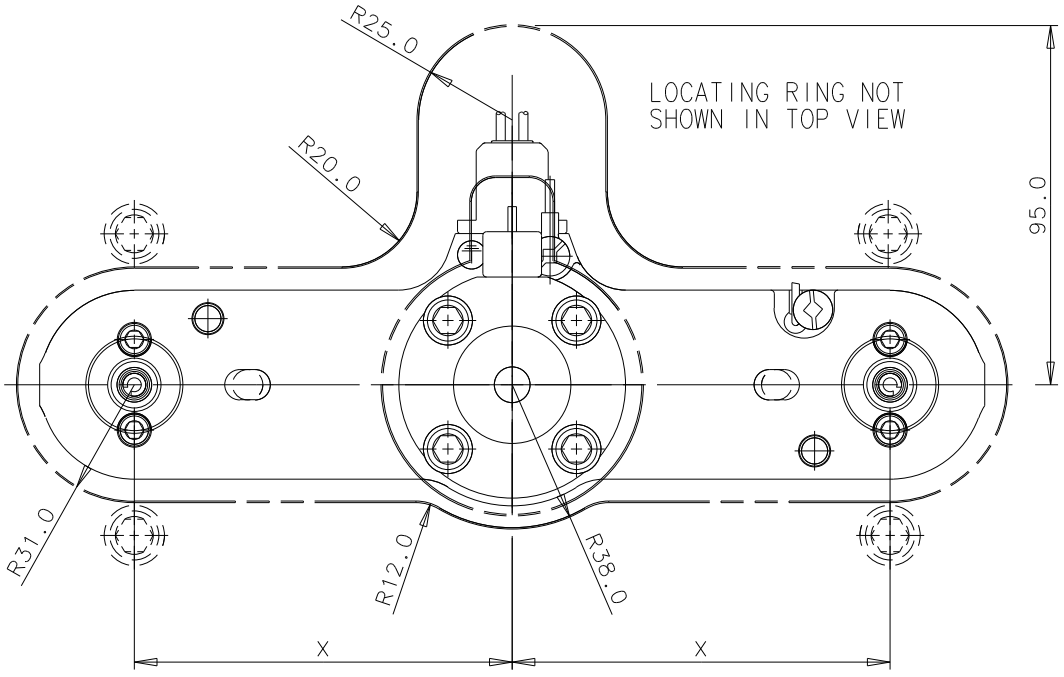
MANIFOLD RANGES 06.02.001

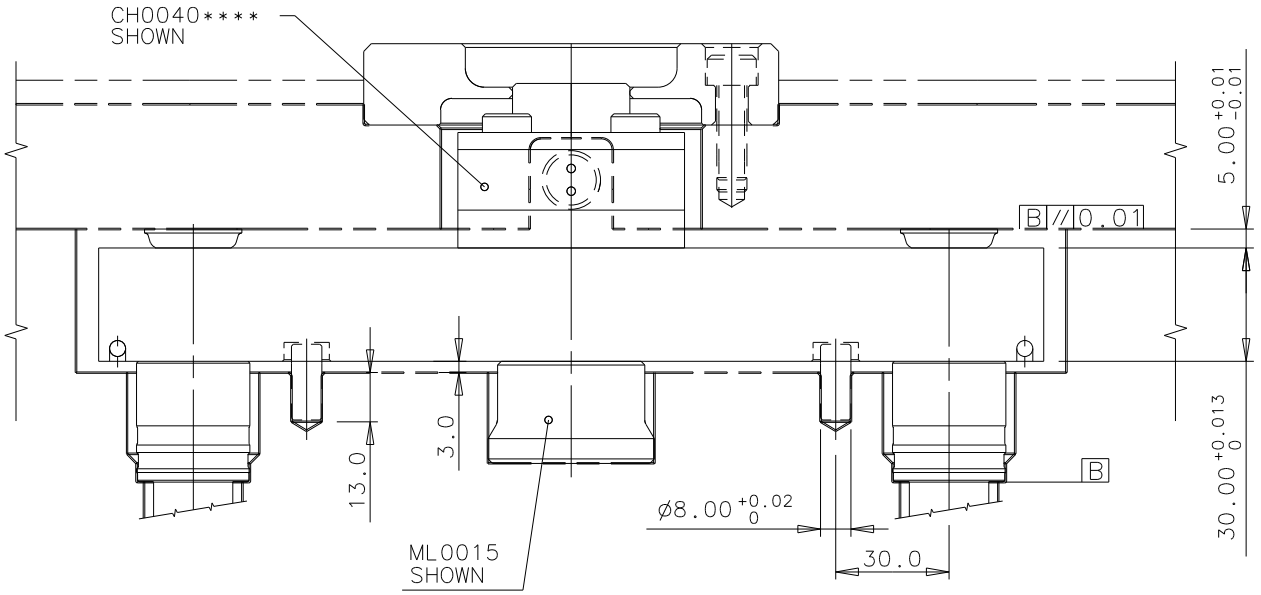
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)



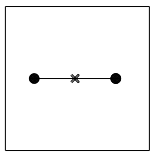


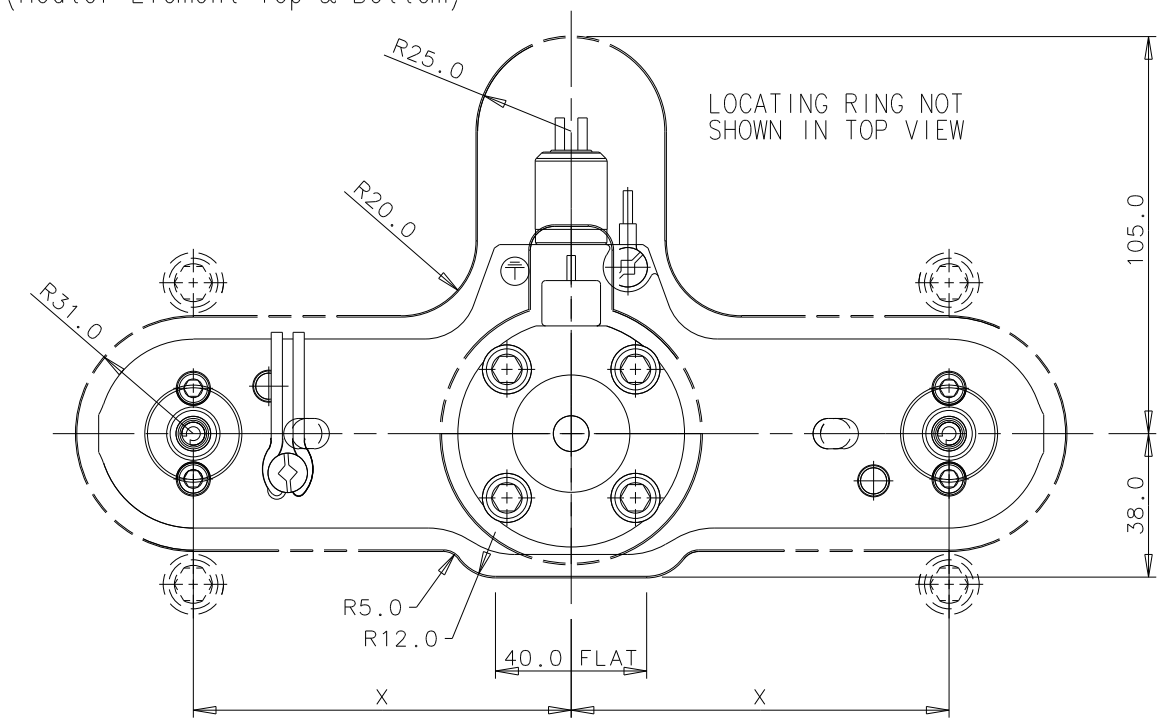
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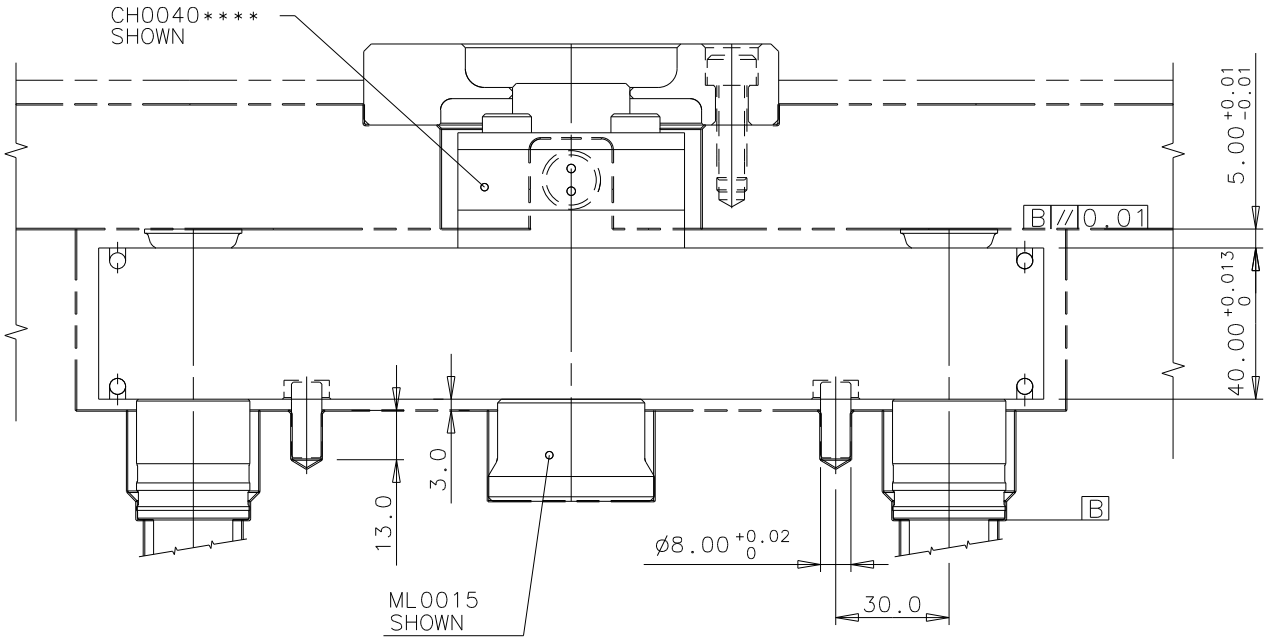
NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



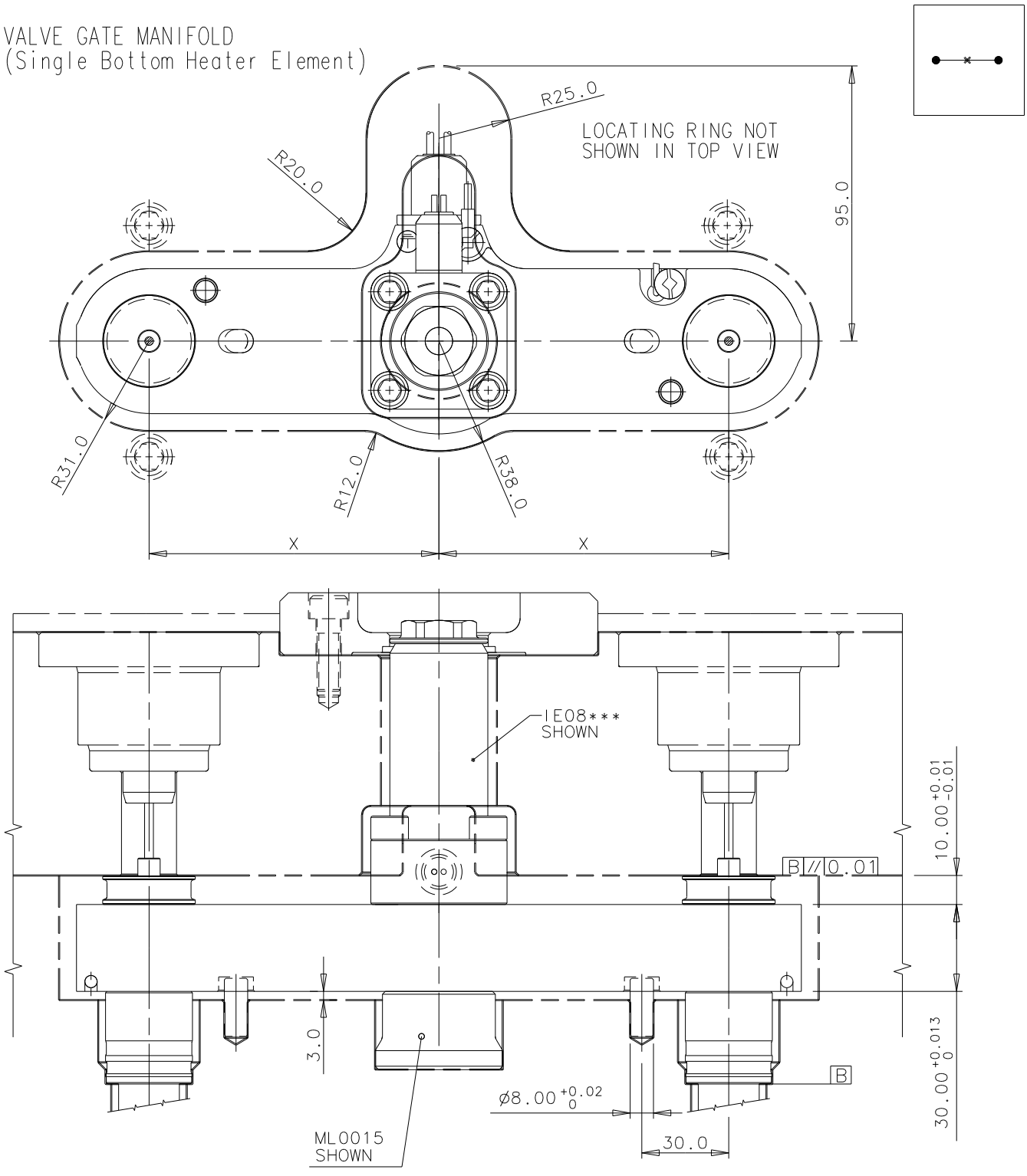




X = 100 SHOWN

NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

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X = 100 SHOWN

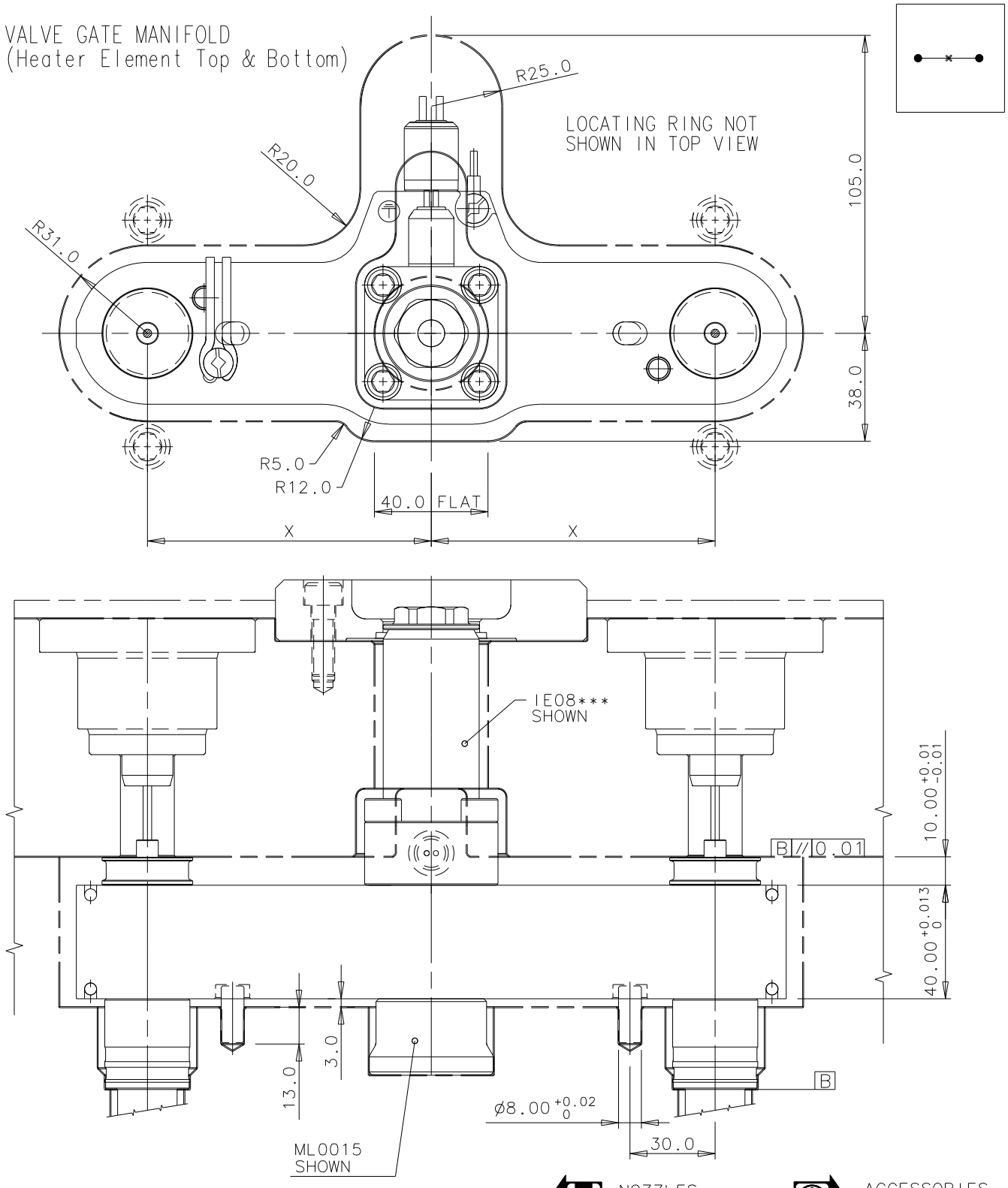
NOZZLES 06.01

ACCESSORIES 09.01

MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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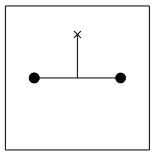
X = 100 SHOWN

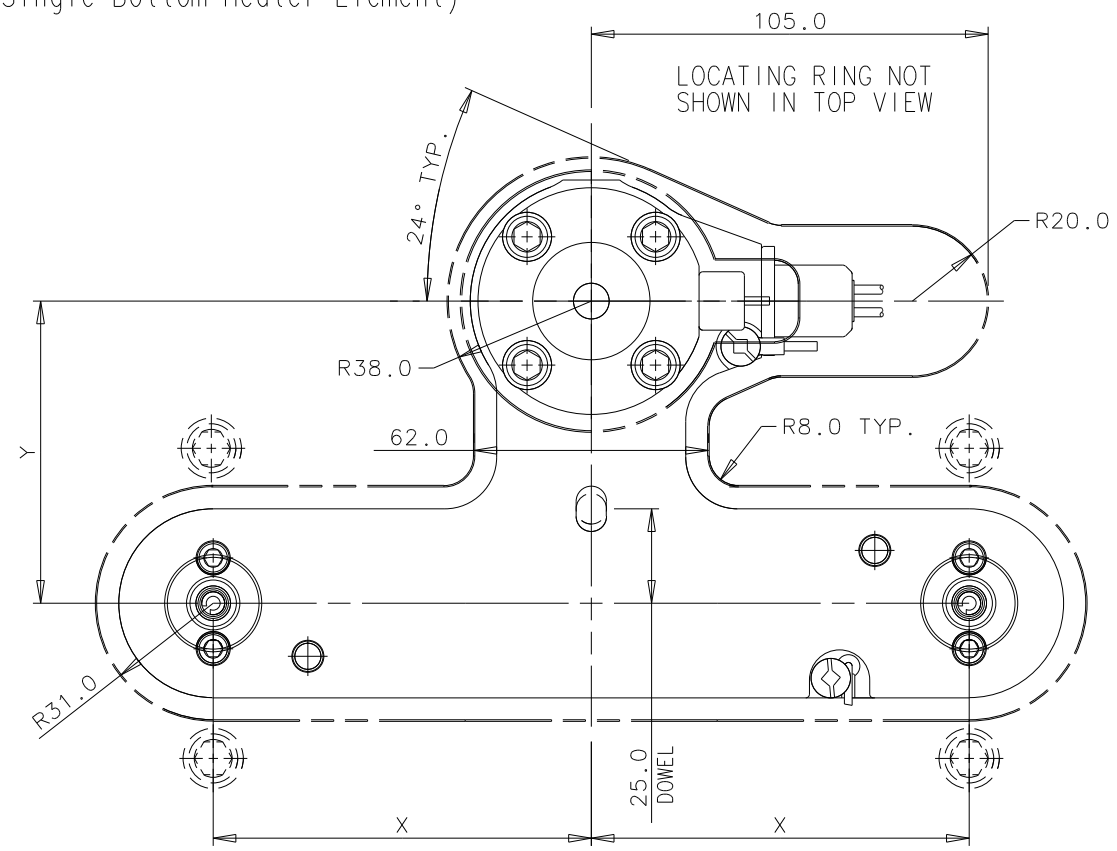
NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

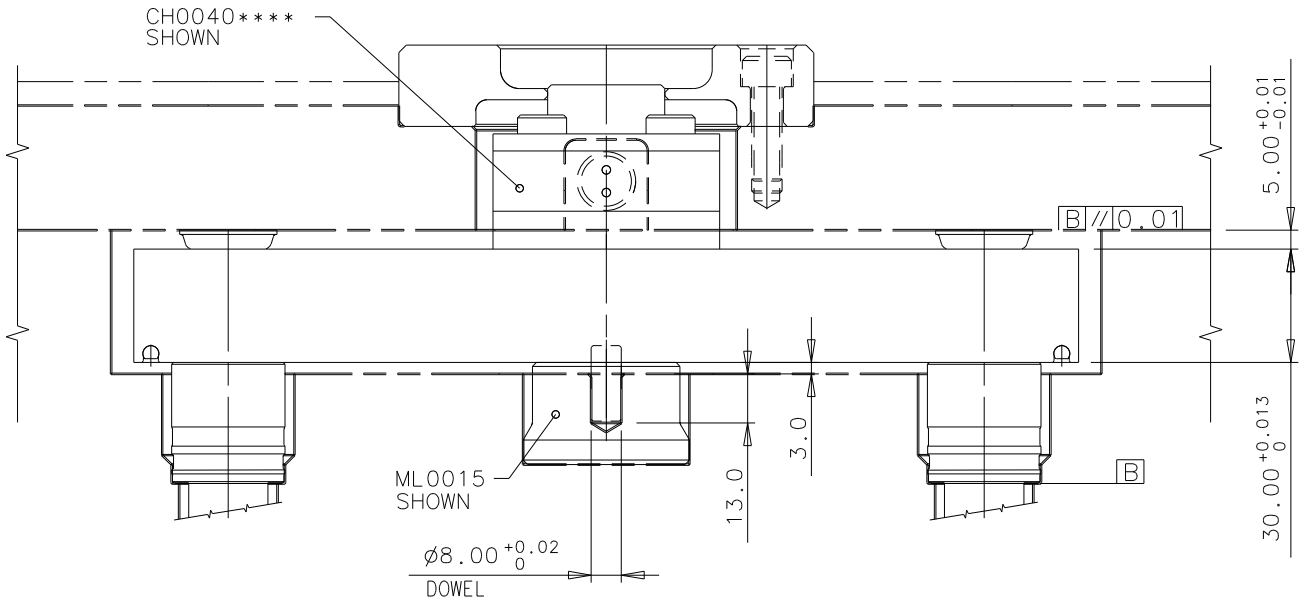
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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)







X = 100 / Y = 80 SHOWN

NOZZLES 06.01

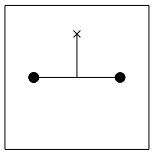
ACCESSORIES 09.01

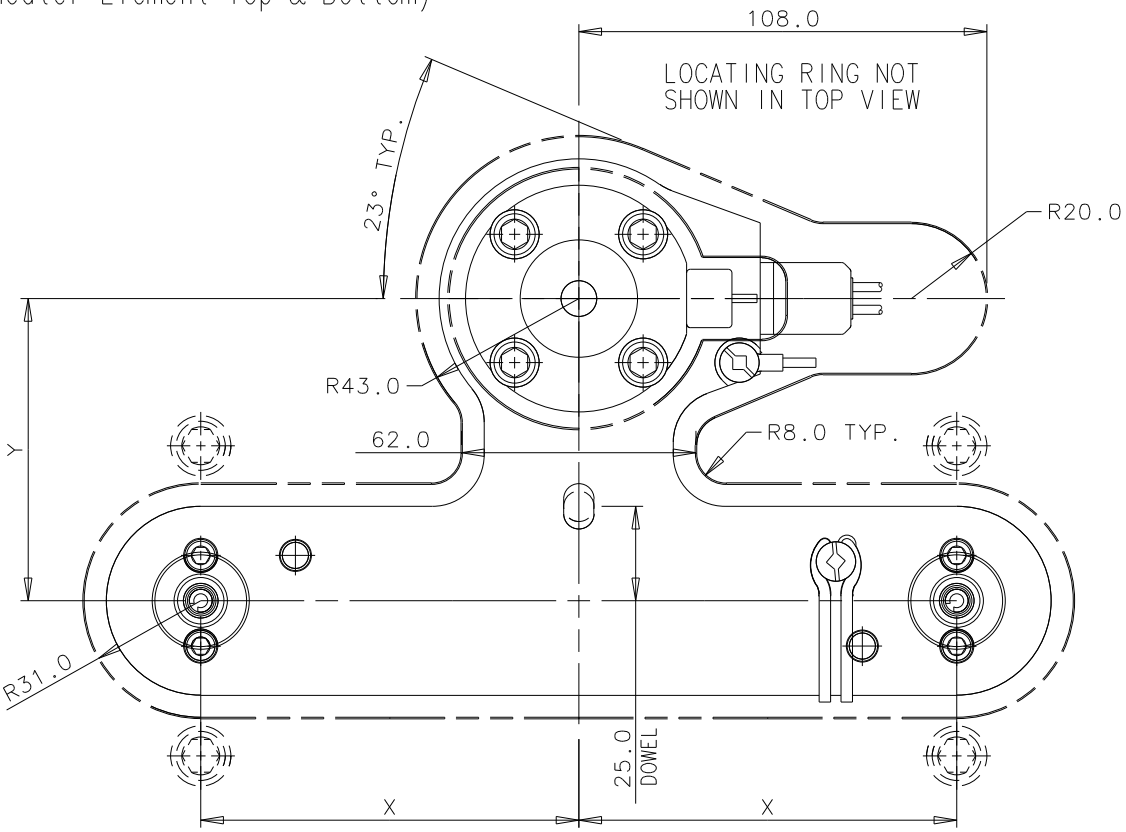
MANIFOLD RANGES 06.02.001

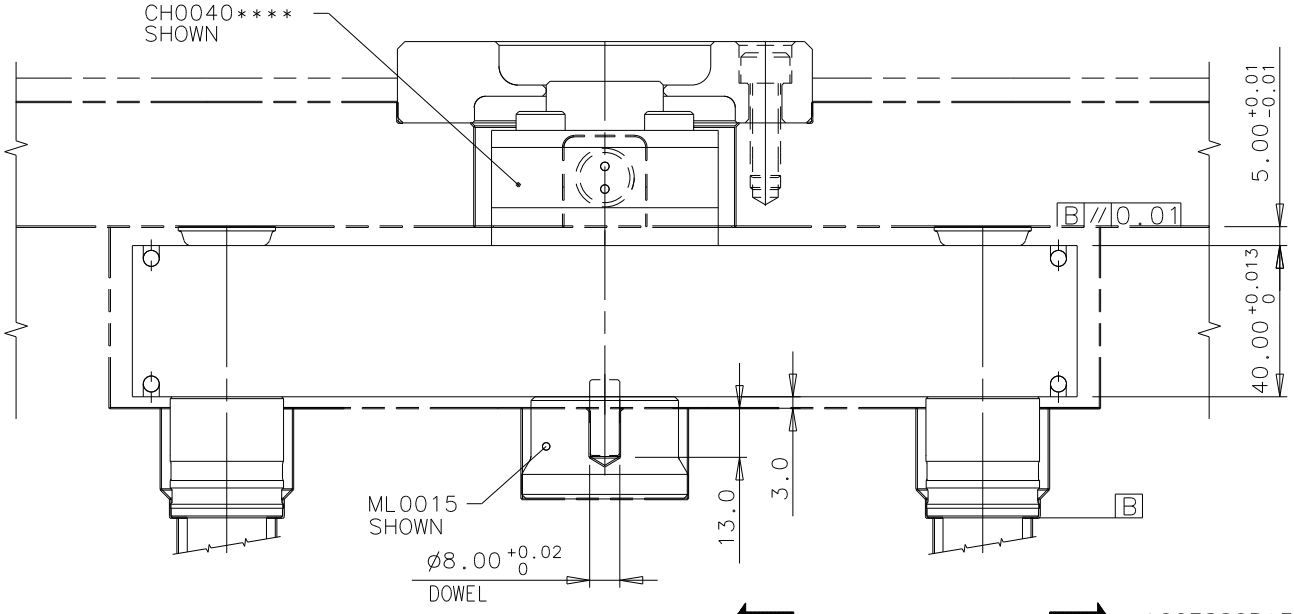
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)







X = 100 / Y = 80 SHOWN

NOZZLES 06.01

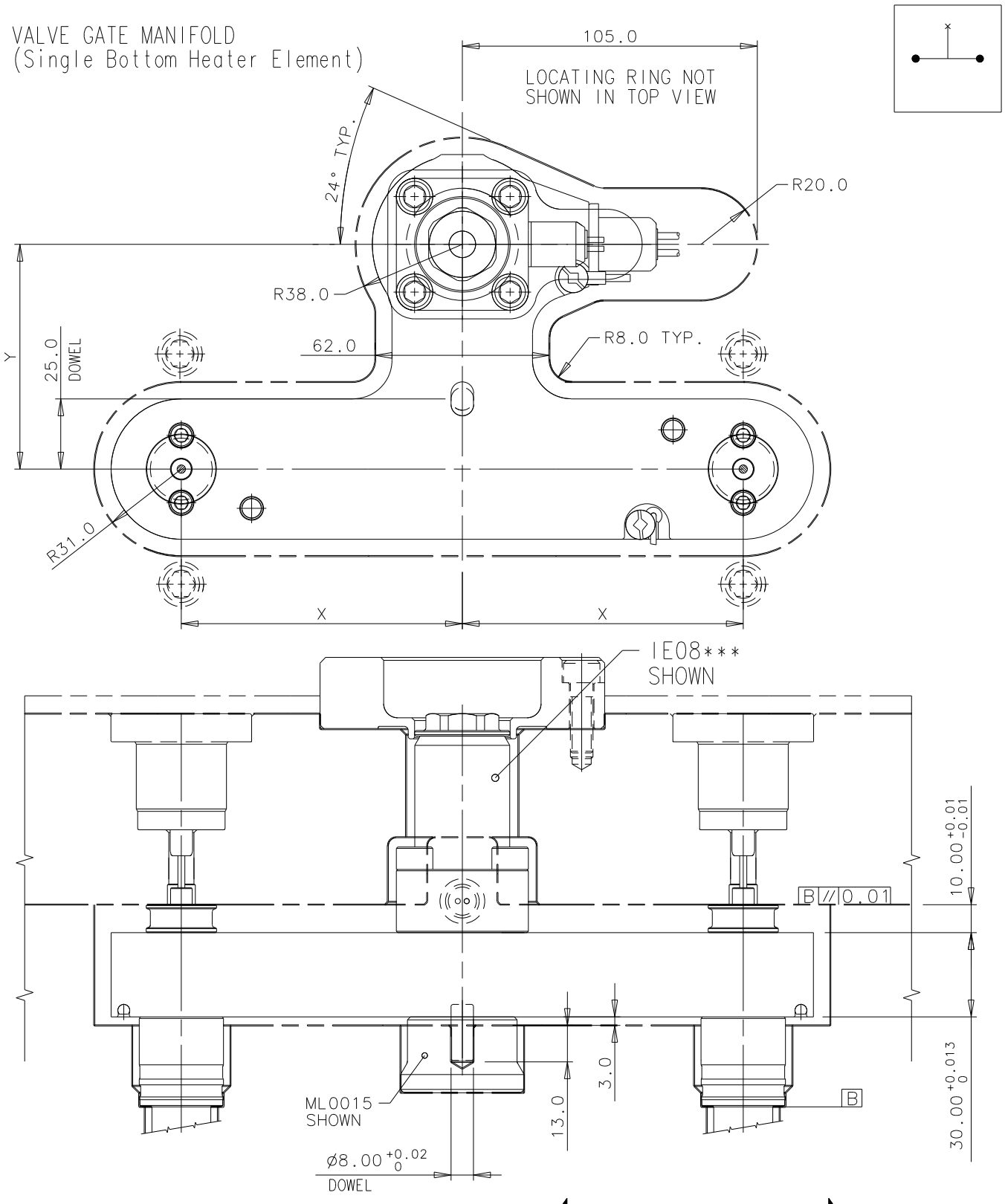
ACCESSORIES 09.01

MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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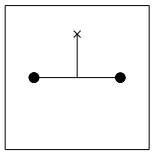
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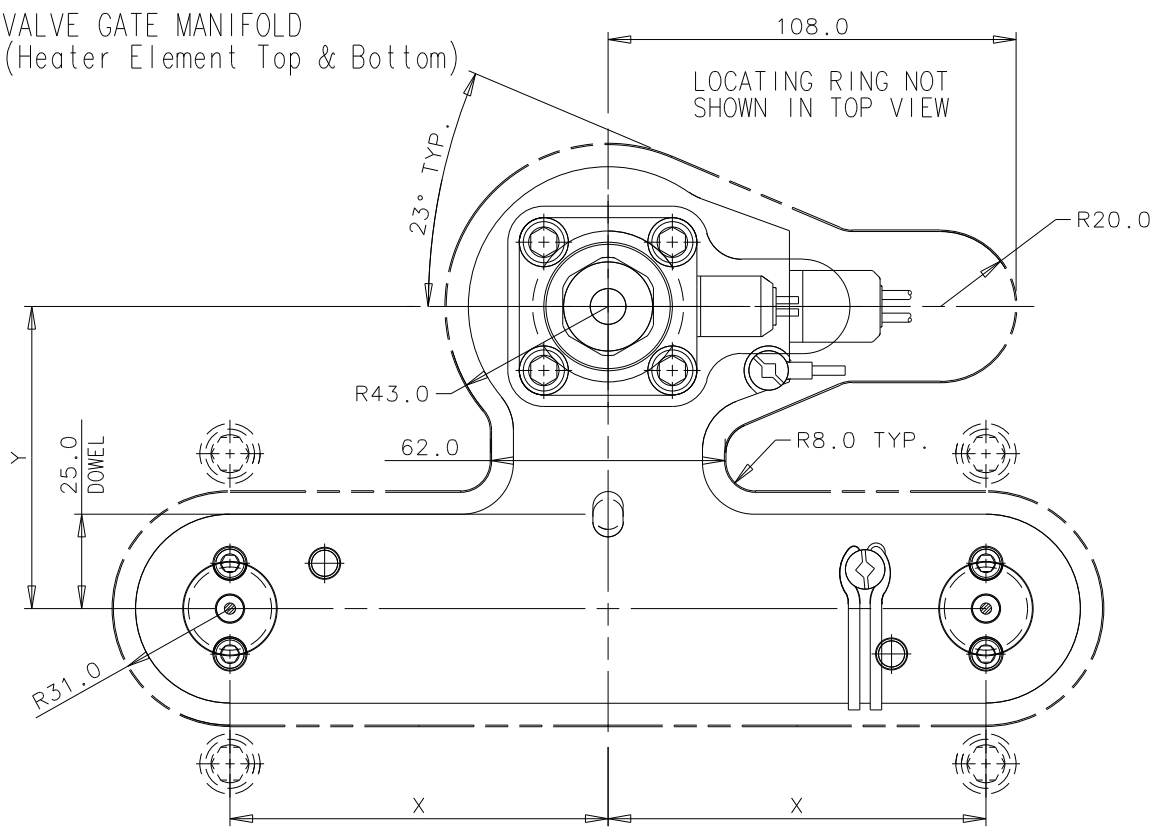


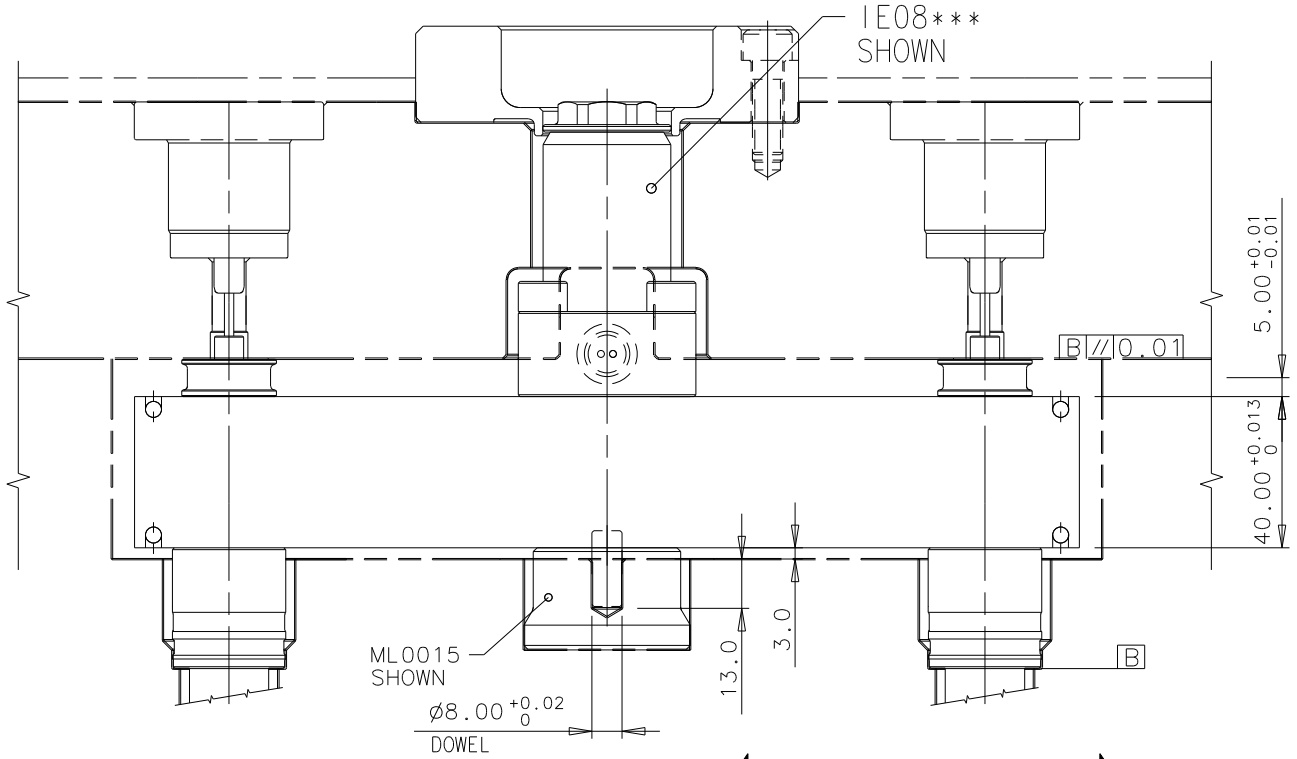
X = 100 / Y = 80 SHOWN

NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

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X = 100 / Y = 80 SHOWN

NOZZLES
06.01

ACCESSORIES
09.01

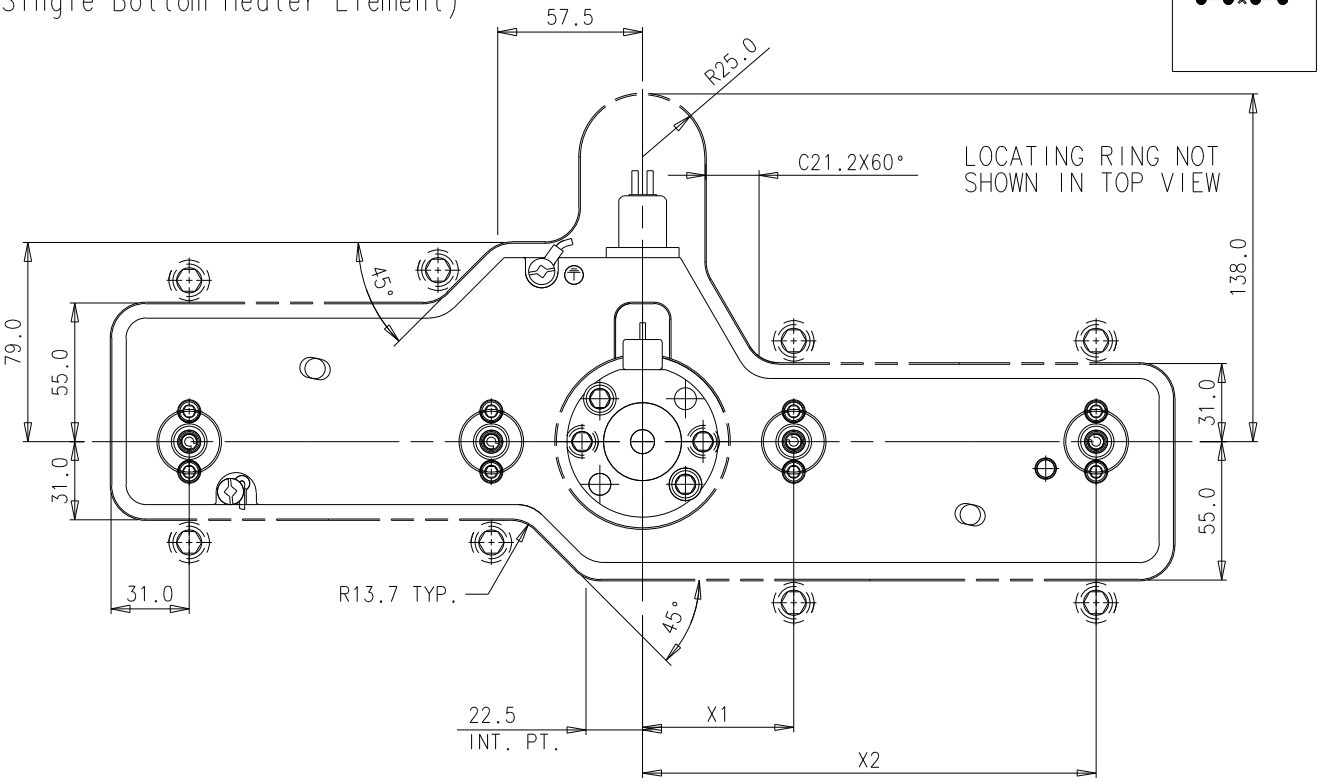
MANIFOLD
RANGES
06.02.001

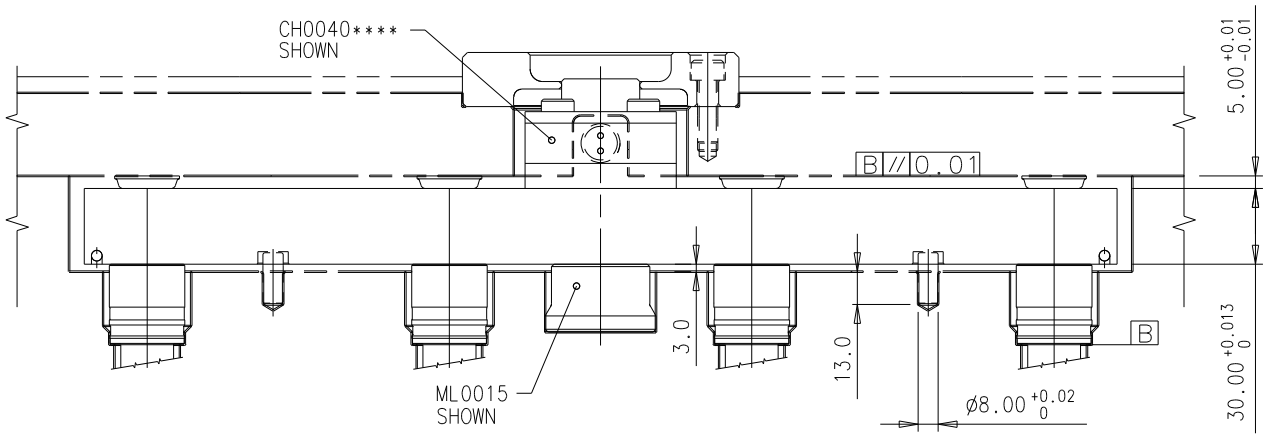
MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)



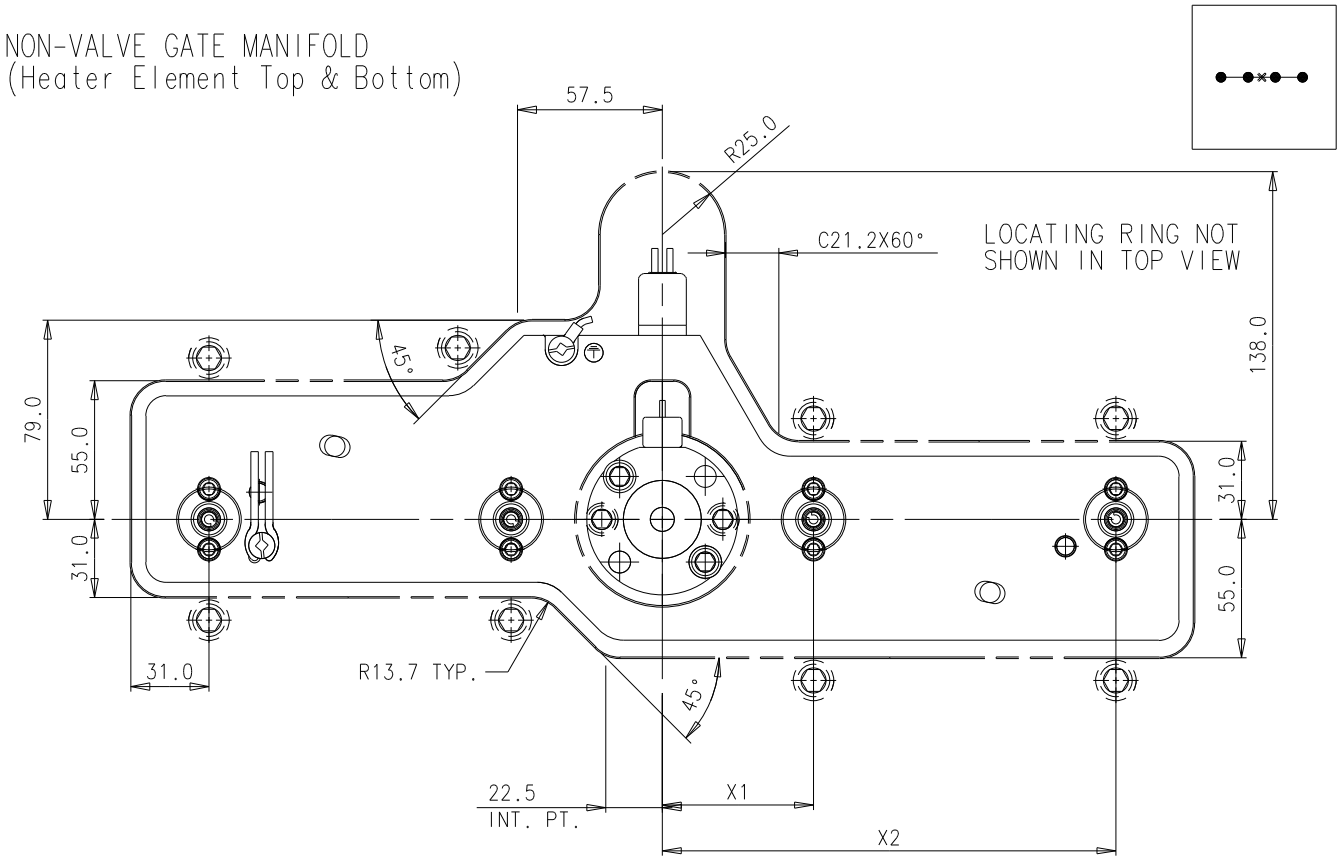


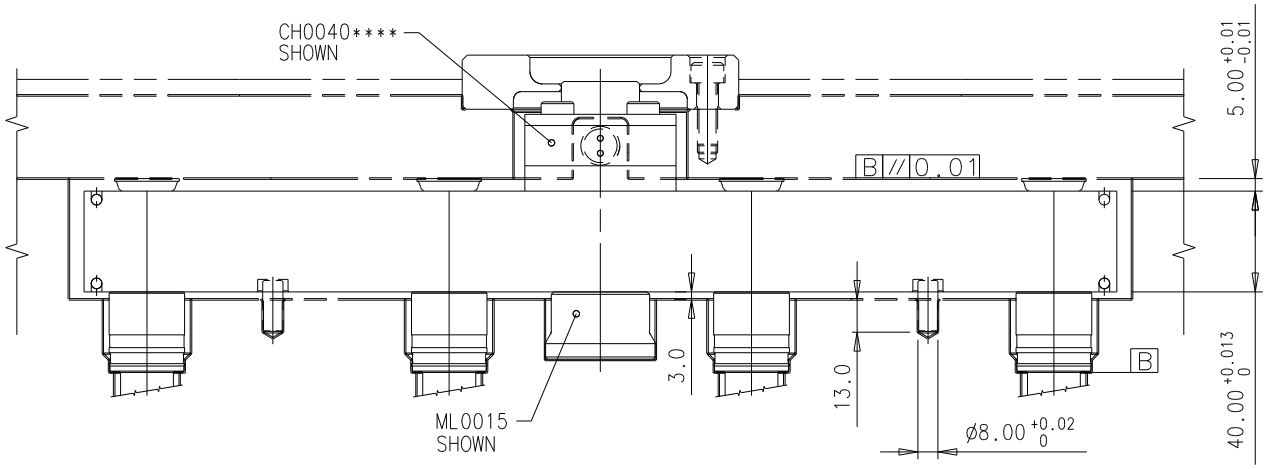
X = 60 SHOWN

NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 SHOWN

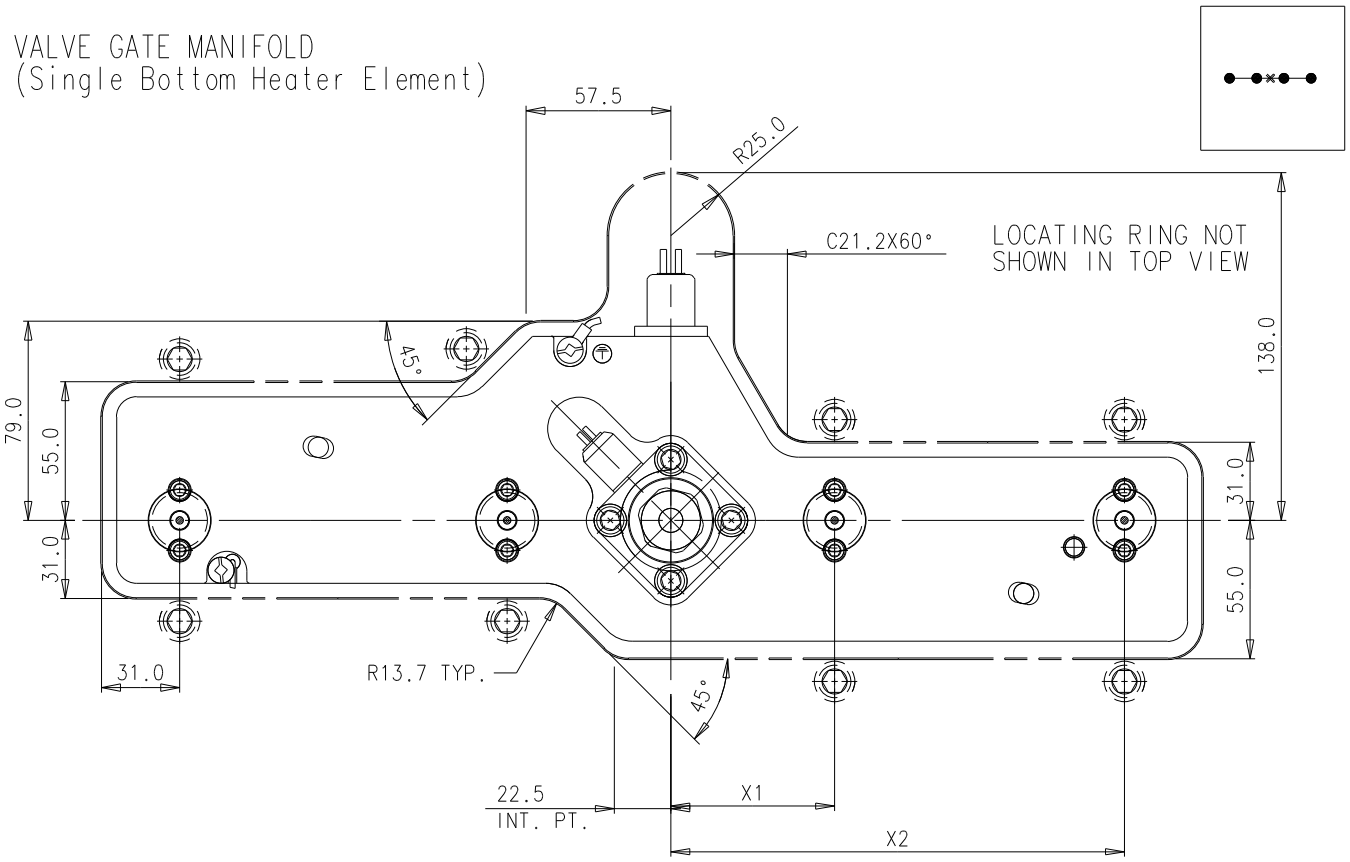
NOZZLES 06.01

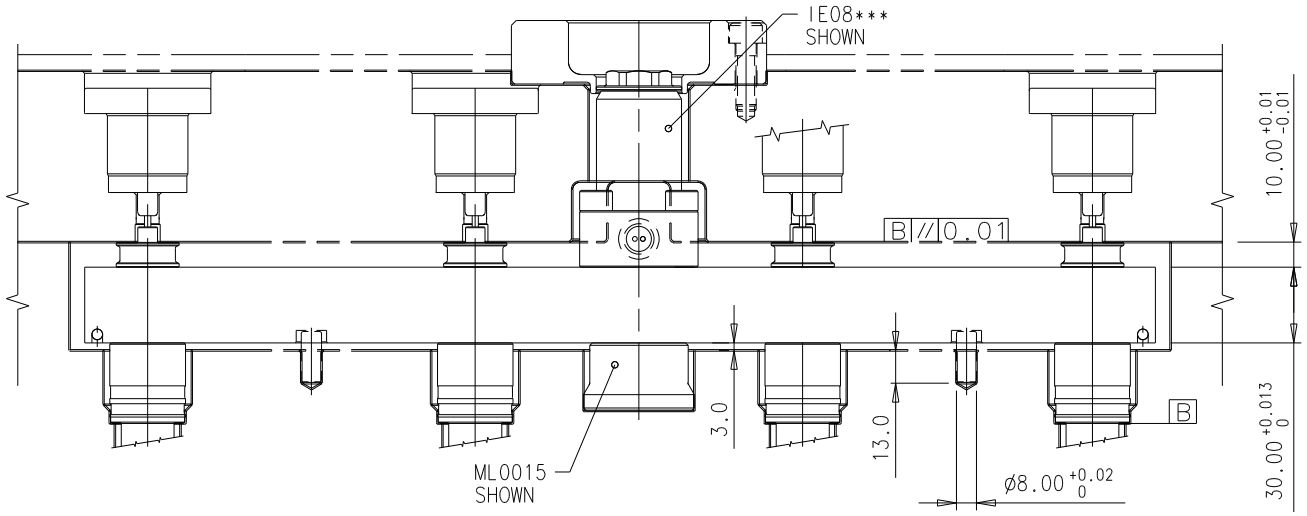
ACCESSORIES 09.01

MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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X = 65 SHOWN

NOZZLES
06.01

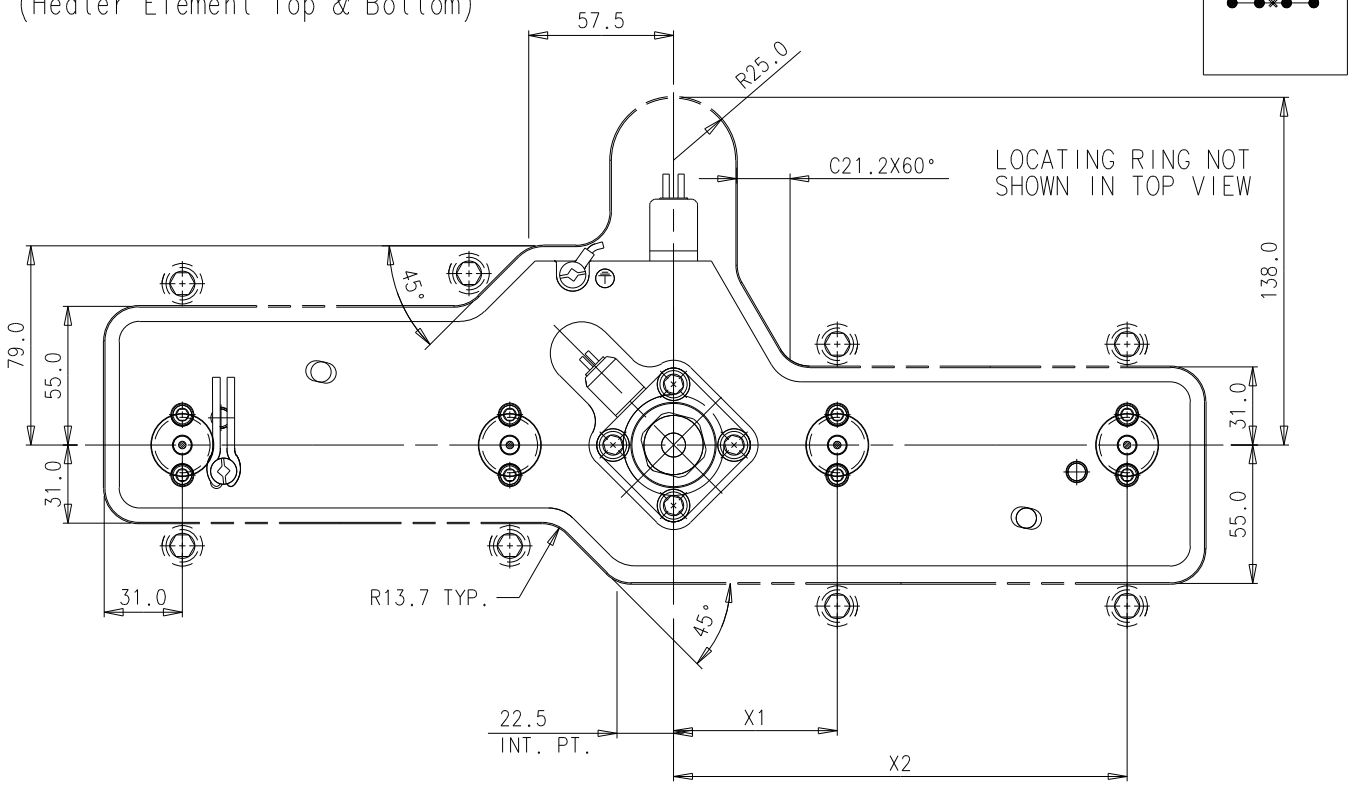
ACCESSORIES
09.01

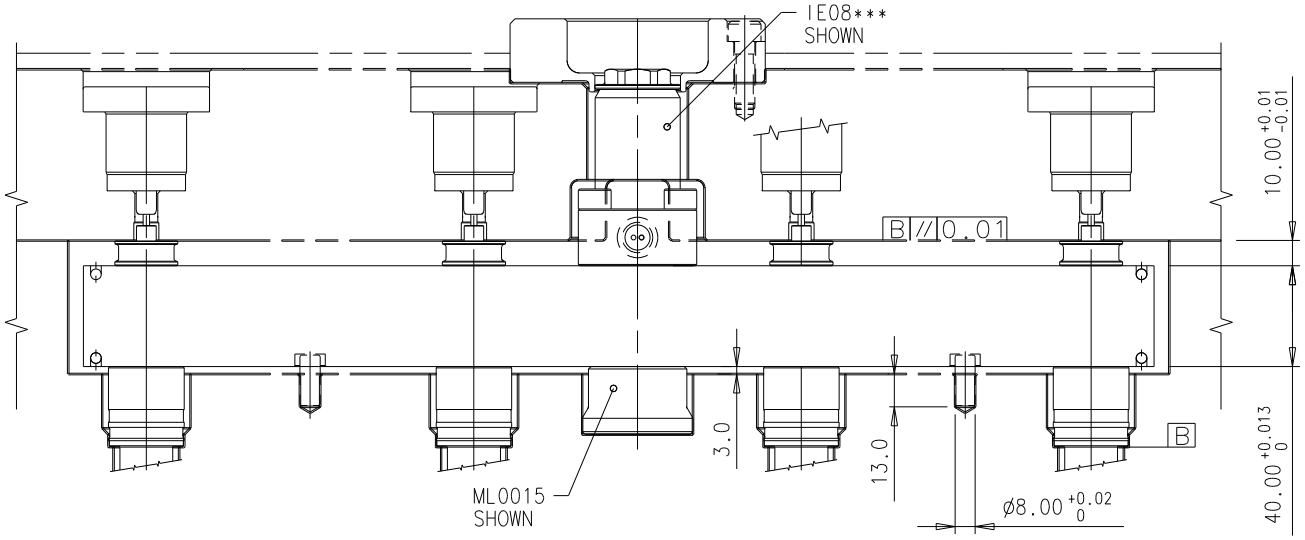
MANIFOLD
RANGES
06.02.001

MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 65 SHOWN

NOZZLES 06.01

ACCESSORIES 09.01

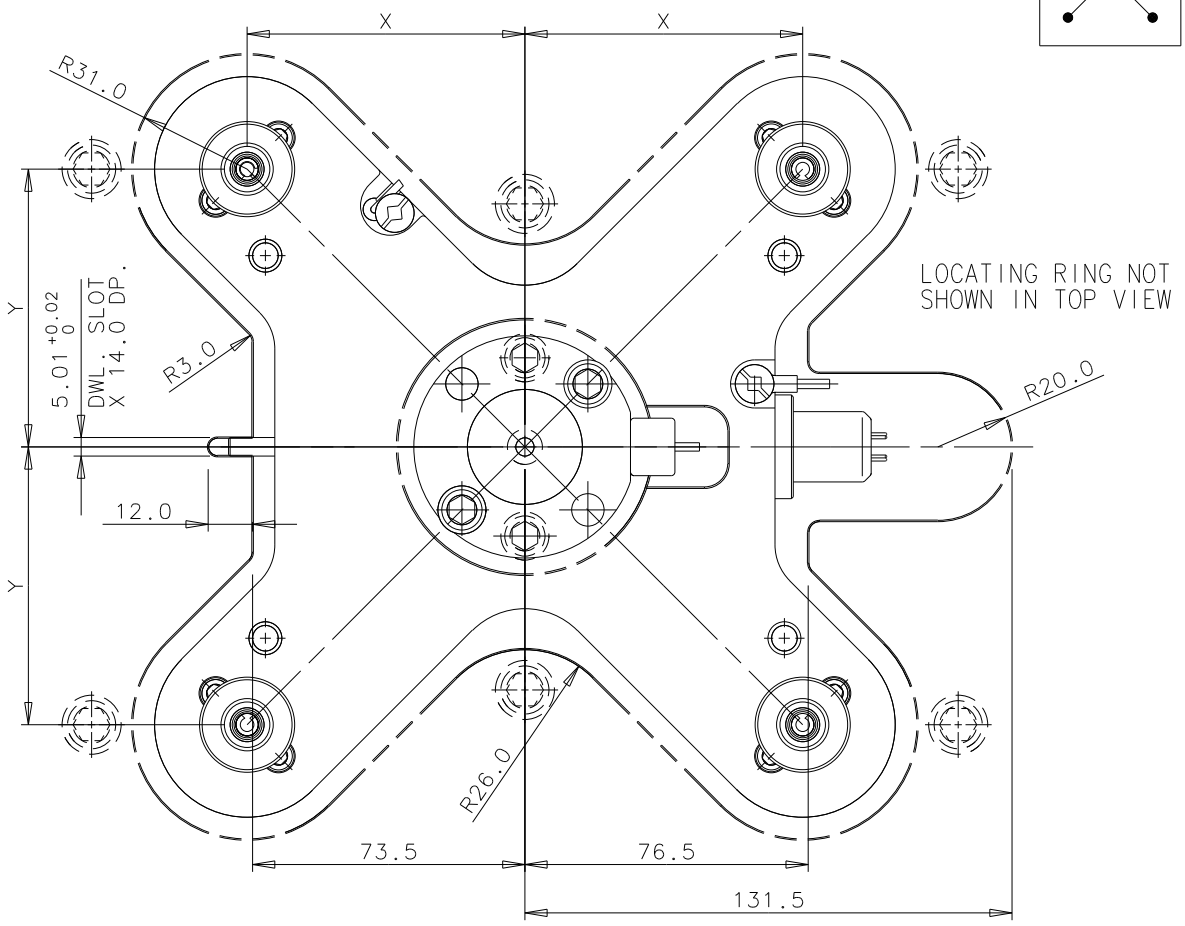
MANIFOLD RANGES 06.02.001

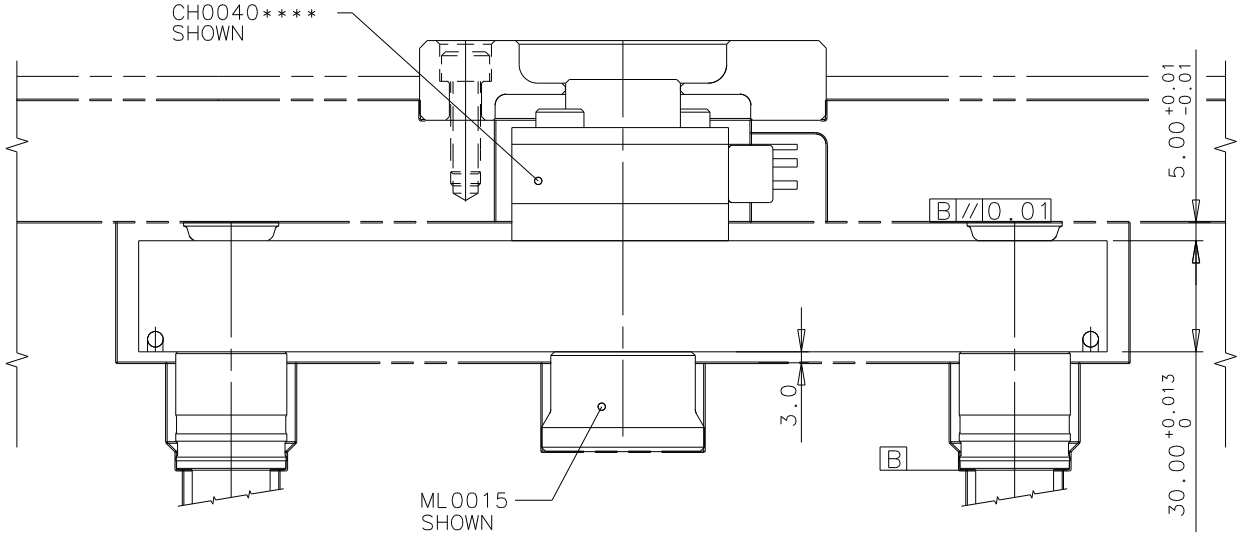
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 75 SHOWN

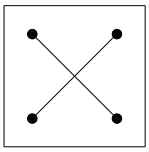
NOZZLES 06.01

ACCESSORIES 09.01

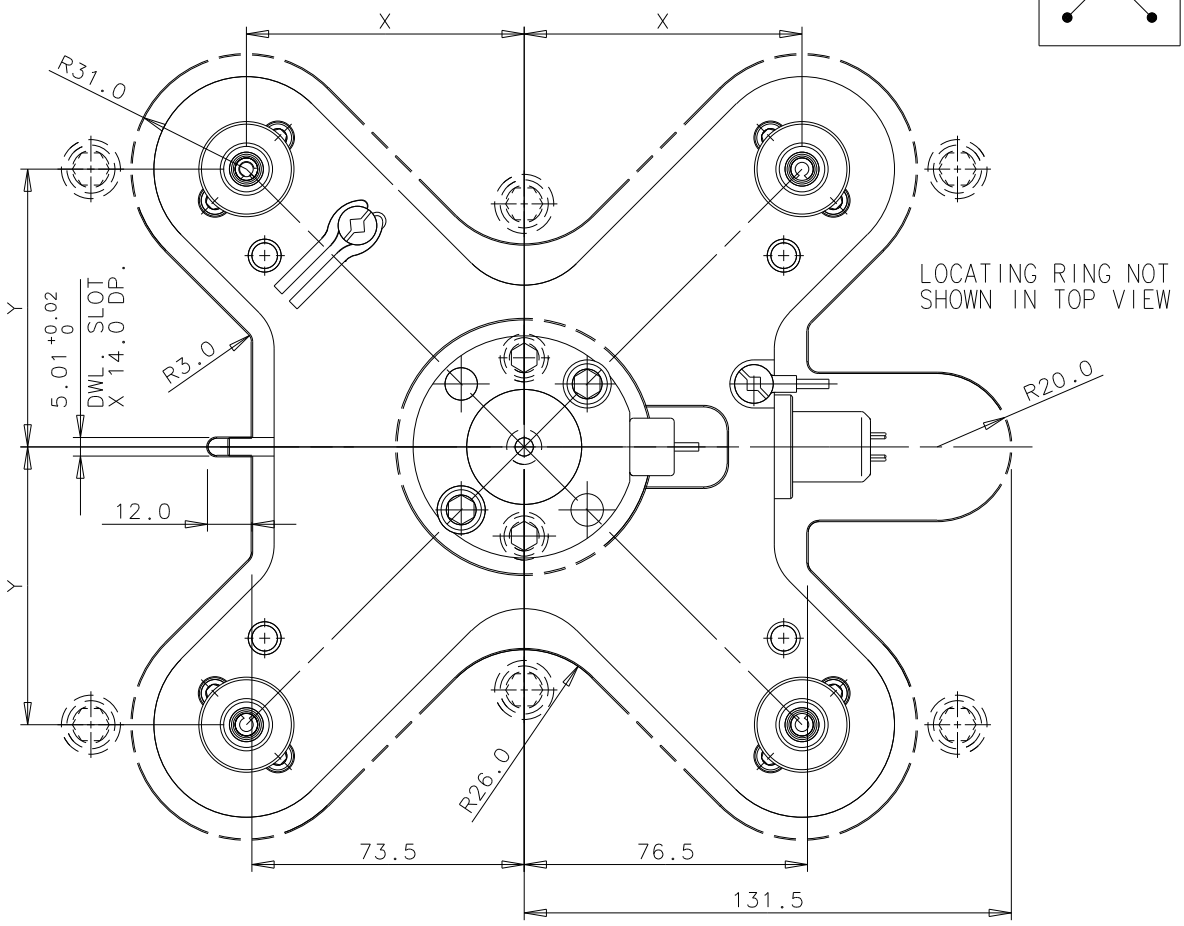
MANIFOLD RANGES 06.02.001

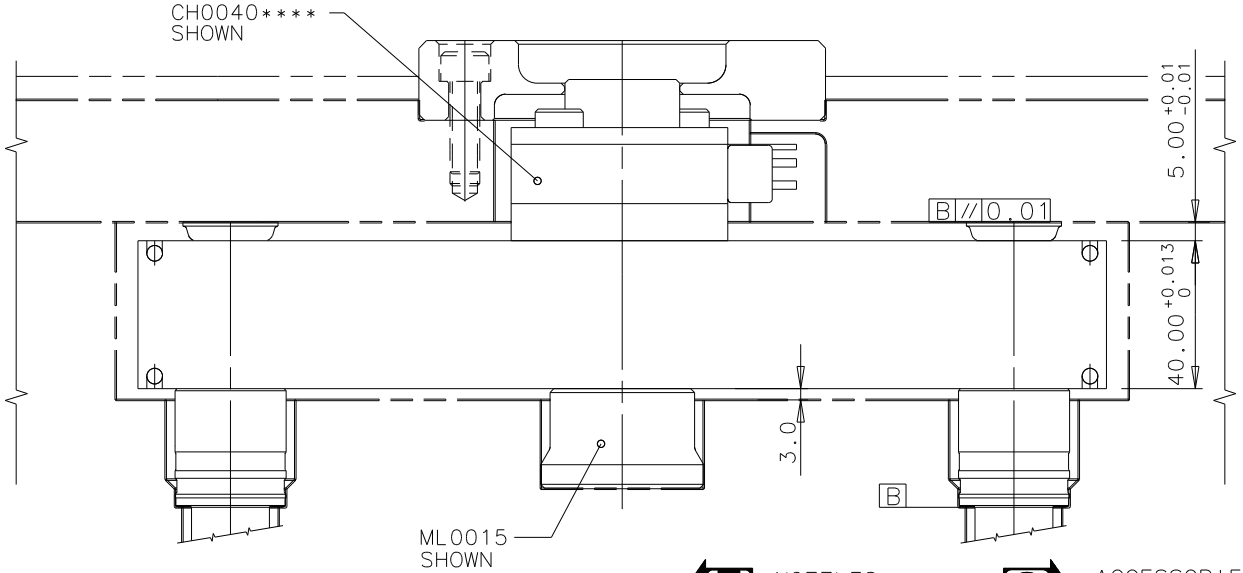
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 75 SHOWN

NOZZLES 06.01

ACCESSORIES 09.01

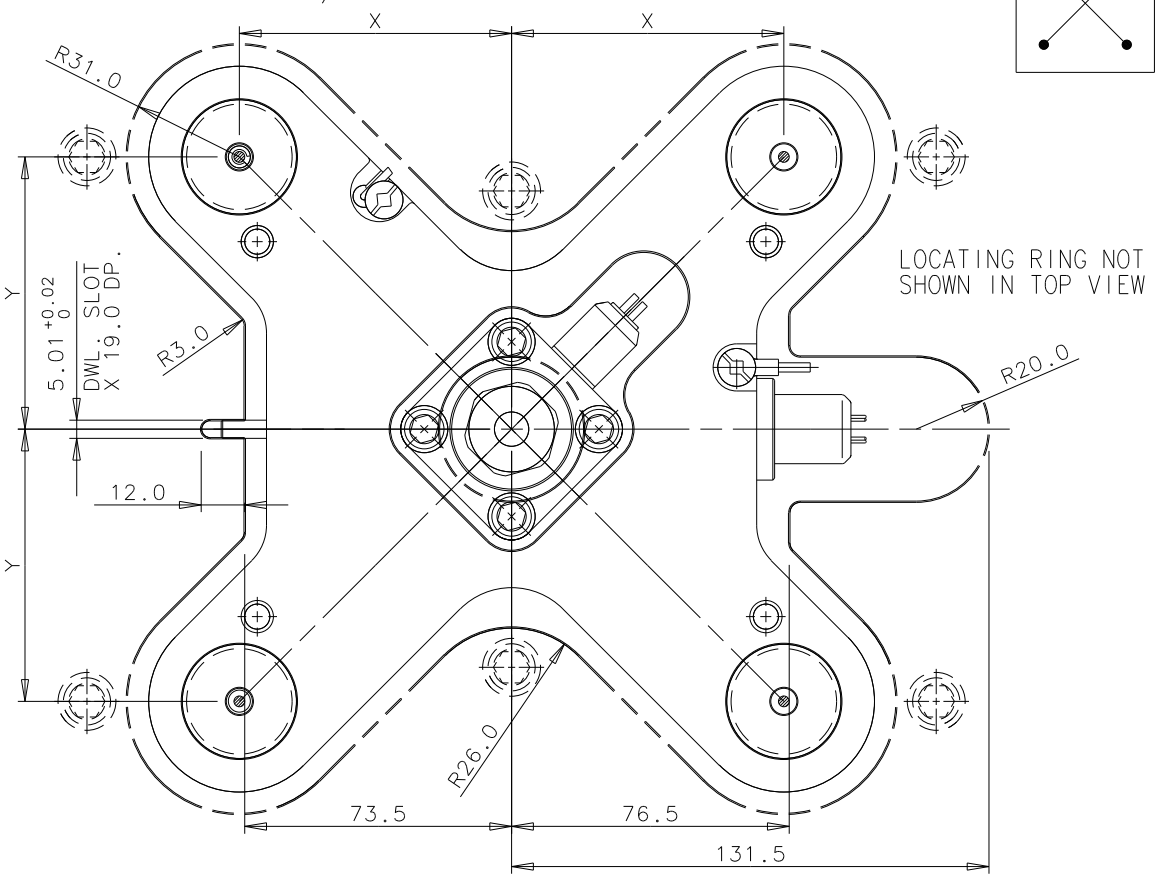
MANIFOLD RANGES 06.02.001

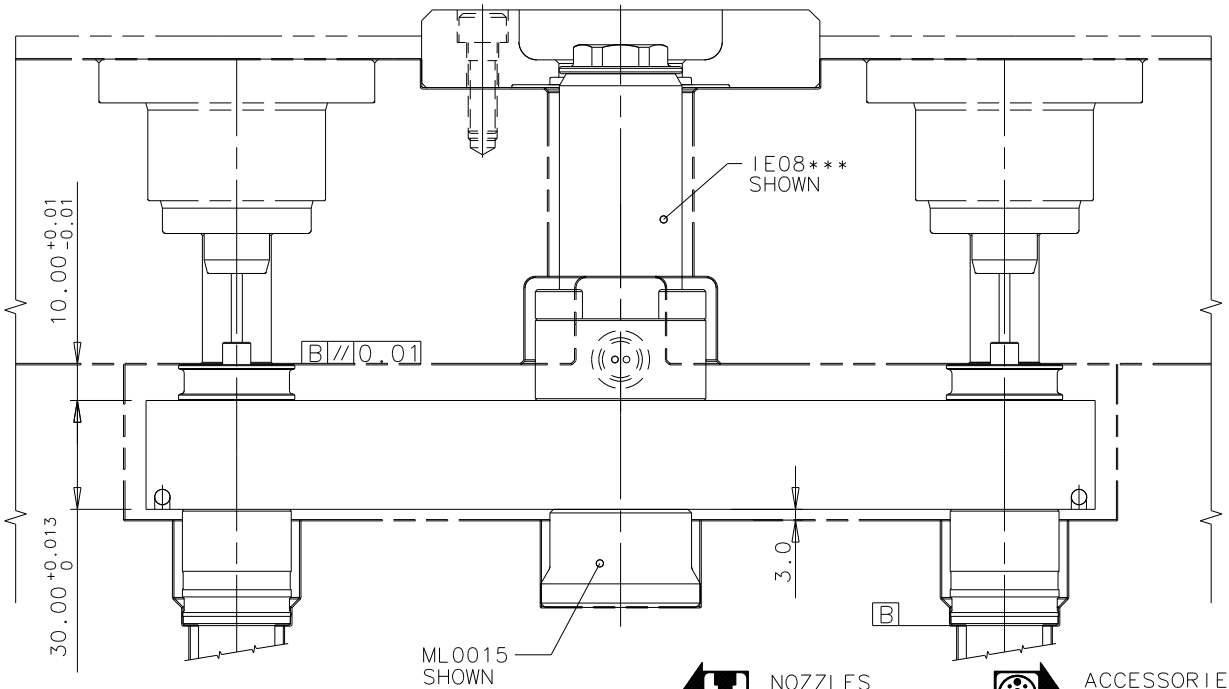
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 75 SHOWN

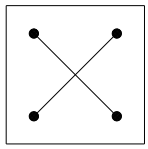
NOZZLES 06.01

ACCESSORIES 09.01

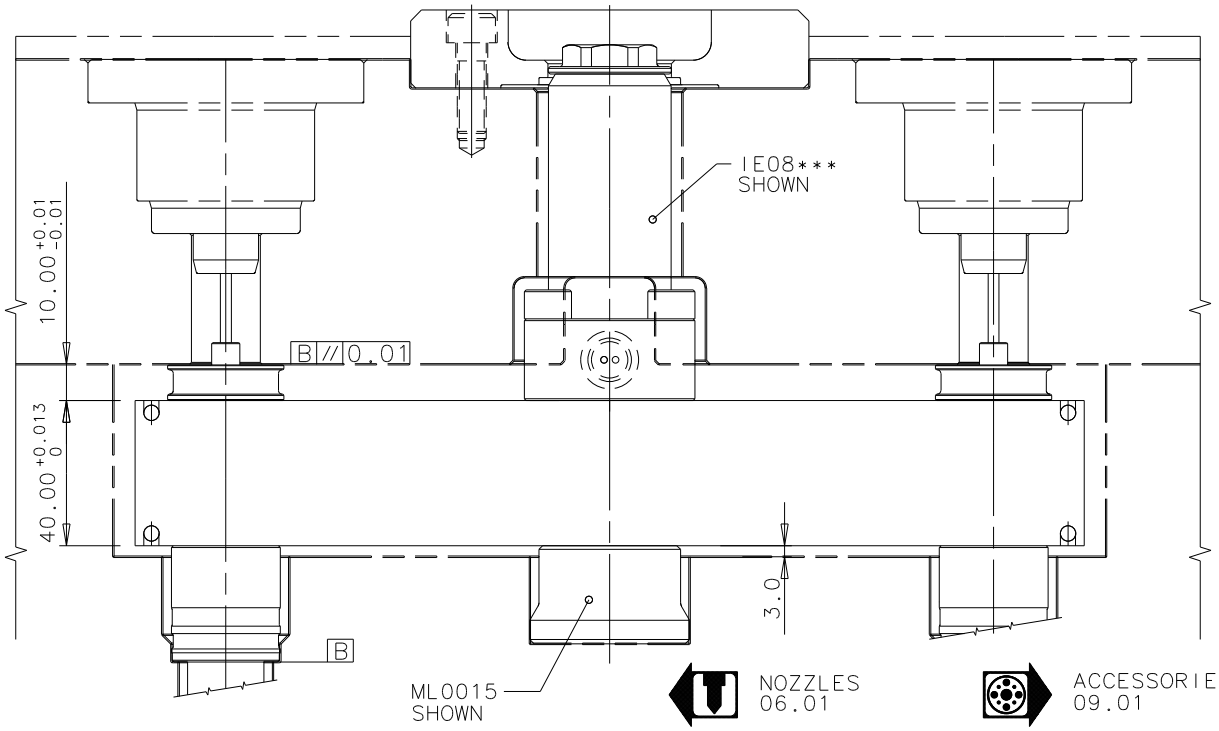
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



X = 75 SHOWN

NOZZLES 06.01

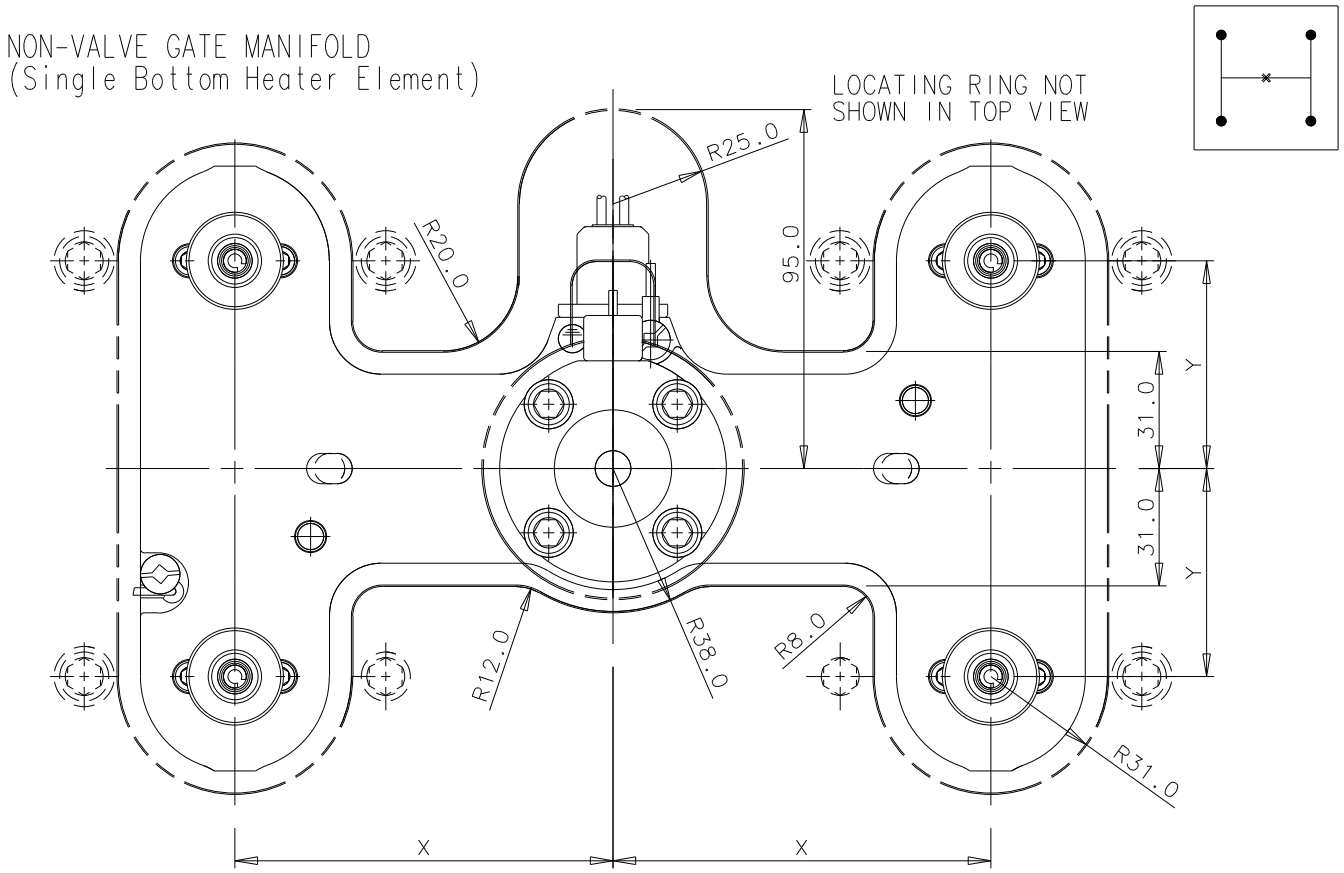
ACCESSORIES 09.01

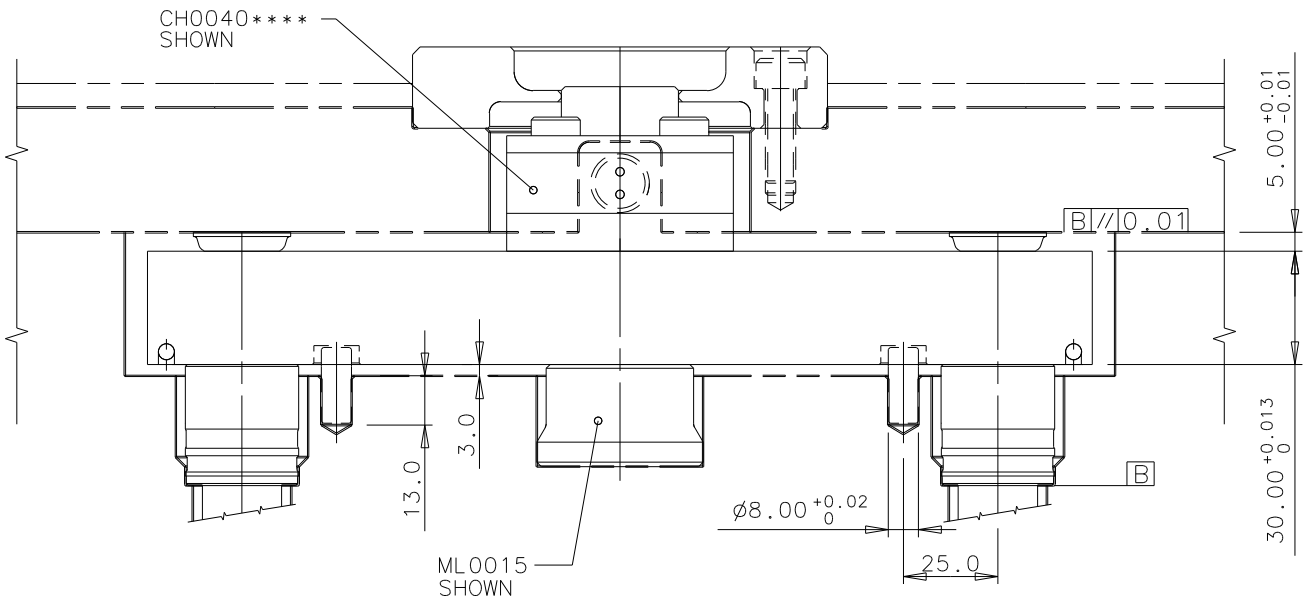
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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X = 100 / Y = 55 SHOWN

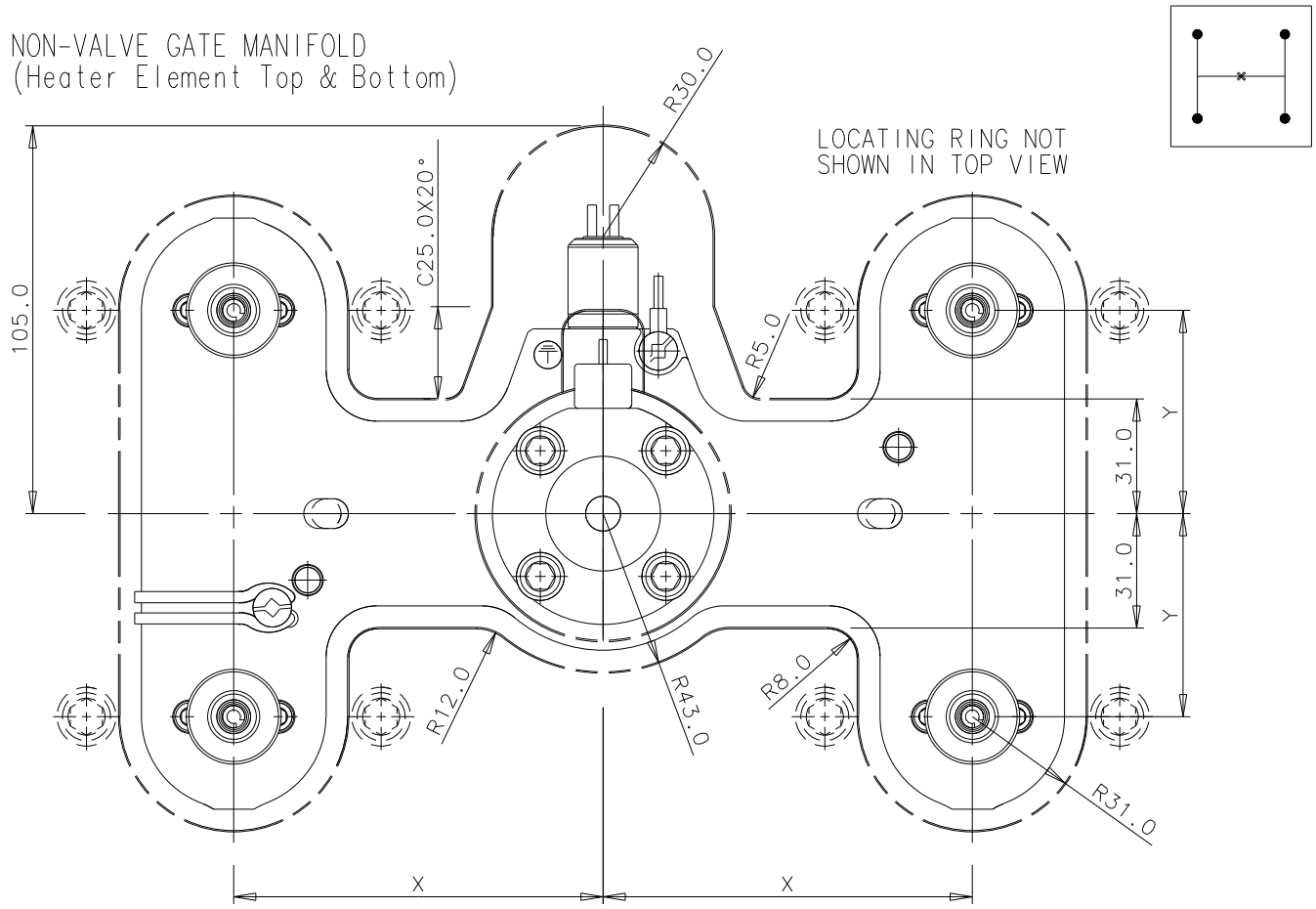
NOZZLES 06.01

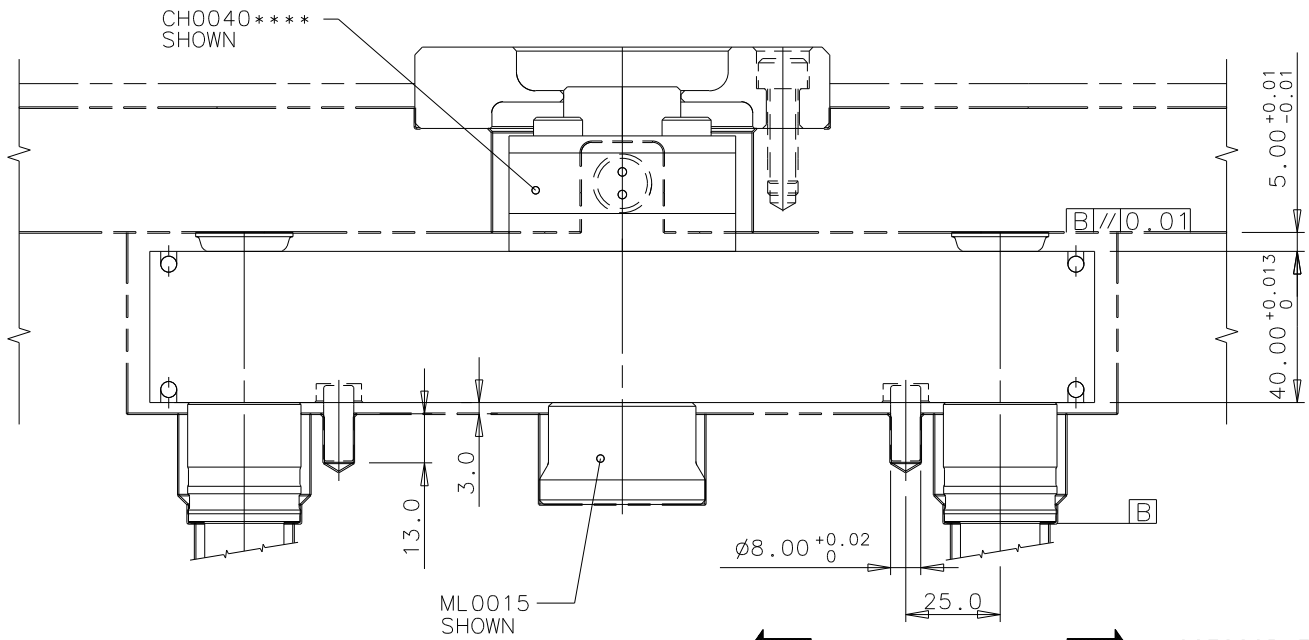
ACCESSORIES 09.01

MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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X = 100 / Y = 55 SHOWN

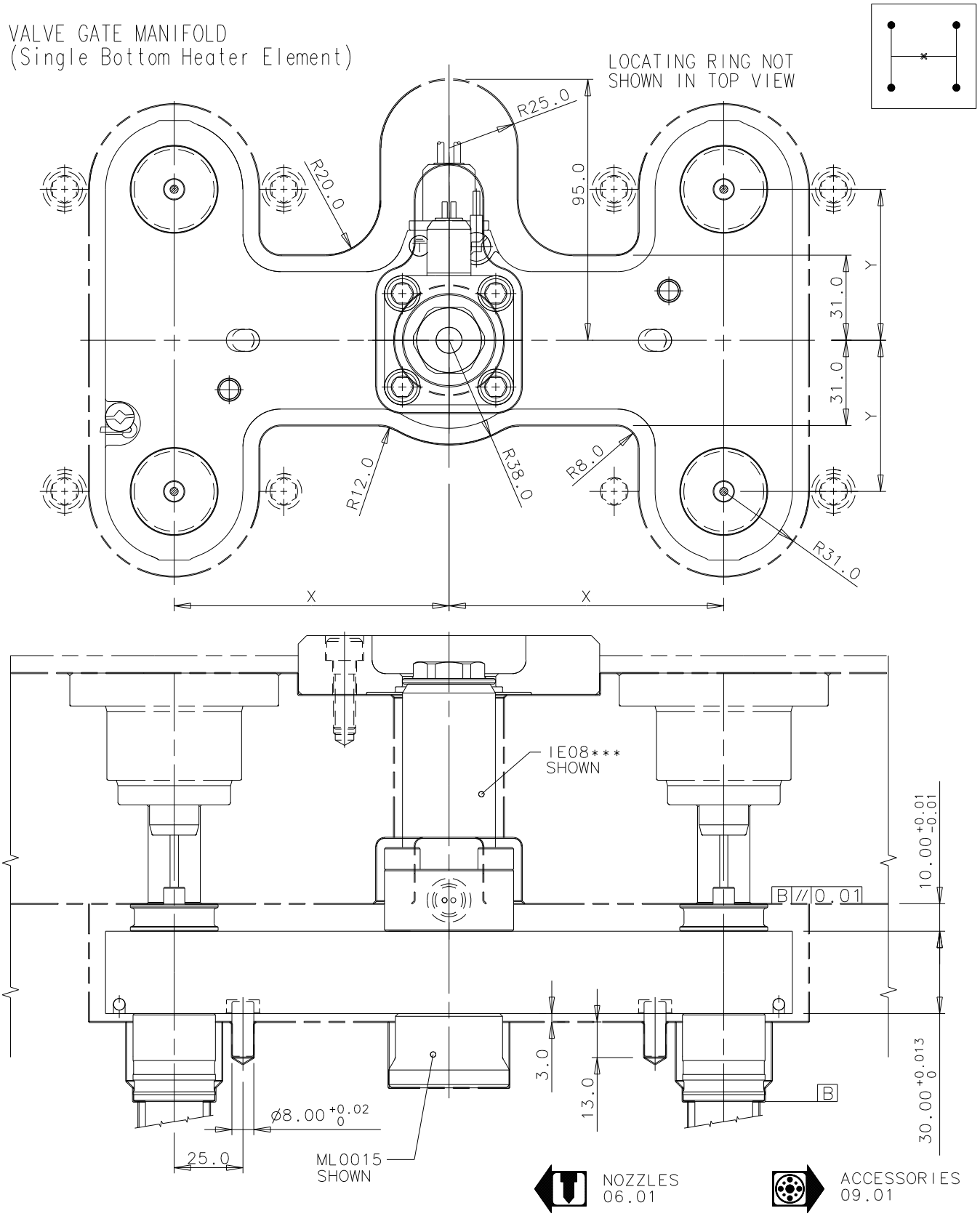
NOZZLES
06.01

ACCESSORIES
09.01

MANIFOLD
RANGES
06.02.001

MANIFOLD
COMPONENTS
10.01

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X = 100 / Y = 55 SHOWN

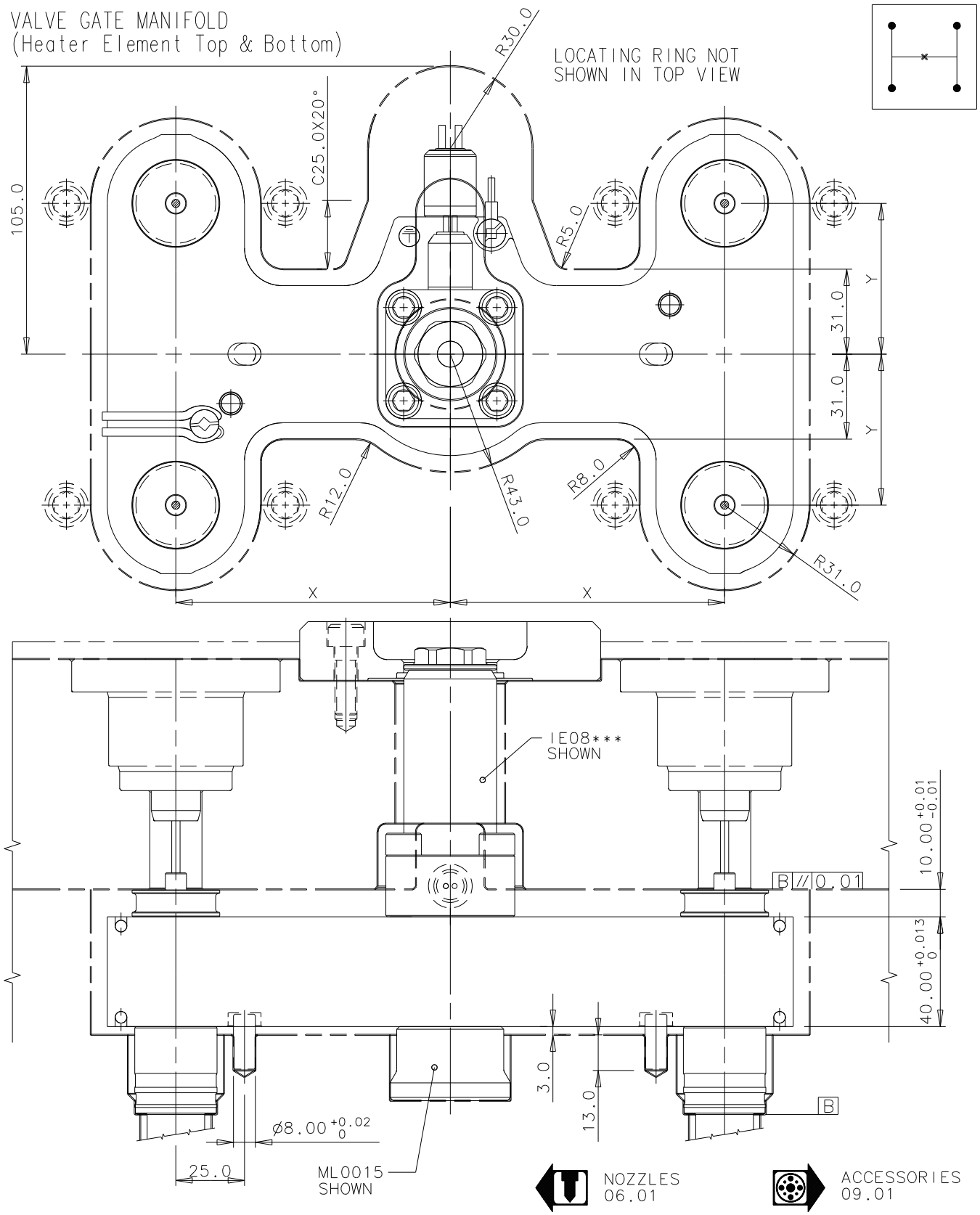
NOZZLES
06.01

ACCESSORIES
09.01

MANIFOLD
RANGES
06.02.001

MANIFOLD
COMPONENTS
10.01

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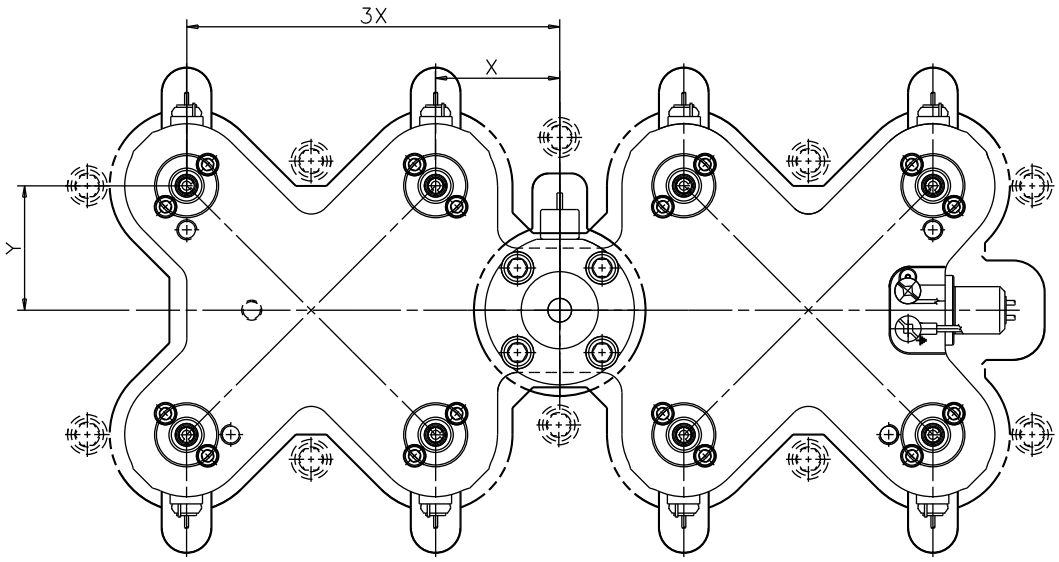
X = 100 / Y = 55 SHOWN

NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

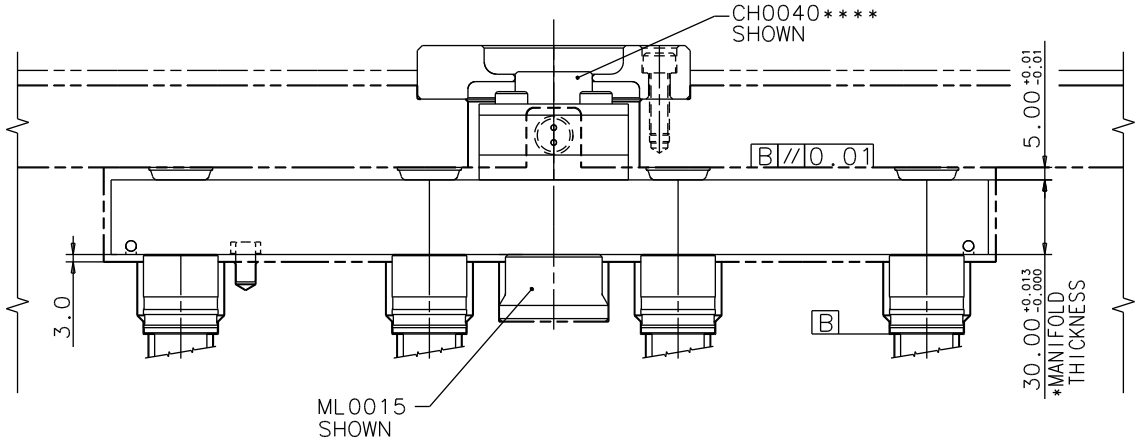
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SPRUE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION
PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO Ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X,Y = 50 SHOWN

NOZZLES 06.01

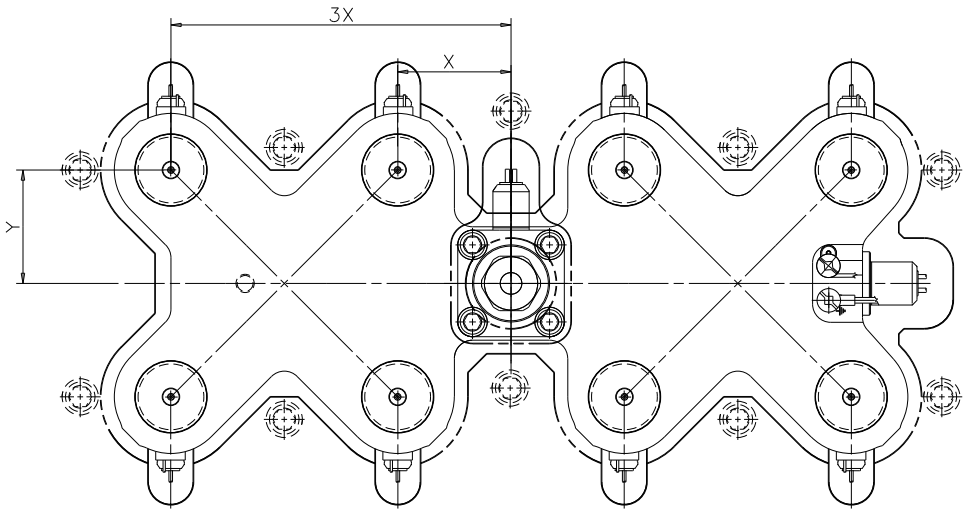
ACCESSORIES 09.01

MANIFOLD RANGES 06.02.001

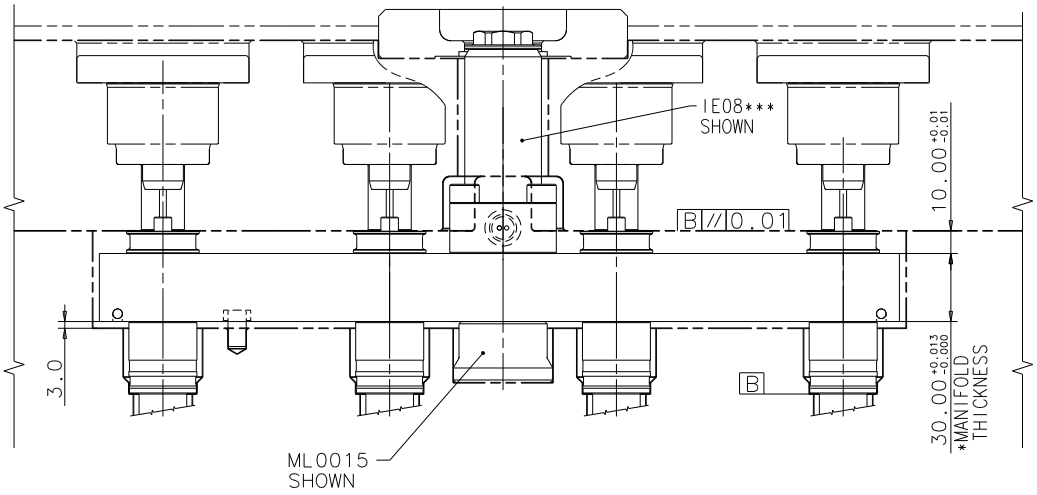
MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION
PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO Ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

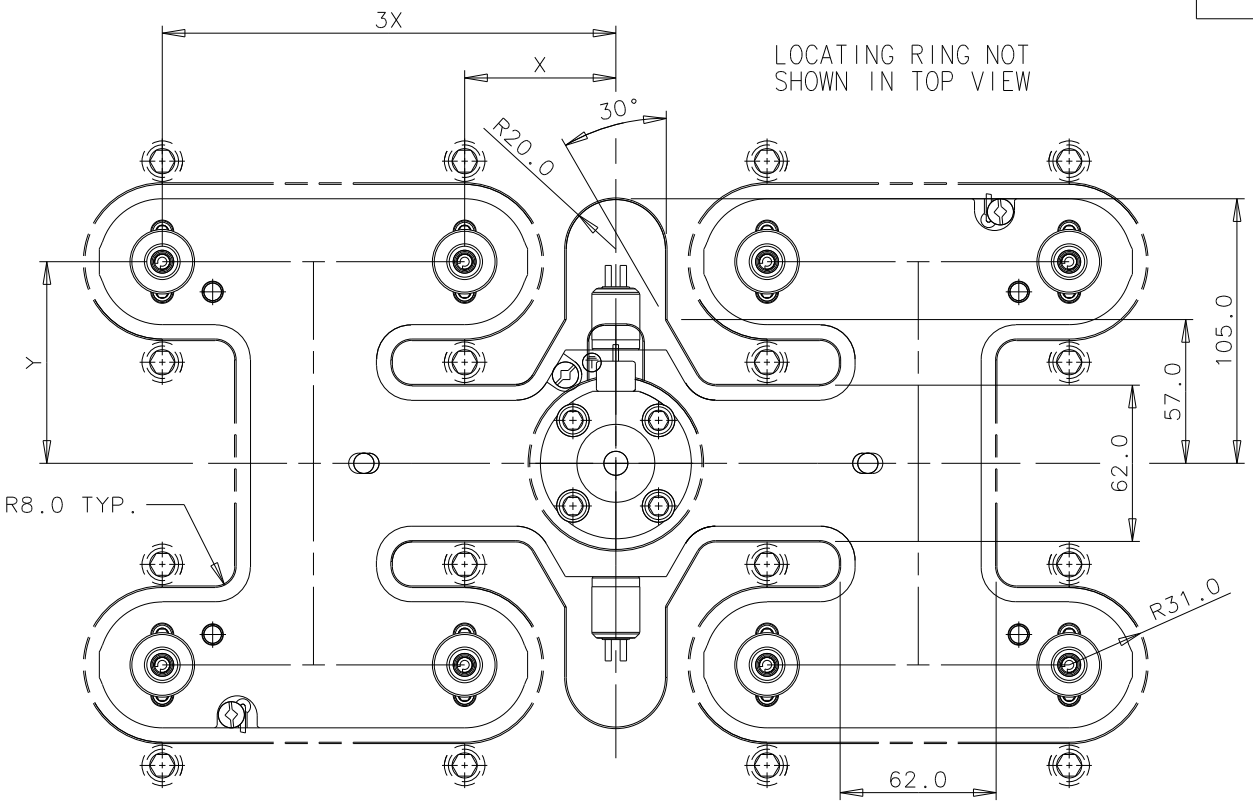
X,Y = 50 SHOWN

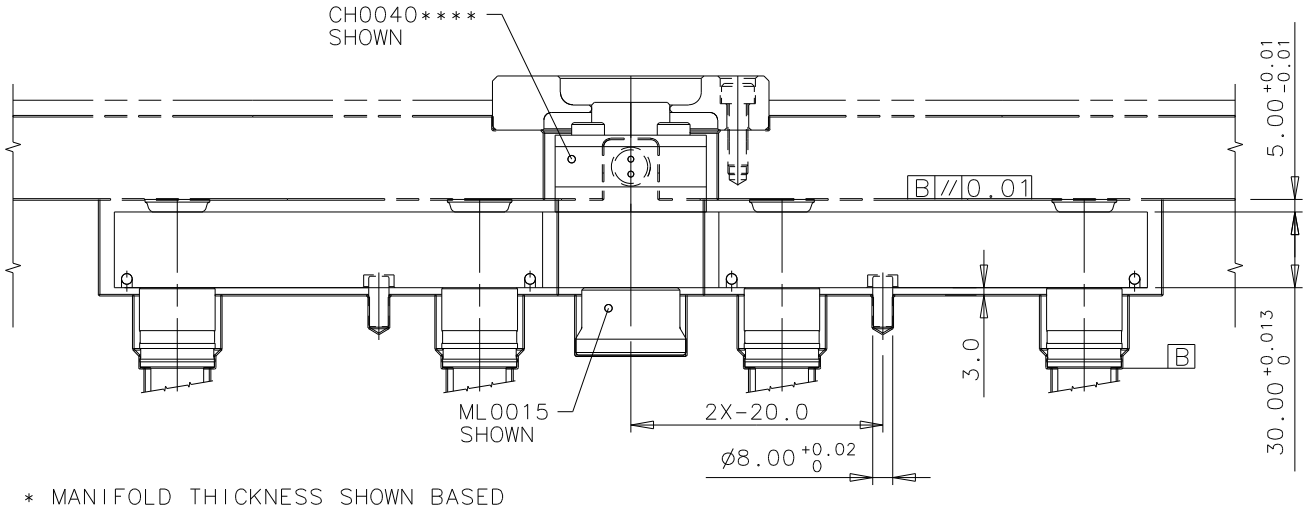
NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

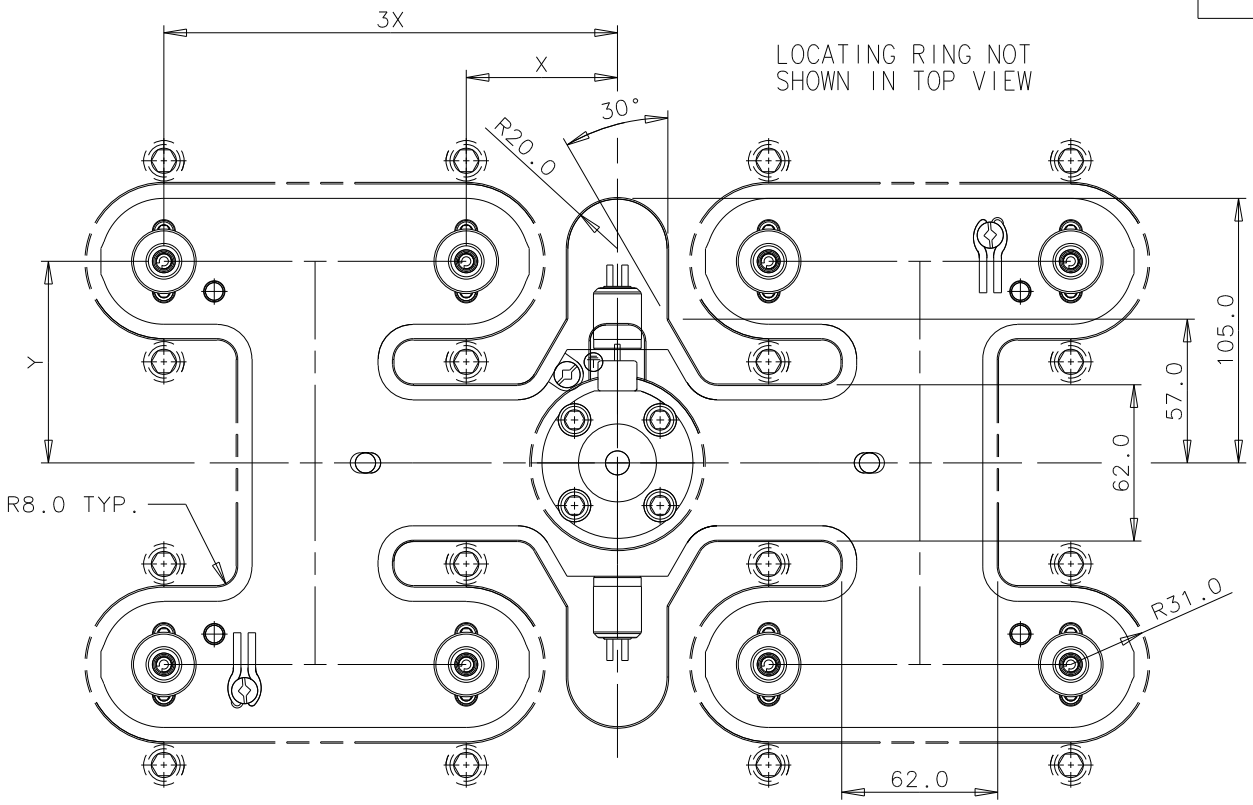
FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

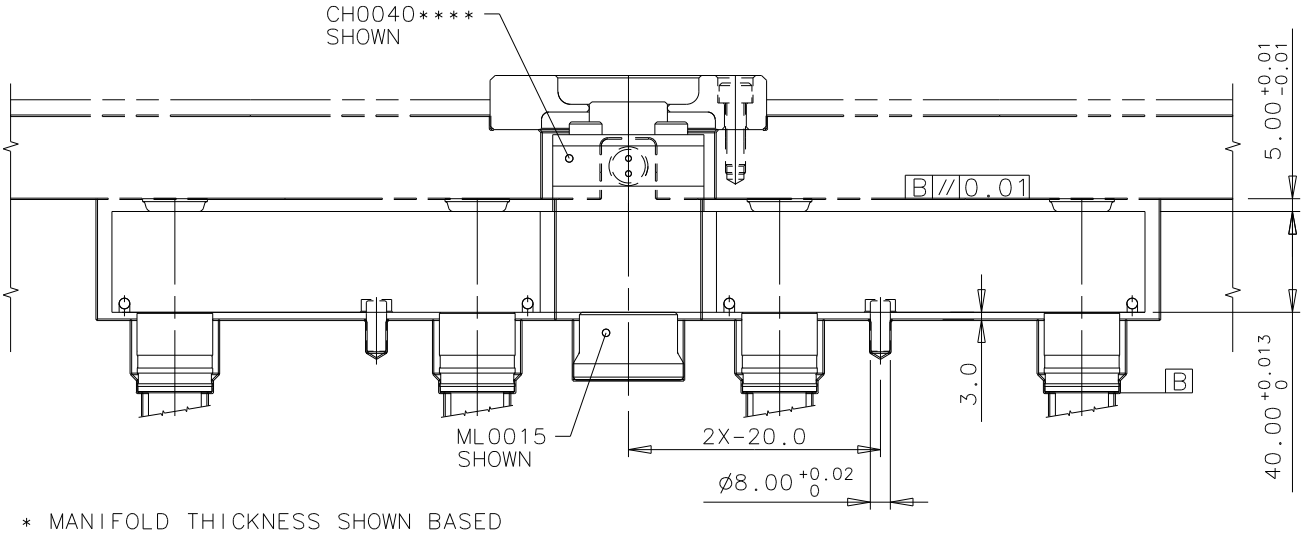
X = 60 / Y = 80 SHOWN

NOZZLES 06.01
ACCESSORIES 09.01
MANIFOLD RANGES 06.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES 06.01

ACCESSORIES 09.01

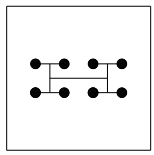
MANIFOLD RANGES 06.02.001

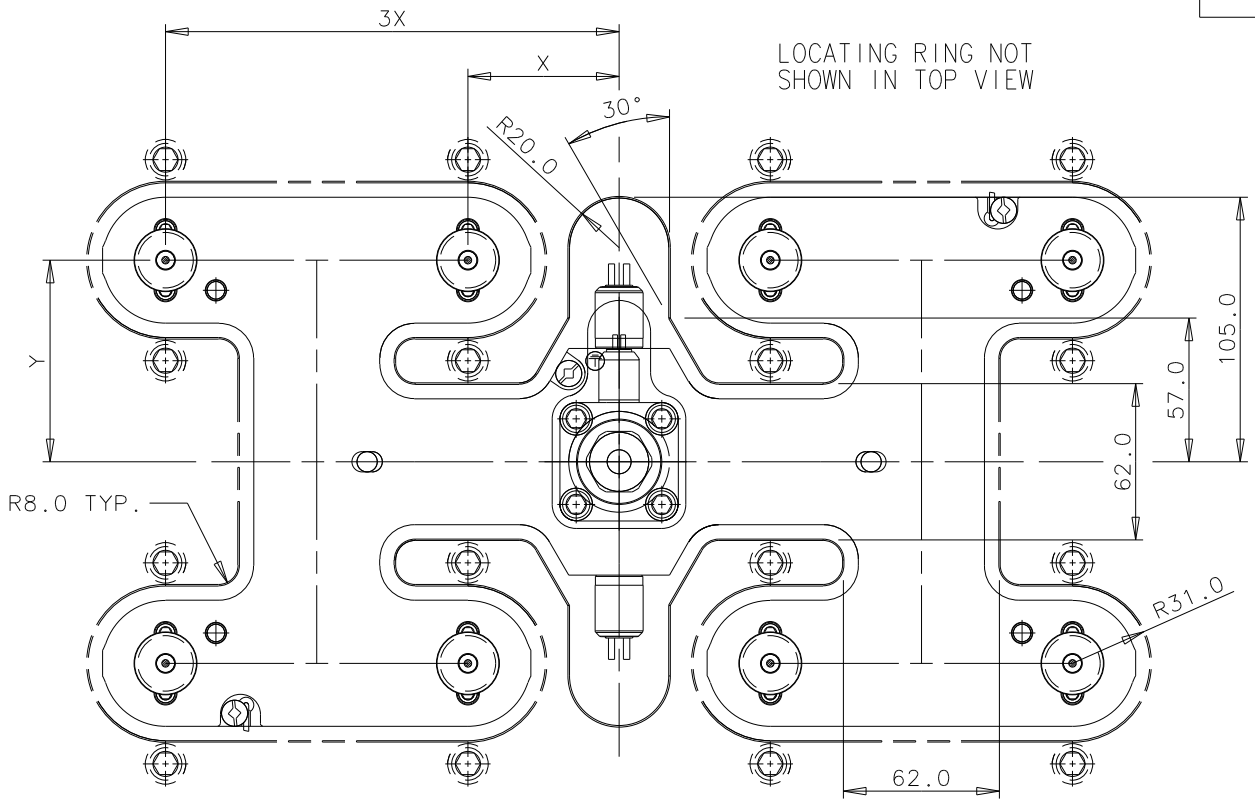
MANIFOLD COMPONENTS 10.01

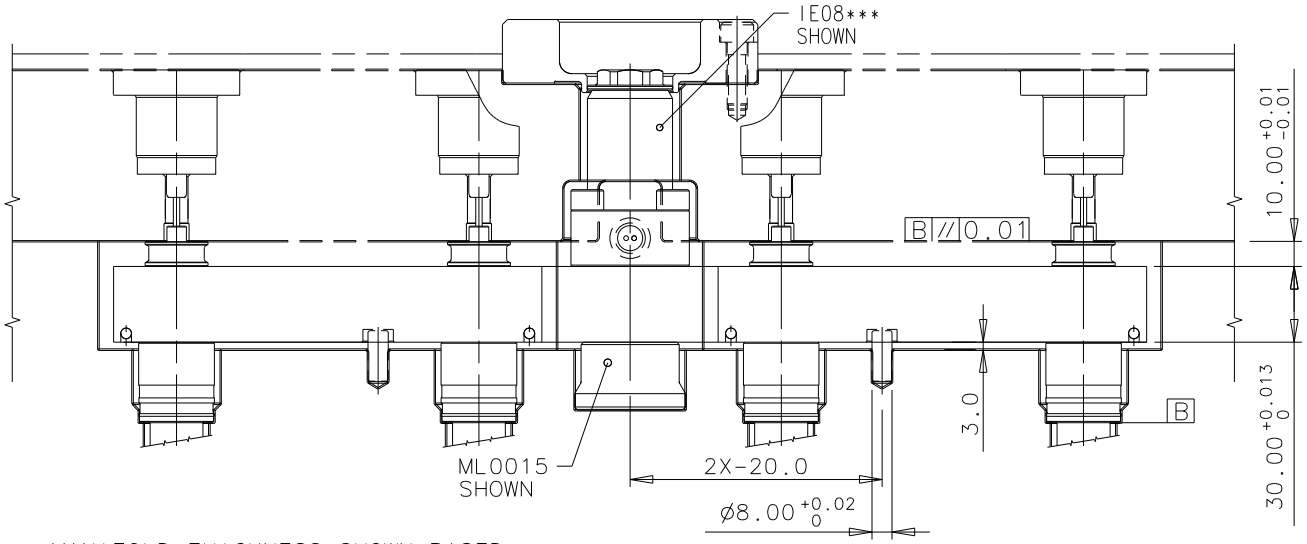
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VALVE GATE MANIFOLD
(Single Bottom Heater Element)







* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES 06.01

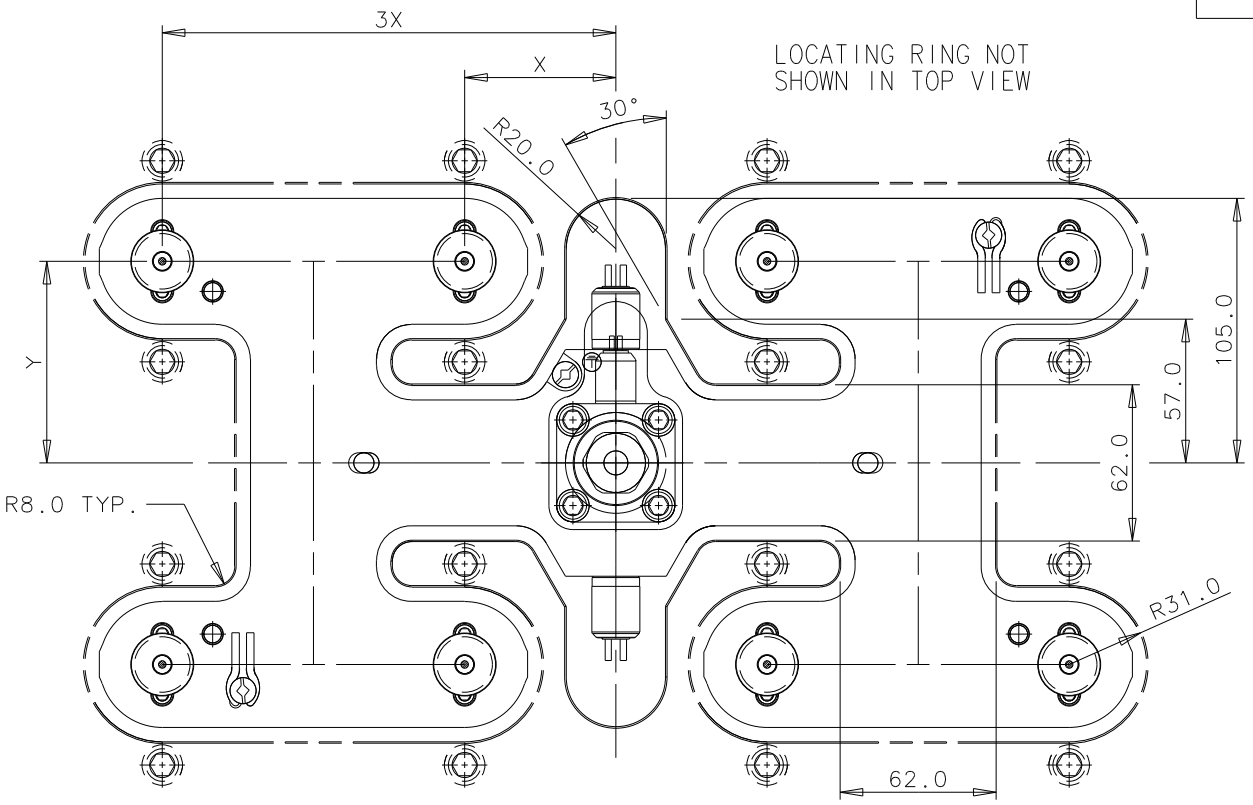
ACCESSORIES 09.01

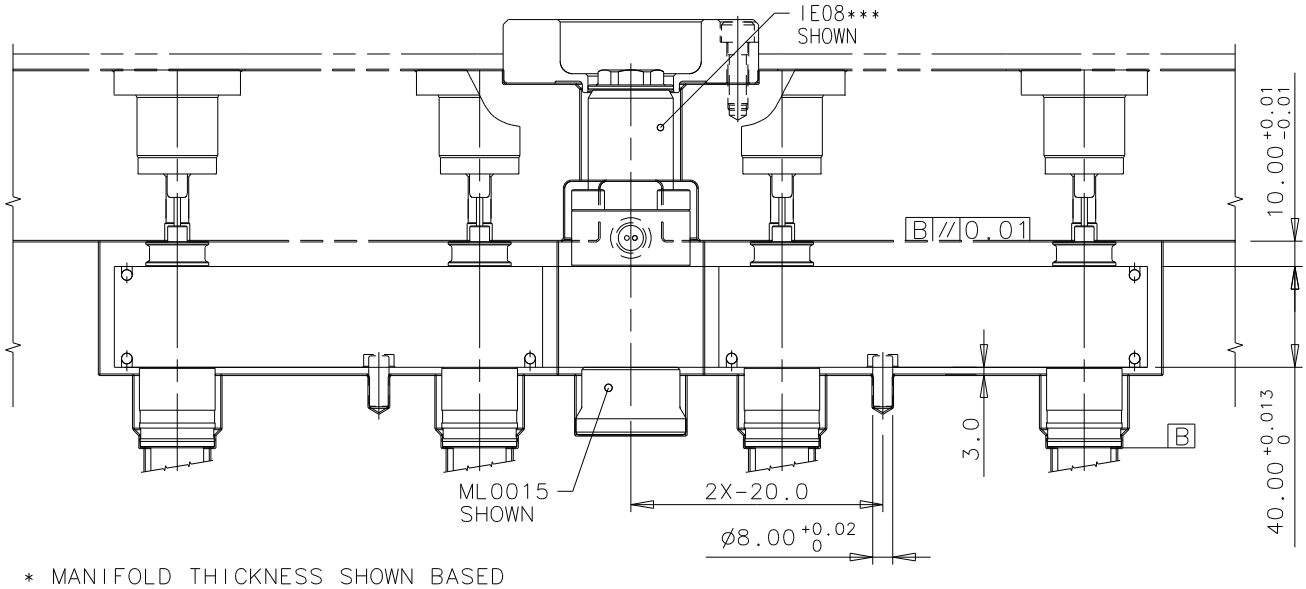
MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 80 SHOWN

NOZZLES 06.01

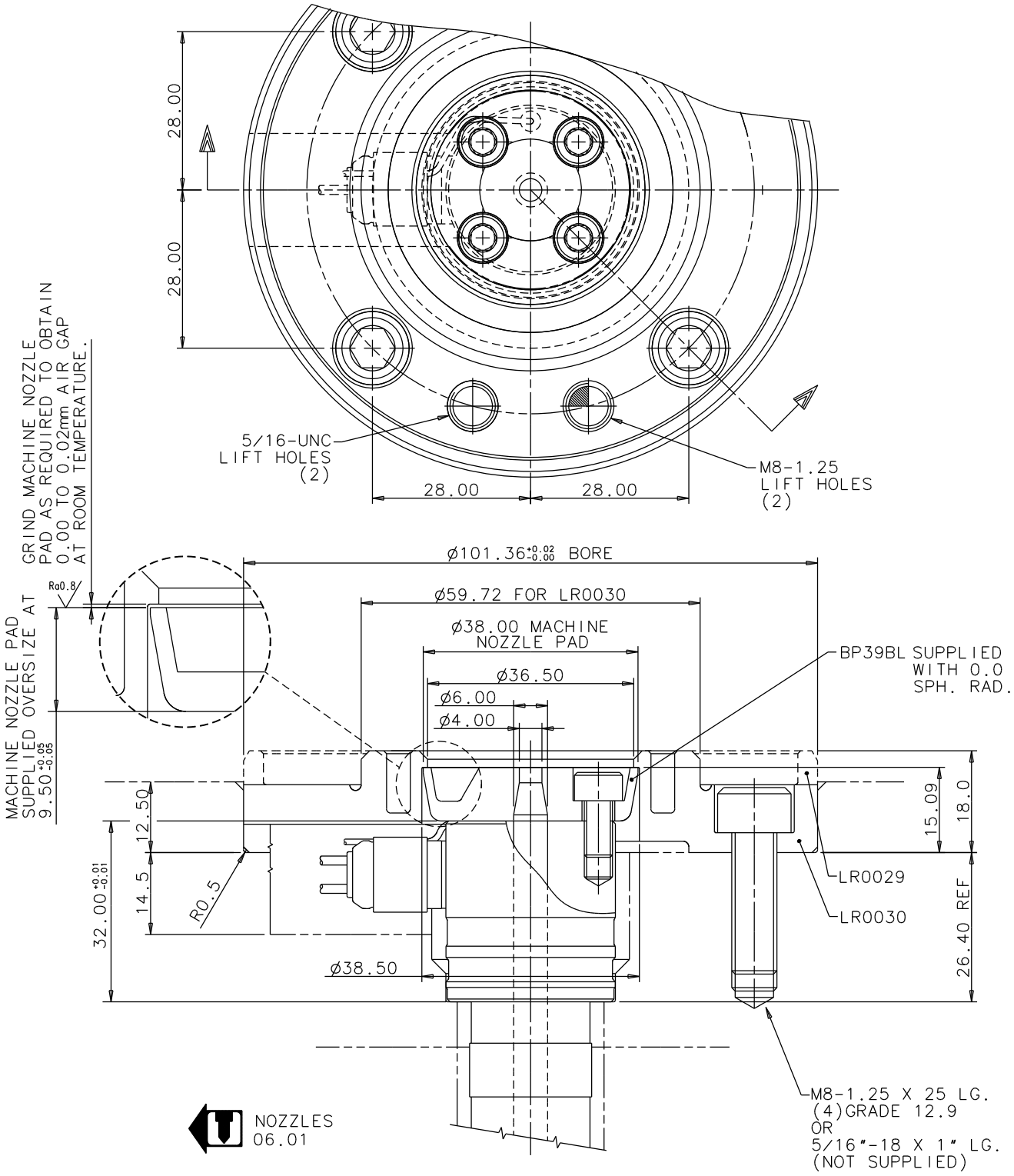
ACCESSORIES 09.01

MANIFOLD RANGES 06.02.001

MANIFOLD COMPONENTS 10.01

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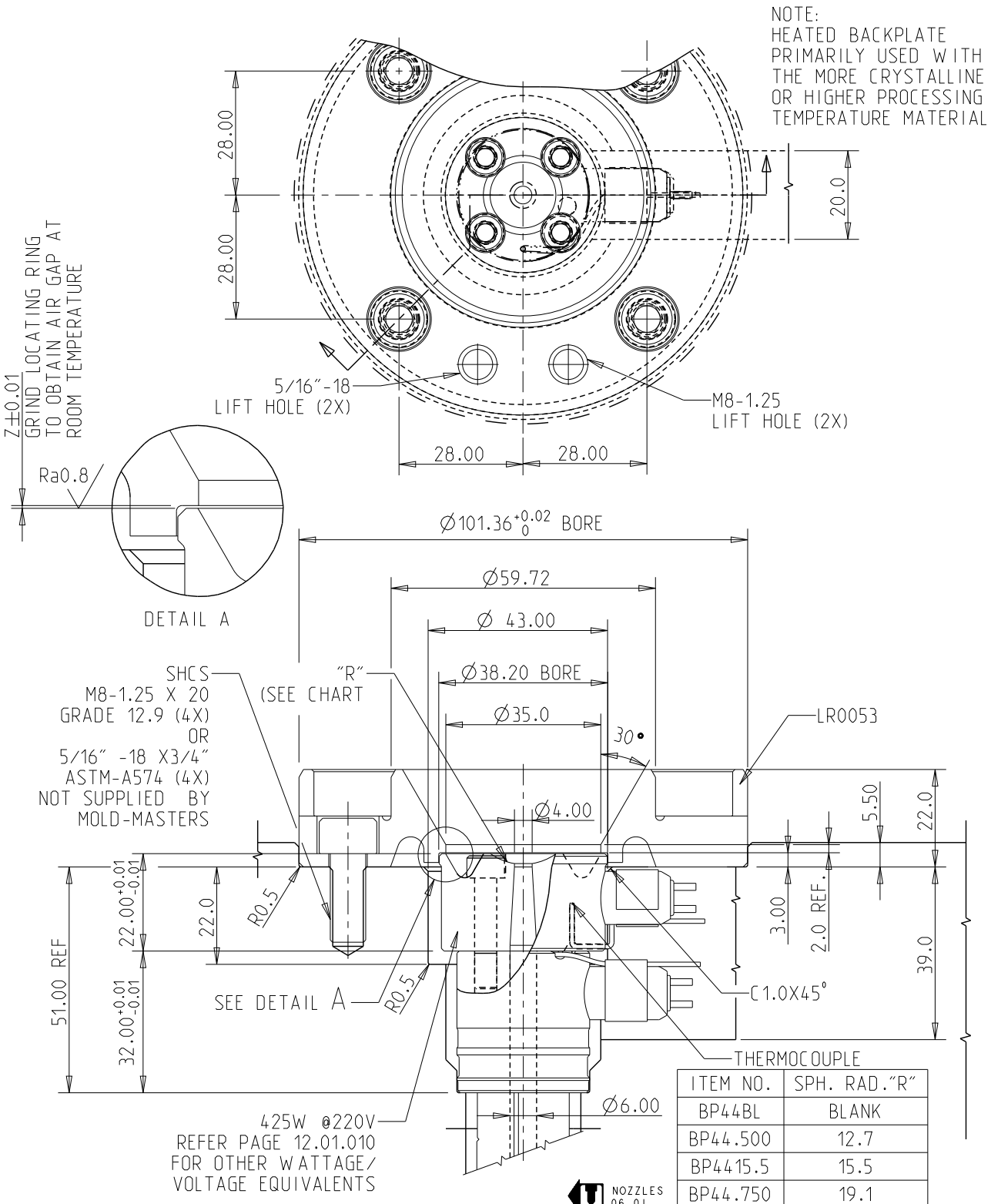


SINGLE NOZZLE OPTIONS	
LOCATING RING #	USED WITH:
LR0029	ø101.60 BORE IN FIXED PLATTEN
LR0030	ø60.00 BORE IN FIXED PLATTEN

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Single Nozzle (Sprue) w/ Heated Machine Nozzle Pad

06.03.015



ITEM NO.	SPH. RAD."R"
BP44BL	BLANK
BP44.500	12.7
BP4415.5	15.5
BP44.750	19.1
BP4440.0	40.0

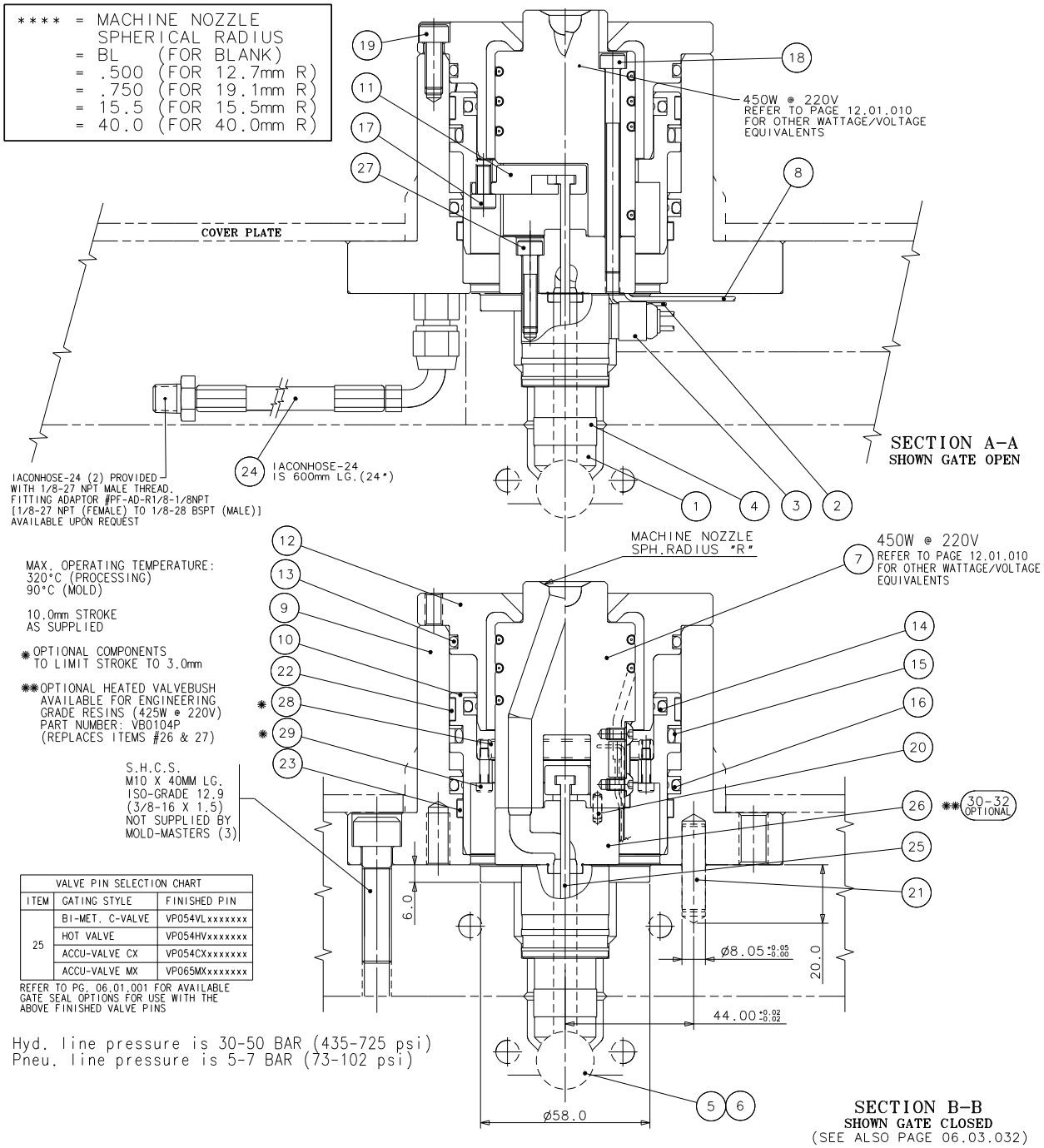
NOZZLES 06.01

SINGLE NOZZLE OPTIONS	
LOCATING RING#	USED WITH:
LR0053	Ø101.60 BORE IN FIXED PLATEN

	ΔT=Tp-Tm (PROCESS TEMP.-MOLD TEMP.)			
GAP AT ROOM TEMPERATURE	150°C	200°C	250°C	300°C
"Z" +/-0.01	0.02	0.05	0.07	0.09

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VALVE PIN SELECTION CHART		
ITEM	GATING STYLE	FINISHED PIN
25	BI-MET. C-VALVE	VP054VLxxxxxxx
	HOT VALVE	VP054HVxxxxxxx
	ACCU-VALVE CX	VP054CXxxxxxxx
	ACCU-VALVE MX	VP065MXxxxxxxx

REFER TO PG. 06.01.001 FOR AVAILABLE GATE SEAL OPTIONS FOR USE WITH THE ABOVE FINISHED VALVE PINS

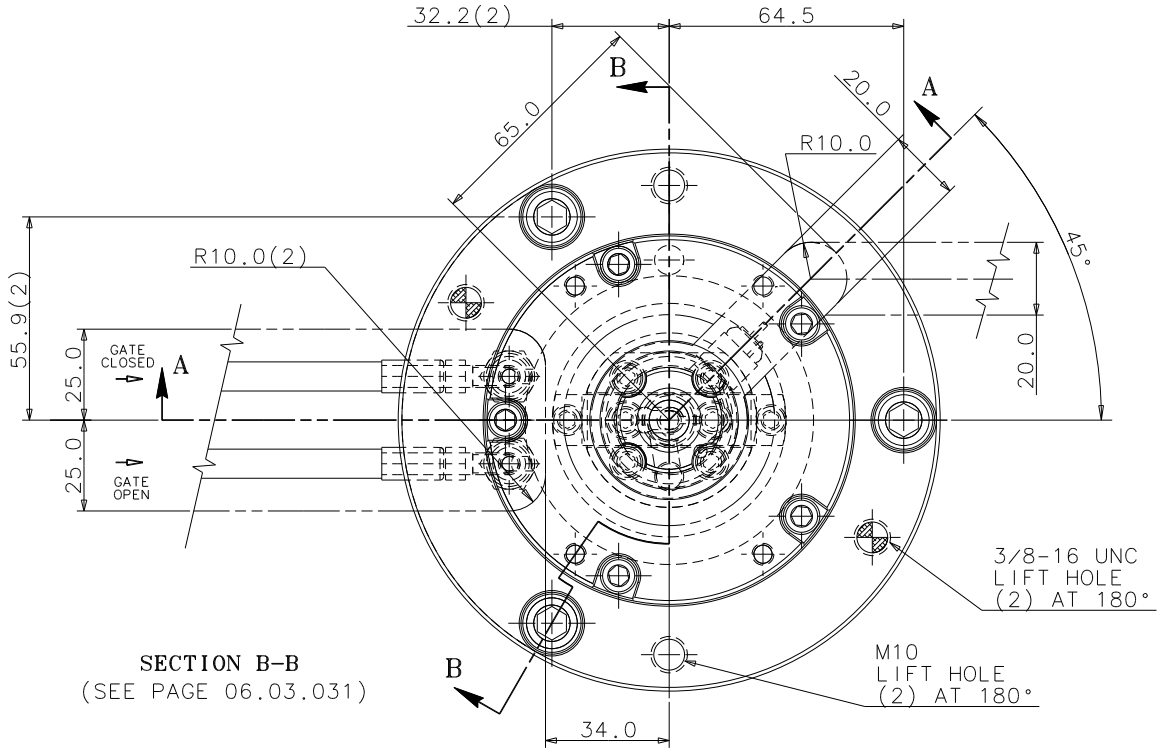
ITEM	QTY	PART NO.
1	1	NZMSCB1A***-FR
2	1	TCD1.0X***-1
3	1	TCRC19
4	*	TCRC22
5	1	TSM***
6	1	TSLM***
7	1	IABD01****
8	1	TCD1.0X150-1

ITEM	QTY	PART NO.
9	1	HYCYLB12(**)
10	1	HYPISB45
11	1	VPHOLDER04
12	1	HYCYLT11
13	1	HYORG233
14	1	PS0005
15	1	PS0006
16	1	PS0007

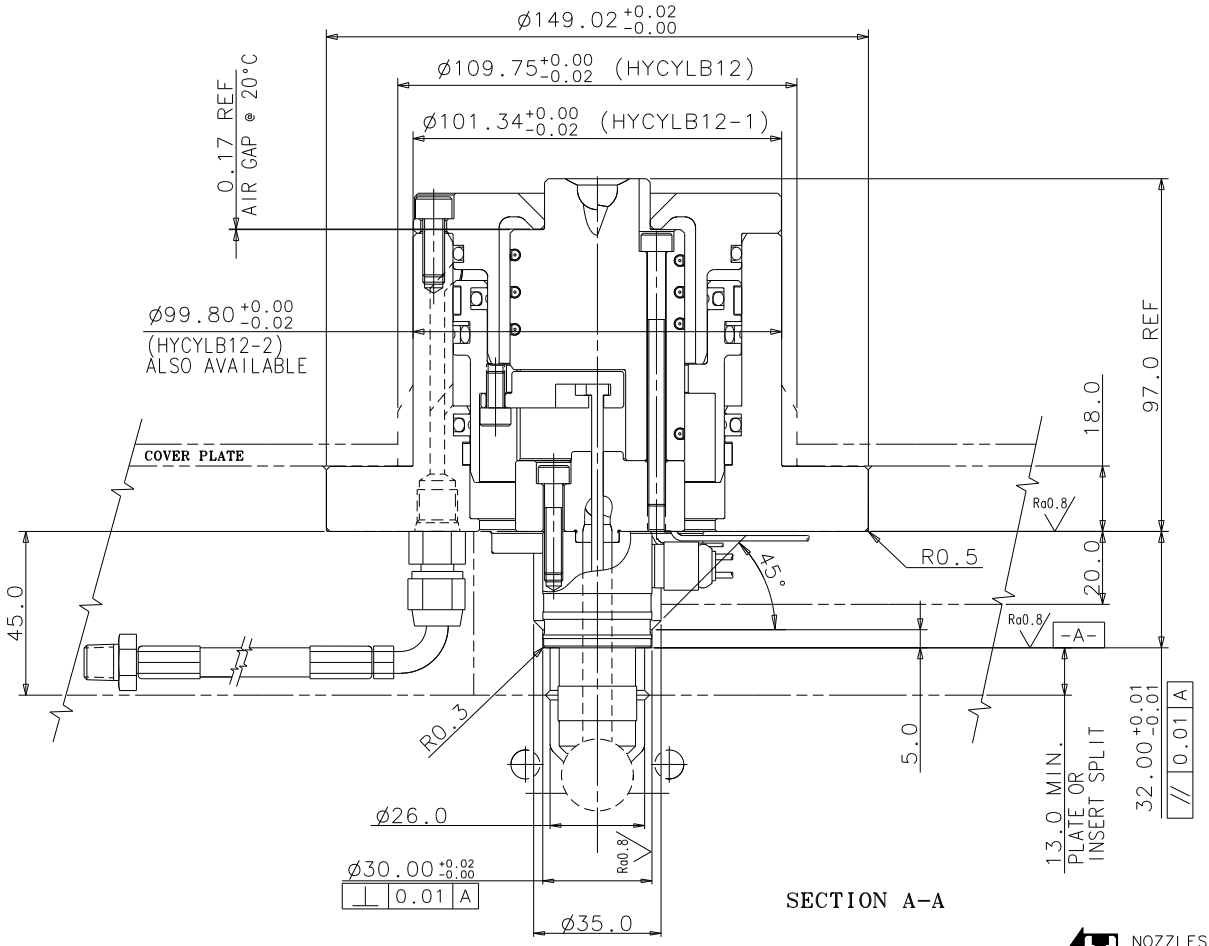
ITEM	QTY	PART NO.
17	2	SHCSM5X10
18	4	SHCSM5X70
19	5	SHCSM6X16
20	2	DPM3X8
21	1	DPM8X30
22	1	GUIDERING03
23	1	GUIDERING04
24	2	IACONHOSE-24

ITEM	QTY	PART NO.
25	1	SEE VALVE PIN SELECTION CHART
26	1	VB0098
27	2	SHCSM5X20
28	1	SPACER33
29	2	SHCSM3X12
**30	1	VB0104
**31	2	SHCSM5X20
**32	1	TCD1.5X110-1

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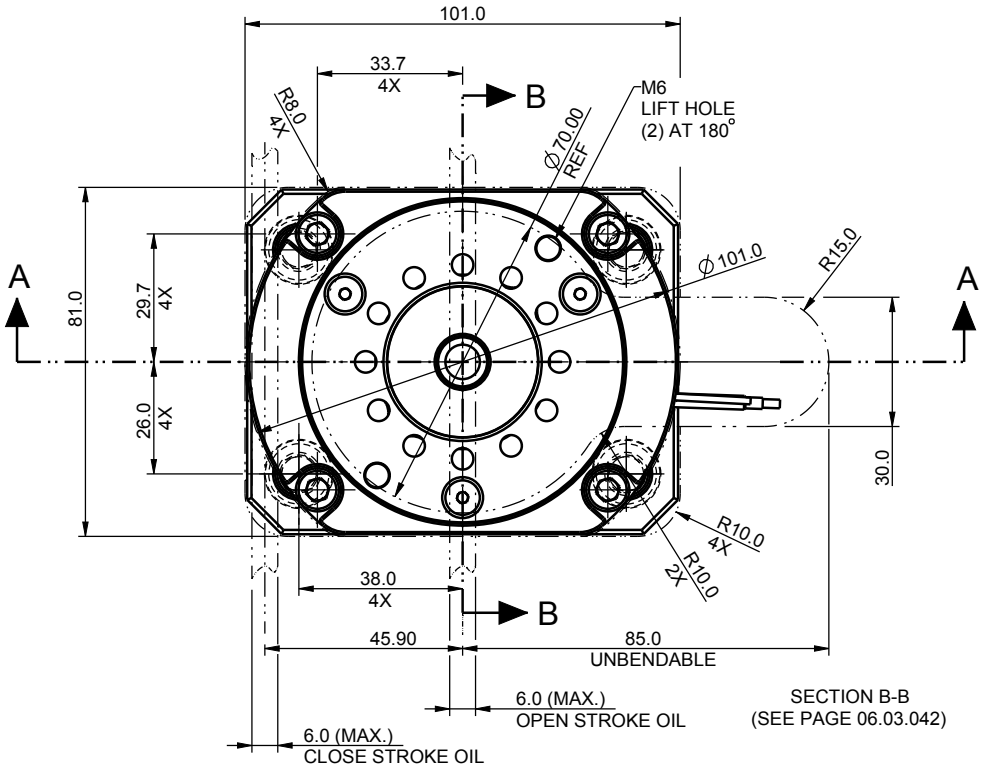
SECTION B-B
(SEE PAGE 06.03.031)



SECTION A-A

NOZZLES
06.01

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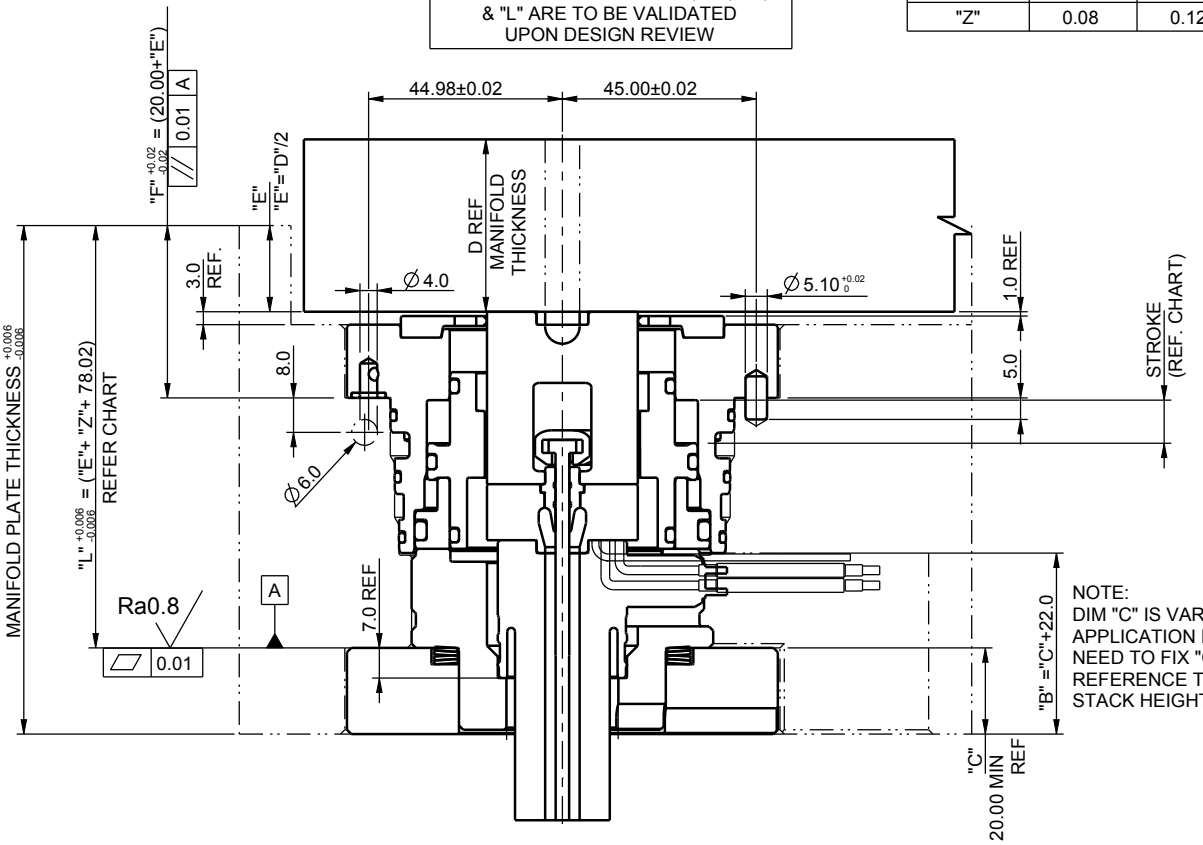
SECTION B-B
(SEE PAGE 06.03.042)

NOTE: MAX. OPERATING TEMPERATURE: 280° C

PACKAGES	STROKE
IA12MSCP	3 MM
IA12MSCP1	10 MM

GAP AT ROOM TEMP.	Δ T= Tp - Tm (PROCESS TEMP.-MOLD TEMP.)		
	150° C	200° C	250° C
"Z"	0.08	0.12	0.20

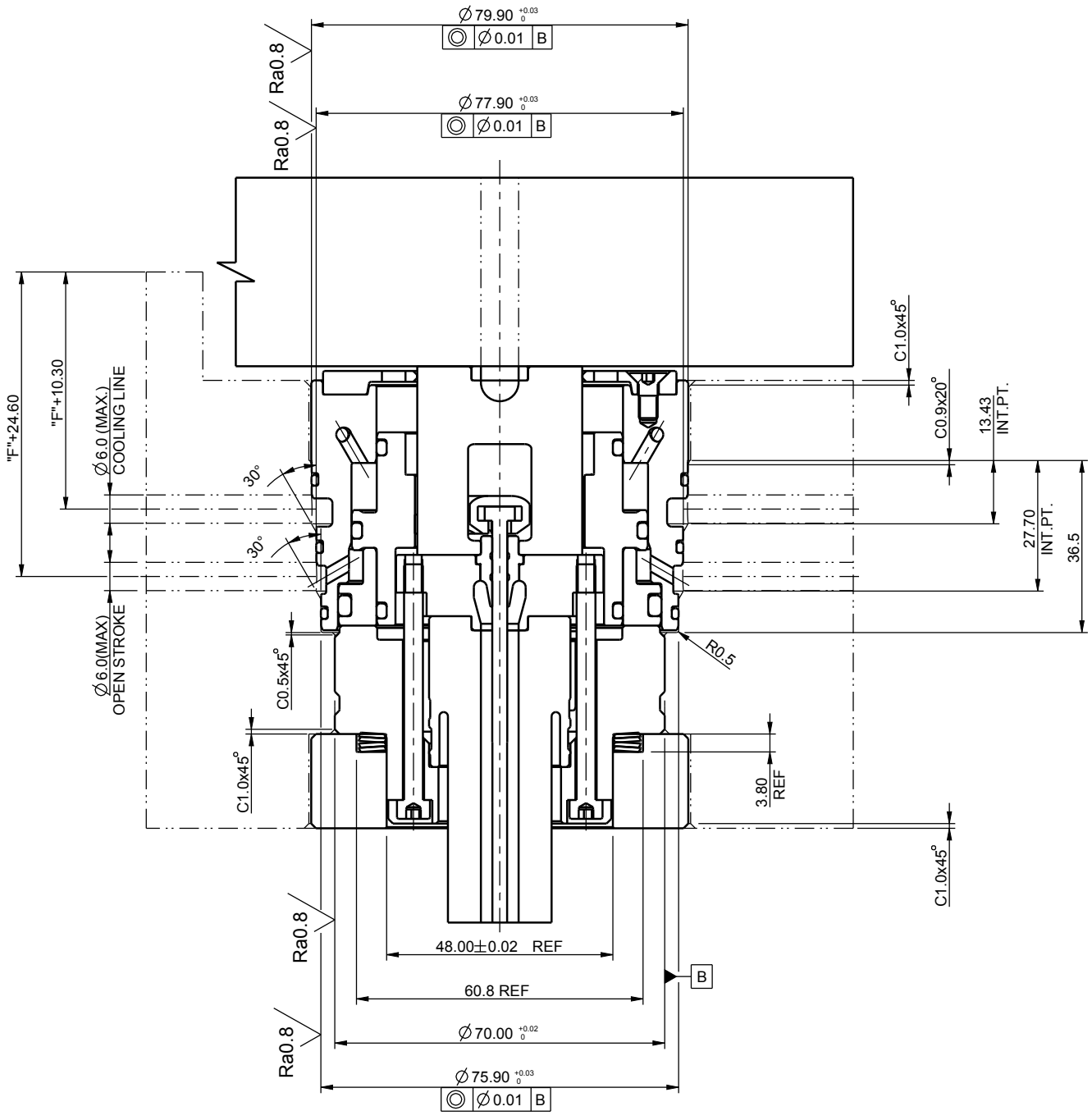
MANIFOLD THICKNESS AND RELATED DIMENSIONS "D", "E", "F", & "L" ARE TO BE VALIDATED UPON DESIGN REVIEW



NOTE:
DIM "C" IS VARIABLE.
APPLICATION ENGINEER
NEED TO FIX "C"WITH
REFERENCE TO REQUIRED
STACK HEIGHT

SECTION A-A

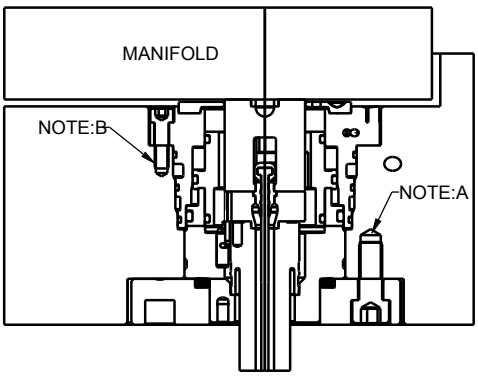
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SECTION B-B

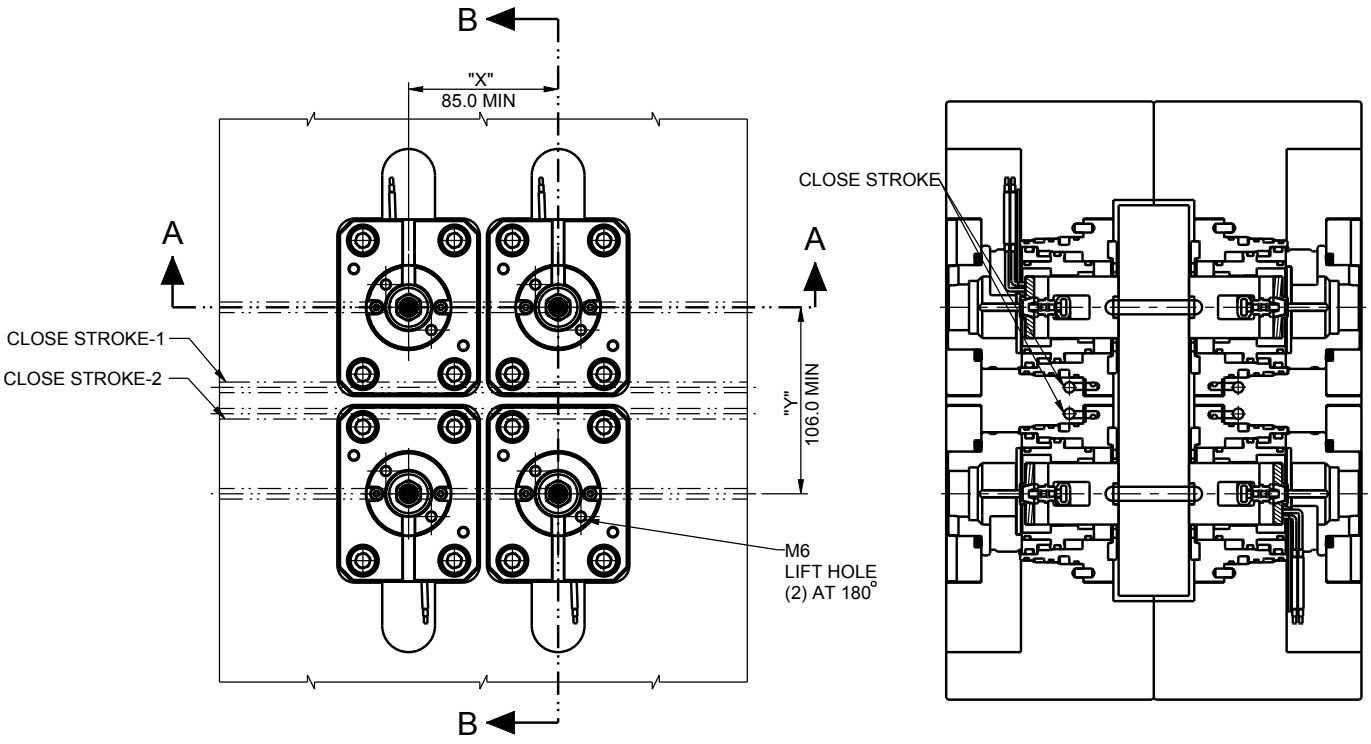
NOTE:A
SHCS M10X25MM LG (4) SHOWN
MAX DRILL DEPTH 19 MM.
MIN. SCREW ENGAGEMENT=15 MM.
ISO-GRADE 12.9
NOT SUPPLIED
BY MOLD-MASTERS

NOTE:B
M6-1.0 TAP
10.0 DEEP FOR
SHCS M6X20MM LG (4)
ISO-GRADE 12.9
NOT SUPPLIED
BY MOLD-MASTERS

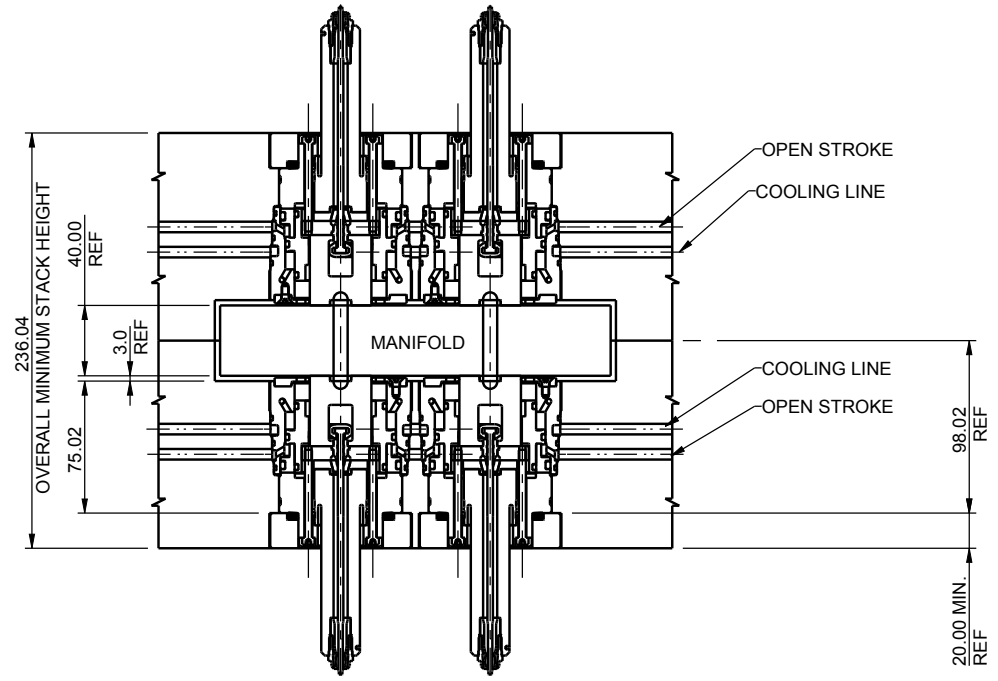


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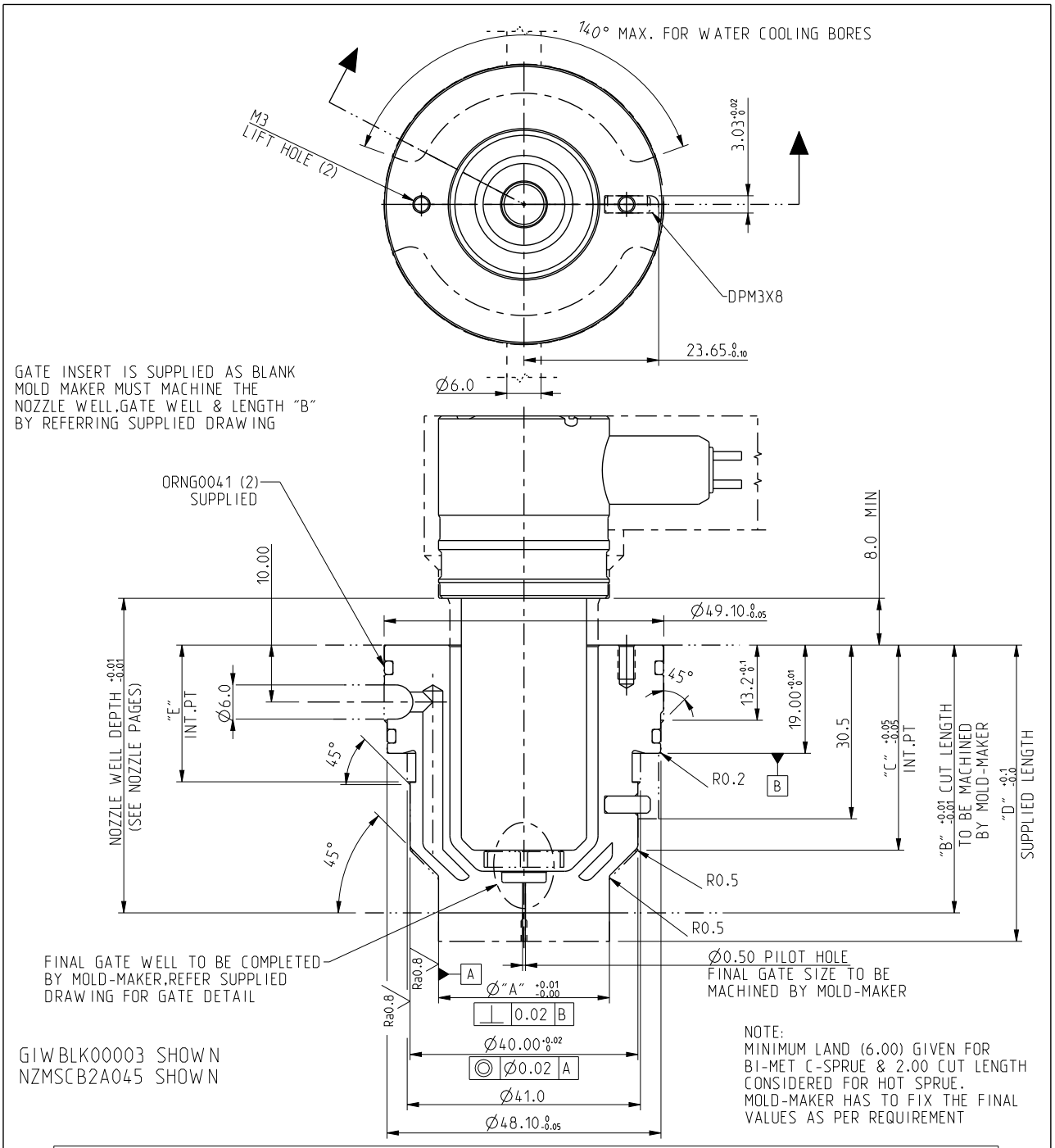


SECTION B-B



SECTION A-A

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WATER COOLED GATE INSERT OPTIONS

GATING STYLE	GIWBLK00003					GIWBLK00004				
	"A"	"B"	"C"	"D"	"E"	"A"	"B"	"C"	"D"	"E"
E-TYPE	24.00	47.00	36.00	52.0	24.0	24.00	62.00	51.00	67.0	39.0
F-TYPE	30.00	44.00				30.00	59.00			
BI-MET C-SPRUE	29.00	48.50 (SEE NOTE)				29.00	63.50 (SEE NOTE)			
HOT SPRUE	24.00	45.00 (SEE NOTE)				24.00	60.00 (SEE NOTE)			
BI-MET C-VALVE	28.00	45.00				28.00	60.00			
HOT VALVE	30.00	44.00				30.00	59.00			
ACCU-VALVE CX	25.00	46.55				25.00	61.55			
ACCU-VALVE MX	25.00	46.50				25.00	61.50			
ACCU-VALVE LX	30.00	44.00				30.00	59.00			

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GATING STYLE	PAGE	GATE Ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
E-TYPE TORPEDO	07.01.020	Ø1.00 - Ø2.50	TSM081 + TPM006-2	TSM081P4 FOR PROCESSING TEM. <280°C
			TSM081 + TPM006-1	TSM081P FOR PROCESSING TEMP. >280°C
F-TYPE TORPEDO	07.01.030	Ø1.00	*TSM026 + TPM007-2	TSM026P3 FOR PROCESSING TEMP. <280°C
			TSM026 + TPM086 (WEAR EWSISTANT)	TSM026P4 FOR PROCESSING TEMP. >280°C
		Ø1.20	*TSM060 + TPM007-2	TSM060P3 FOR PROCESSING TEMP. <280°C
			TSM060 + TPM086 (WEAR RESISTANT)	TSM060P4 FOR PROCESSING TEMP. >280°C
		Ø1.50	*TSM061 + TPM007-2	TSM061P3 FOR PROCESSING TEMP. <280°C
			TSM061 + TPM086 (WEAR RESISTANT)	TSM061P4 FOR PROCESSING TEMP. >280°C
		Ø1.80	*TSM062 + TPM007-2	TSM062P3 FOR PROCESSING TEMP. <280°C
			TSM062 + TPM086 (WEAR RESISTANT)	TSM062P4 FOR PROCESSING TEMP. >280°C
		Ø2.00	*TSM063 + TPM007-2	TSM063P3 FOR PROCESSING TEMP. <280°C
			TSM063 + TPM086 (WEAR RESISTANT)	TSM063P4 FOR PROCESSING TEMP. >280°C
BI-METALLIC C-SPRUE	07.01.040	Ø2.00	TSM082 + TSLM016	TSM082P15
		Ø2.50	TSM082 + TSLM017	TSM082P16
		Ø3.00	TSM082 + TSLM195	TSM082P17
HOT SPRUE	07.01.050	Ø1.50 - Ø4.00	TSM028 (Ø1.5 GATE SUPPLIED)	
EXTENDED HOT SPRUE	07.01.060	Ø1.50 - Ø4.00	TSM044 (Ø1.5 GATE SUPPLIED)	
SPIRAL HOT TIP	07.01.070	Ø0.60 - Ø2.50	TSM048	
BI-METALLIC C-VALVE	07.01.080	Ø2.00 - Ø3.00	TSM342 + TSLM162	TSM342P
EXT-BI-METALLIC C-VALVE	07.01.085	Ø2.00 - Ø3.00	TSM342 + TSLM164	TSM342P2
HOT VALVE	07.01.100	Ø2.00	TSM029	
		Ø2.50	TSM030	
		Ø3.00	TSM031	
		Ø4.00	TSM032	
ACCU-VALVE CX	07.01.105	Ø4.00 (MAX.)	TSM108-1A	
ACCU-VALVE MX	07.01.108	Ø3.40 (MAX.)	TSM248A1	
CYLINDRICAL HOT VALVE	07.01.120	Ø2.00	TSM302 (SUPPLIED WITH "H"=1.00)	
			TSM355 (SUPPLIED WITH "H"=3.00)	
		Ø2.50	TSM303 (SUPPLIED WITH "H"=1.00)	
			TSM356 (SUPPLIED WITH "H"=3.00)	
		Ø3.00	TSM304 (SUPPLIED WITH "H"=1.00)	
			TSM357 (SUPPLIED WITH "H"=3.00)	
		Ø4.00	TSM305 (SUPPLIED WITH "H"=1.00)	
			TSM358 (SUPPLIED WITH "H"=3.00)	
TIT-EDGE	07.01.130	REFER TO SHEET	REFER TO SHEET	
	07.01.140	CONFIGURATIONS		
MULTI TIP TORPEDO	07.01.160	Ø0.60 - Ø1.60	TS0554-1 + TP0047-3	TS0554P4
	07.01.170	CONFIGURATIONS		

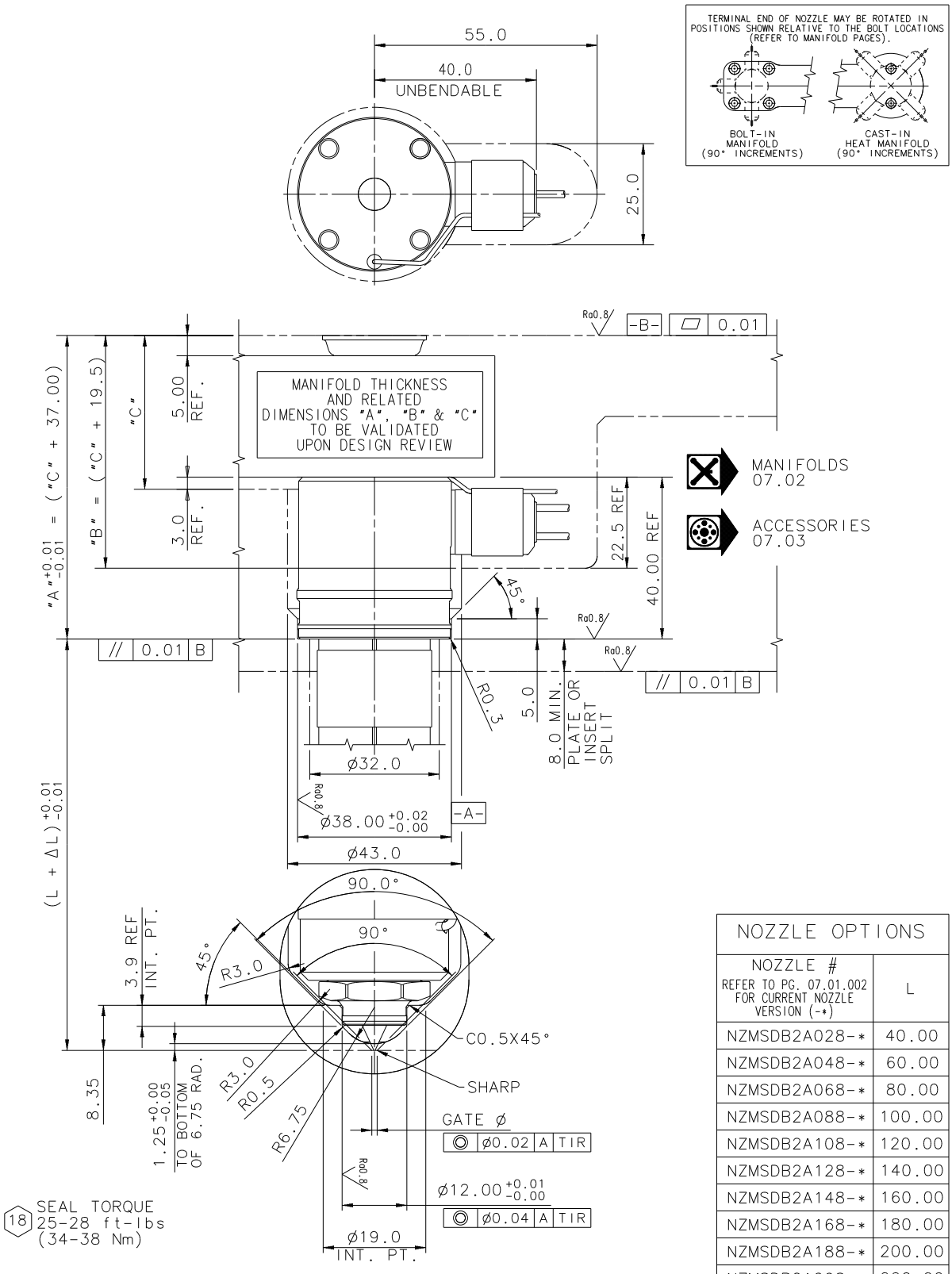
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NOZZLE #	**POWER @ 220V
NZMSDB*A028-E	450W
NZMSDB*A048-E	450W
NZMSDB*A068-E	450W
NZMSDB*A088-E	500W
NZMSDB*A108-E	550W
NZMSDB*A128-E	600W
NZMSDB*A148-E	650W
NZMSDB*A168-E	650W
NZMSDB*A188-E	650W
NZMSDB*A208-E	650W
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	

APPLICABLE GATING METHODS	NOZZLE #	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
E-TYPE TORPEDO	NZMSDB2A028-E	0.139	0.210	0.259	0.335
	NZMSDB2A048-E	0.172	0.246	0.317	0.395
	NZMSDB2A068-E	0.205	0.282	0.368	0.452
	NZMSDB2A088-E	0.232	0.335	0.417	0.510
	NZMSDB2A108-E	0.260	0.380	0.463	0.567
	NZMSDB2A128-E	0.290	0.403	0.512	0.630
	NZMSDB2A148-E	0.324	0.448	0.565	0.700
	NZMSDB2A168-E	0.363	0.502	0.630	0.778
	NZMSDB2A188-E	0.410	0.563	0.707	0.865
	NZMSDB2A208-E	0.465	0.631	0.800	0.965
SPIRAL HOT TIP	NZMSDB2A028-E	0.137	0.197	0.262	0.350
	NZMSDB2A048-E	0.192	0.271	0.355	0.457
	NZMSDB2A068-E	0.242	0.340	0.442	0.557
	NZMSDB2A088-E	0.288	0.404	0.522	0.650
	NZMSDB2A108-E	0.331	0.462	0.596	0.737
	NZMSDB2A128-E	0.370	0.515	0.663	0.817
	NZMSDB2A148-E	0.405	0.563	0.724	0.890
	NZMSDB2A168-E	0.436	0.605	0.778	0.957
	NZMSDB2A188-E	0.463	0.642	0.825	1.016
	NZMSDB2A208-E	0.487	0.674	0.866	1.069
F-TYPE TORPEDO BI-METALLIC C-SPRUE HOT SPRUE EXTENDED HOT SPRUE BI-METALLIC C-VALVE EXT. BI-MET. C-VALVE HOT VALVE CYL. HOT VALVE ACCU-VALVE CX ACCU-VALVE MX	NZMSDB*A028-E	0.106	0.201	0.255	0.305
	NZMSDB*A048-E	0.170	0.256	0.332	0.411
	NZMSDB*A068-E	0.220	0.306	0.400	0.501
	NZMSDB*A088-E	0.260	0.353	0.463	0.580
	NZMSDB*A108-E	0.291	0.397	0.520	0.648
	NZMSDB*A128-E	0.322	0.442	0.575	0.715
	NZMSDB*A148-E	0.351	0.488	0.631	0.777
	NZMSDB*A168-E	0.386	0.538	0.690	0.844
	NZMSDB*A188-E	0.428	0.593	0.756	0.917
	NZMSDB*A208-E	0.483	0.652	0.829	1.001

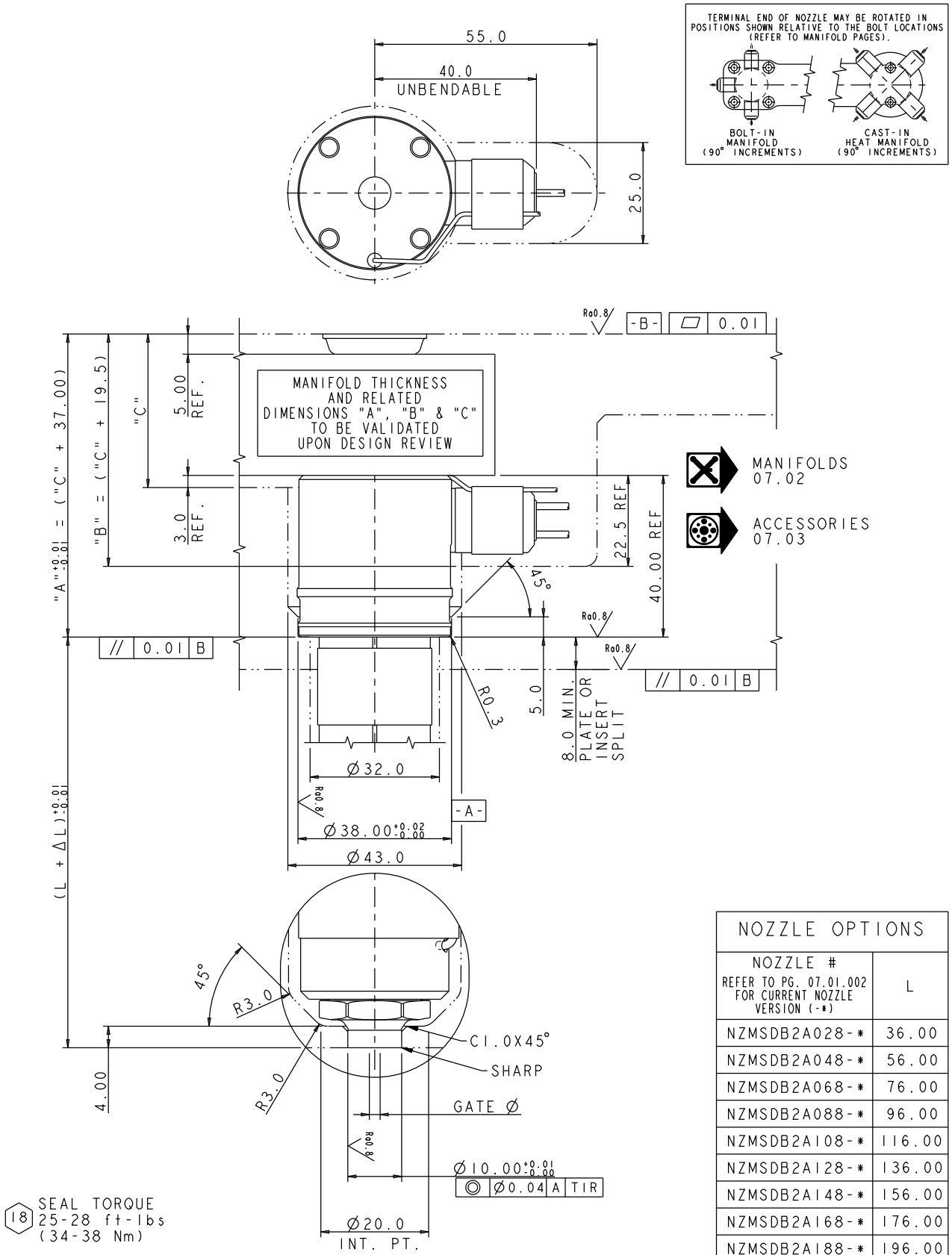
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	40.00
NZMSDB2A048-*	60.00
NZMSDB2A068-*	80.00
NZMSDB2A088-*	100.00
NZMSDB2A108-*	120.00
NZMSDB2A128-*	140.00
NZMSDB2A148-*	160.00
NZMSDB2A168-*	180.00
NZMSDB2A188-*	200.00
NZMSDB2A208-*	220.00

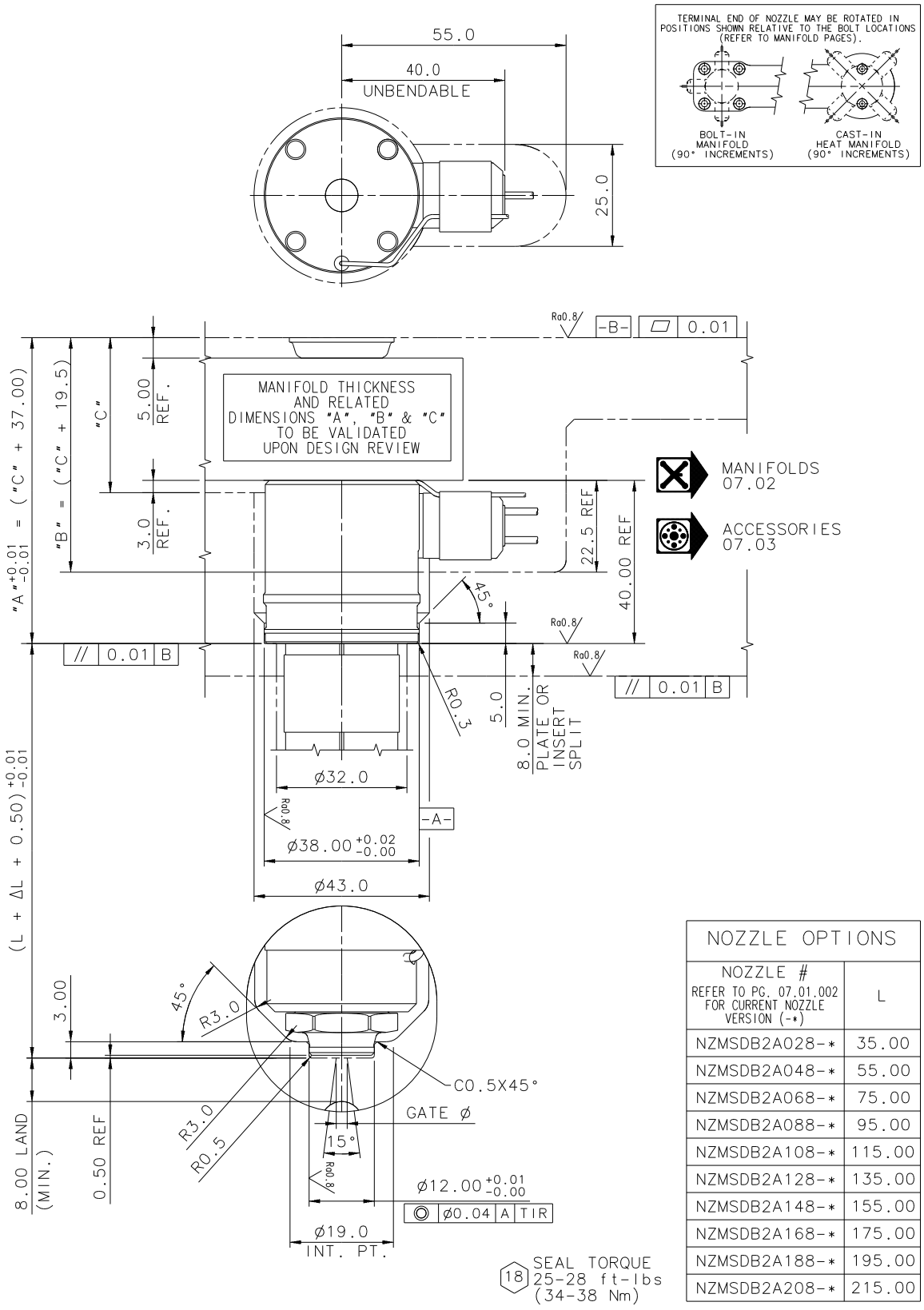
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	36.00
NZMSDB2A048-*	56.00
NZMSDB2A068-*	76.00
NZMSDB2A088-*	96.00
NZMSDB2A108-*	116.00
NZMSDB2A128-*	136.00
NZMSDB2A148-*	156.00
NZMSDB2A168-*	176.00
NZMSDB2A188-*	196.00
NZMSDB2A208-*	216.00

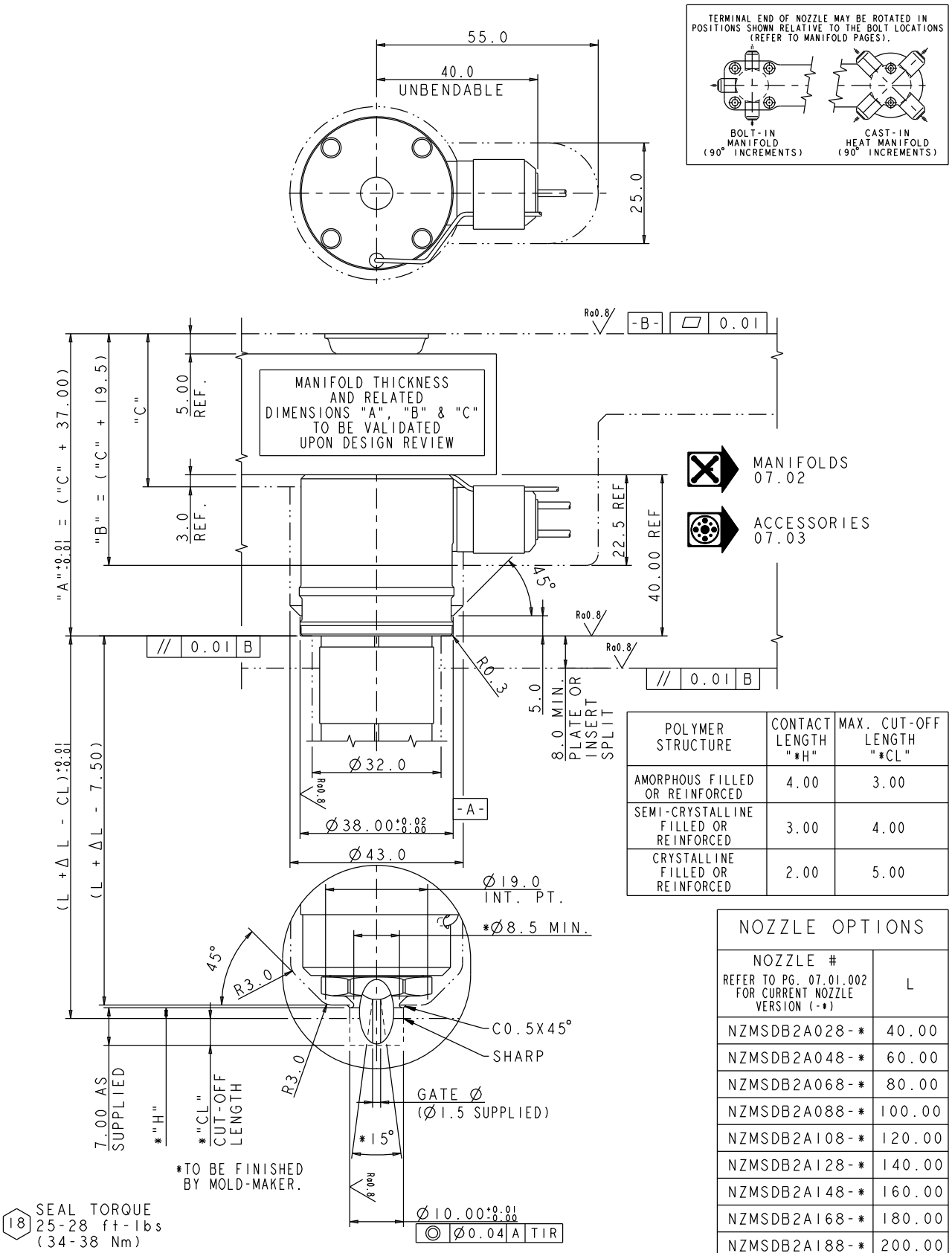
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	35.00
NZMSDB2A048-*	55.00
NZMSDB2A068-*	75.00
NZMSDB2A088-*	95.00
NZMSDB2A108-*	115.00
NZMSDB2A128-*	135.00
NZMSDB2A148-*	155.00
NZMSDB2A168-*	175.00
NZMSDB2A188-*	195.00
NZMSDB2A208-*	215.00

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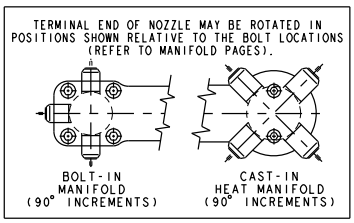


POLYMER STRUCTURE	CONTACT LENGTH "*H"	MAX. CUT-OFF LENGTH "*CL"
AMORPHOUS FILLED OR REINFORCED	4.00	3.00
SEMI-CRYSTALLINE FILLED OR REINFORCED	3.00	4.00
CRYSTALLINE FILLED OR REINFORCED	2.00	5.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	40.00
NZMSDB2A048-*	60.00
NZMSDB2A068-*	80.00
NZMSDB2A088-*	100.00
NZMSDB2A108-*	120.00
NZMSDB2A128-*	140.00
NZMSDB2A148-*	160.00
NZMSDB2A168-*	180.00
NZMSDB2A188-*	200.00
NZMSDB2A208-*	220.00

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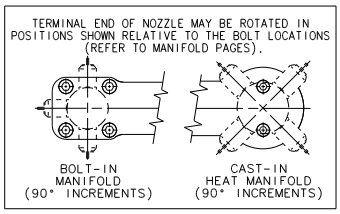
MANIFOLDS 07.02

ACCESSORIES 07.03

POLYMER STRUCTURE	CONTACT LENGTH "H"
AMORPHOUS FILLED OR REINFORCED	4.00
SEMI-CRYSTALLINE FILLED OR REINFORCED	3.00
CRYSTALLINE FILLED OR REINFORCED	2.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	73.00
NZMSDB2A048-*	93.00
NZMSDB2A068-*	113.00
NZMSDB2A088-*	133.00
NZMSDB2A108-*	153.00
NZMSDB2A128-*	173.00
NZMSDB2A148-*	193.00
NZMSDB2A168-*	213.00
NZMSDB2A188-*	233.00
NZMSDB2A208-*	253.00

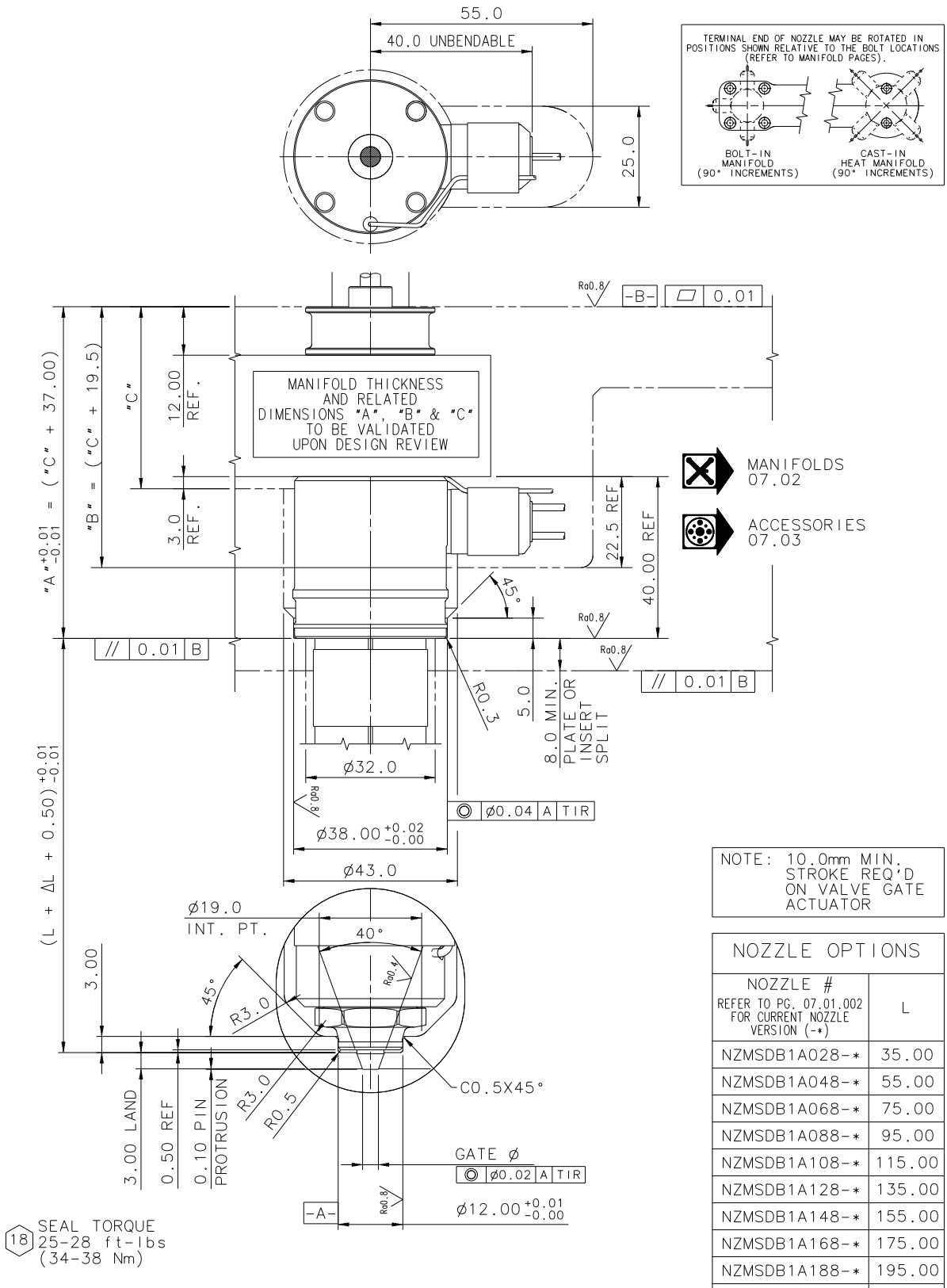
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NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	42.00
NZMSDB2A048-*	62.00
NZMSDB2A068-*	82.00
NZMSDB2A088-*	102.00
NZMSDB2A108-*	122.00
NZMSDB2A128-*	142.00
NZMSDB2A148-*	162.00
NZMSDB2A168-*	182.00
NZMSDB2A188-*	202.00
NZMSDB2A208-*	222.00

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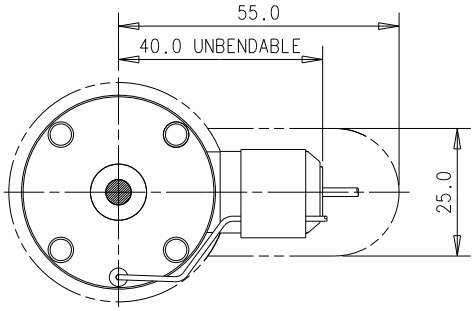


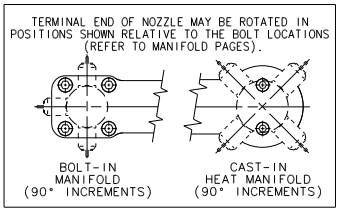
NOTE: 10.0mm MIN. STROKE REQ'D ON VALVE GATE ACTUATOR

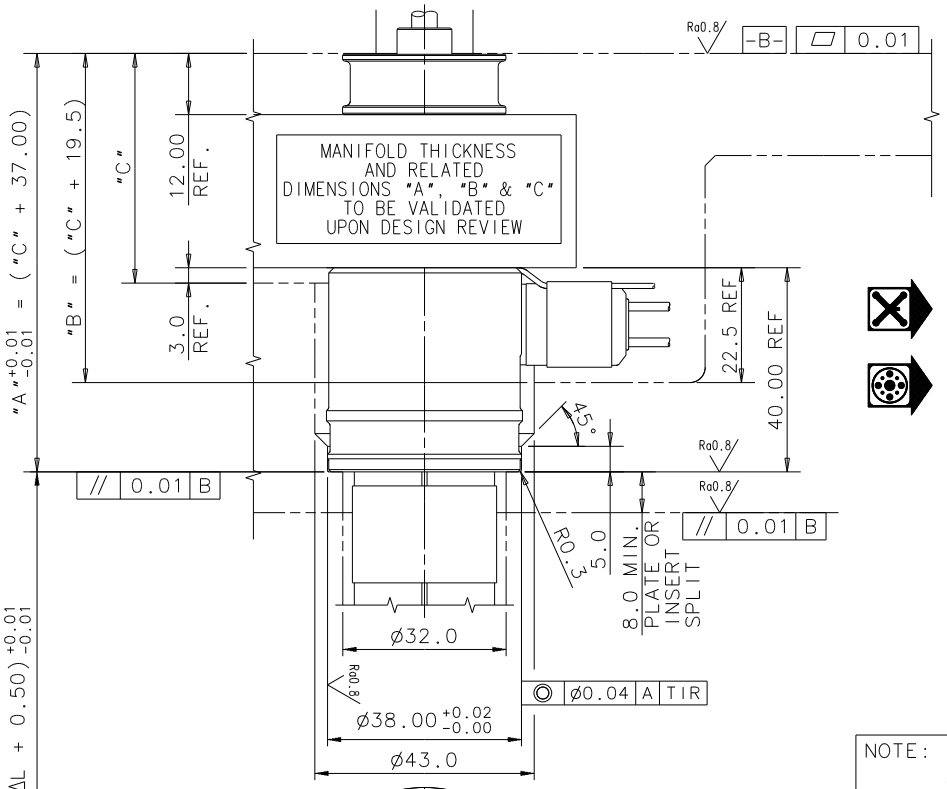
NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB1A028-*	35.00
NZMSDB1A048-*	55.00
NZMSDB1A068-*	75.00
NZMSDB1A088-*	95.00
NZMSDB1A108-*	115.00
NZMSDB1A128-*	135.00
NZMSDB1A148-*	155.00
NZMSDB1A168-*	175.00
NZMSDB1A188-*	195.00
NZMSDB1A208-*	215.00

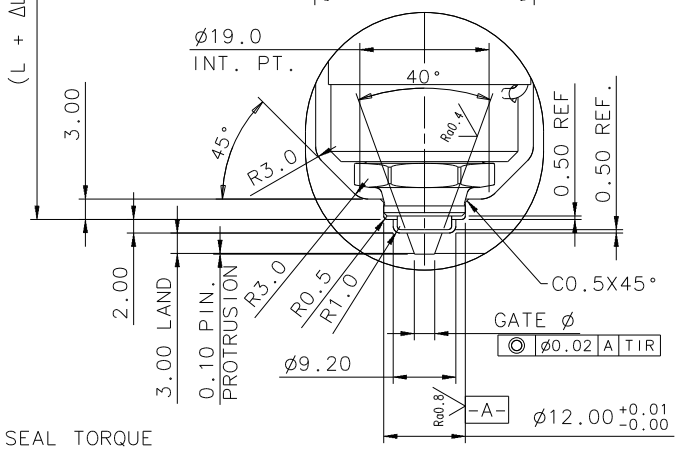
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SCALE 0.75:1
Updates are available online at www.moldmasters.com









18 SEAL TORQUE
25-28 ft-lbs
(34-38 Nm)

GATE DETAIL
SCALE 1:1

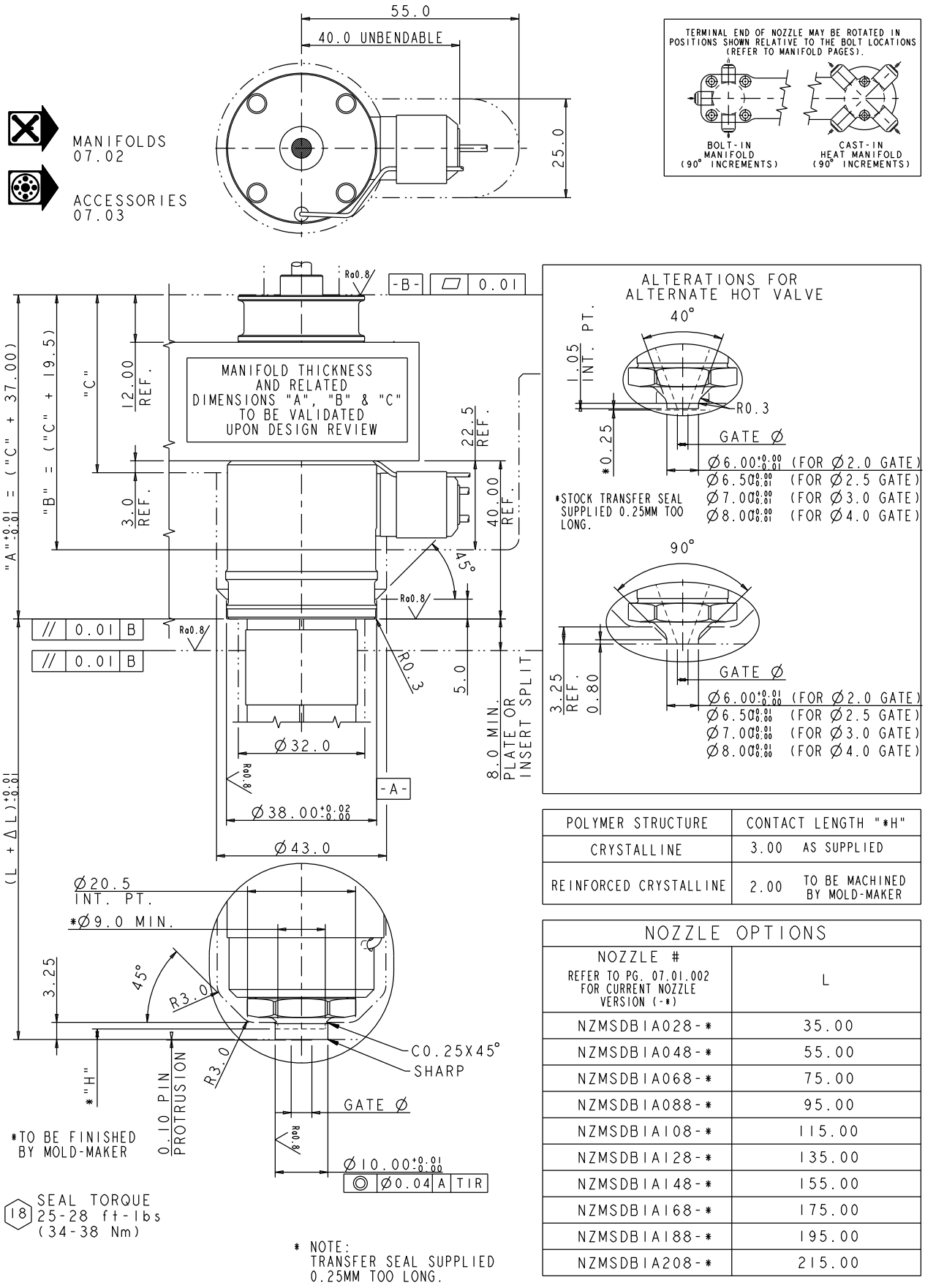
MANIFOLDS
07.02

ACCESSORIES
07.03

NOTE: 20.0mm STROKE REQUIRED ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB1A028-*	35.00
NZMSDB1A048-*	55.00
NZMSDB1A068-*	75.00
NZMSDB1A088-*	95.00
NZMSDB1A108-*	115.00
NZMSDB1A128-*	135.00
NZMSDB1A148-*	155.00
NZMSDB1A168-*	175.00
NZMSDB1A188-*	195.00
NZMSDB1A208-*	215.00

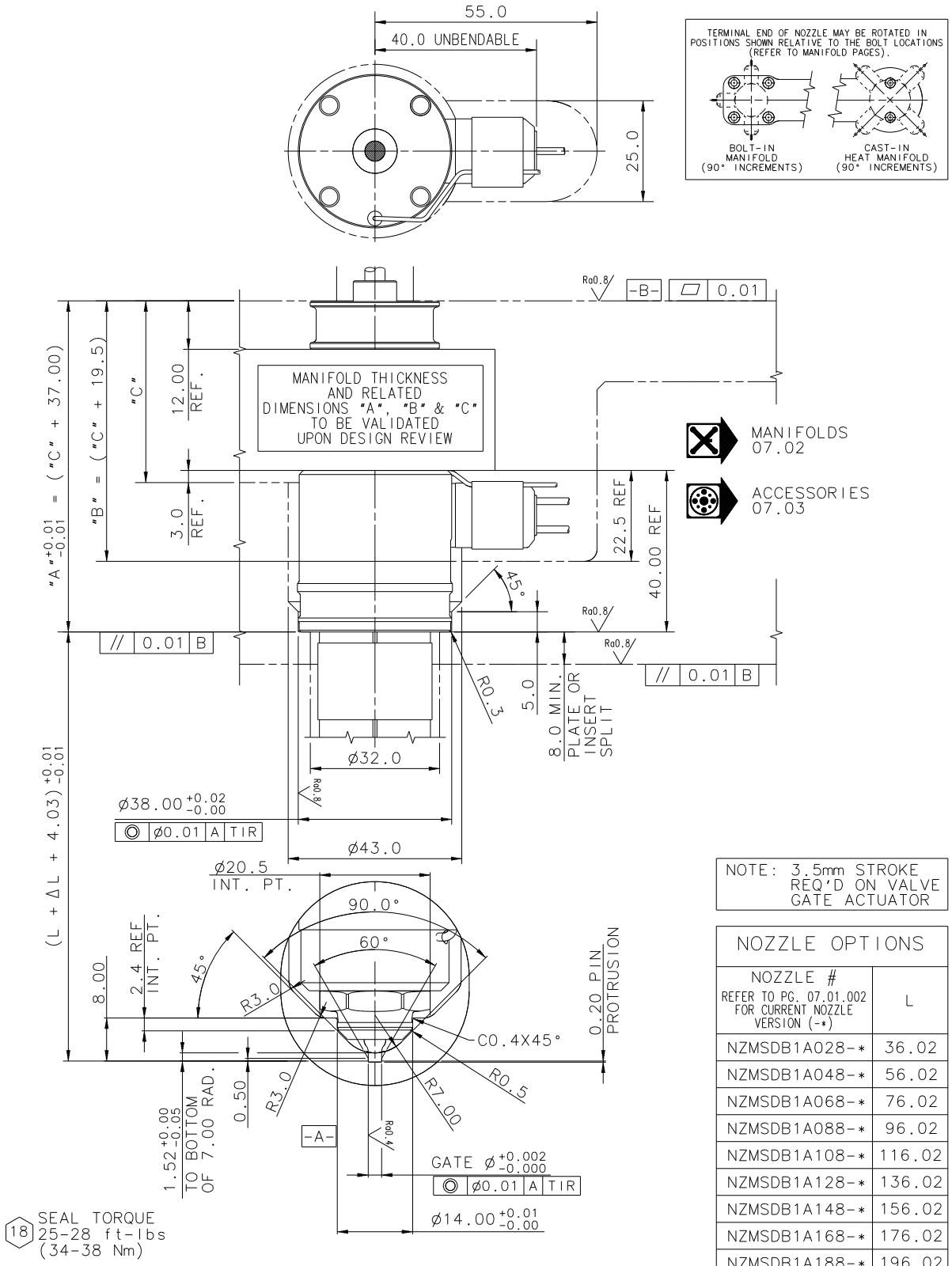
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POLYMER STRUCTURE	CONTACT LENGTH "*H"	
CRYSTALLINE	3.00	AS SUPPLIED
REINFORCED CRYSTALLINE	2.00	TO BE MACHINED BY MOLD-MAKER

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDBIA028-*	35.00
NZMSDBIA048-*	55.00
NZMSDBIA068-*	75.00
NZMSDBIA088-*	95.00
NZMSDBIAI08-*	115.00
NZMSDBIAI28-*	135.00
NZMSDBIAI48-*	155.00
NZMSDBIAI68-*	175.00
NZMSDBIAI88-*	195.00
NZMSDBIA208-*	215.00

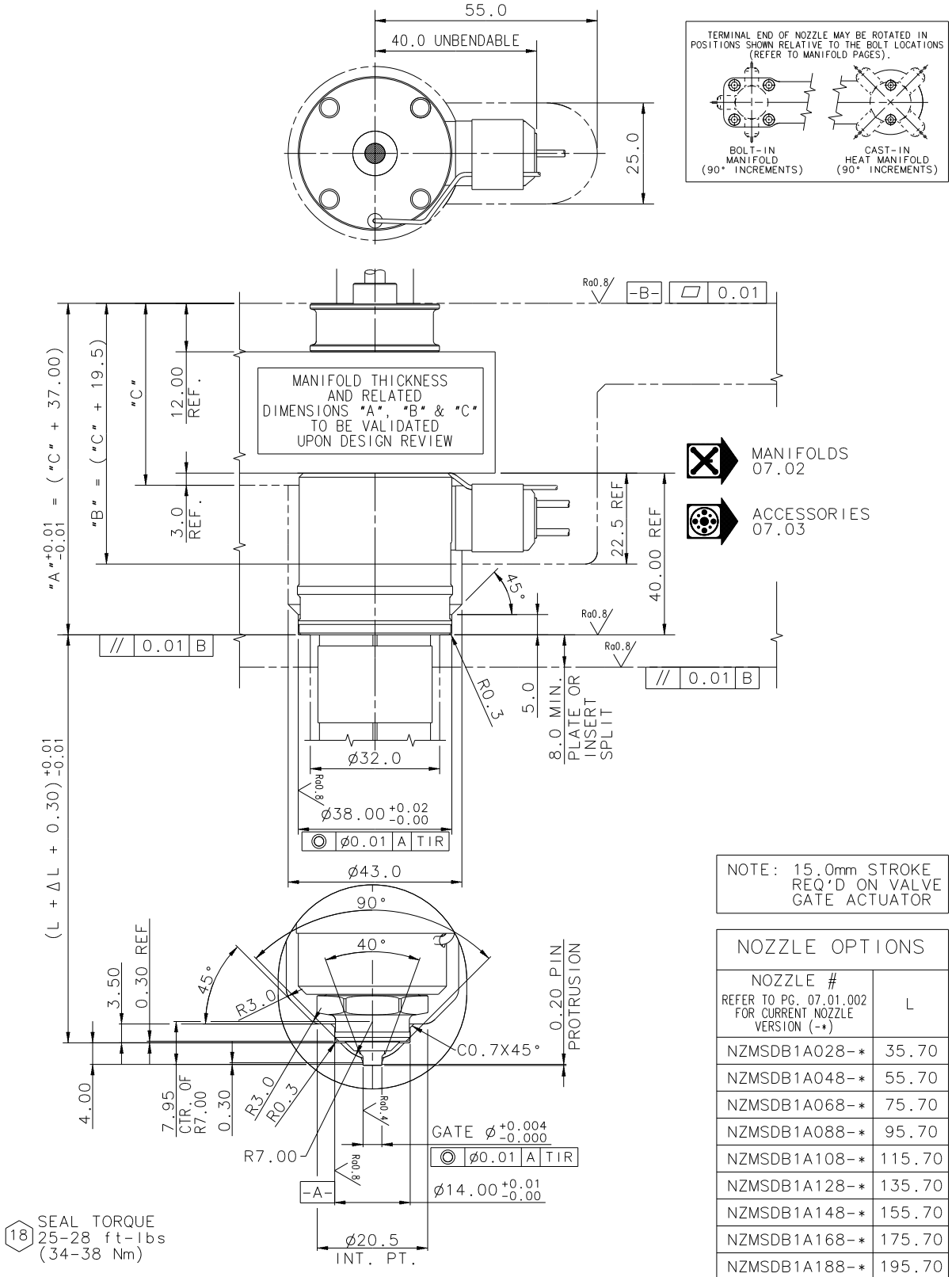
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NOTE: 3.5mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB1A028-*	36.02
NZMSDB1A048-*	56.02
NZMSDB1A068-*	76.02
NZMSDB1A088-*	96.02
NZMSDB1A108-*	116.02
NZMSDB1A128-*	136.02
NZMSDB1A148-*	156.02
NZMSDB1A168-*	176.02
NZMSDB1A188-*	196.02
NZMSDB1A208-*	216.02

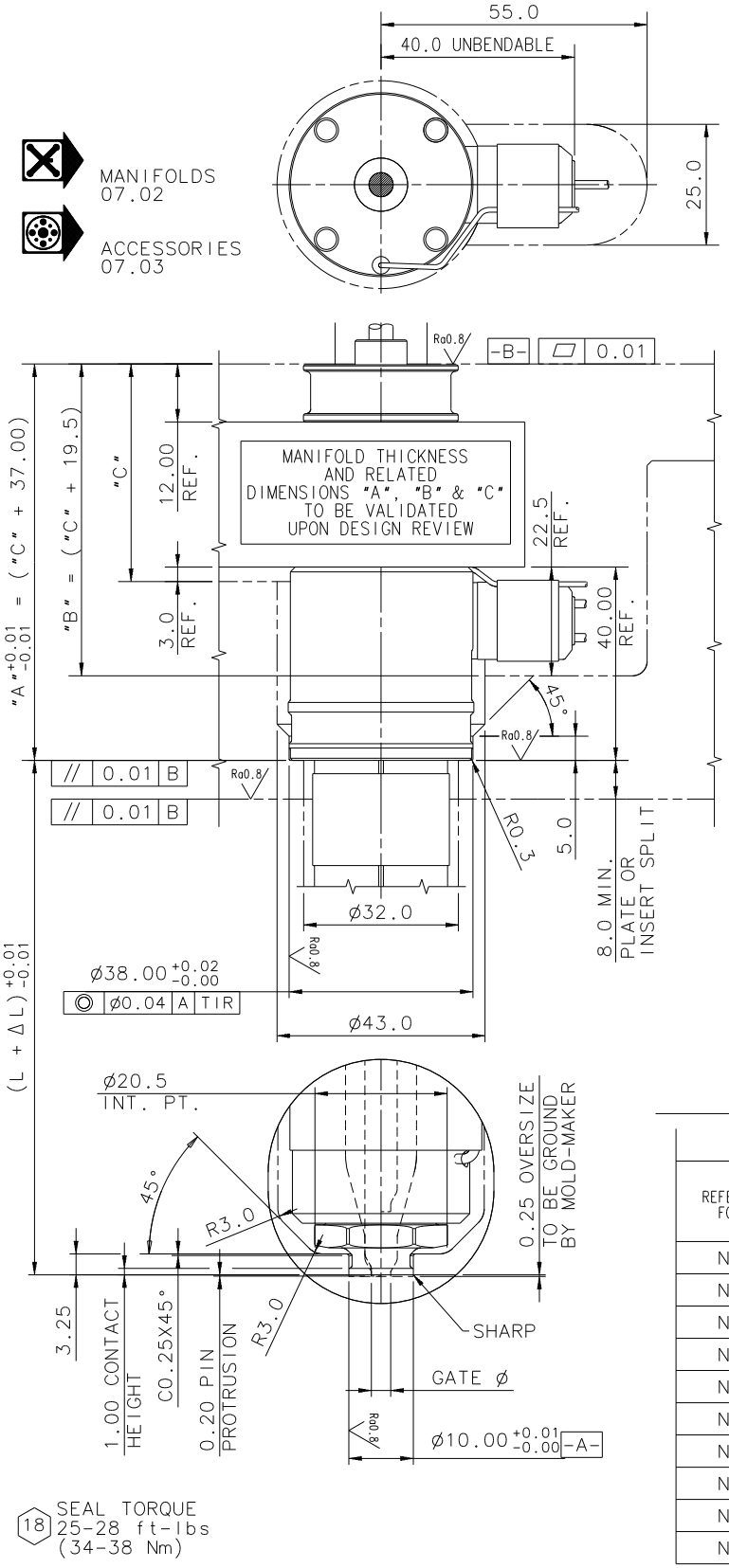
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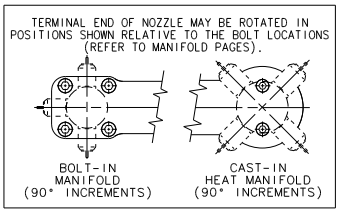


NOTE: 15.0mm STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB1A028-*	35.70
NZMSDB1A048-*	55.70
NZMSDB1A068-*	75.70
NZMSDB1A088-*	95.70
NZMSDB1A108-*	115.70
NZMSDB1A128-*	135.70
NZMSDB1A148-*	155.70
NZMSDB1A168-*	175.70
NZMSDB1A188-*	195.70
NZMSDB1A208-*	215.70

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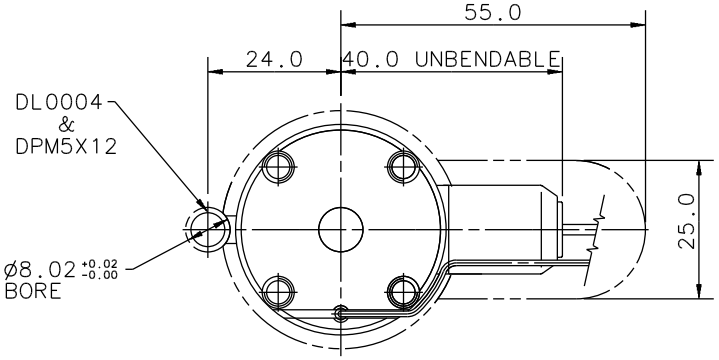


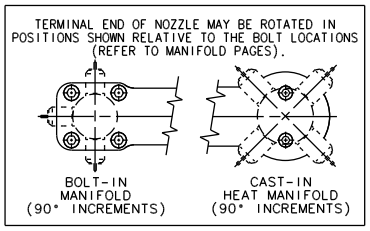


NOTE: 10.0mm MIN. STROKE REQ'D ON VALVE GATE ACTUATOR

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB1A028-*	35.00
NZMSDB1A048-*	55.00
NZMSDB1A068-*	75.00
NZMSDB1A088-*	95.00
NZMSDB1A108-*	115.00
NZMSDB1A128-*	135.00
NZMSDB1A148-*	155.00
NZMSDB1A168-*	175.00
NZMSDB1A188-*	195.00
NZMSDB1A208-*	215.00

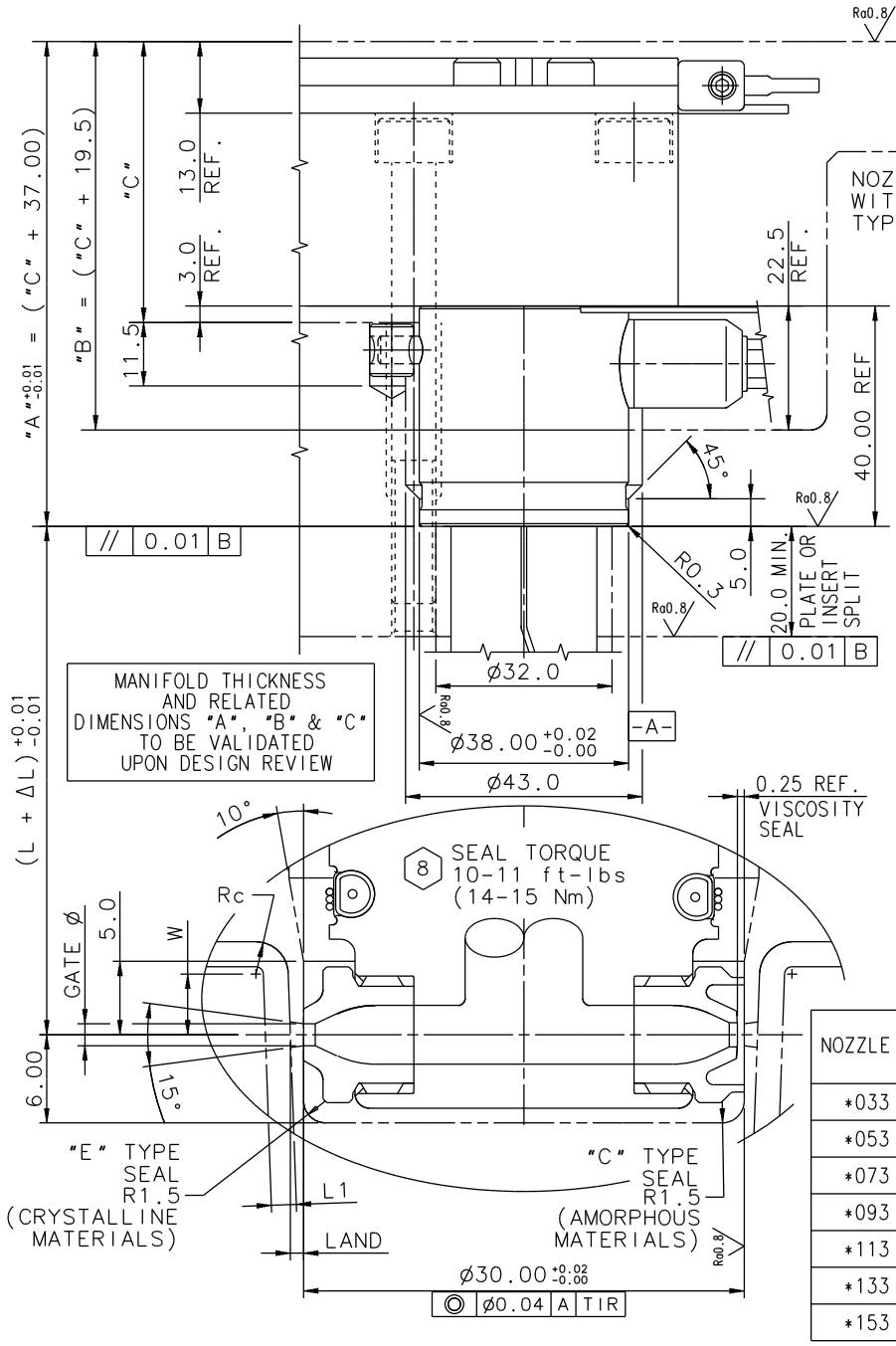
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MANIFOLDS 07.02

ACCESSORIES 07.03



**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

LAND < L1
L1= PART THICKNESS AT GATE.
$W_{MIN.}$ = 2.5 X ØG (Rc < 0.8)
$W_{MIN.}$ = 2.0 X ØG (Rc > 0.8)

TRANSFER SEAL #		L1	Ø GATE	LAND
C-TYPE	E-TYPE			
TS0294	TS0307	1.0-1.6	1.00	0.7
TS0167	TS0291	1.7-2.3	1.50	0.9
TS0168	TS0292	2.4-3.0	2.00	1.3
TS0169	TS0293	≥ 3.1	2.50	1.5

NOZZLE OPTIONS		
NOZZLE #	L	**POWER @ 220V
NZDD2TE*033	33.00	600W
NZDD2TE*053	53.00	700W
NZDD2TE*073	73.00	800W
NZDD2TE*093	93.00	900W
NZDD2TE*113	113.00	1000W
NZDD2TE*133	133.00	1100W
NZDD2TE*153	153.00	1200W

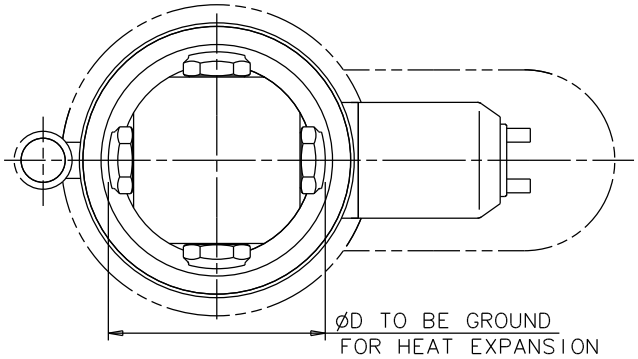
NOZZLE #	L	@ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
*033	33.00	0.069	0.092	0.115	0.138
*053	53.00	0.105	0.140	0.176	0.211
*073	73.00	0.141	0.188	0.236	0.283
*093	93.00	0.177	0.237	0.296	0.355
*113	113.00	0.213	0.285	0.356	0.428
*133	133.00	0.249	0.333	0.416	0.500
*153	153.00	0.286	0.381	0.476	0.572

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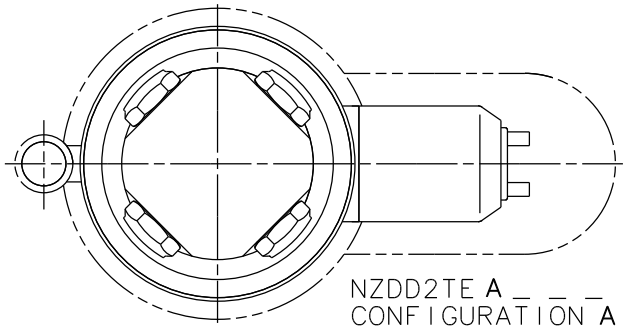
NOTE:
TRANSFER SEALS ARE SUPPLIED OVERSIZE. THE MOLD-MAKER MUST GRIND THE TRANSFER SEALS WHILE ASSEMBLED TO THE NOZZLE TO ENSURE PROPER SEALING AGAINST THE WALL. SEE CHART FOR THE GRINDING DIAMETER AT THE CORRESPONDING TEMPERATURE DIFFERENCE.

ø'D'$^{+0.00}_{-0.01}$ AT ΔT(PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
29.996	29.978	29.960	29.942

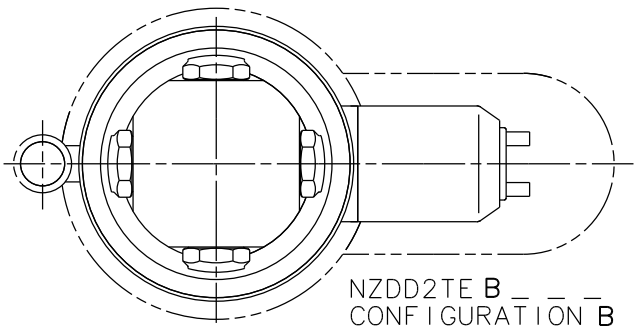
BOTTOM VIEW OF NOZZLES SHOWING THE DIFFERENT NOZZLE CONFIGURATIONS.



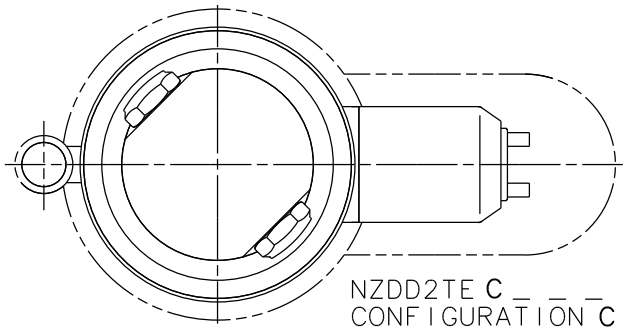
BOTTOM VIEW
CONFIGURATION B SHOWN



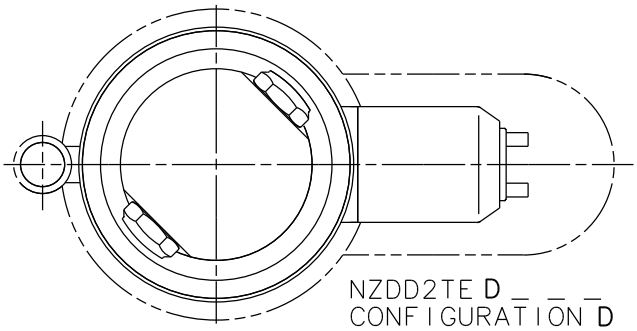
NZDD2TE A _ _ _
CONFIGURATION A



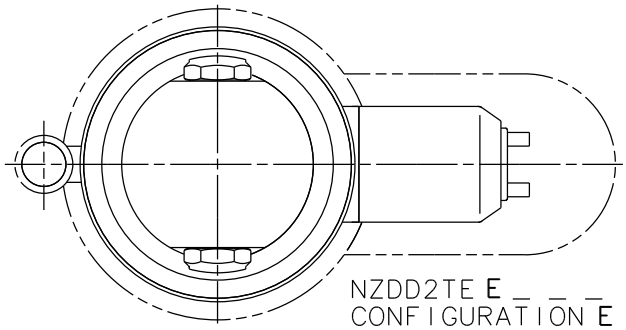
NZDD2TE B _ _ _
CONFIGURATION B



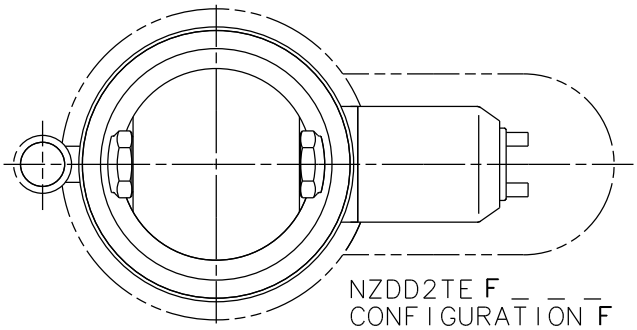
NZDD2TE C _ _ _
CONFIGURATION C



NZDD2TE D _ _ _
CONFIGURATION D



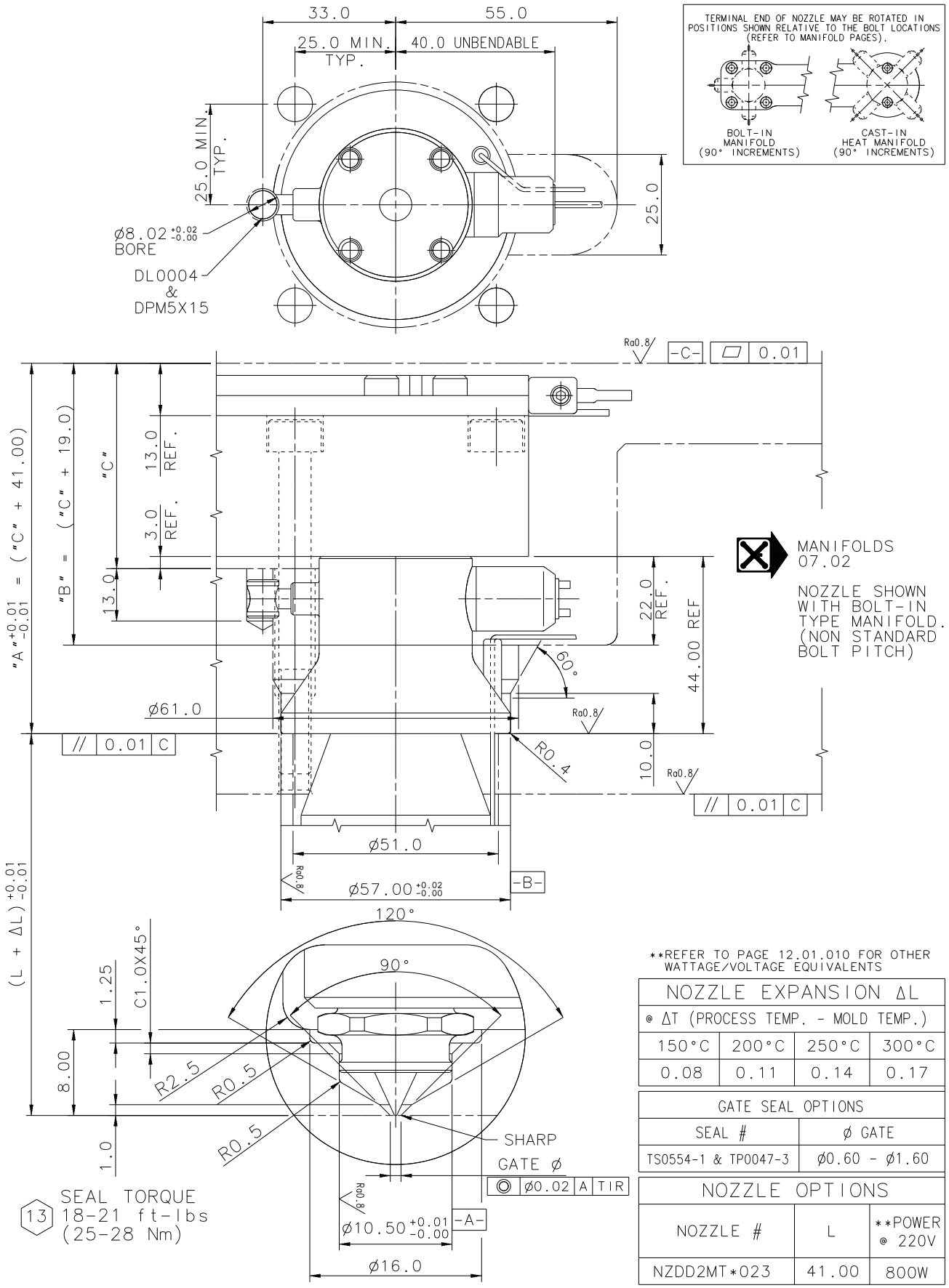
NZDD2TE E _ _ _
CONFIGURATION E



NZDD2TE F _ _ _
CONFIGURATION F

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**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

NOZZLE EXPANSION ΔL			
@ ΔT (PROCESS TEMP. - MOLD TEMP.)			
150°C	200°C	250°C	300°C
0.08	0.11	0.14	0.17

GATE SEAL OPTIONS	
SEAL #	Ø GATE
TS0554-1 & TP0047-3	Ø0.60 - Ø1.60

NOZZLE OPTIONS		
NOZZLE #	L	**POWER @ 220V
NZDD2MT*023	41.00	800W

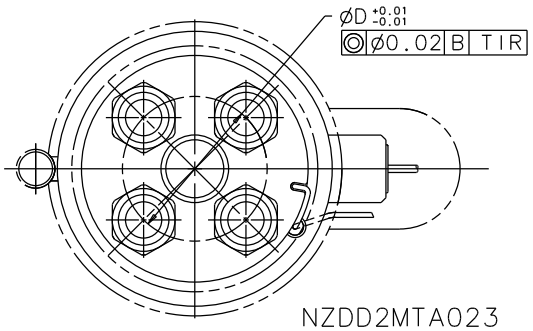
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PITCH DIAMETER D @ΔT(PROCESS TEMP.-MOLD TEMP.)			
150°C	200°C	250°C	300°C
30.05	30.06	30.08	30.10
D = 30.00 @ 20°C			

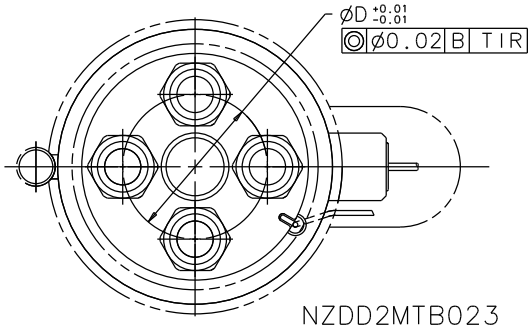
NOZZLE MUST BE HEATED TO PROCESSING TEMP. DURING ASSEMBLY AND REMOVAL OF THE NOZZLE FROM THE CAVITY PLATE

NOTE: DATUM "B" SEE PAGE 07.01.150

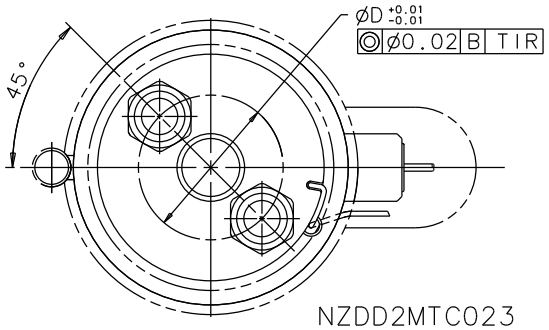
BOTTOM VIEW OF NOZZLES SHOWING THE DIFFERENT NOZZLE CONFIGURATIONS



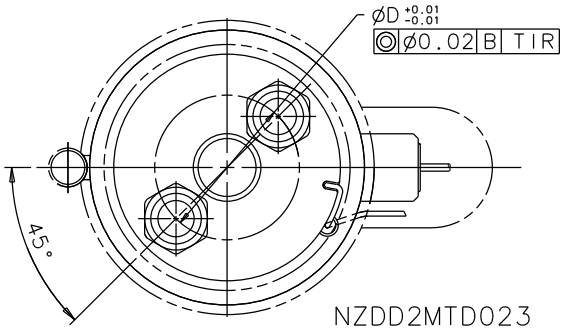
NZDD2MTA023
CONFIGURATION A



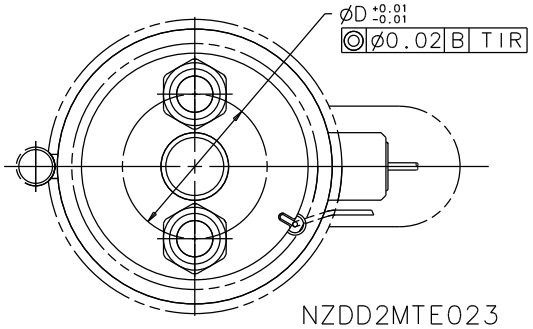
NZDD2MTB023
CONFIGURATION B



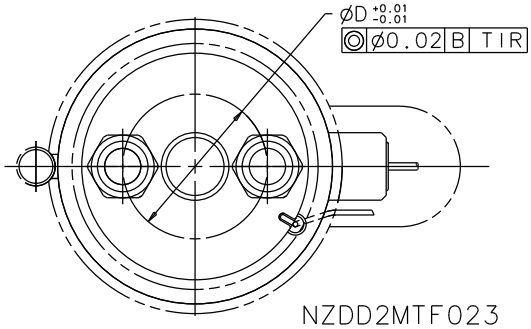
NZDD2MTC023
CONFIGURATION C



NZDD2MTD023
CONFIGURATION D



NZDD2MTE023
CONFIGURATION E



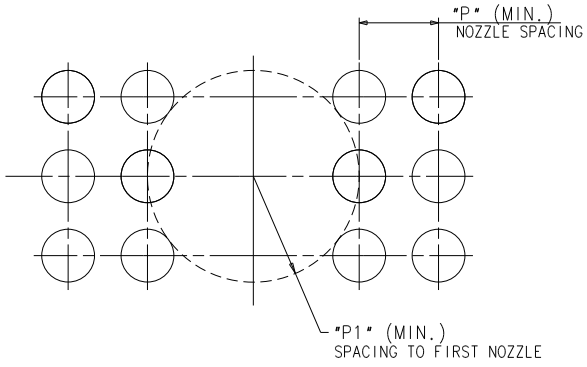
NZDD2MTF023
CONFIGURATION F

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MANIFOLD SHAPE	MANIFOLD PAGE	GATING TYPE	PITCH RANGE	MANIFOLD LOCATOR OPTIONS
"1I" SUB MANIFOLD	07.02.010A/B	SPRUE	X = 72.0 TO 150.0	ML0015, ML0030
	07.02.011A/B	VALVE	X = 72.0 TO 150.0	
"2I" SUB MANIFOLD	07.02.020A/B	SPRUE	X = 56.0 TO 71.9	ML0015, ML0030
	07.02.021A/B	VALVE	X = 56.0 TO 71.9	
	07.02.022A/B	SPRUE	X = 72.0 TO 150.0	
	07.02.023A/B	VALVE	X = 72.0 TO 150.0	
"T" SUB MANIFOLD	07.02.030A	SPRUE	X = 75.0 TO 150.0 / Y = 76.0 TO 150.0	ML0015, ML0030
	07.02.030B	SPRUE	X = 75.0 TO 150.0 / Y = 82.0 TO 150.0	
	07.02.031A	VALVE	X = 75.0 TO 150.0 / Y = 76.0 TO 150.0	
	07.02.031B	VALVE	X = 75.0 TO 150.0 / Y = 82.0 TO 150.0	
"4I" SUB MANIFOLD	07.02.040A/B	SPRUE	X1 = 50.0 TO 83.0 / X2 = 150.0 TO 249.0	ML0015, ML0030
	07.02.041A/B	VALVE	X1 = 68.0 TO 83.0 / X2 = 204.0 TO 249.0	
"X" SUB MANIFOLD	07.02.050A/B	SPRUE	X = 68.0 TO 150.0 / Y = 68.0 TO 150.0	ML0015, ML0030
	07.02.051A/B	VALVE	X = 68.0 TO 150.0 / Y = 68.0 TO 150.0	
"H" SUB MANIFOLD	07.02.060A	SPRUE	X = 82.0 TO 150.0 / Y = 65.0 TO 150.0	ML0015, ML0030
	07.02.060B	SPRUE	X = 87.0 TO 150.0 / Y = 65.0 TO 150.0	
	07.02.061A	VALVE	X = 82.0 TO 150.0 / Y = 65.0 TO 150.0	
	07.02.061B	VALVE	X = 87.0 TO 150.0 / Y = 65.0 TO 150.0	
"XX" SUB MANIFOLD	07.02.070	SPRUE	X = 40.0 TO 50.0 / Y = 40.0 TO 50.0	ML0015, ML0030
	07.02.071	VALVE	X = 40.0 TO 50.0 / Y = 40.0 TO 50.0	
"HH" SUB MANIFOLD	07.02.072A/B	SPRUE	X = 60.0 TO 111.0 / Y = 90.0 TO 110.0	ML0015, ML0030
	07.02.073A/B	VALVE	X = 60.0 TO 111.0 / Y = 90.0 TO 110.0	
TYPICAL BOLT-IN MANIFOLD CONFIGURATIONS	07.02.080			
"2I" BOLT-IN SUB MANIFOLD	07.02.110/120	SPRUE	X = 75.0 TO 250.0	ML0015, ML0030
	07.02.110/120	VALVE	X = 75.0 TO 250.0	
"X" BOLT-IN SUB MANIFOLD	07.02.130	SPRUE	X = 50.0 TO 175.0	ML0015, ML0030
	07.02.130	VALVE	X = 50.0 TO 175.0	

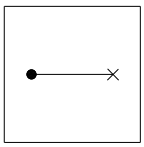
MIN. PITCH FOR INLET EXTENSION / ACTUATING UNIT

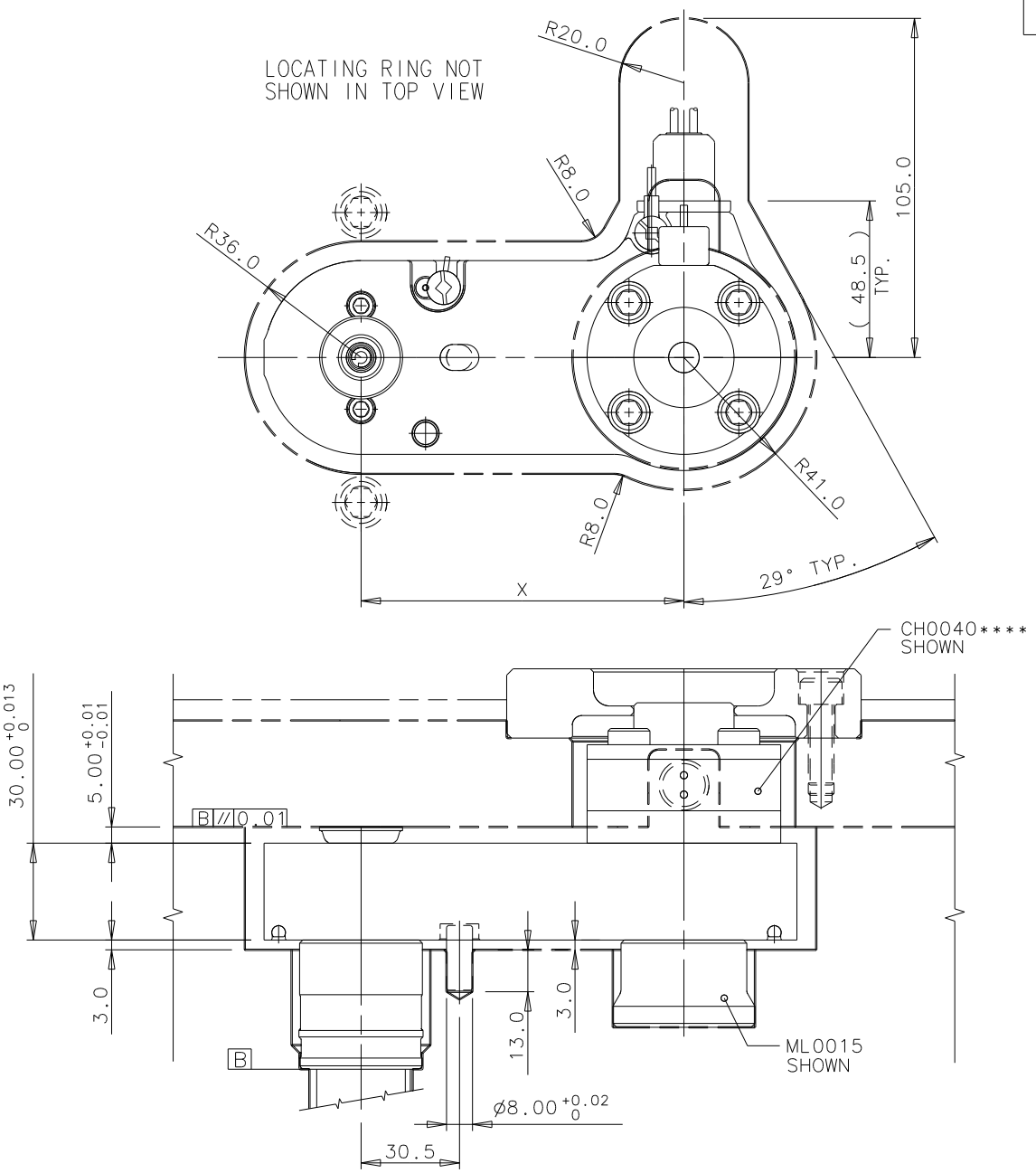


HYD./PNEU. UNIT	INLET EXT.	"P1"	"P"
HY650Xx OR HY710Xx	IE06*** OR IE08***	50.0	54.0
HY6500x OR HY7100x	IE06*** OR IE08***	86.5	60.0

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES 07.01

ACCESSORIES 09.01

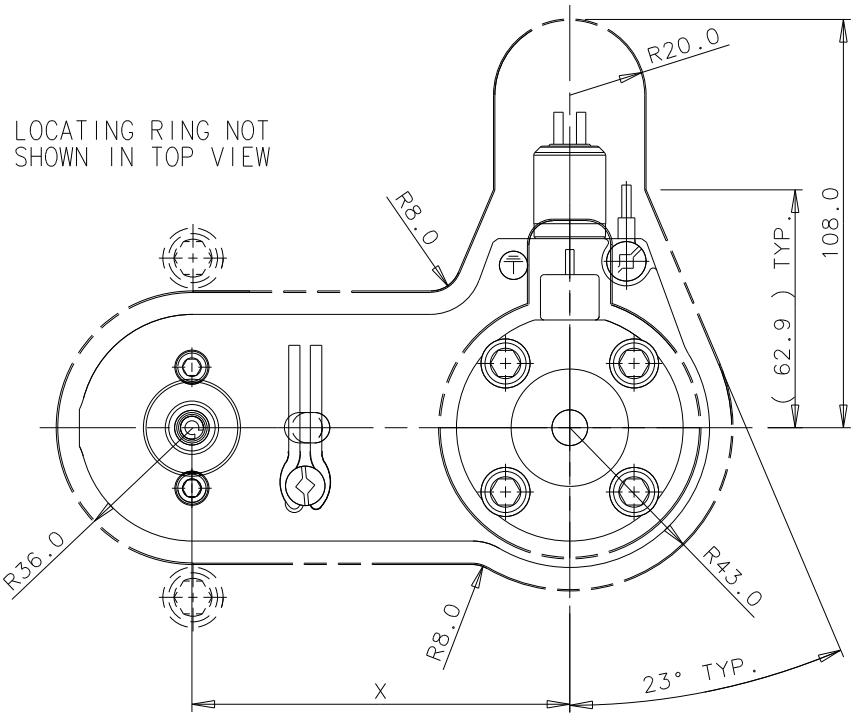
MANIFOLD RANGES 07.02.001

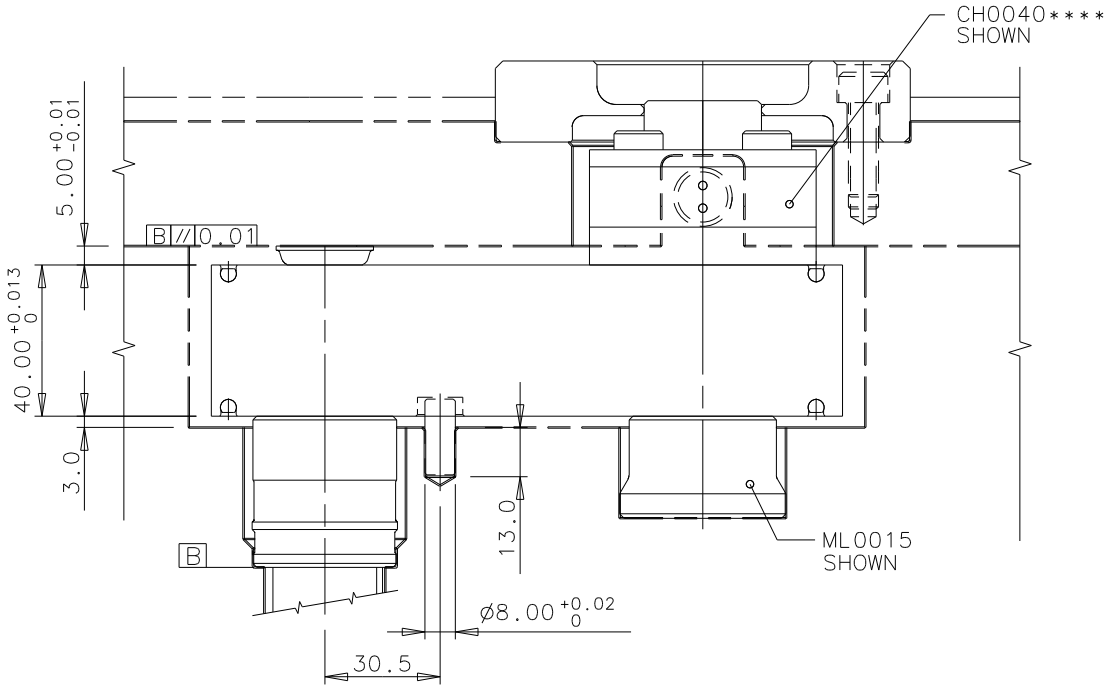
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

NOZZLES 07.01

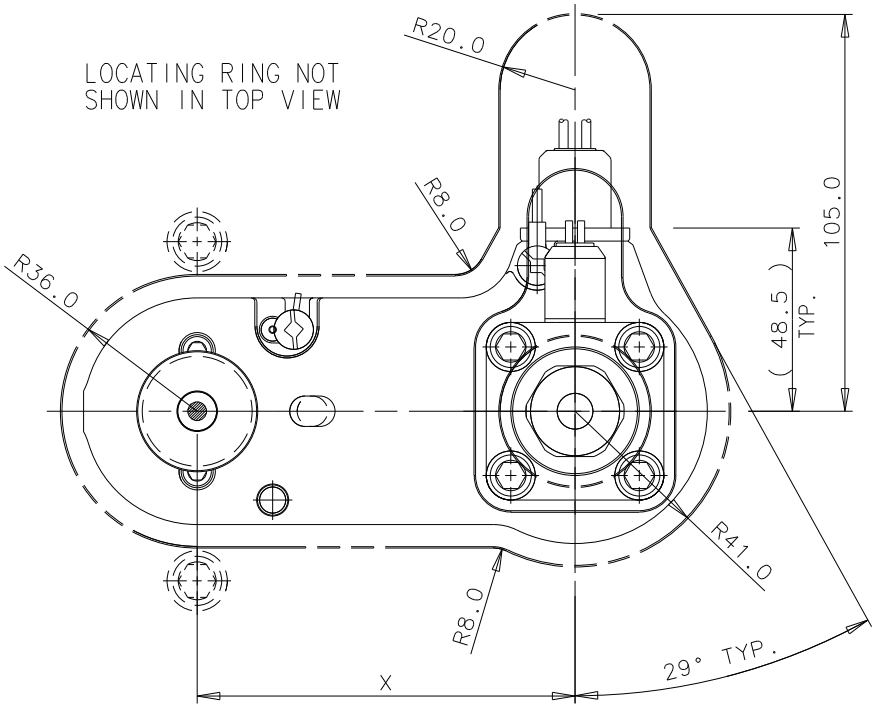
ACCESSORIES 09.01

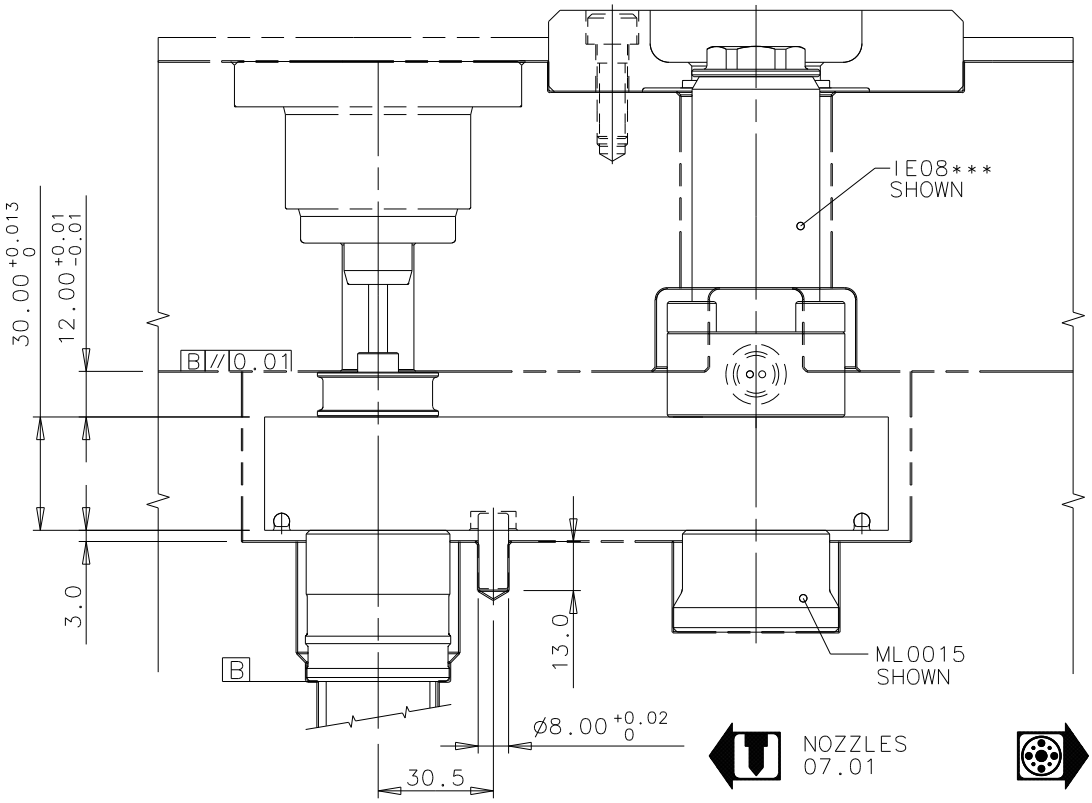
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES
07.01

ACCESSORIES
09.01

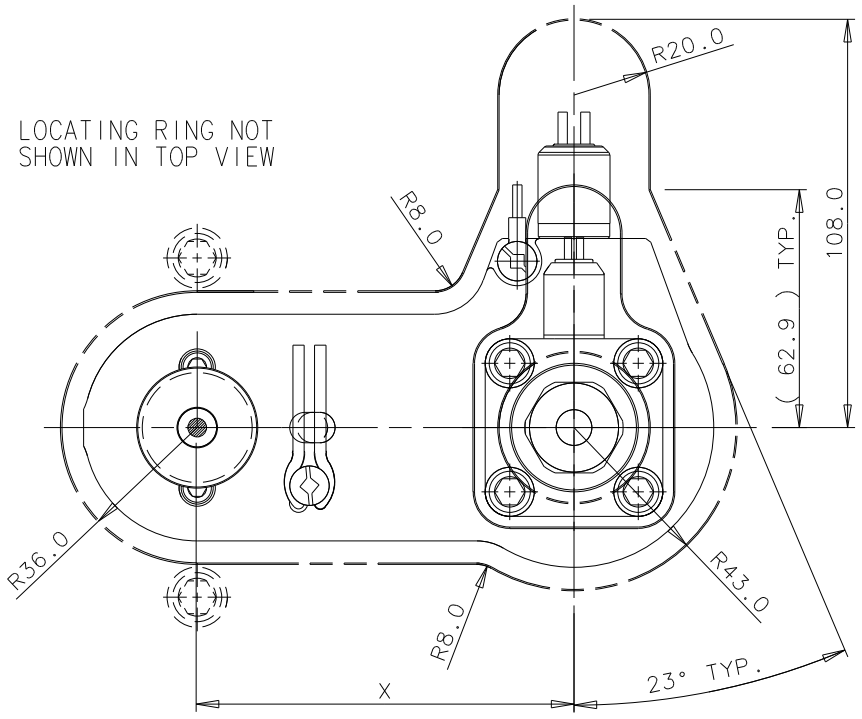
MANIFOLD
RANGES
07.02.001

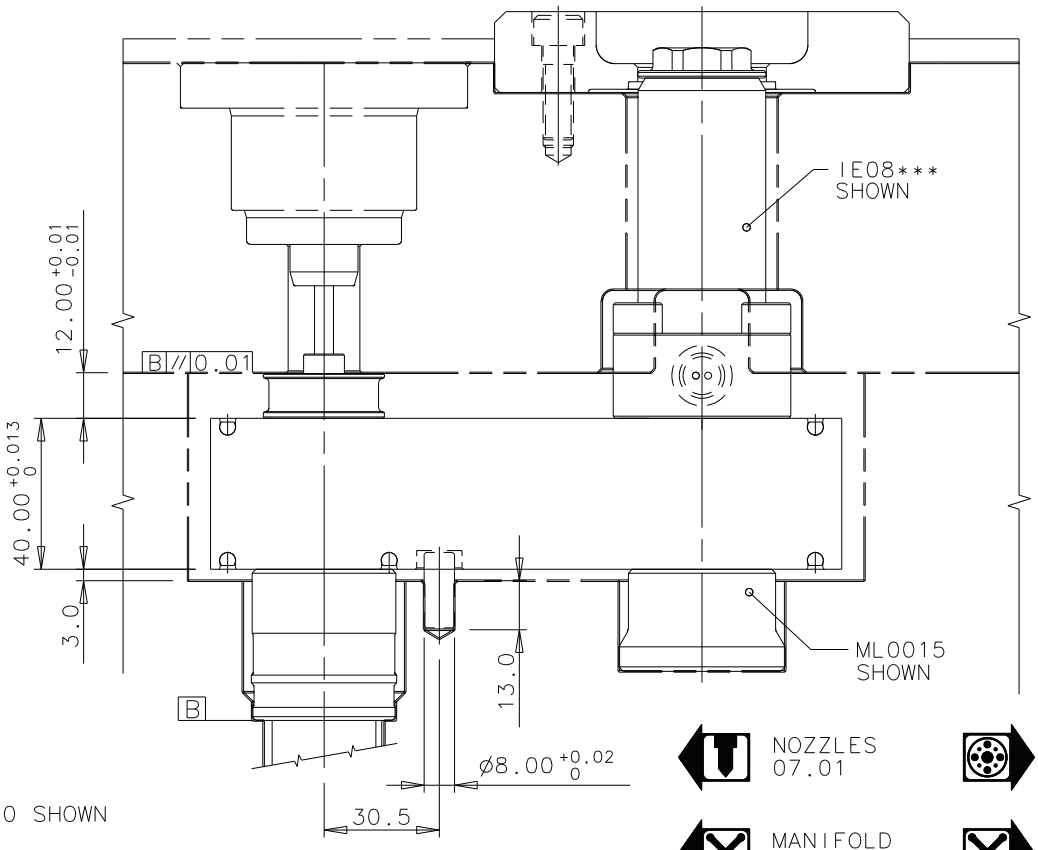
MANIFOLD
COMPONENTS
10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)

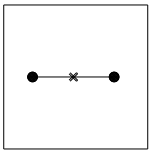




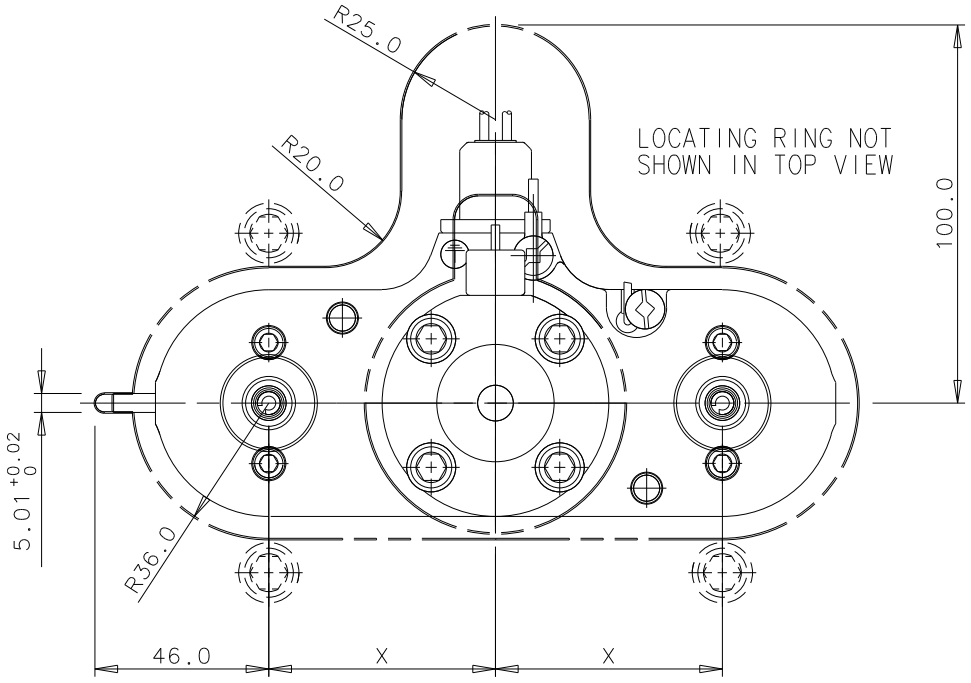
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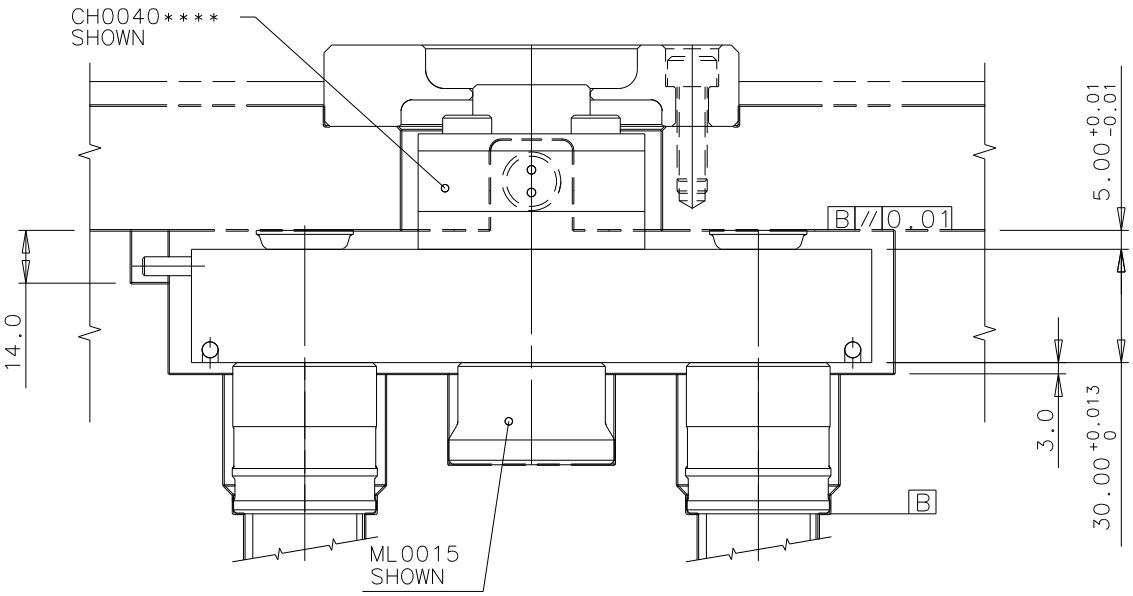
NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 60 SHOWN

NOZZLES
07.01

ACCESSORIES
09.01

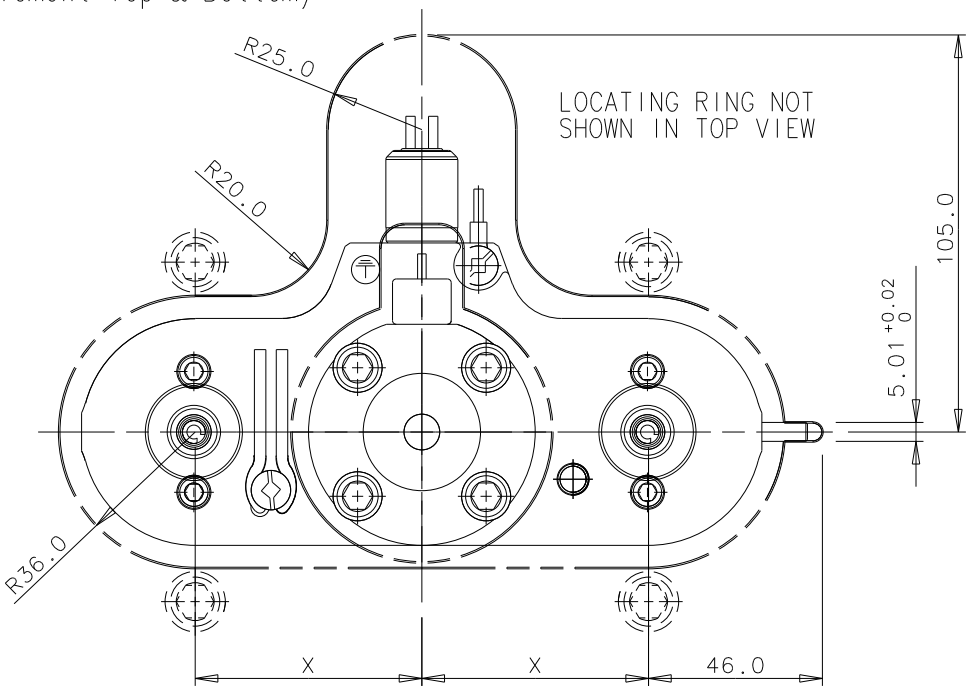
MANIFOLD
RANGES
07.02.001

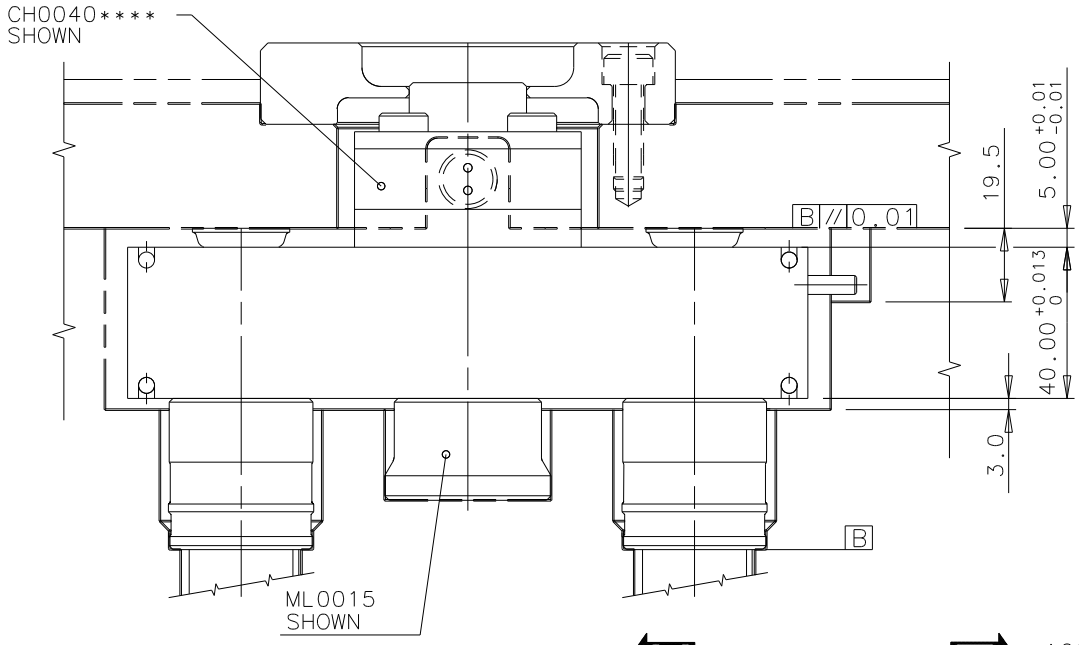
MANIFOLD
COMPONENTS
10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 60 SHOWN

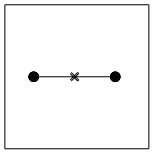
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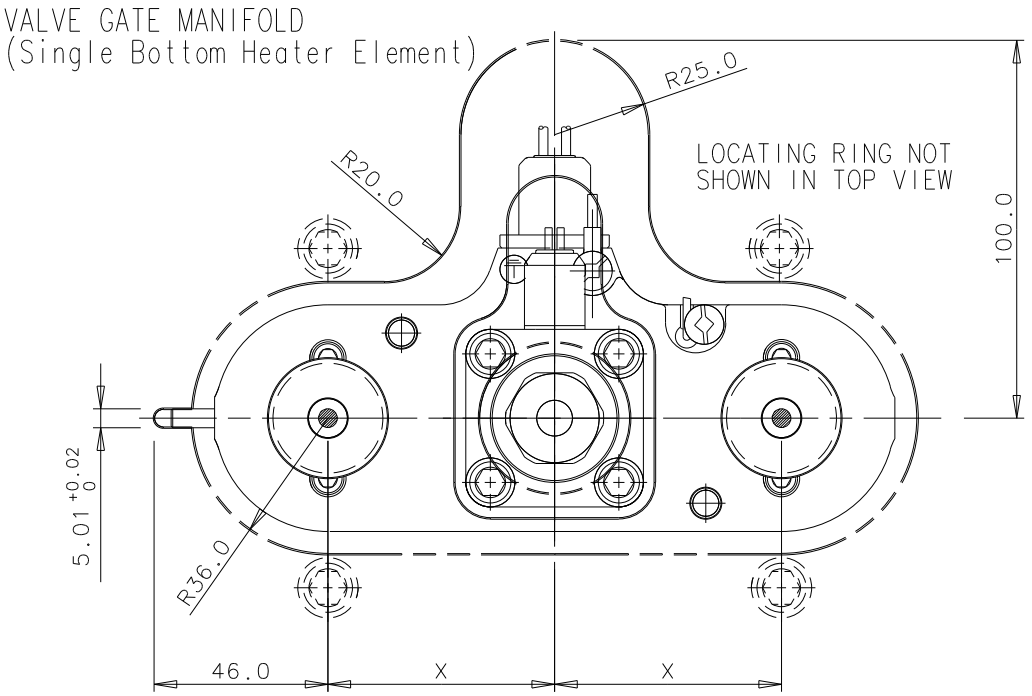
ACCESSORIES 09.01

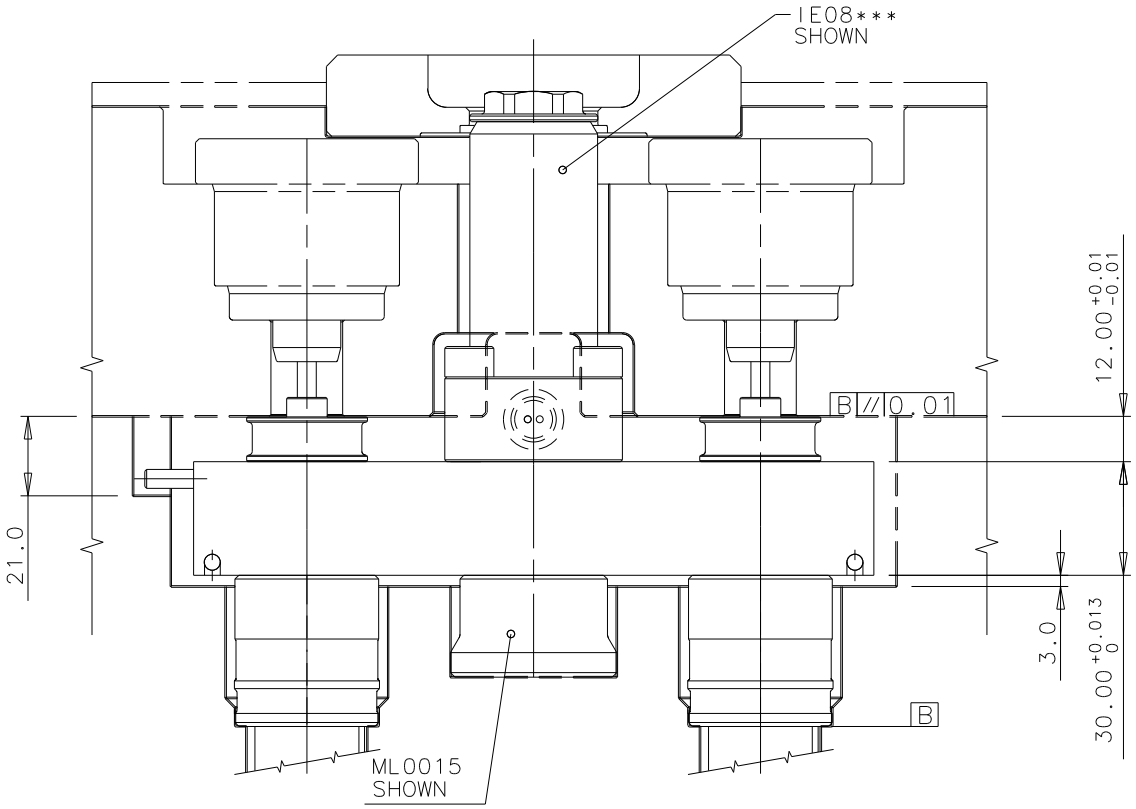
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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X = 60 SHOWN

NOZZLES
07.01

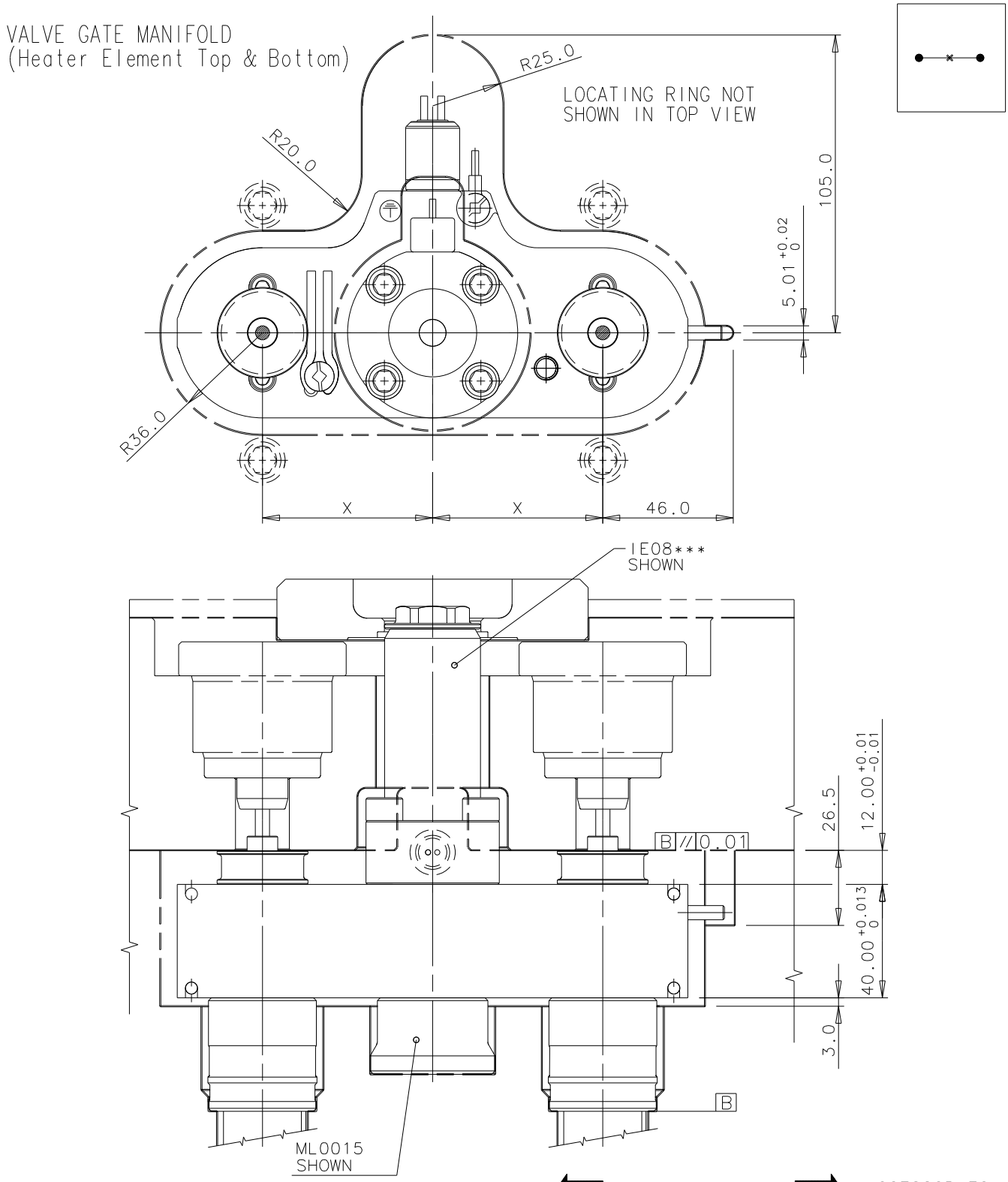
ACCESSORIES
09.01

MANIFOLD
RANGES
07.02.001

MANIFOLD
COMPONENTS
10.01

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X = 60 SHOWN

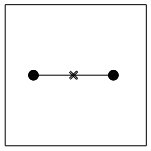
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ACCESSORIES 09.01

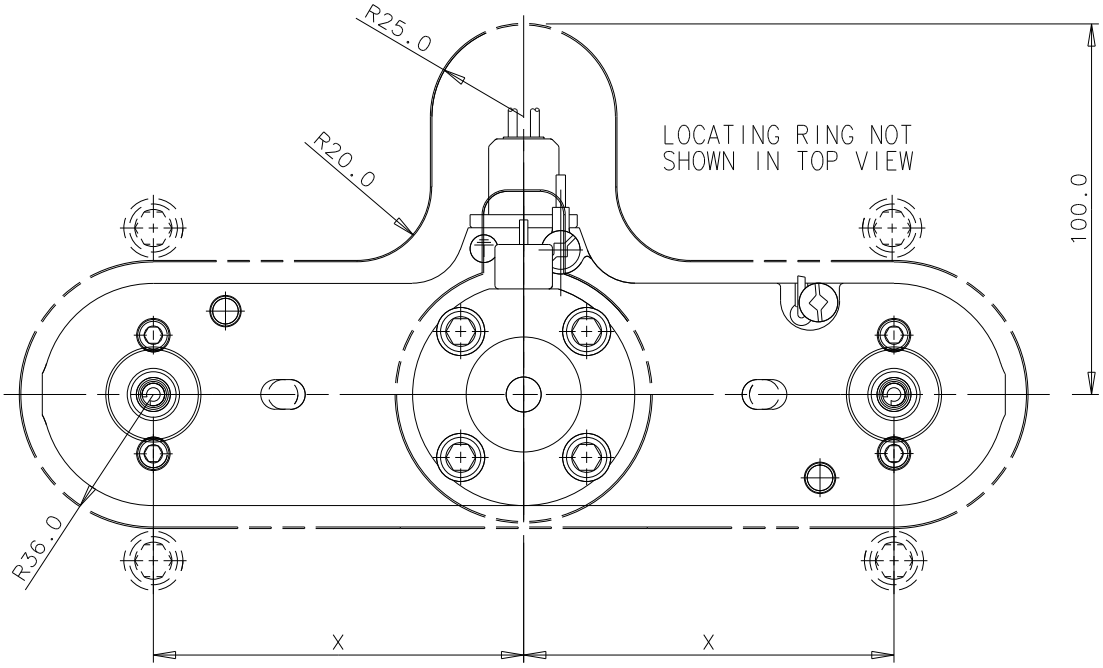
MANIFOLD RANGES 07.02.001

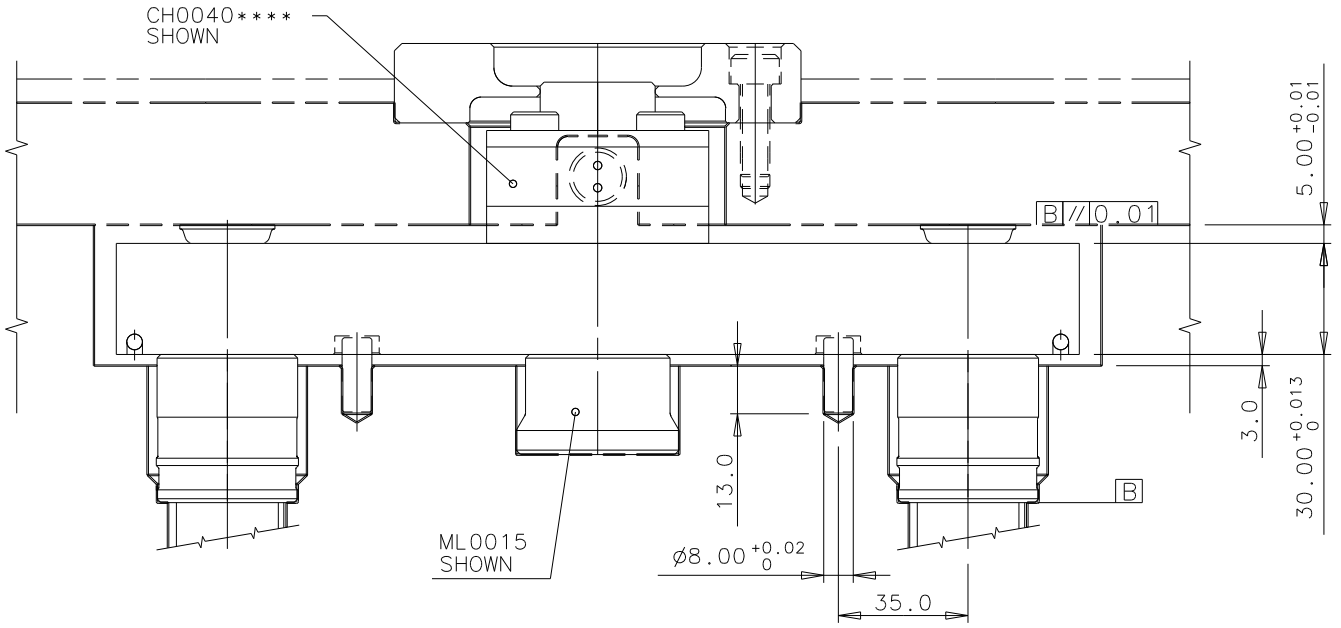
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 100 SHOWN

NOZZLES
07.01

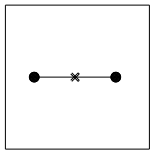
ACCESSORIES
09.01

MANIFOLD
RANGES
07.02.001

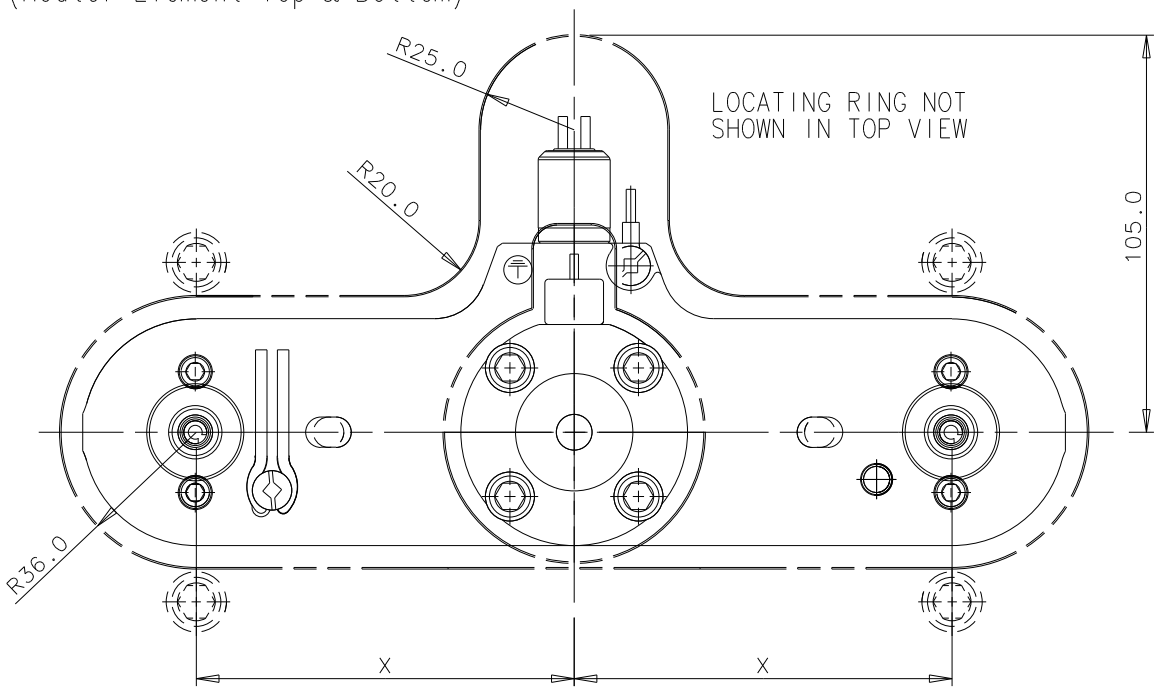
MANIFOLD
COMPONENTS
10.01

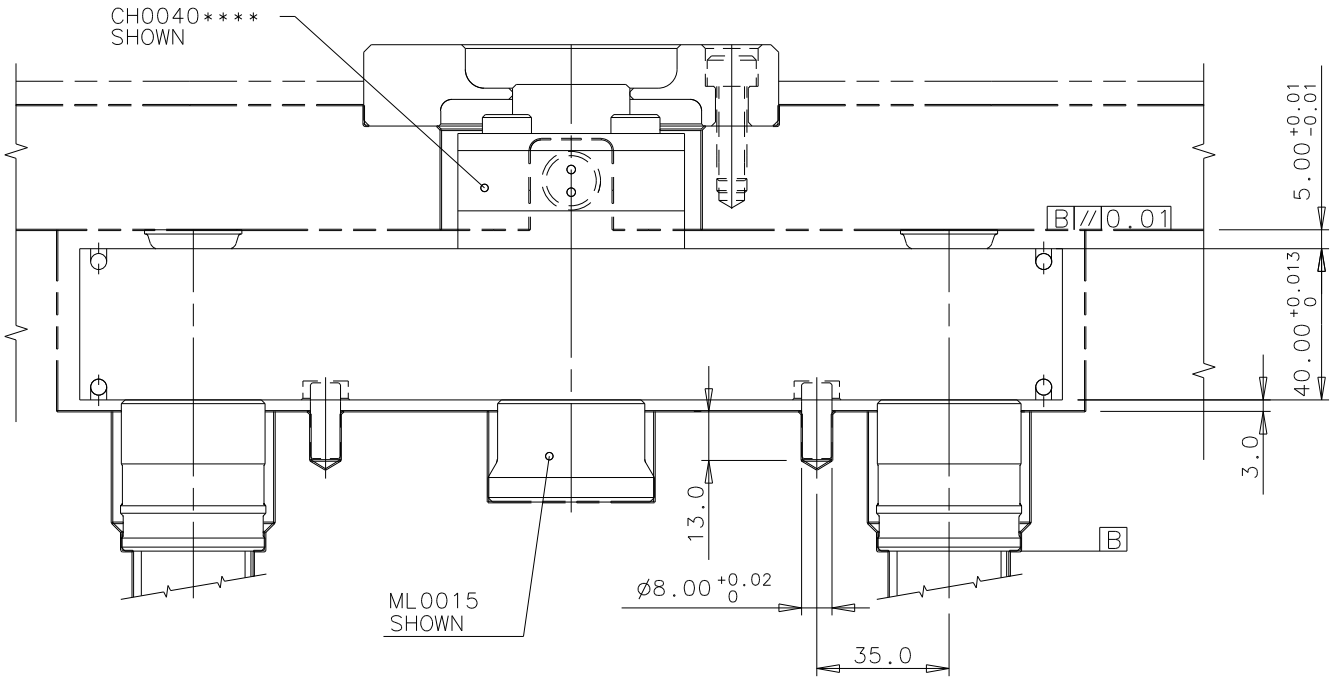
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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 100 SHOWN

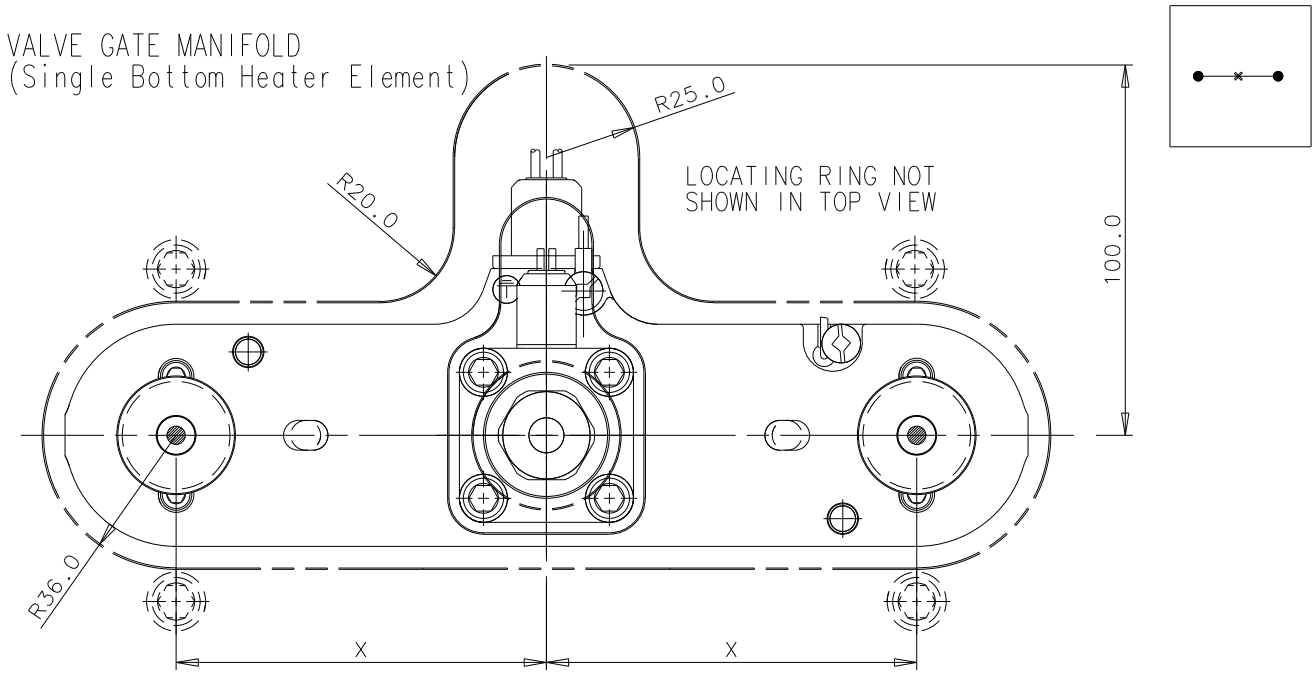

NOZZLES
07.01

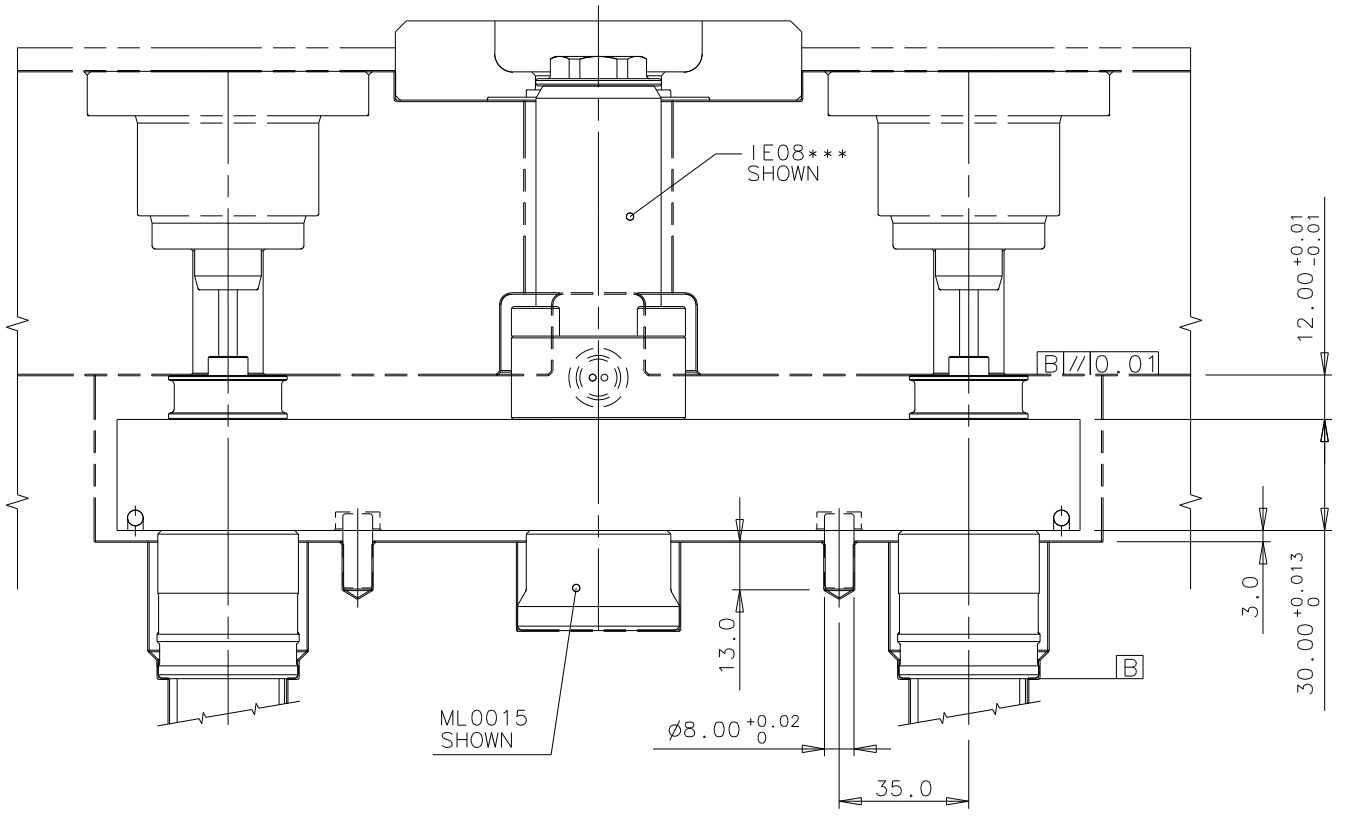

ACCESSORIES
09.01


MANIFOLD
RANGES
07.02.001


MANIFOLD
COMPONENTS
10.01

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X = 100 SHOWN

NOZZLES 07.01

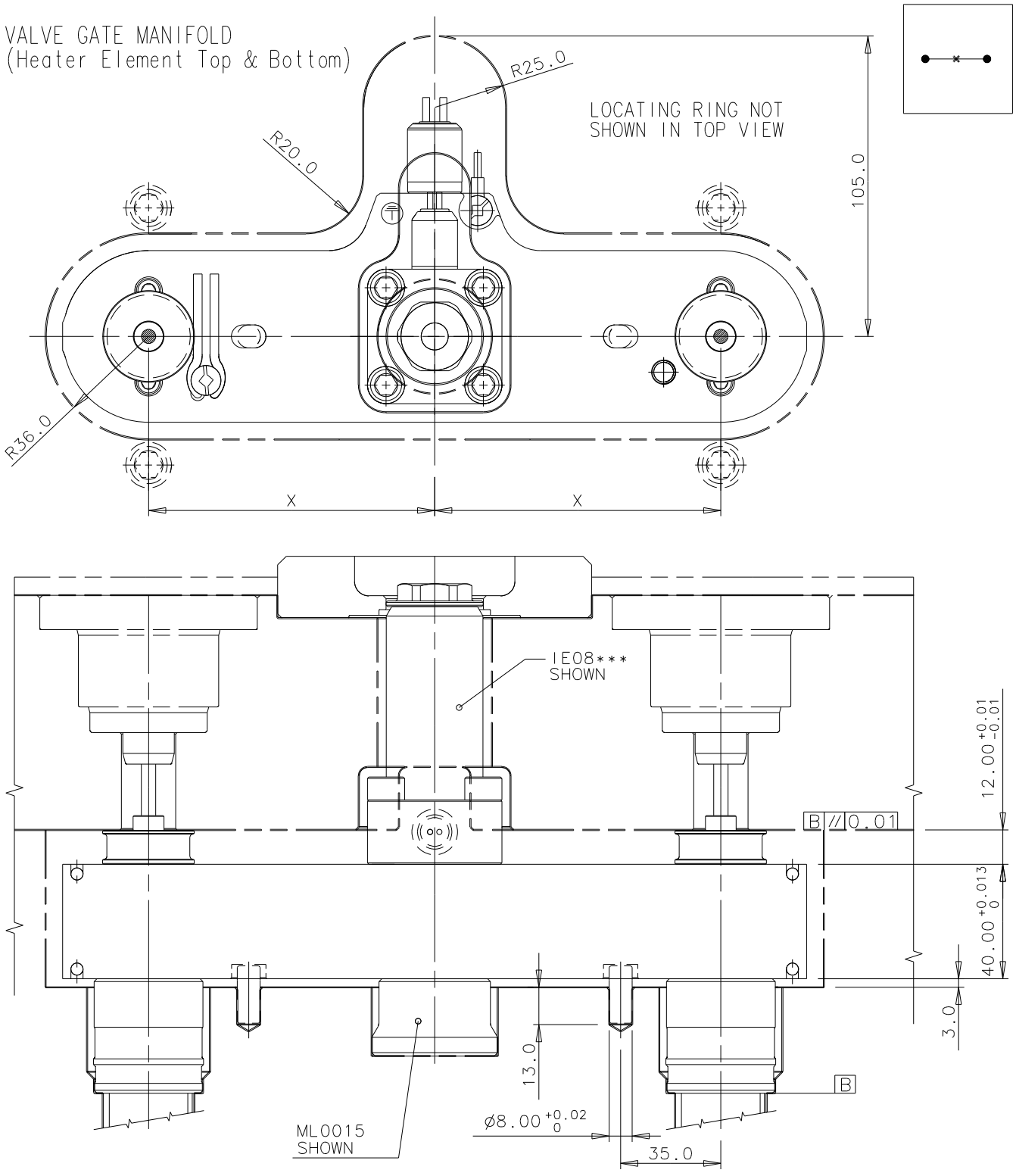
ACCESSORIES 09.01

MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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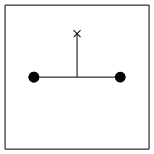
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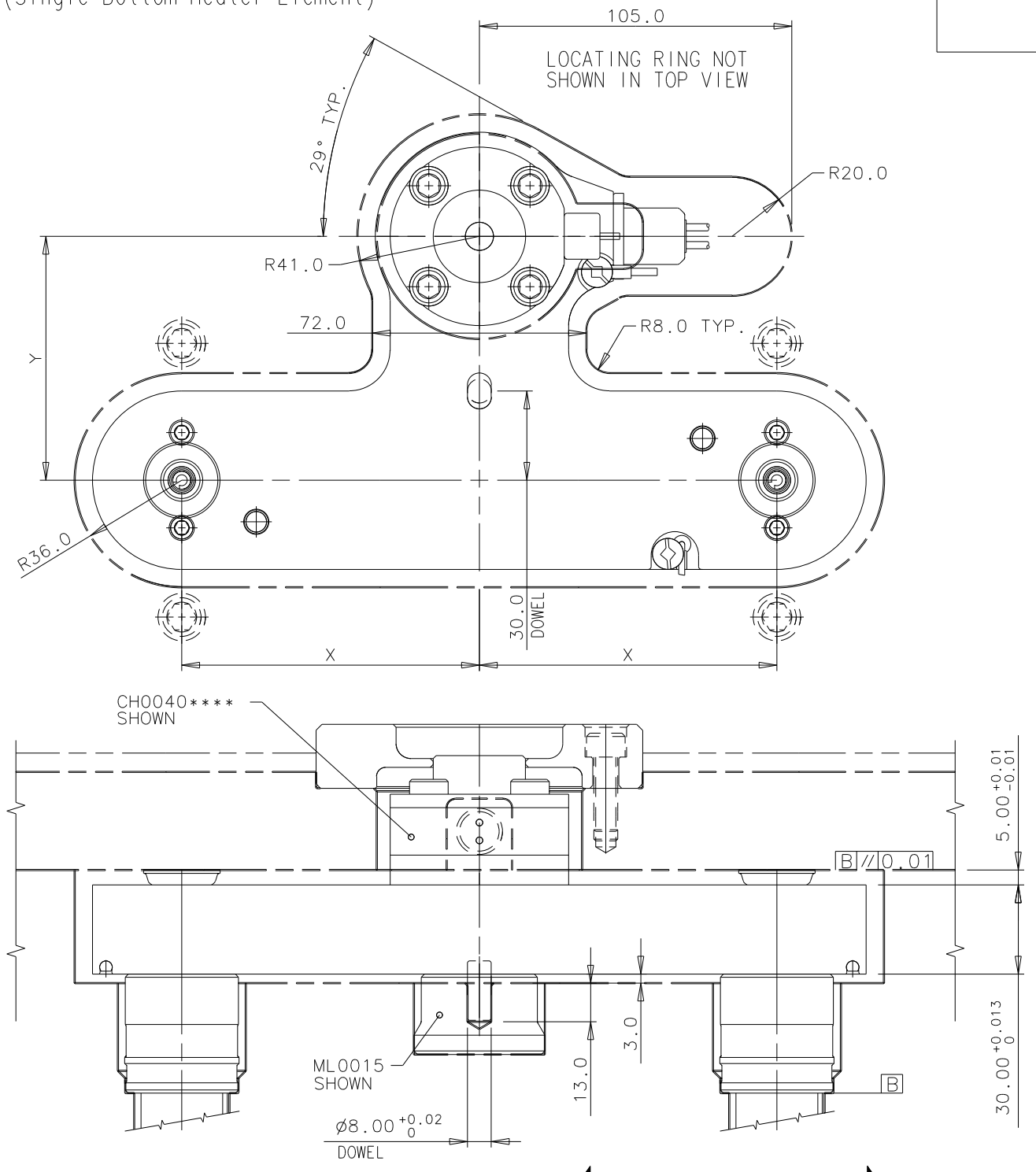
X = 100 SHOWN

NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)

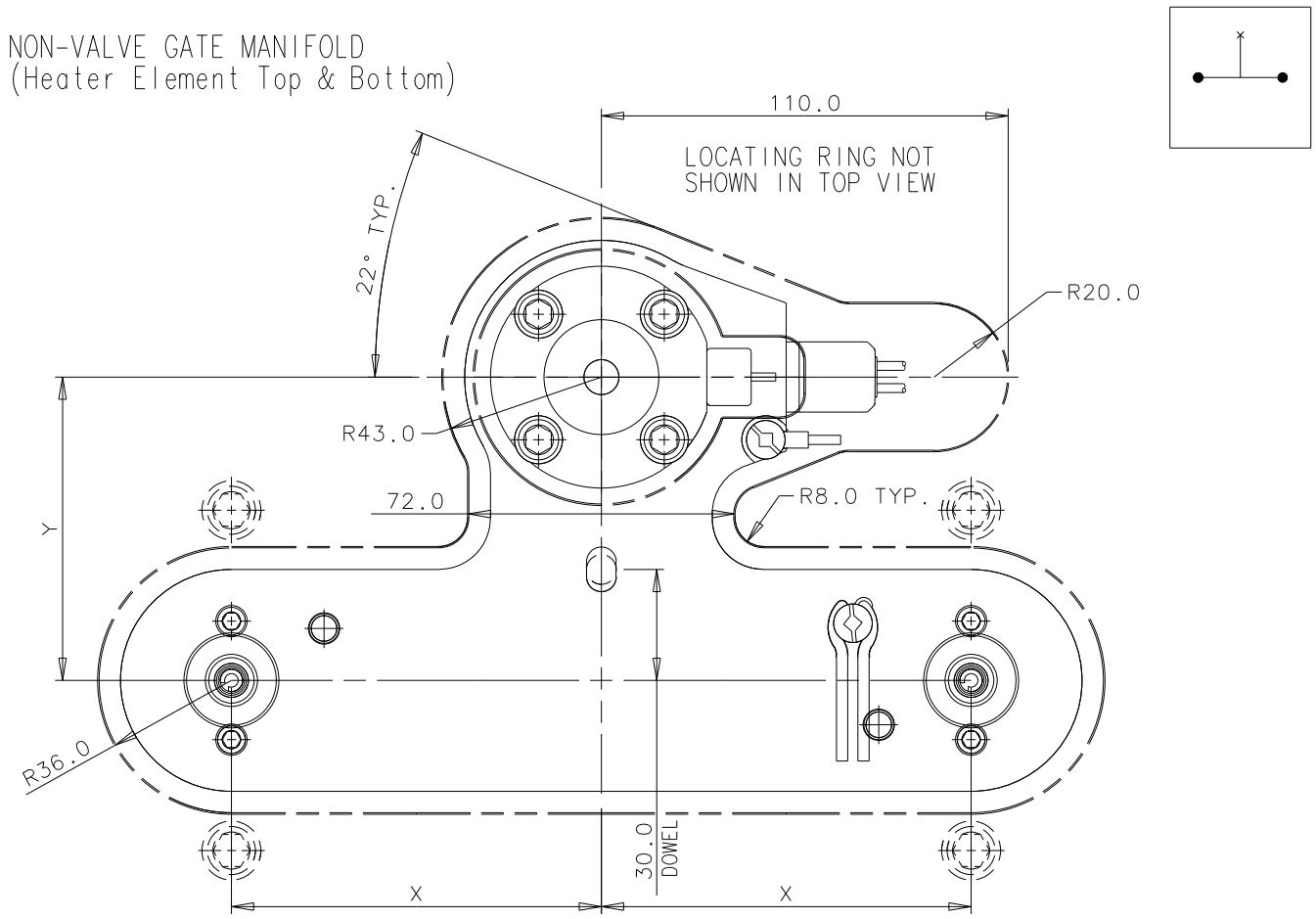


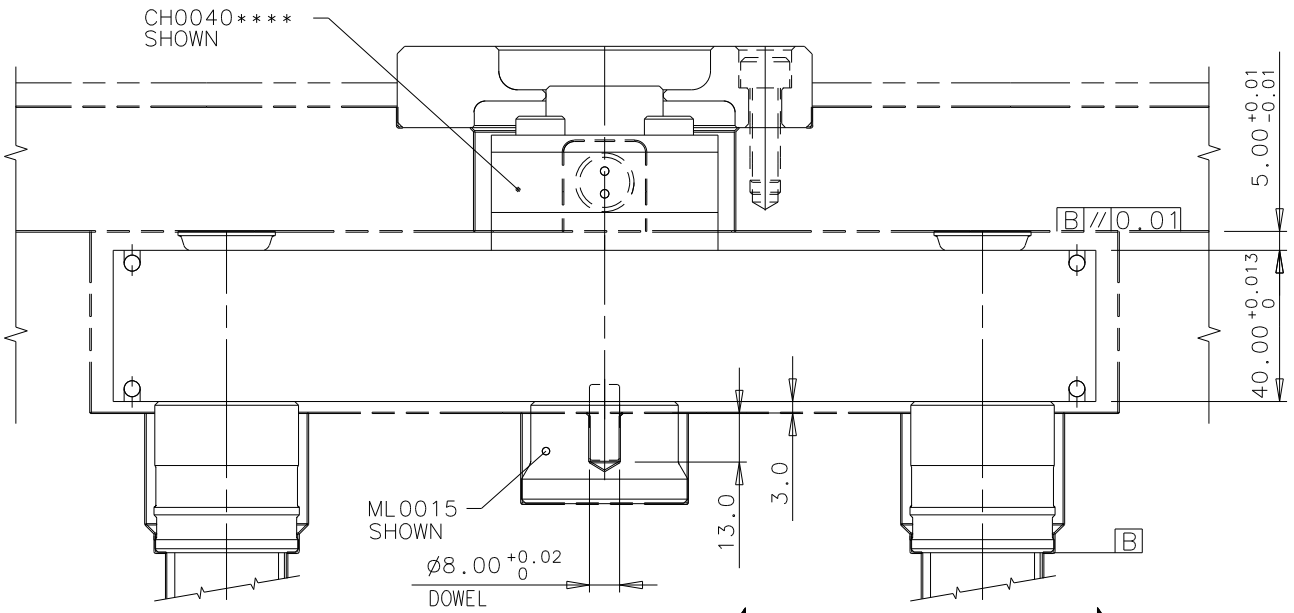
X = 100 / Y = 82 SHOWN

NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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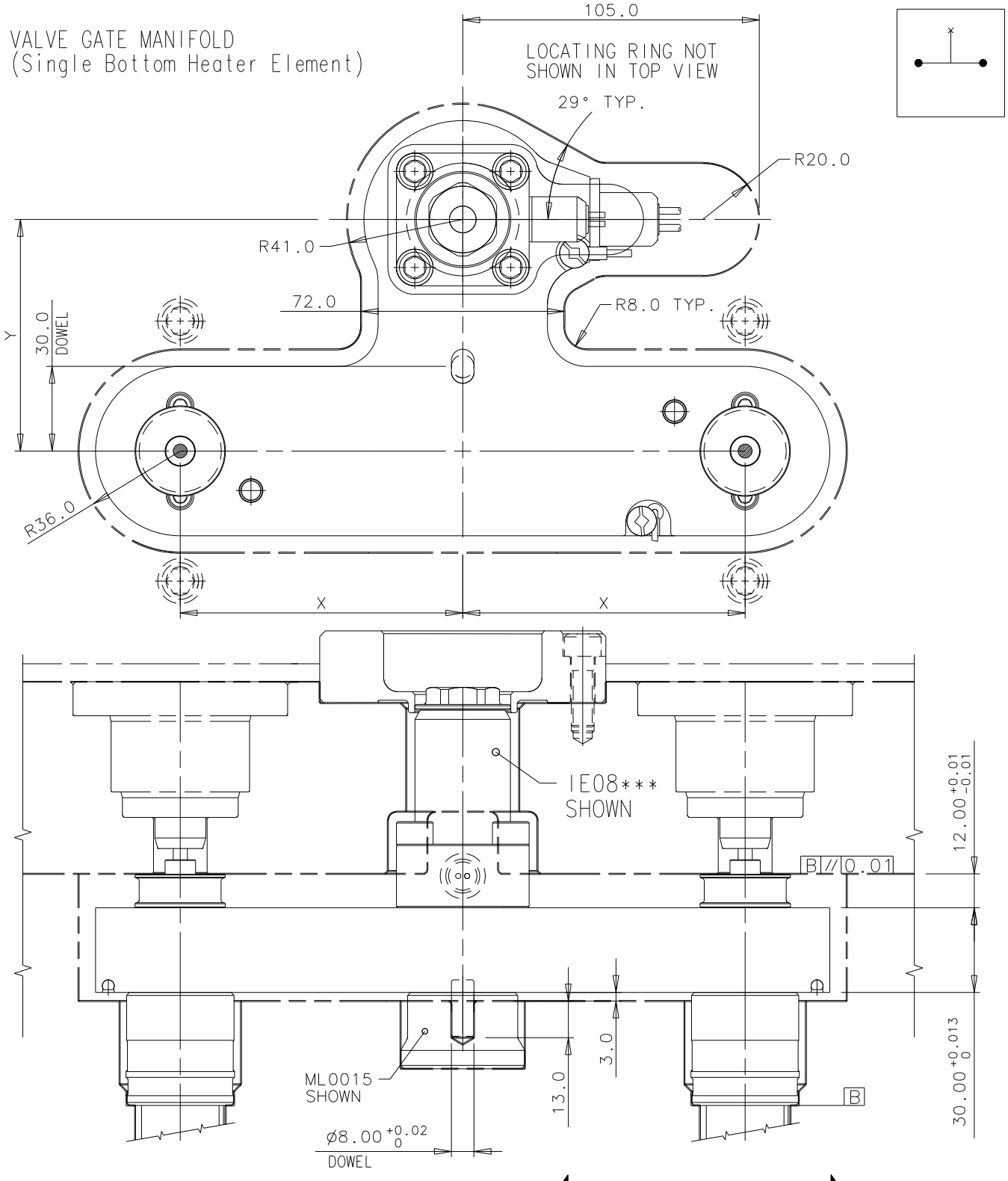




X = 100 / Y = 82 SHOWN

NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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X = 100 / Y = 82 SHOWN

NOZZLES 07.01

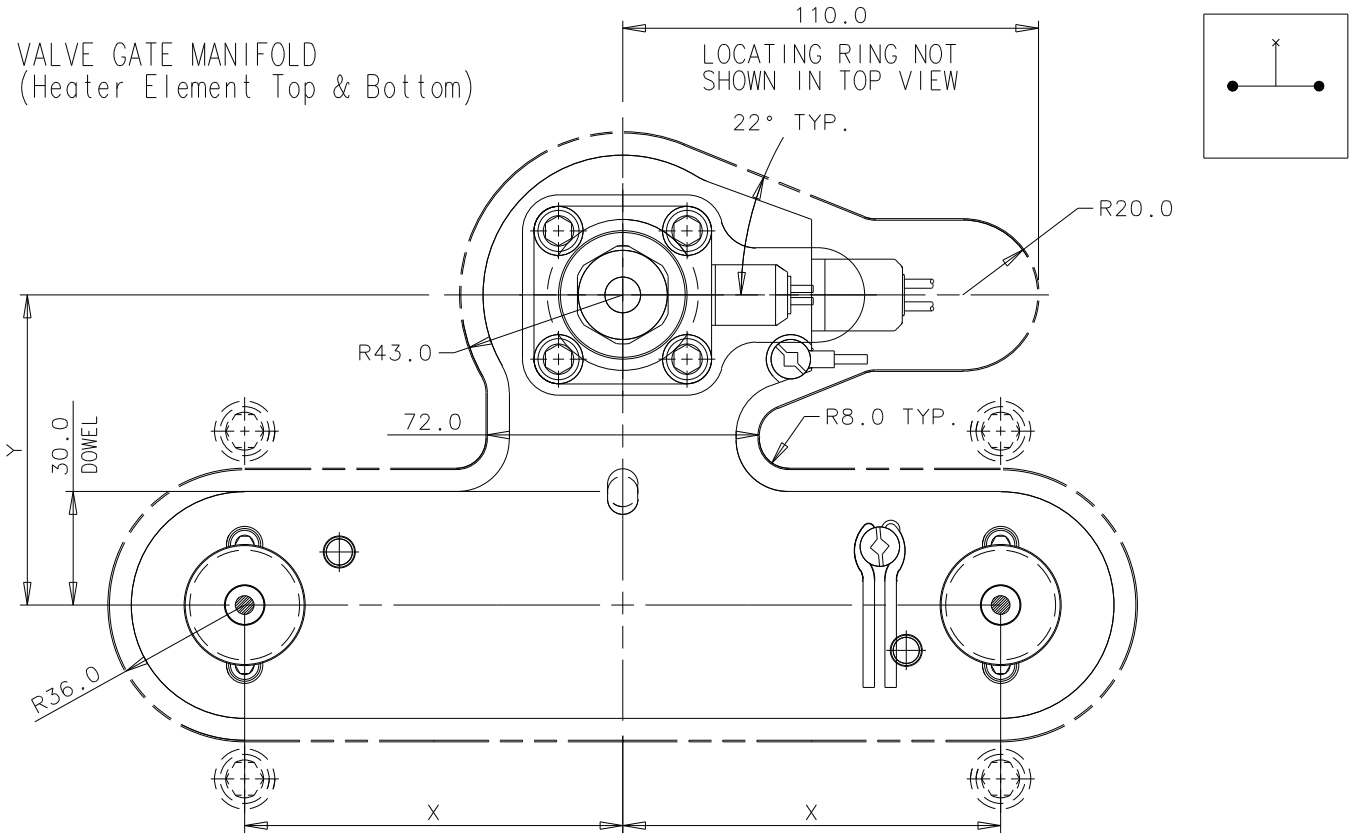
ACCESSORIES 09.01

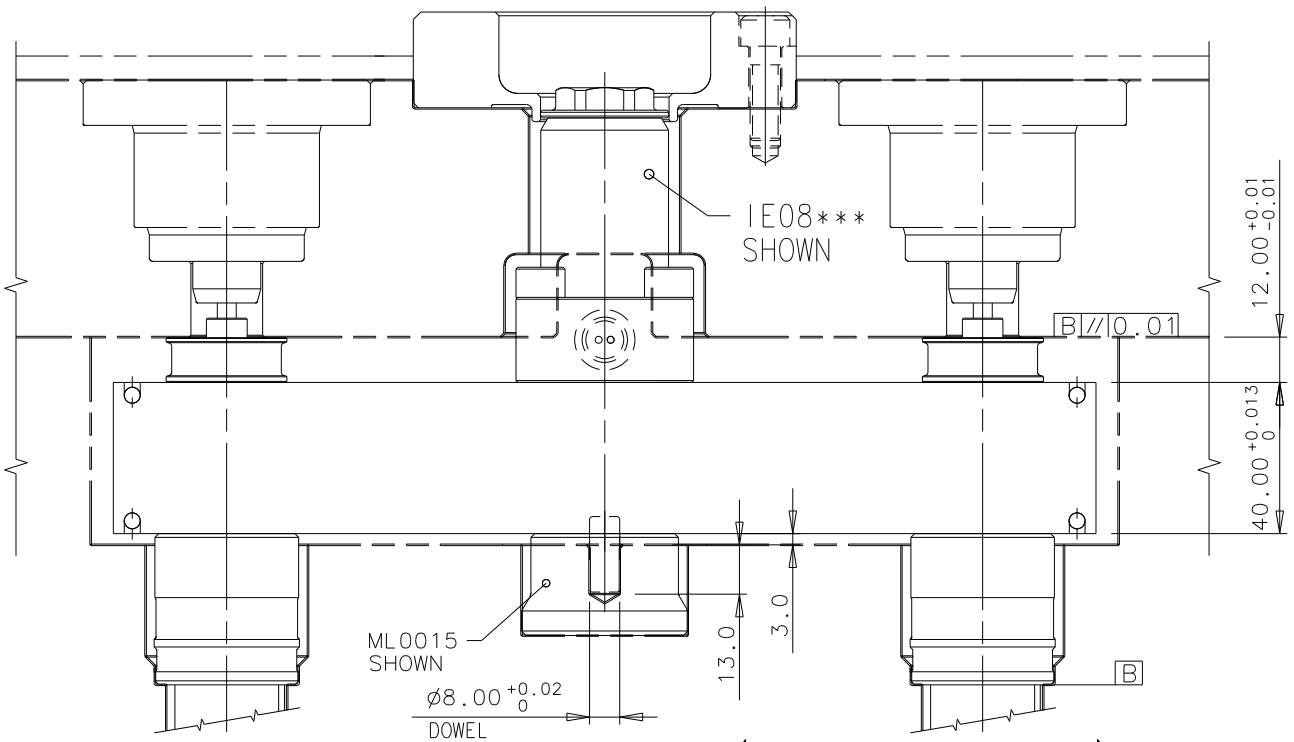
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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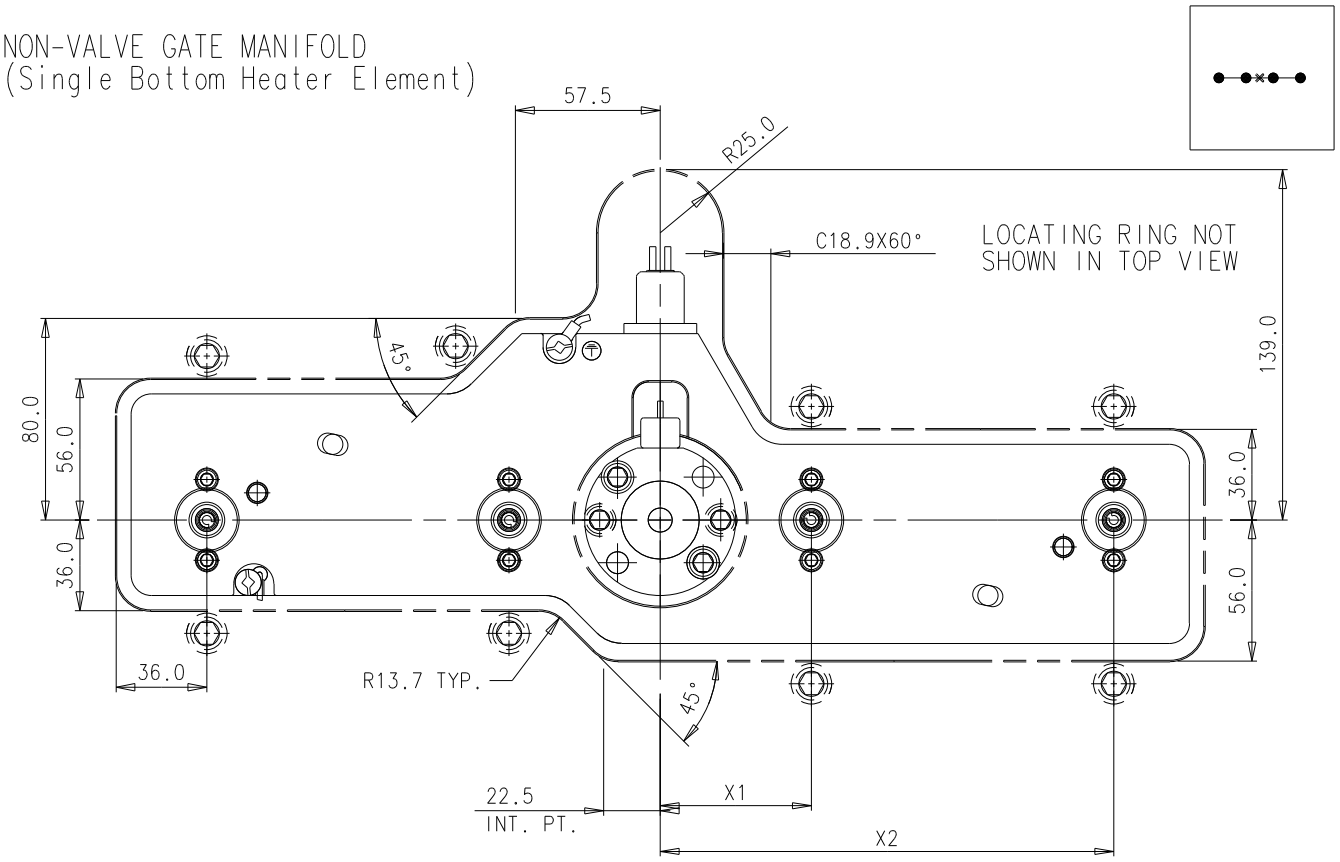


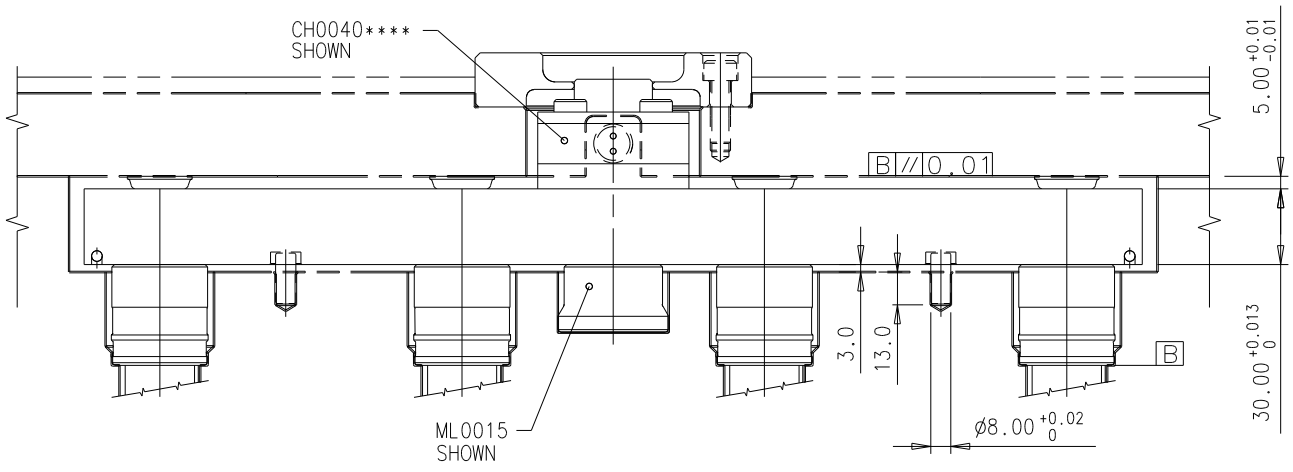


X = 100 / Y = 82 SHOWN

NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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X = 60 SHOWN

NOZZLES 07.01

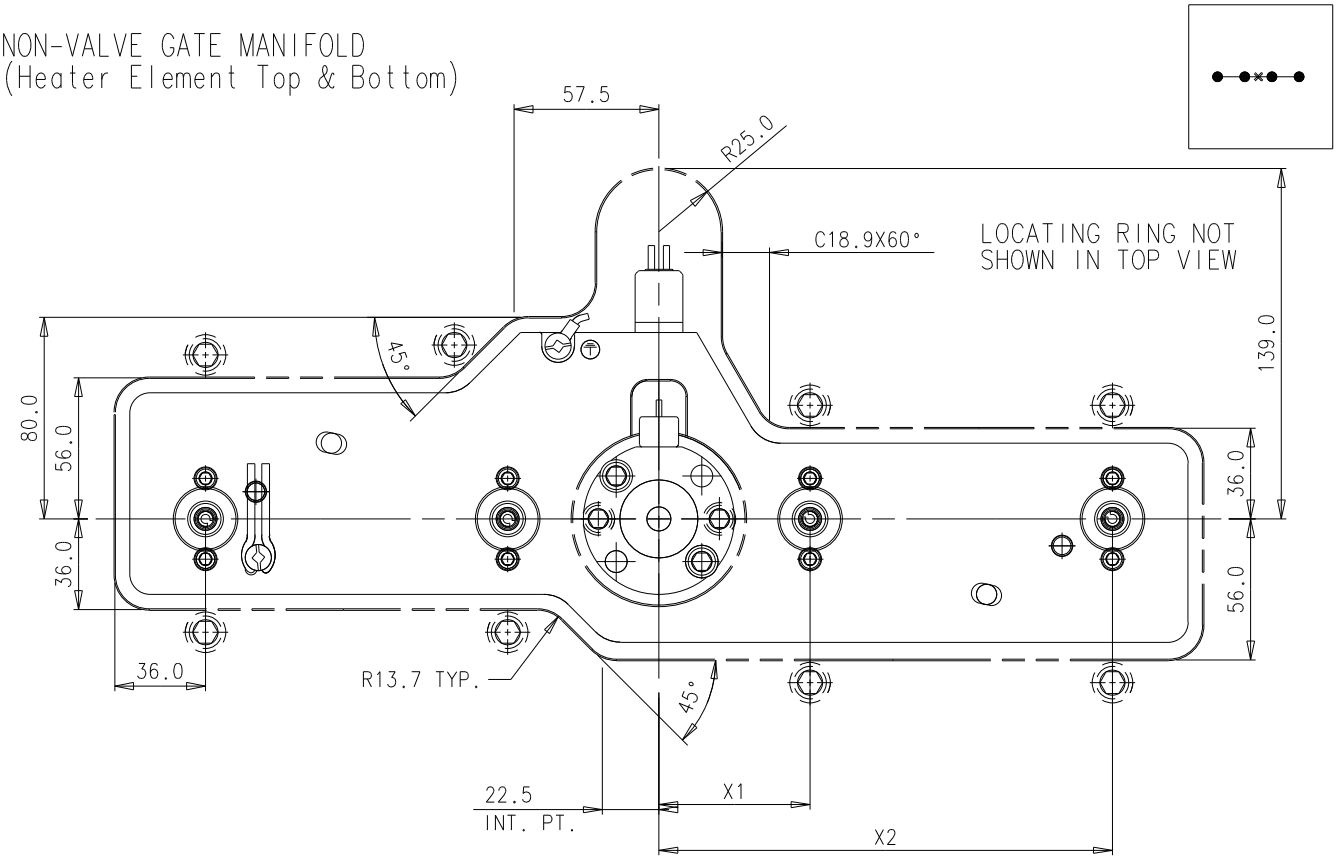
ACCESSORIES 09.01

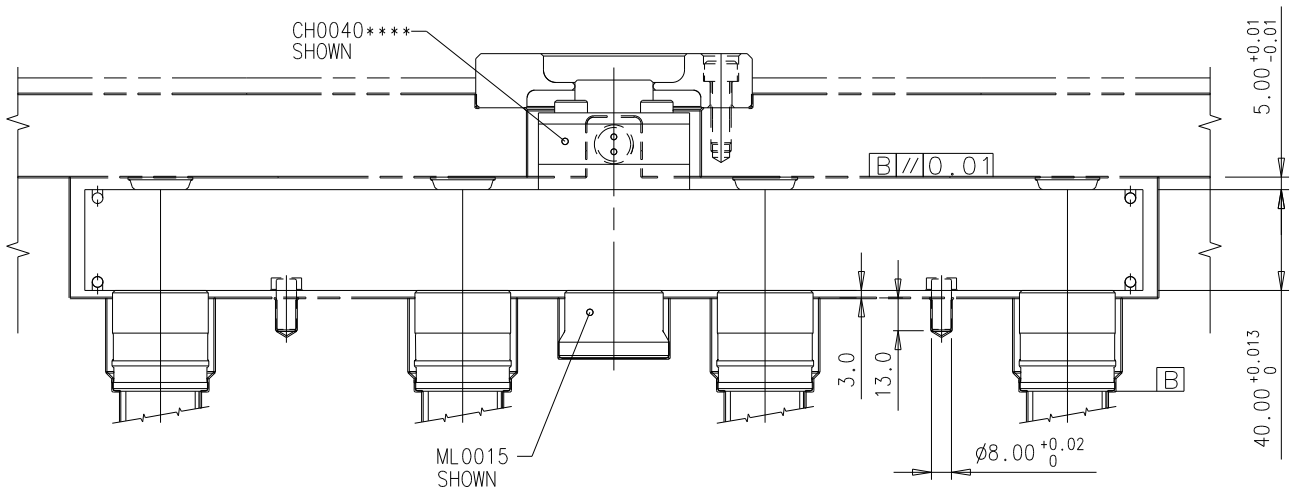
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)

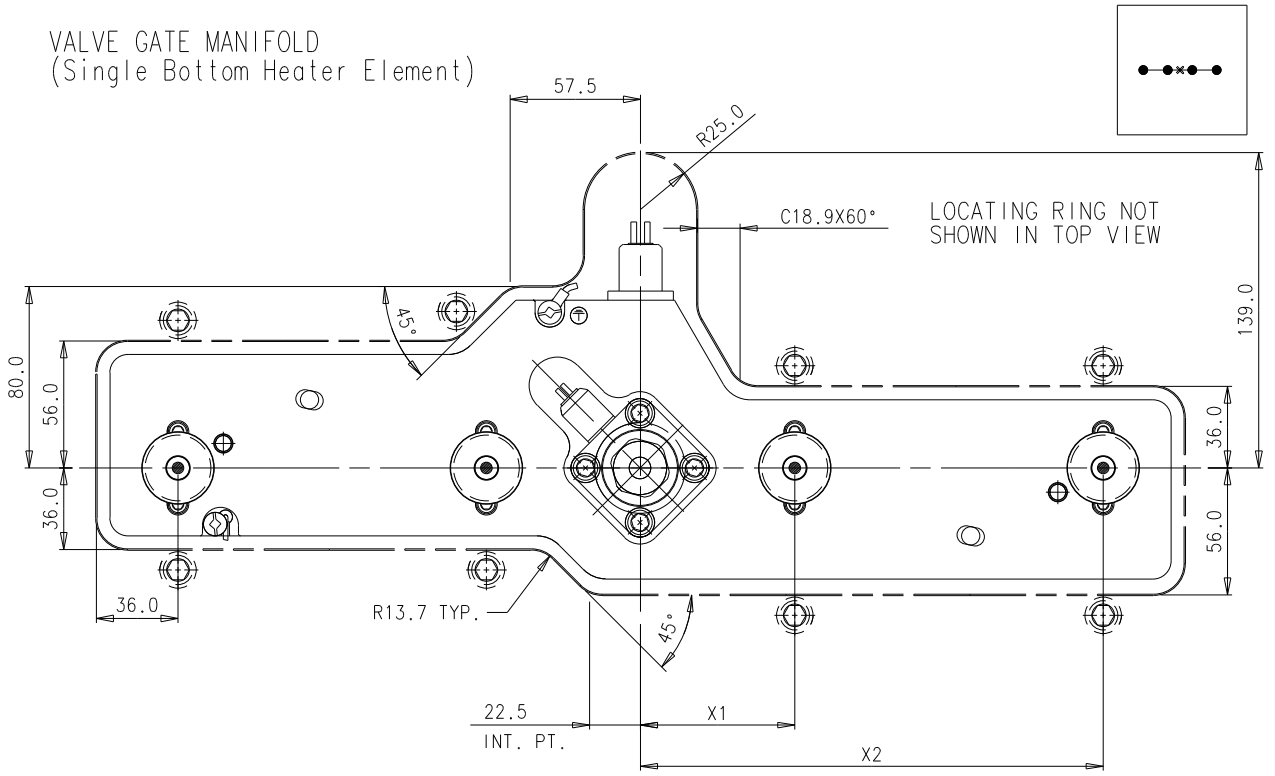


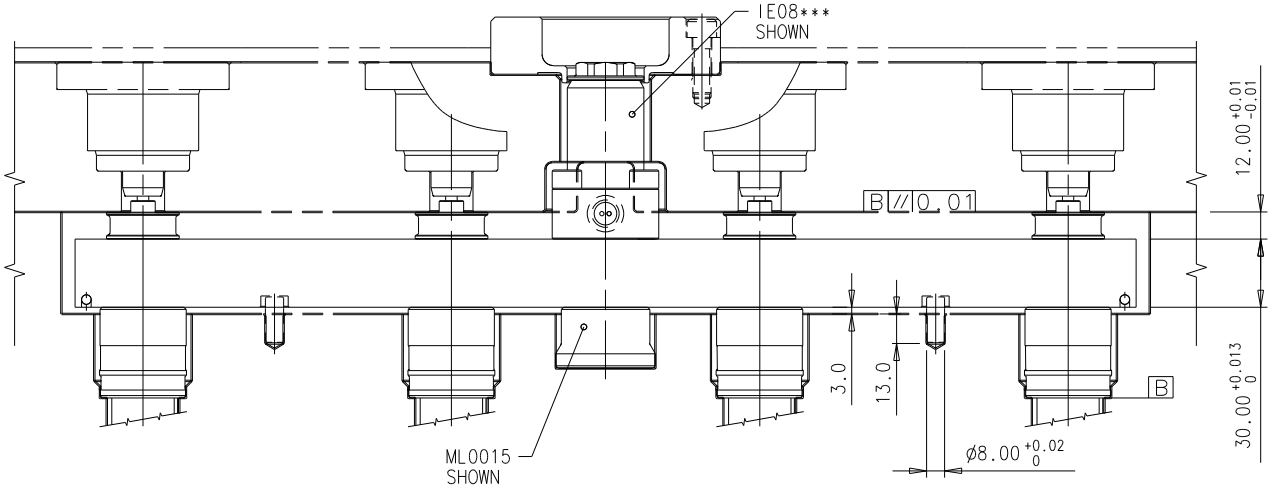


X = 60 SHOWN

NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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X = 68 SHOWN

NOZZLES 07.01

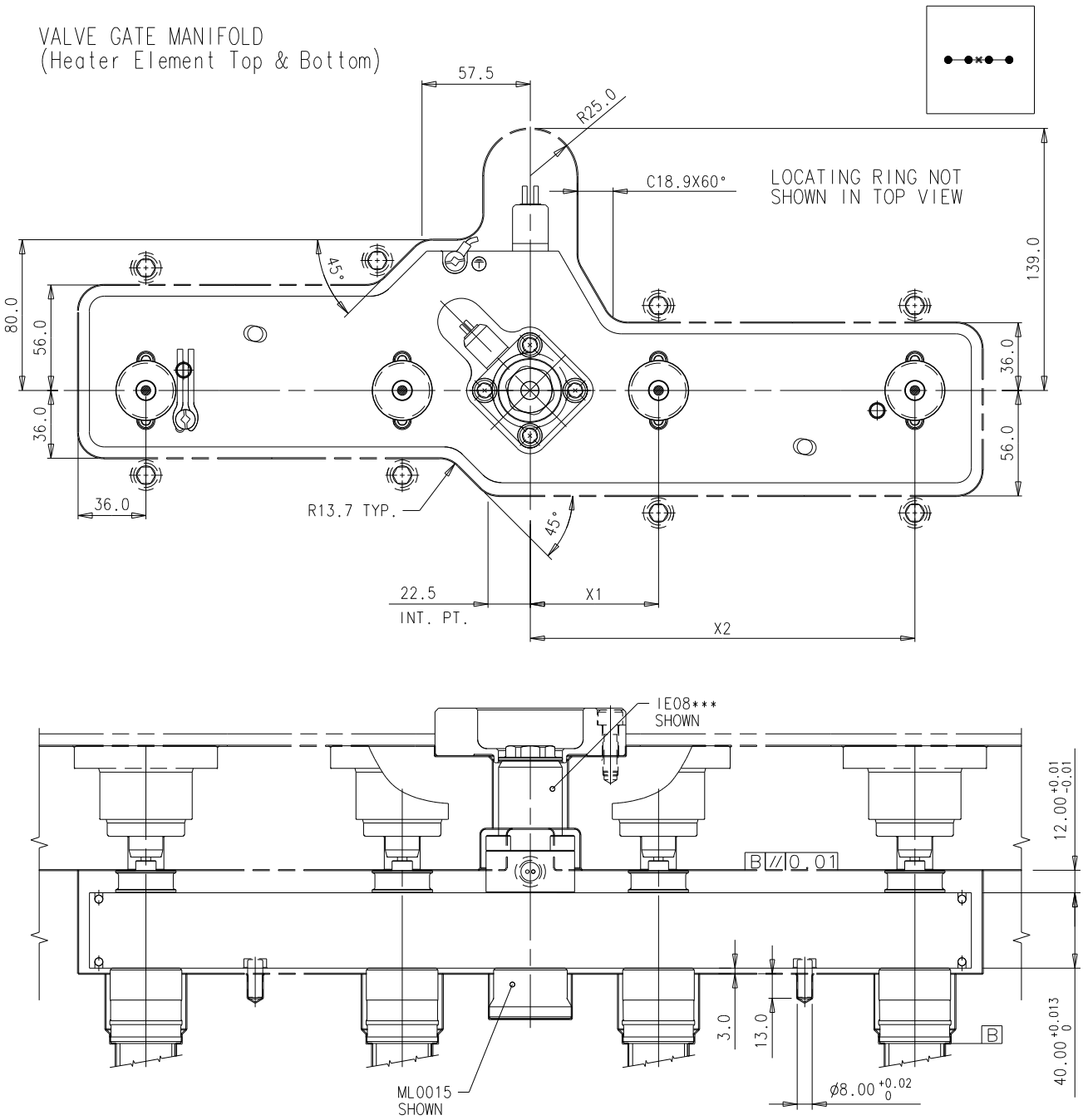
ACCESSORIES 09.01

MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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4 in a row Sub Manifold (Valve) w/ Top & Btm Htr
07.02.041B



X = 68 SHOWN

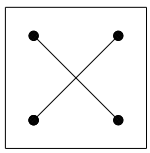
NOZZLES 07.01

ACCESSORIES 09.01

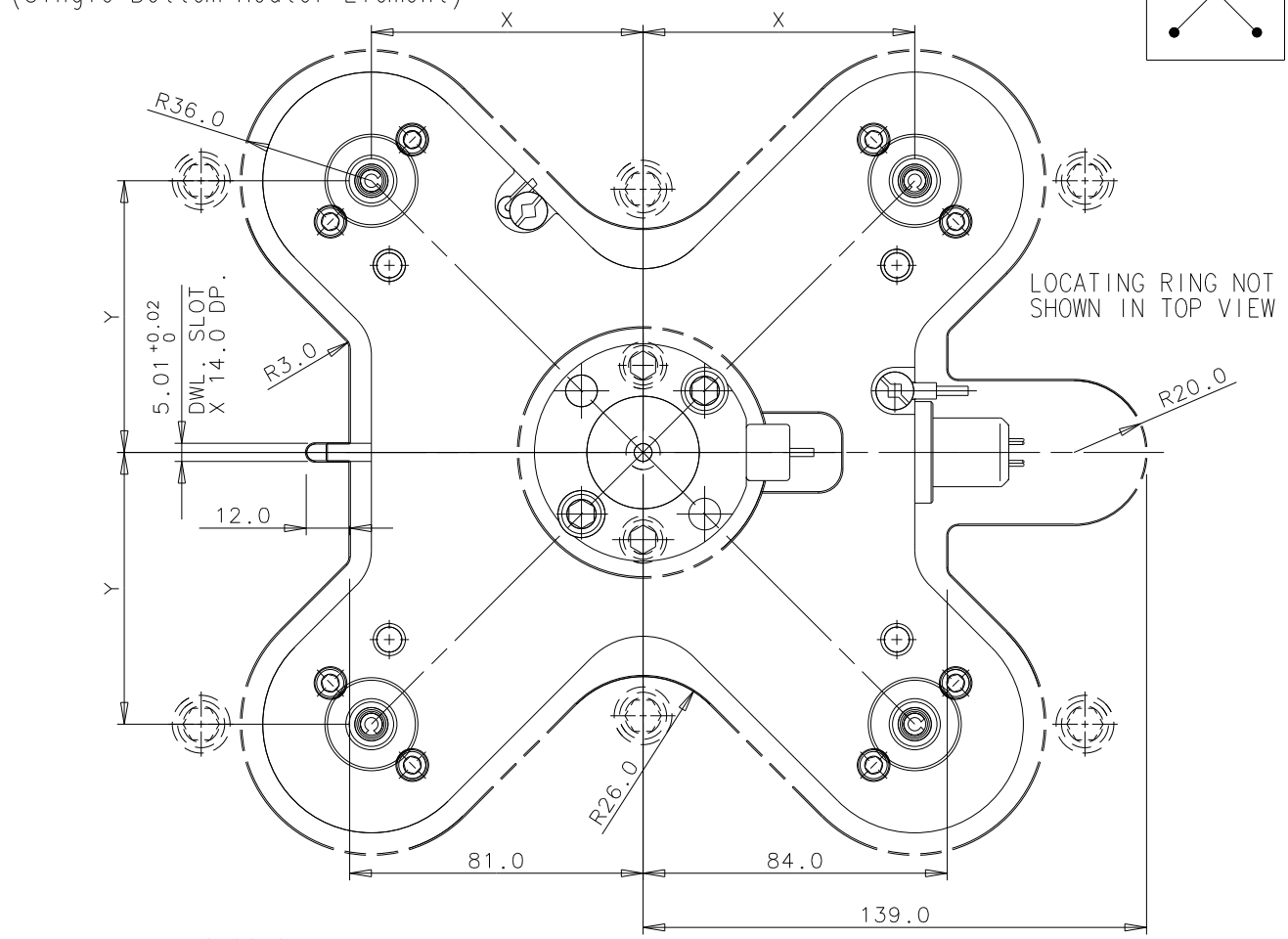
MANIFOLD RANGES 07.02.001

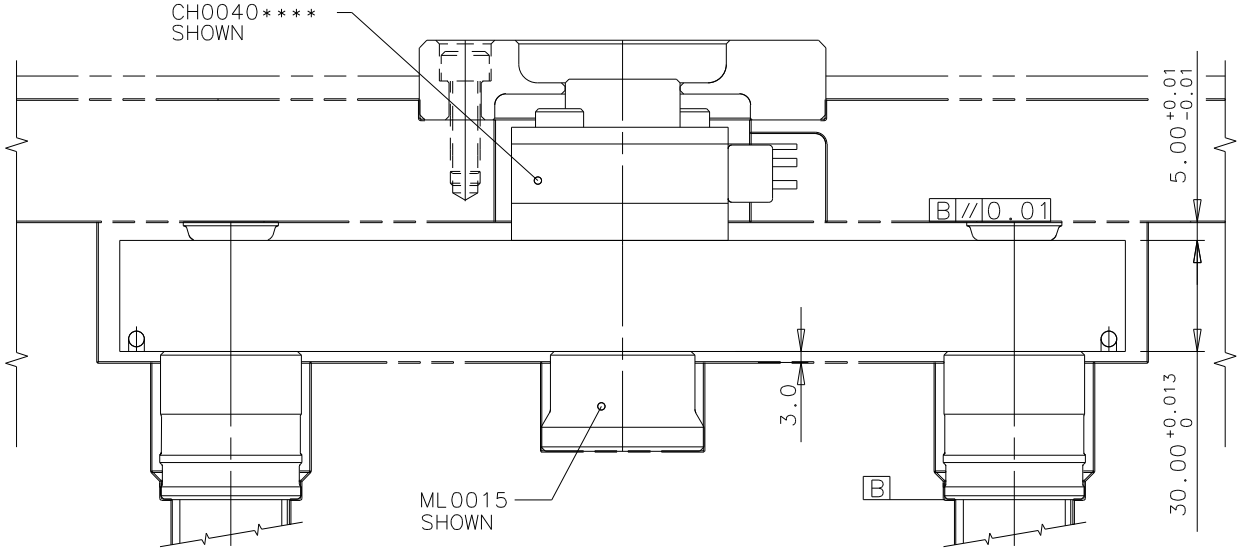
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





X = 75 SHOWN

NOZZLES
07.01

ACCESSORIES
09.01

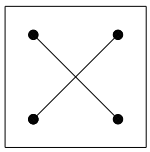
MANIFOLD
RANGES
07.02.001

MANIFOLD
COMPONENTS
10.01

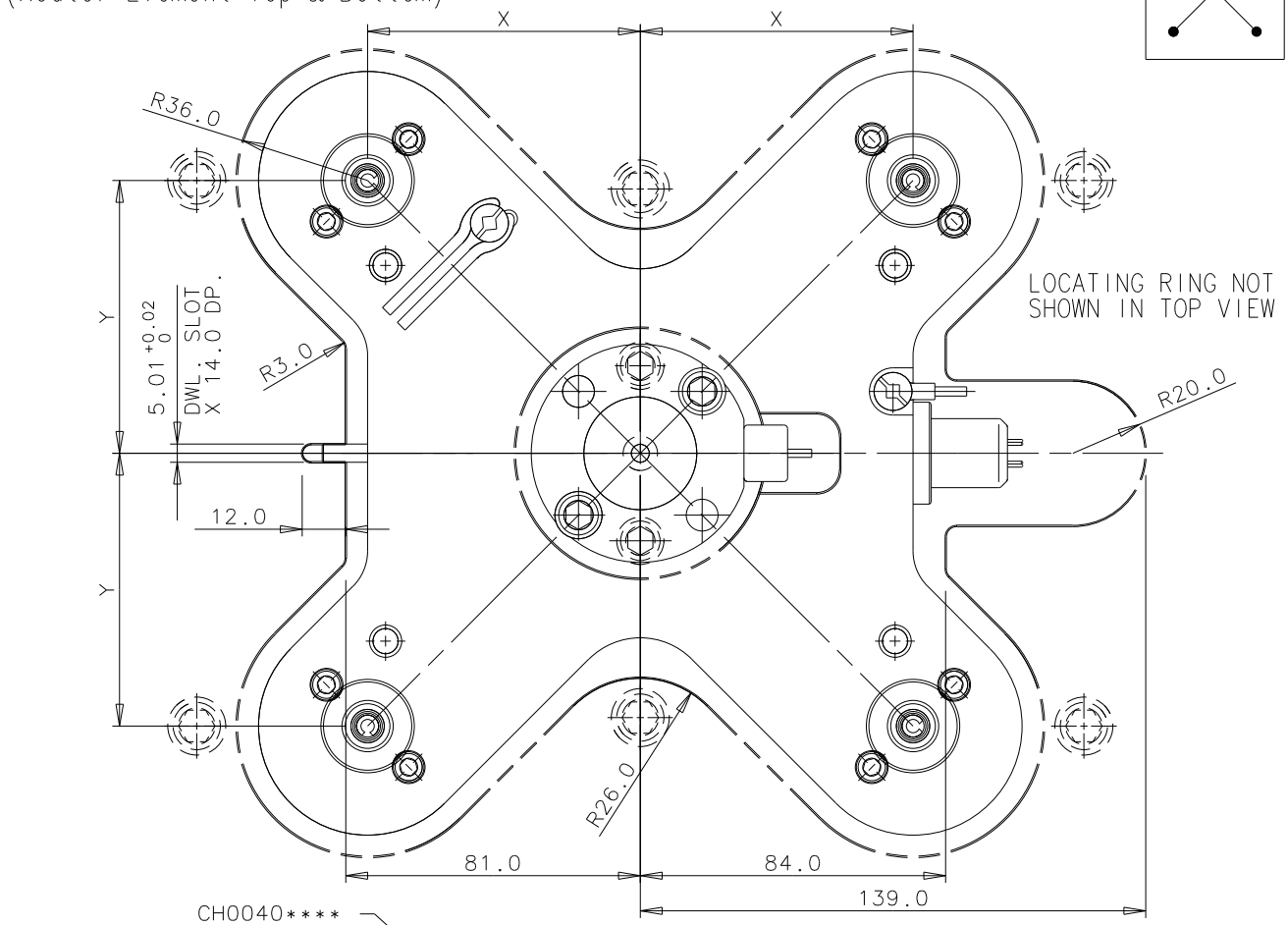
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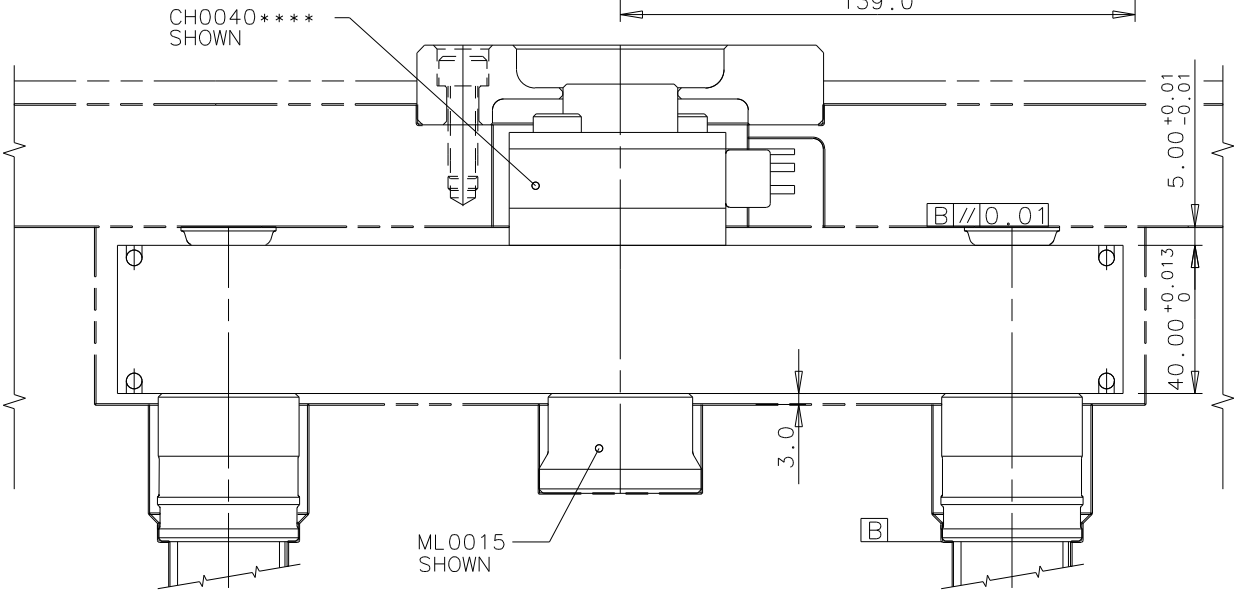
Mold Masters

X Sub Manifold (Non-Valve) w/ Top & Btm Htr
07.02.050B



NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





X = 75 SHOWN

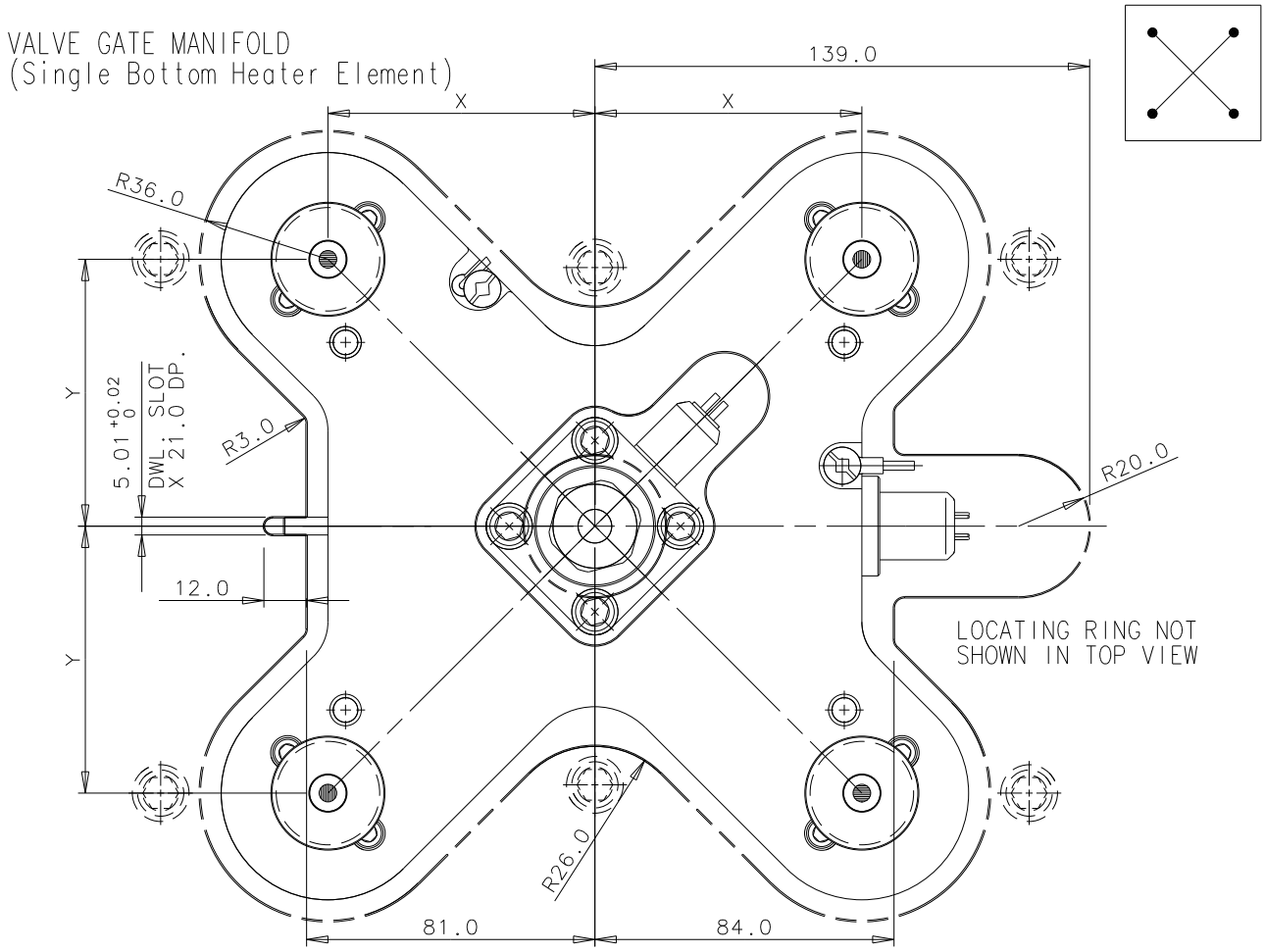
NOZZLES
07.01

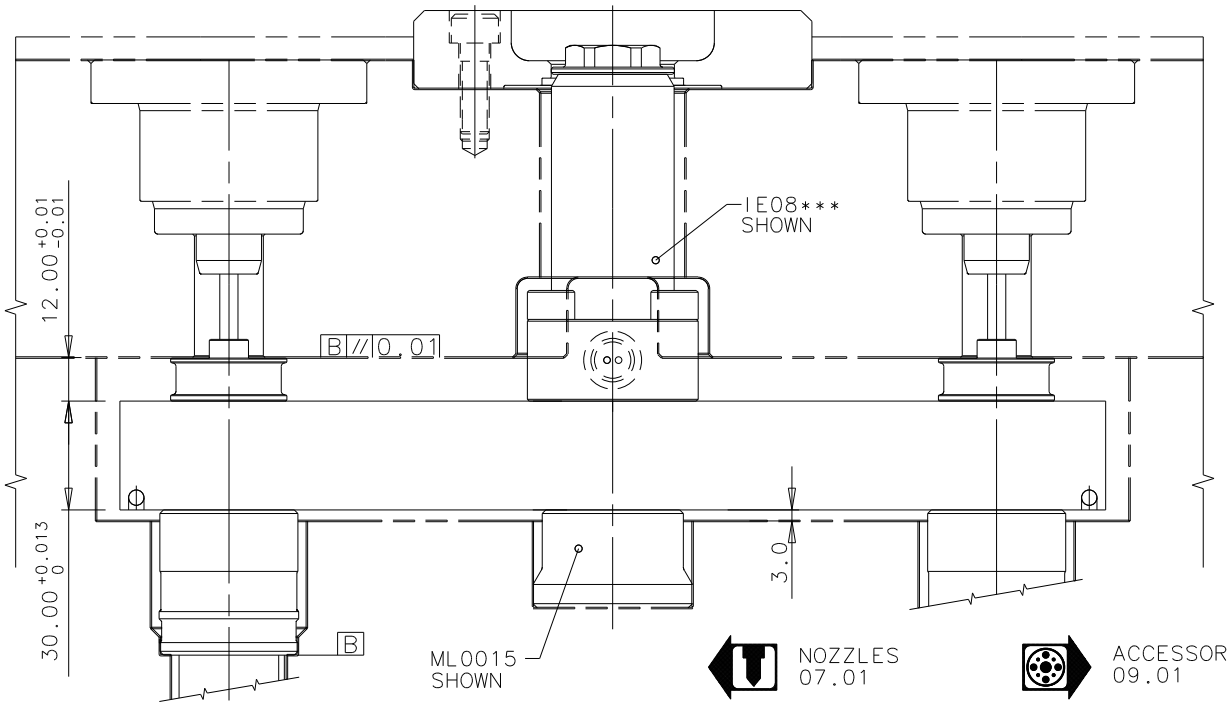
ACCESSORIES
09.01

MANIFOLD
RANGES
07.02.001

MANIFOLD
COMPONENTS
10.01

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X = 75 SHOWN

NOZZLES 07.01

ACCESSORIES 09.01

MANIFOLD RANGES 07.02.001

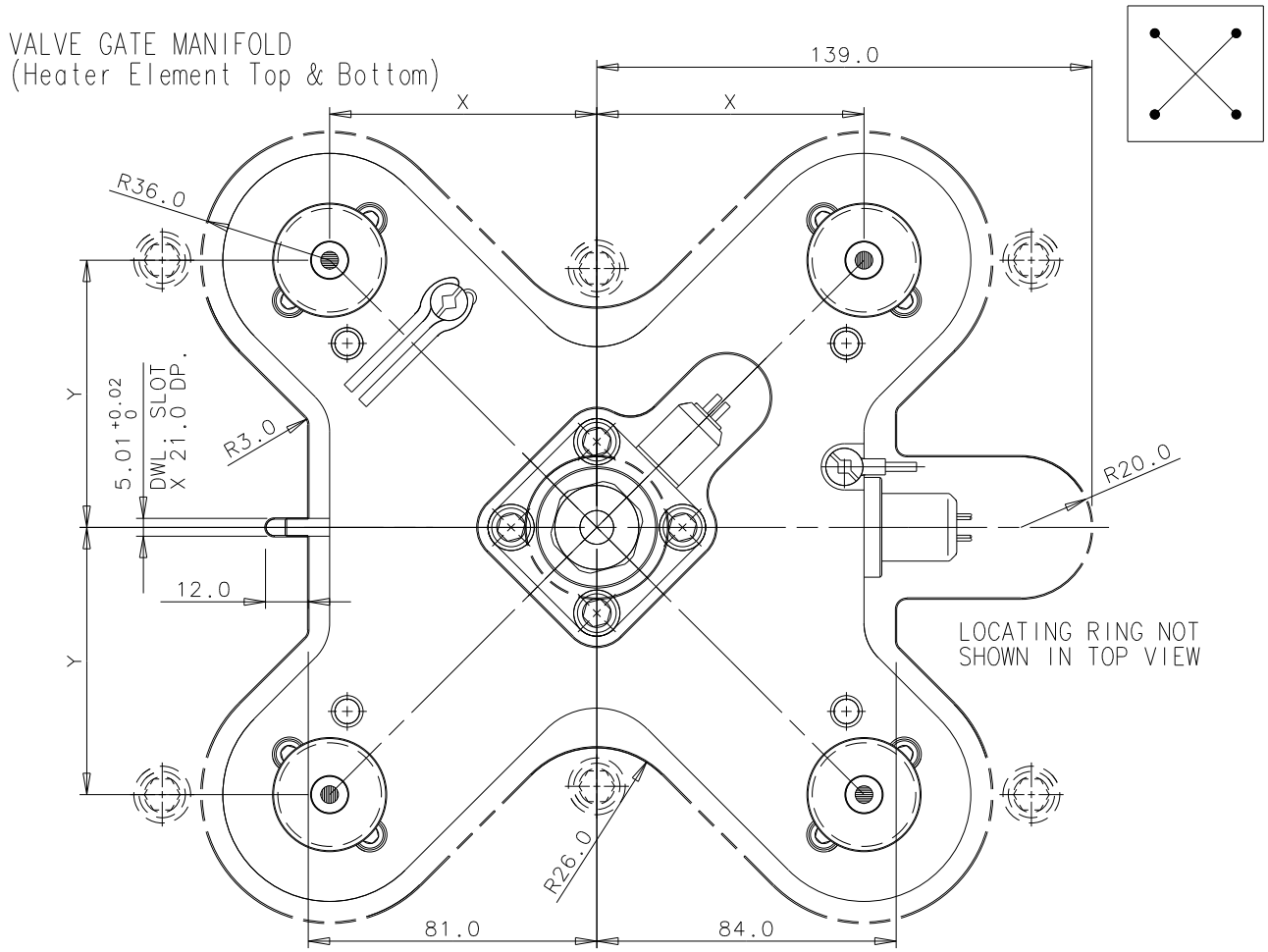
MANIFOLD COMPONENTS 10.01

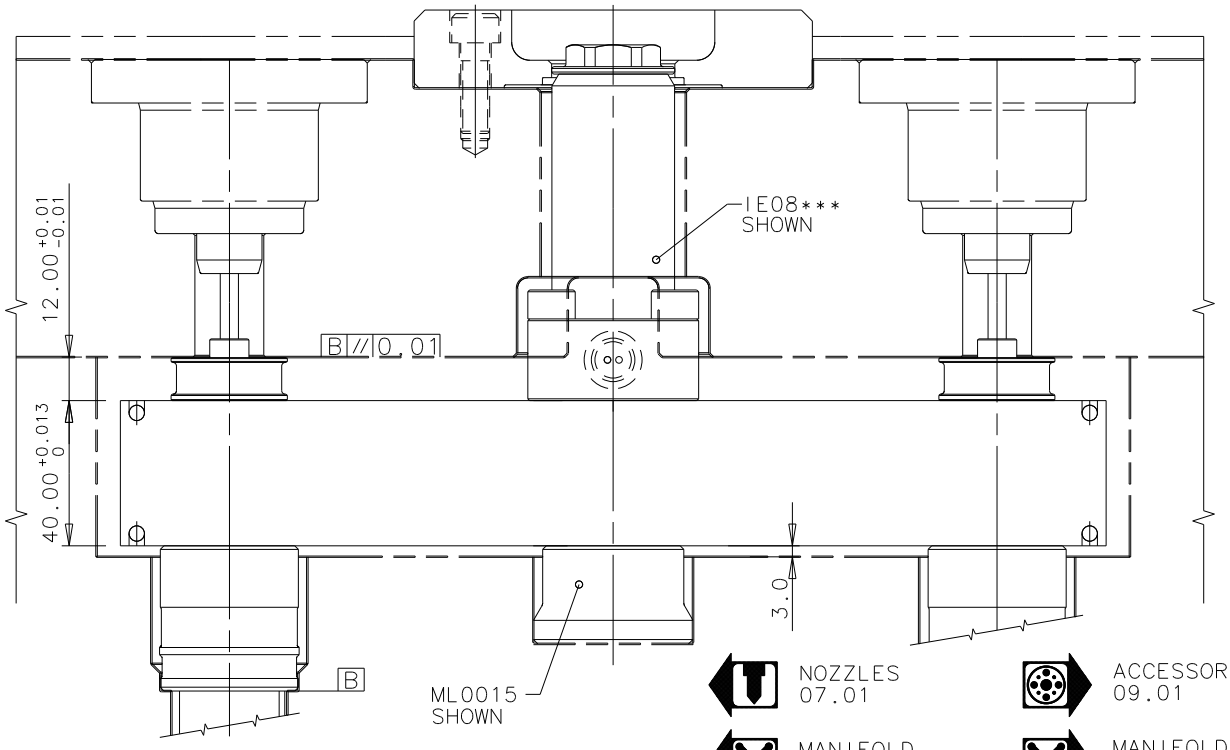
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X Sub Manifold (Valve) w/ Top & Btm Htr

07.02.051B





X = 75 SHOWN

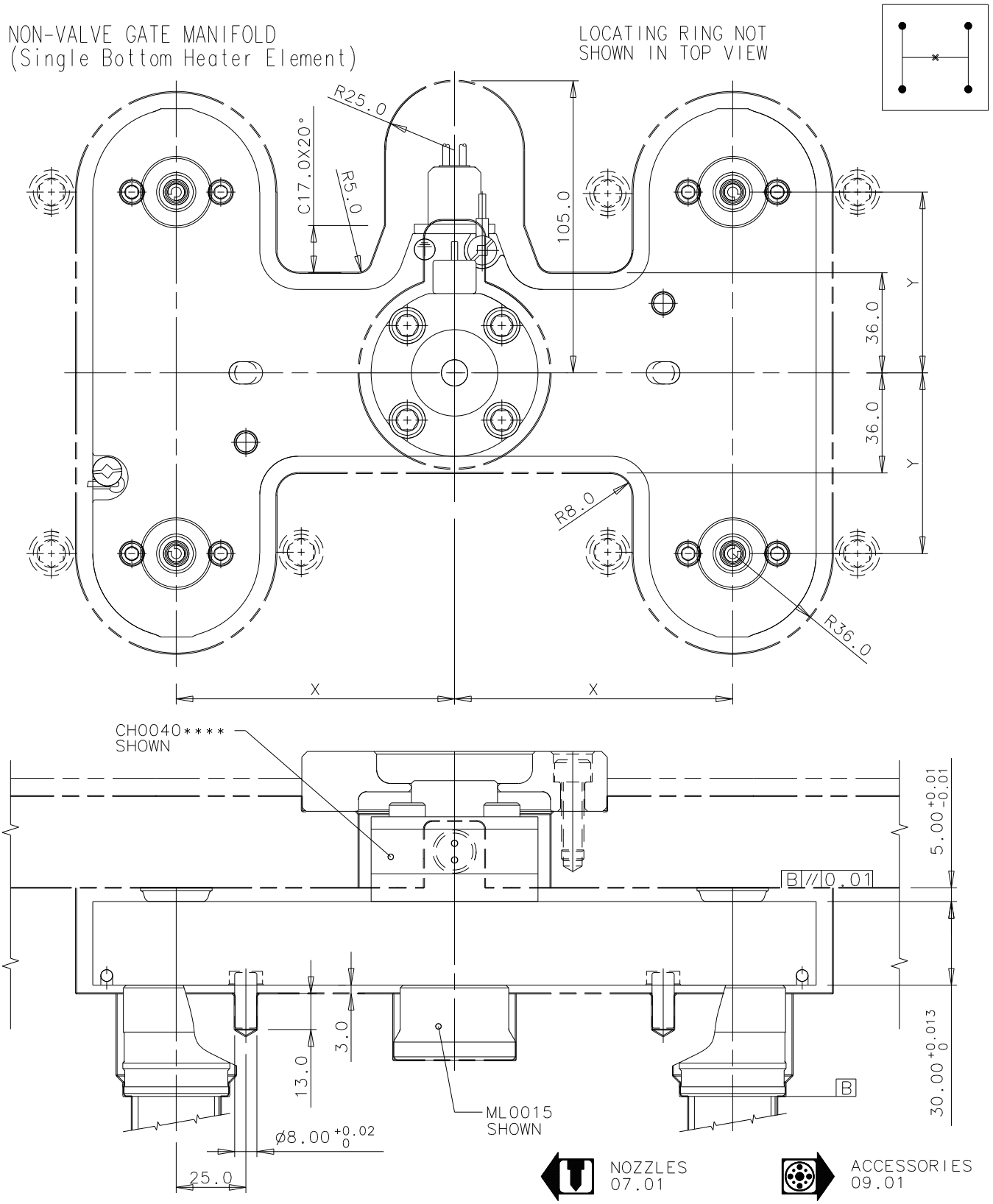
NOZZLES 07.01

ACCESSORIES 09.01

MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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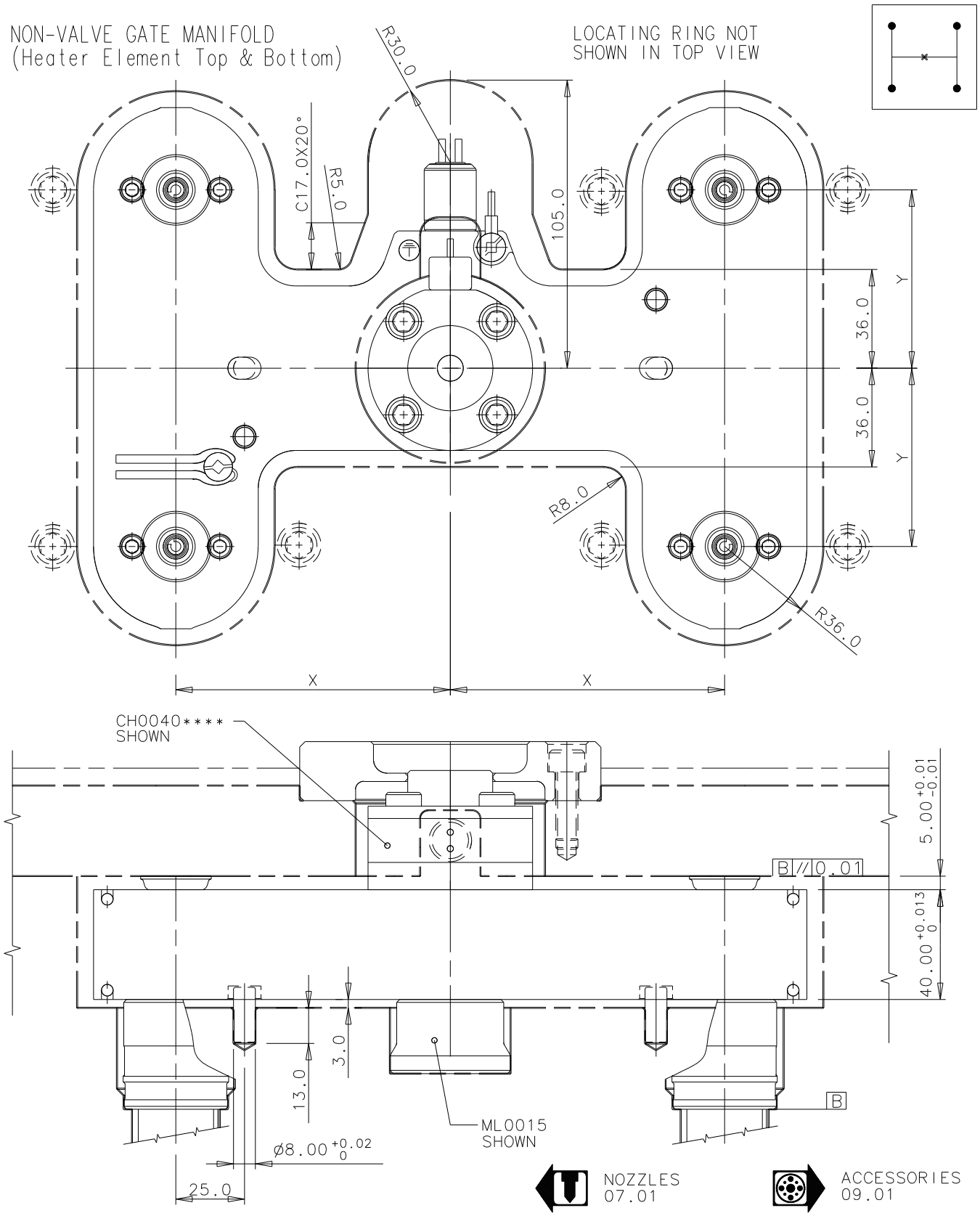


X = 100 / Y = 65 SHOWN

NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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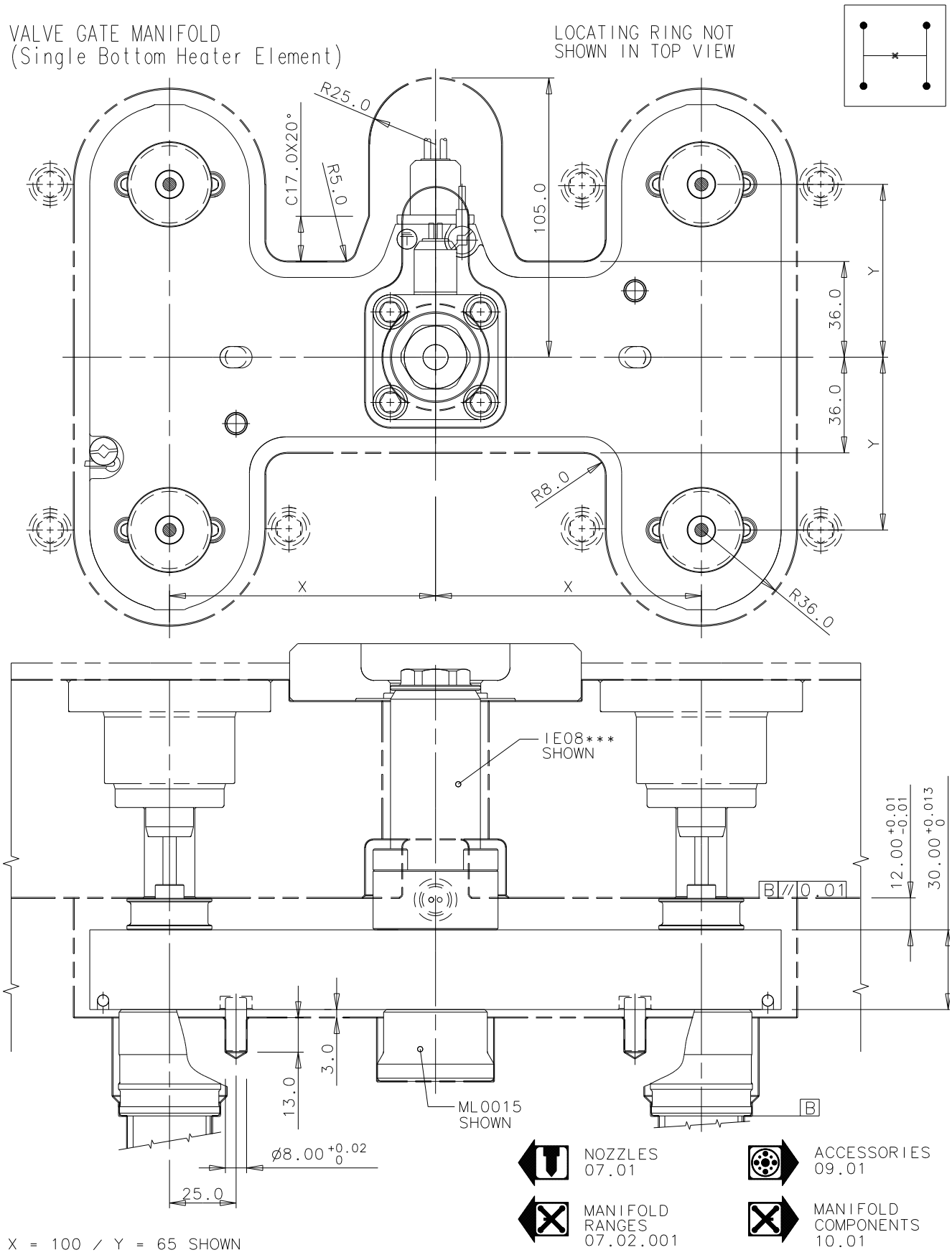
Mold Masters



X = 100 / Y = 65 SHOWN

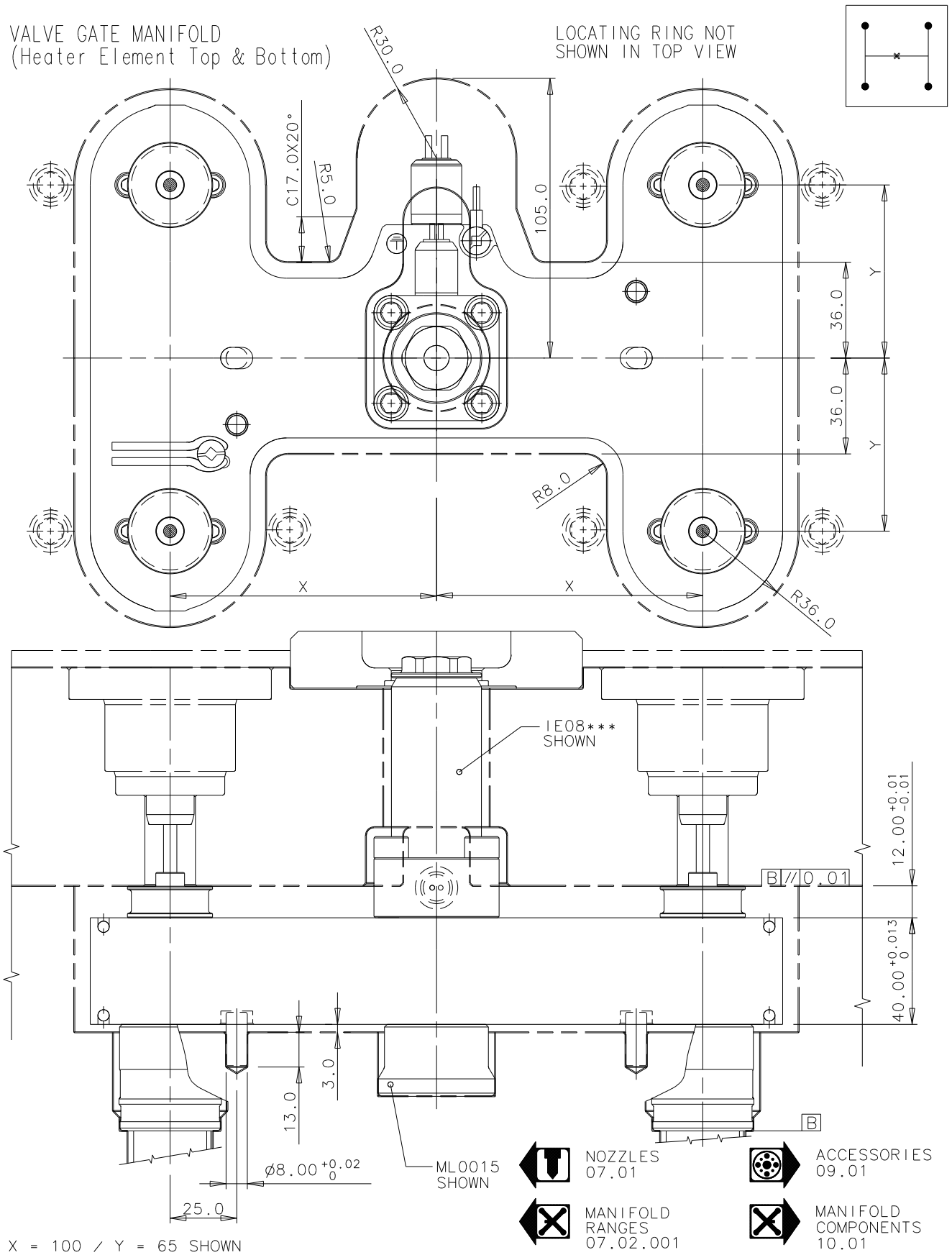
NOZZLES 07.01
ACCESSORIES 09.01
MANIFOLD RANGES 07.02.001
MANIFOLD COMPONENTS 10.01

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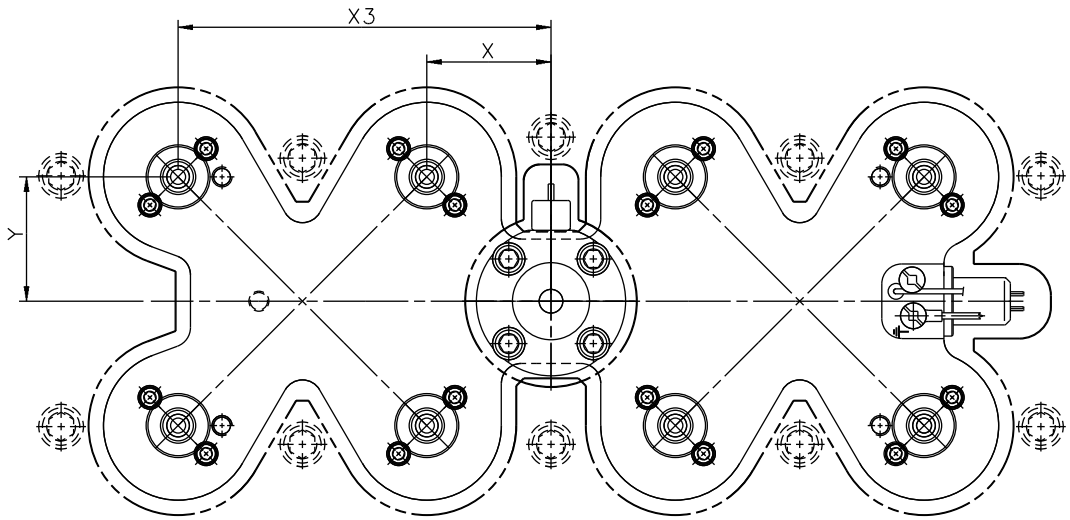
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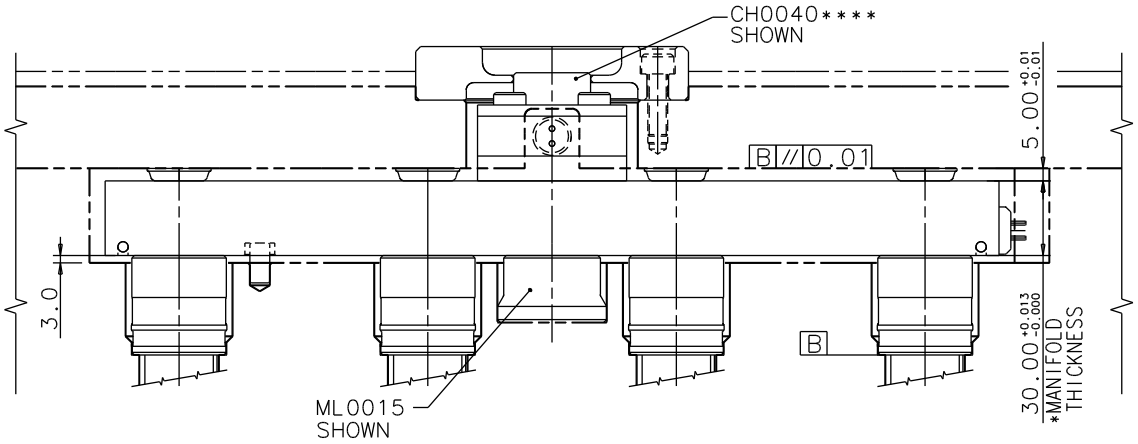


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SPRUE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION
PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO Ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY MOLD-MASTERS).

X,Y = 50 SHOWN

NOZZLES 07.01

ACCESSORIES 09.01

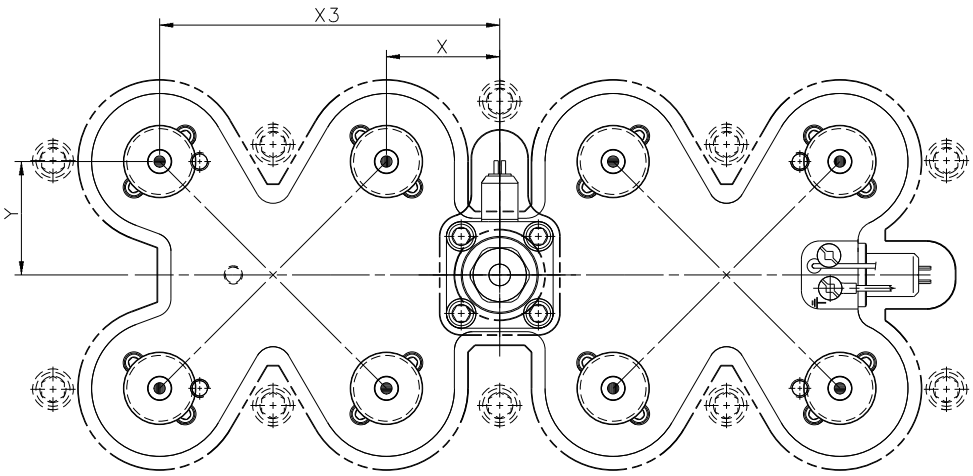
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

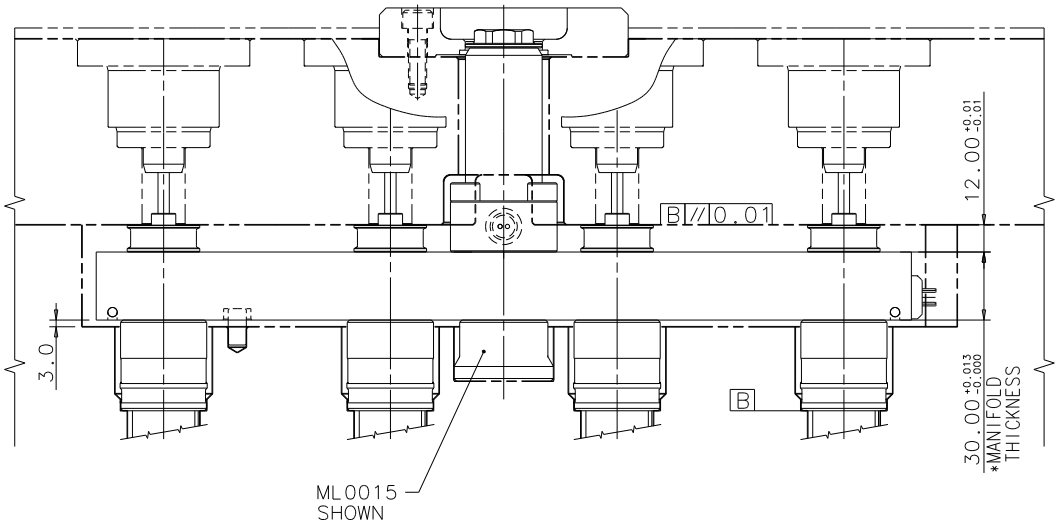
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Mold Masters

VALVE GATE MANIFOLD



MANIFOLD CUTOUT SHOWN FOR REPRESENTATION
PURPOSES ONLY AND MAY NOT BE EXACTLY AS SHOWN



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN HAVING RUNNER CHANNELS UP TO ø10.0mm MAX.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY MOLD-MASTERS).

X,Y = 50 SHOWN

NOZZLES 07.01

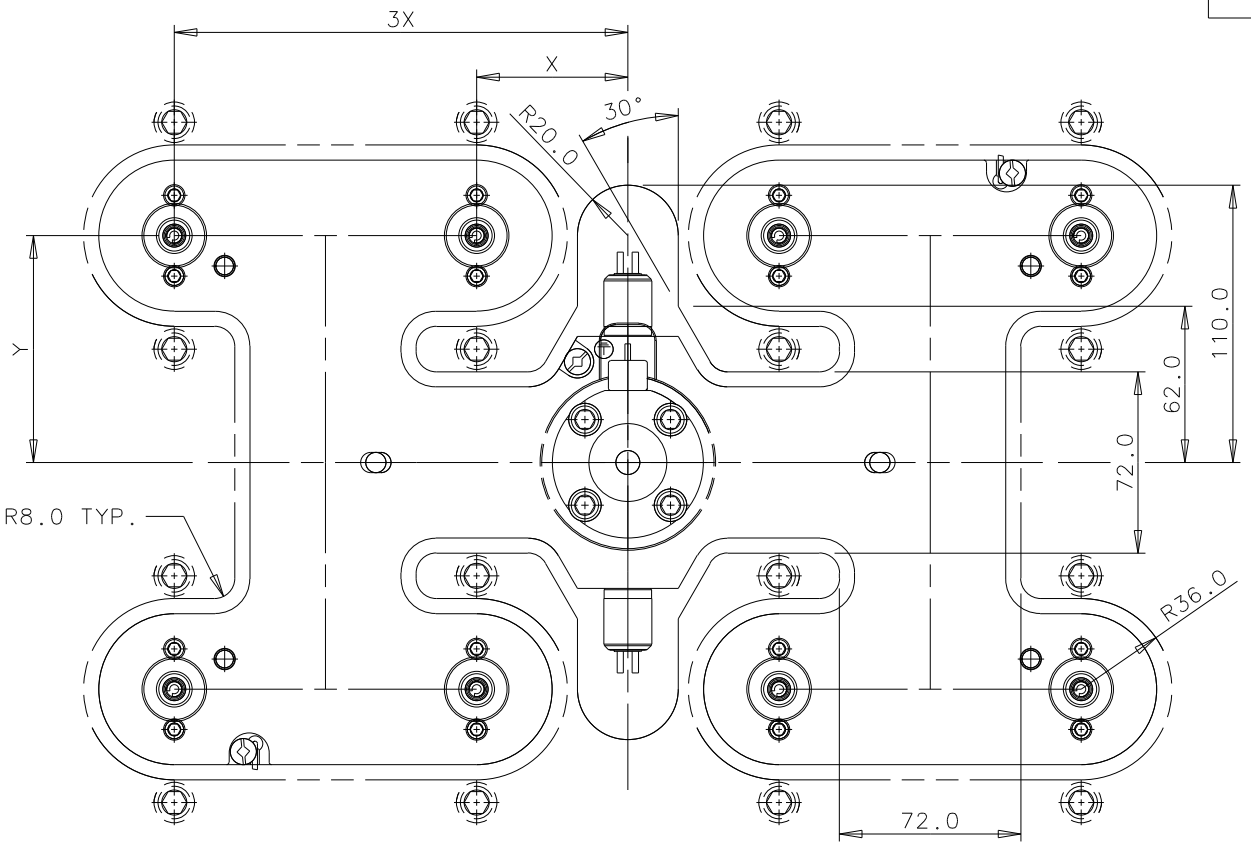
ACCESSORIES 09.01

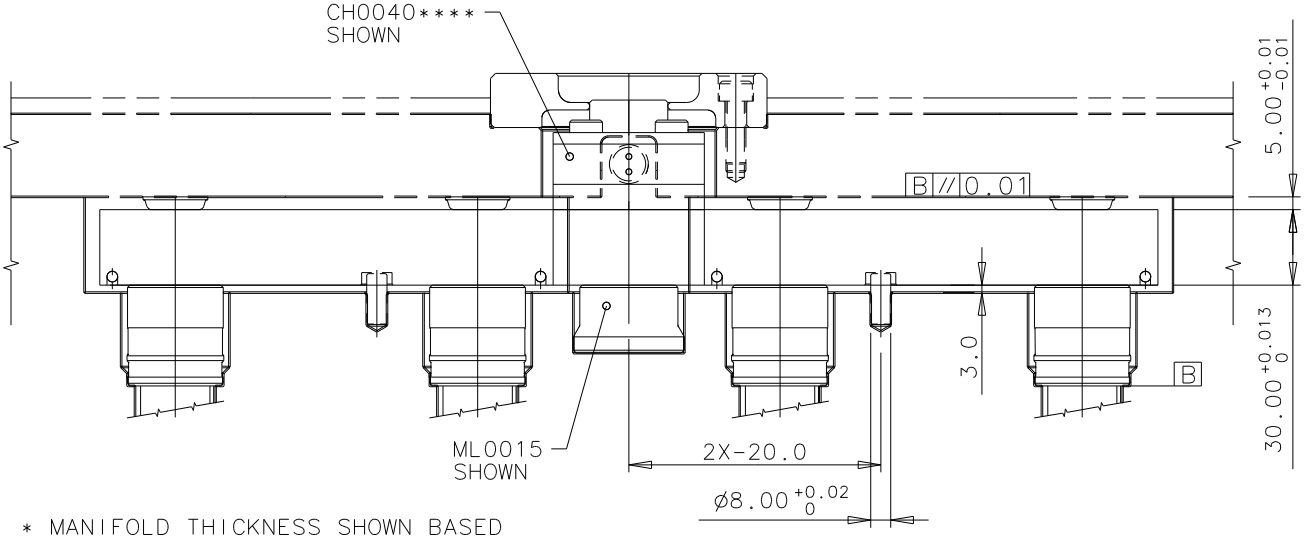
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Single Bottom Heater Element)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 90 SHOWN

NOZZLES 07.01

ACCESSORIES 09.01

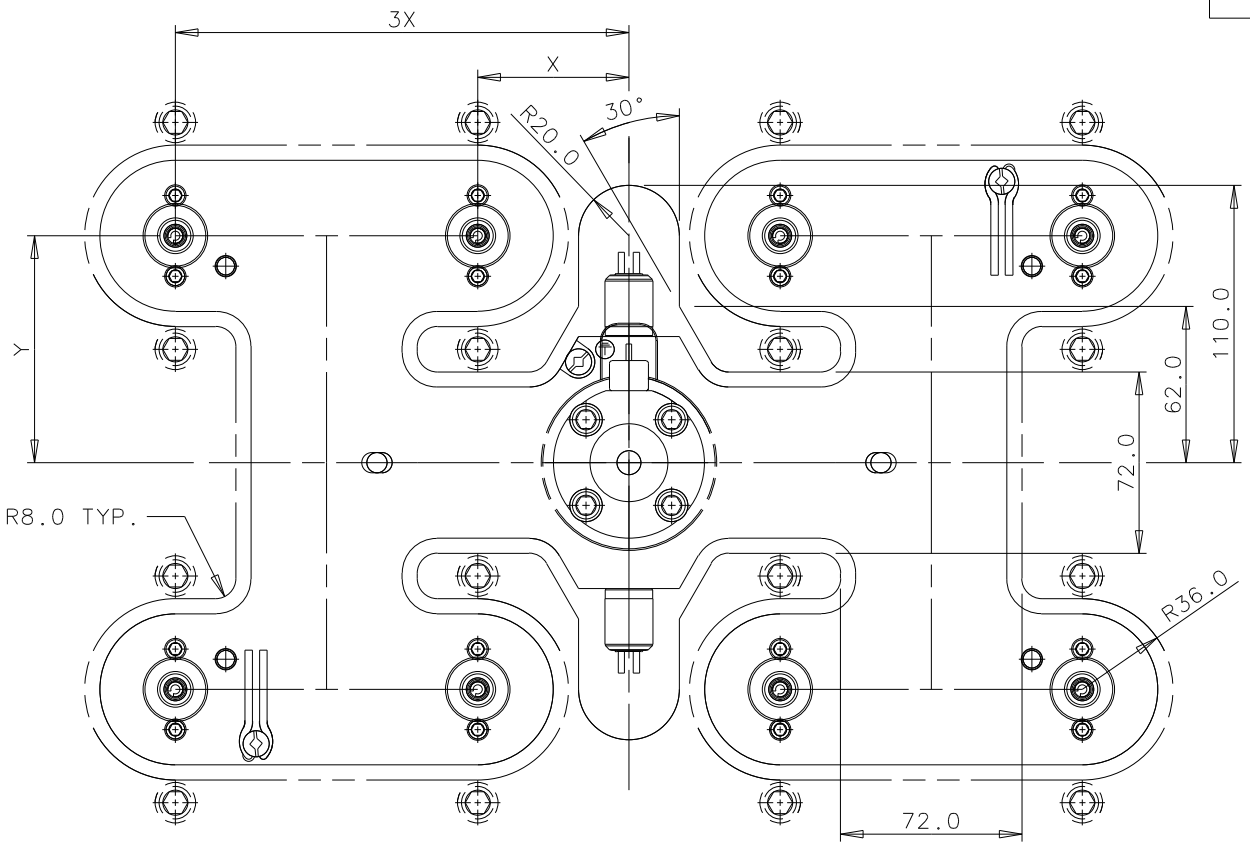
MANIFOLD RANGES 07.02.001

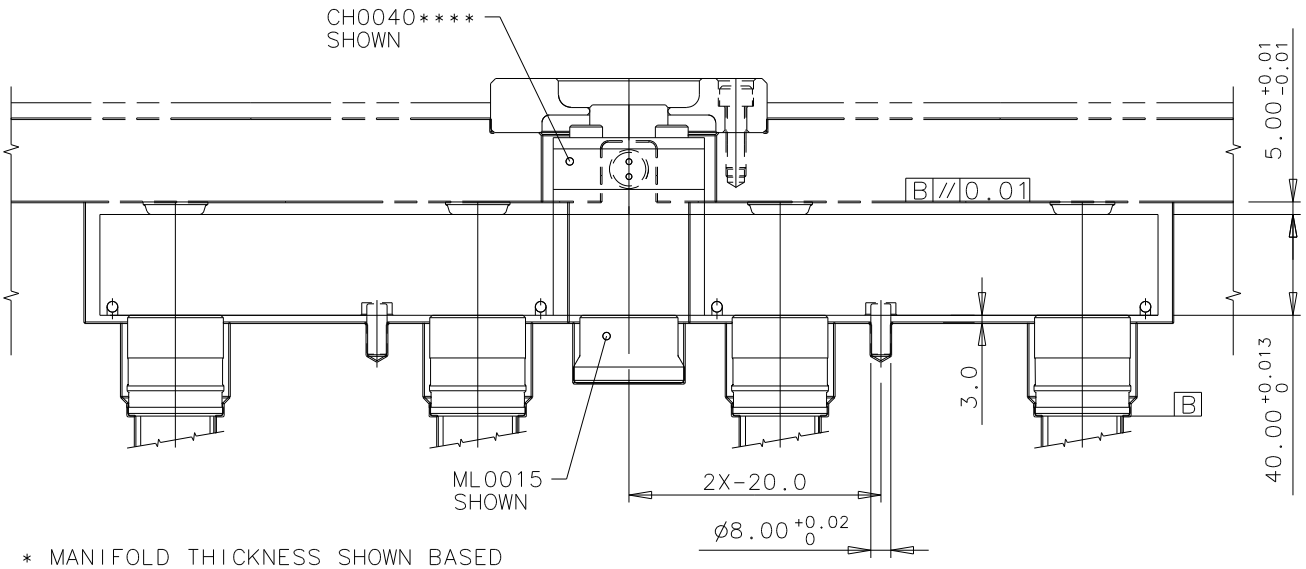
MANIFOLD COMPONENTS 10.01

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NON-VALVE GATE MANIFOLD
(Heater Element Top & Bottom)





* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 90 SHOWN

NOZZLES 07.01

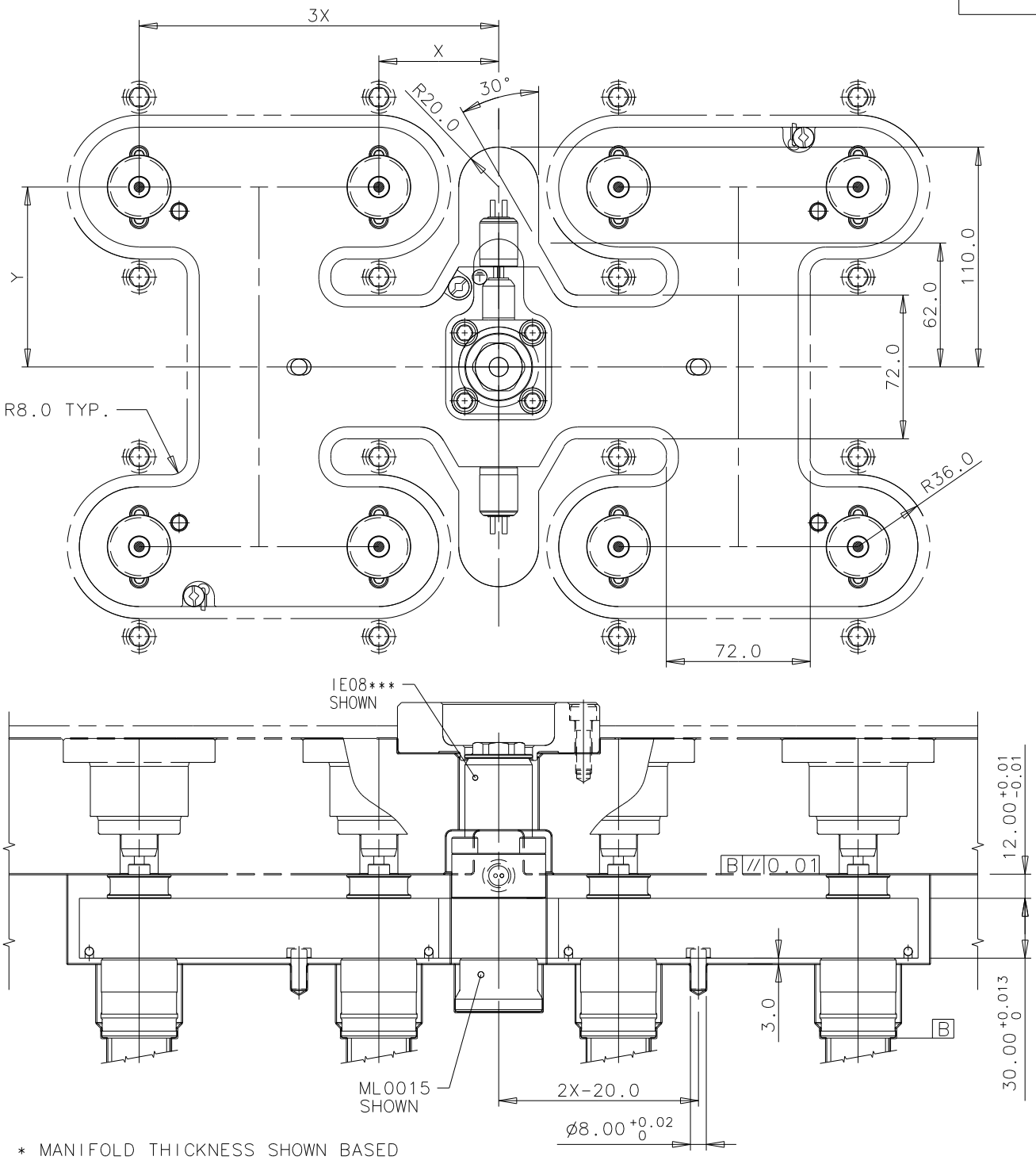
ACCESSORIES 09.01

MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Single Bottom Heater Element)



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 90 SHOWN

NOZZLES 07.01

ACCESSORIES 09.01

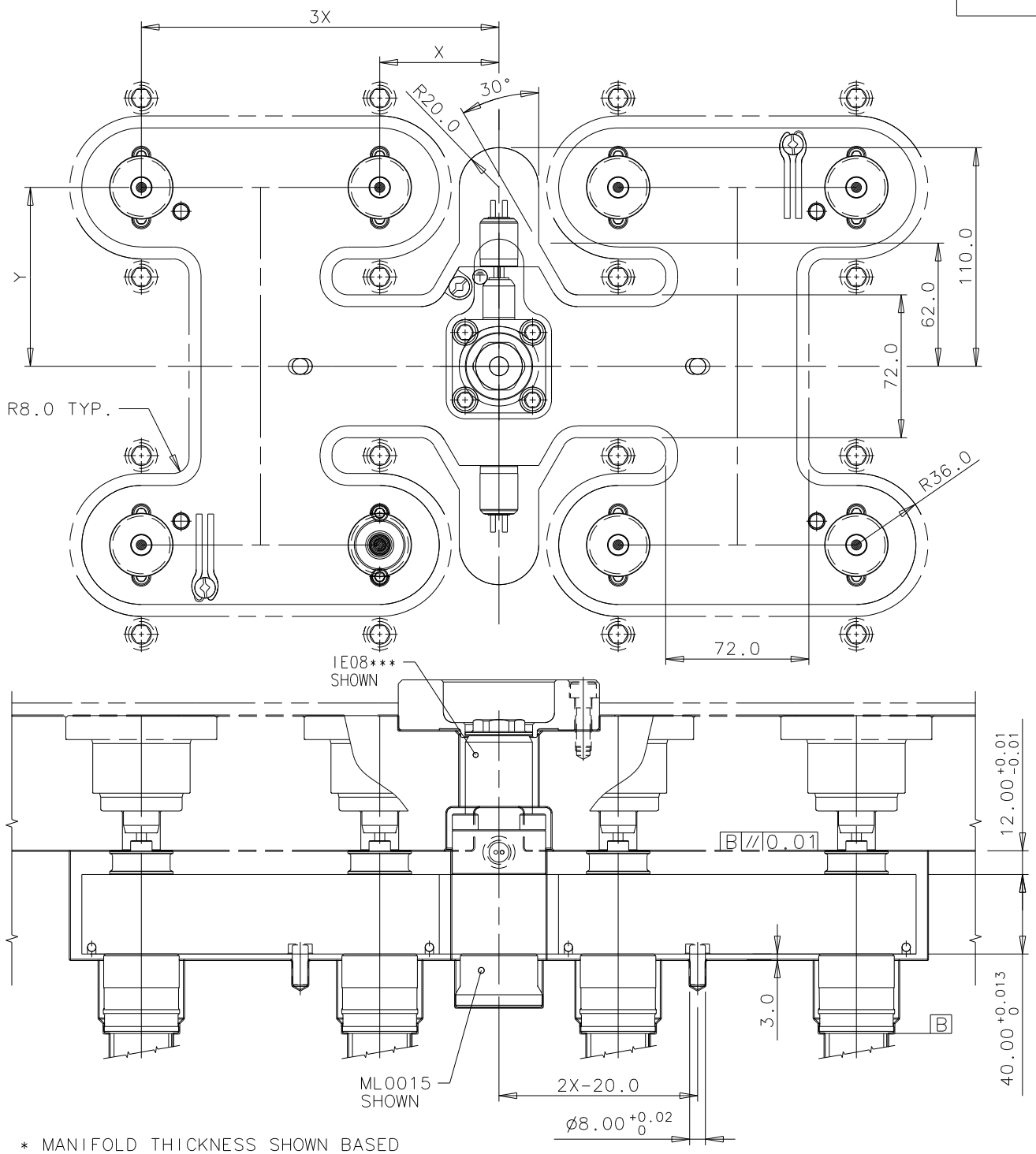
MANIFOLD RANGES 07.02.001

MANIFOLD COMPONENTS 10.01

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VALVE GATE MANIFOLD
(Heater Element Top & Bottom)



* MANIFOLD THICKNESS SHOWN BASED ON A SINGLE LEVEL DESIGN.

FOR MULTI-LEVEL DESIGNS, MANIFOLD THICKNESS WILL BE GREATER (TO BE DETERMINED BY DESIGN STAGE).

X = 60 / Y = 90 SHOWN

NOZZLES 07.01

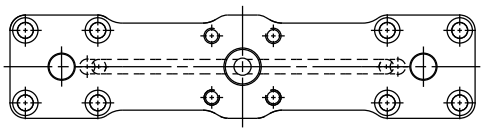
ACCESSORIES 09.01

MANIFOLD RANGES 07.02.001

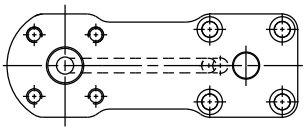
MANIFOLD COMPONENTS 10.01

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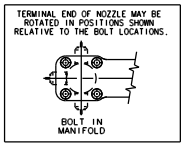
BOLT-IN STYLE MANIFOLDS TO BE USED
WITH HEATER PLATES.

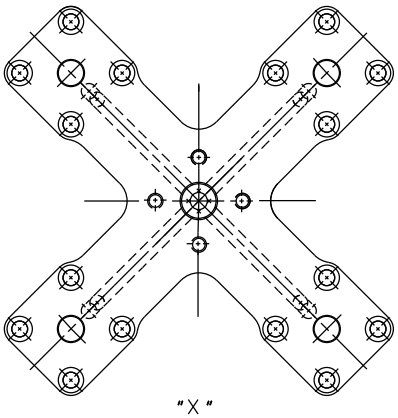


"2 IN A ROW"

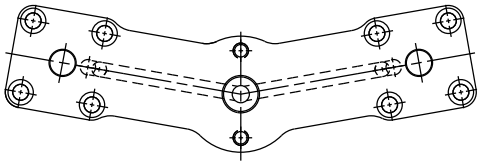


"OFFSET"

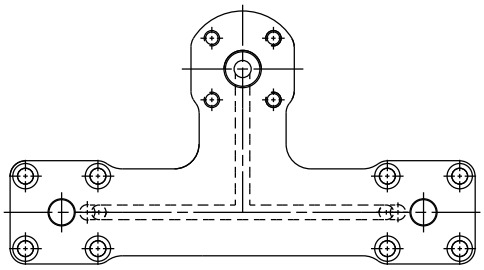




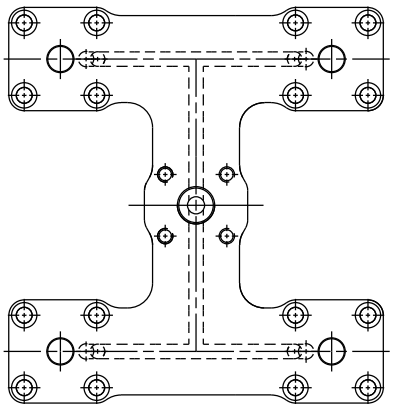
"X"



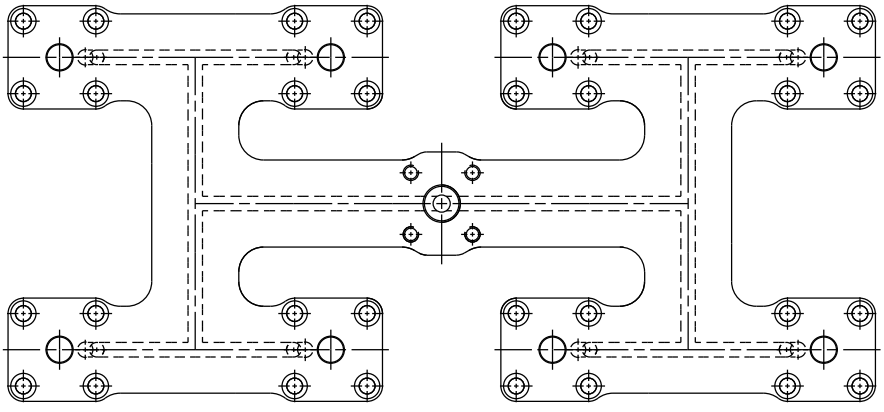
"V"



"T"



"H"

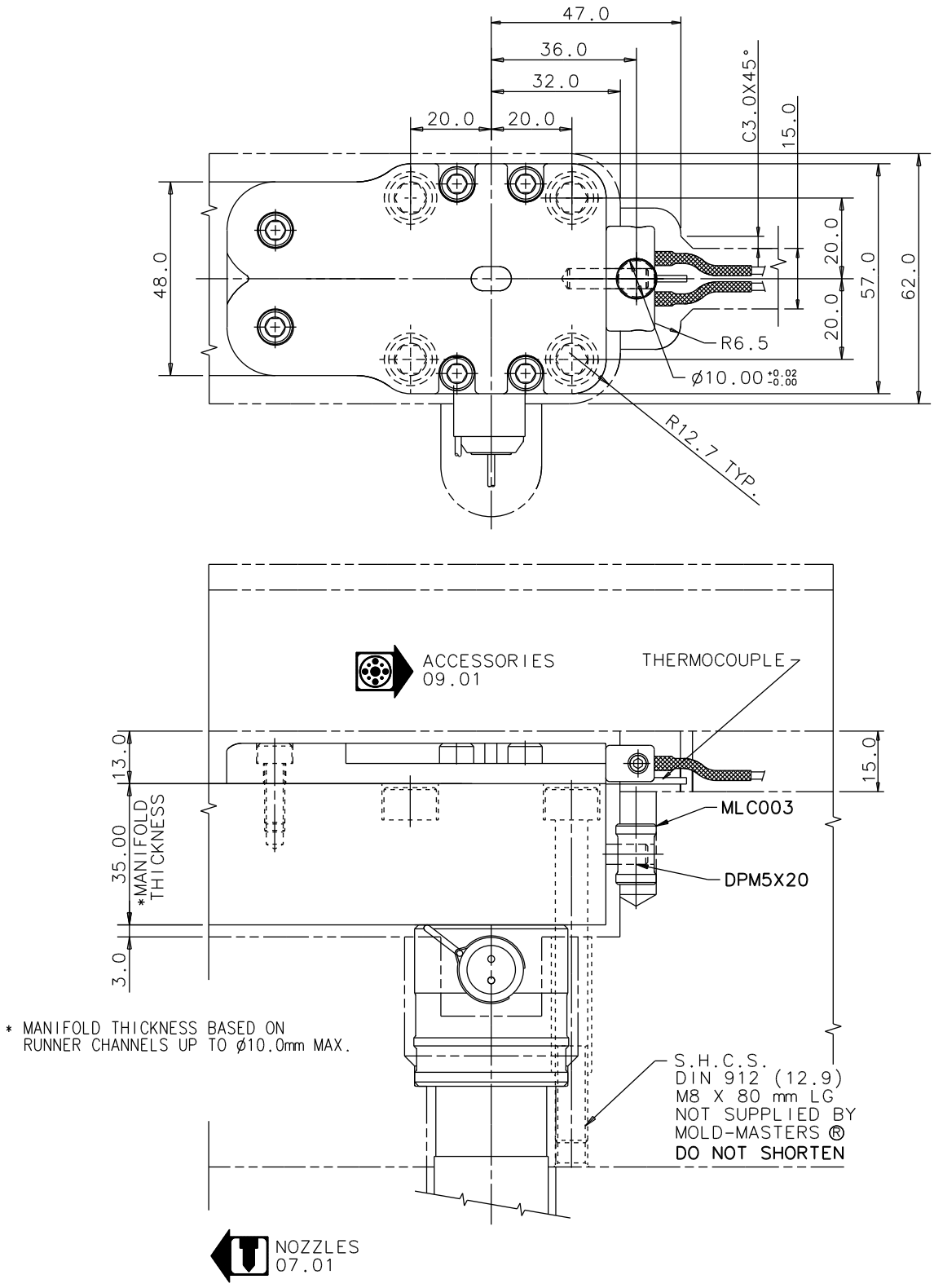


"HH"

OTHER MANIFOLD CONFIGURATIONS AVAILABLE ON REQUEST.
MAIN MANIFOLDS CAN BE USED TO ACHIEVE HIGHER NUMBER OF CAVITIES.

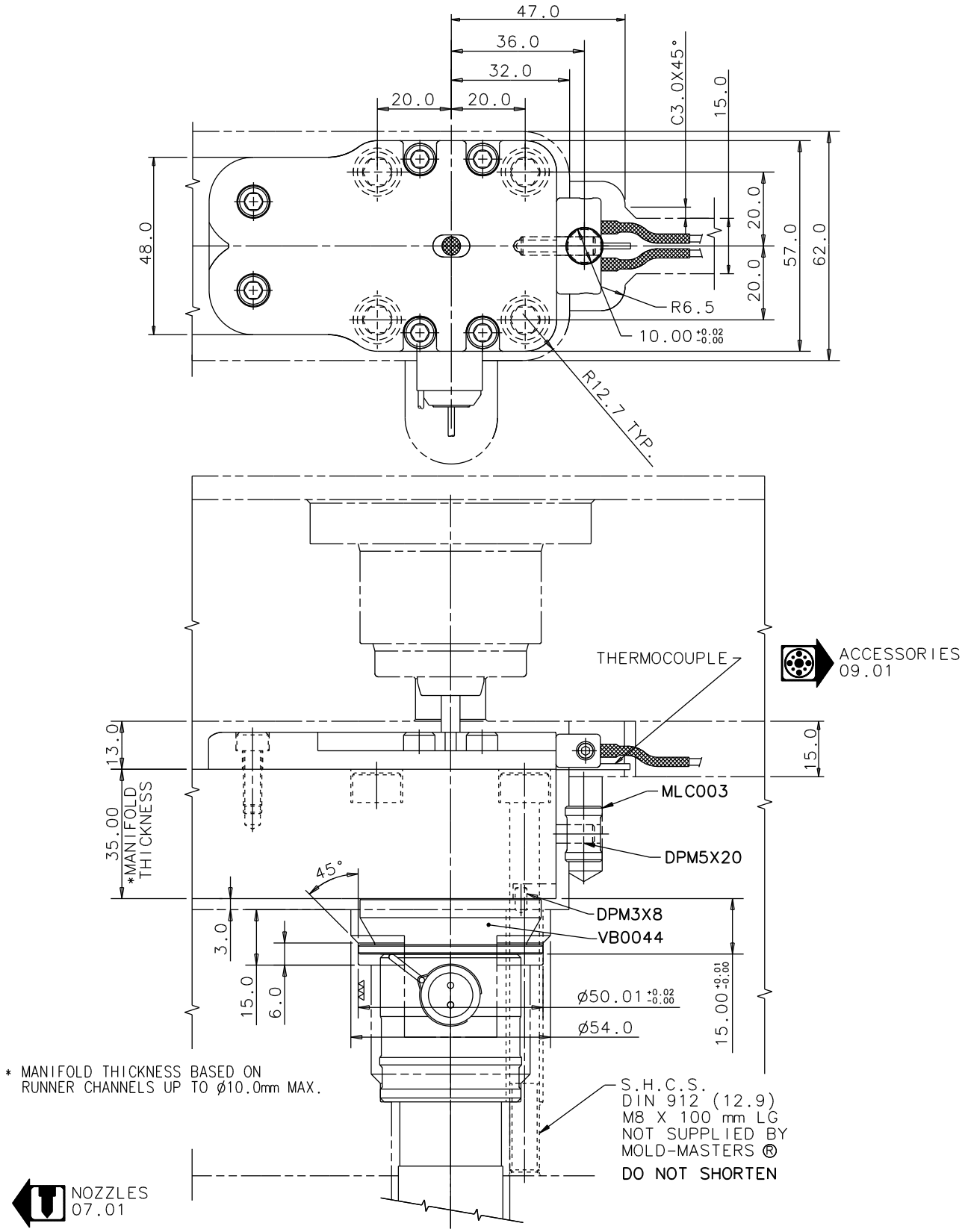
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TYPICAL MANIFOLD END FOR MASTER SERIES DECI HEATER-PLATE MANIFOLD SYSTEM.
DIFFERENT HEATER PLATES MAY BE PLACED ON THE MANIFOLD AS REQUIRED BY SYSTEM.

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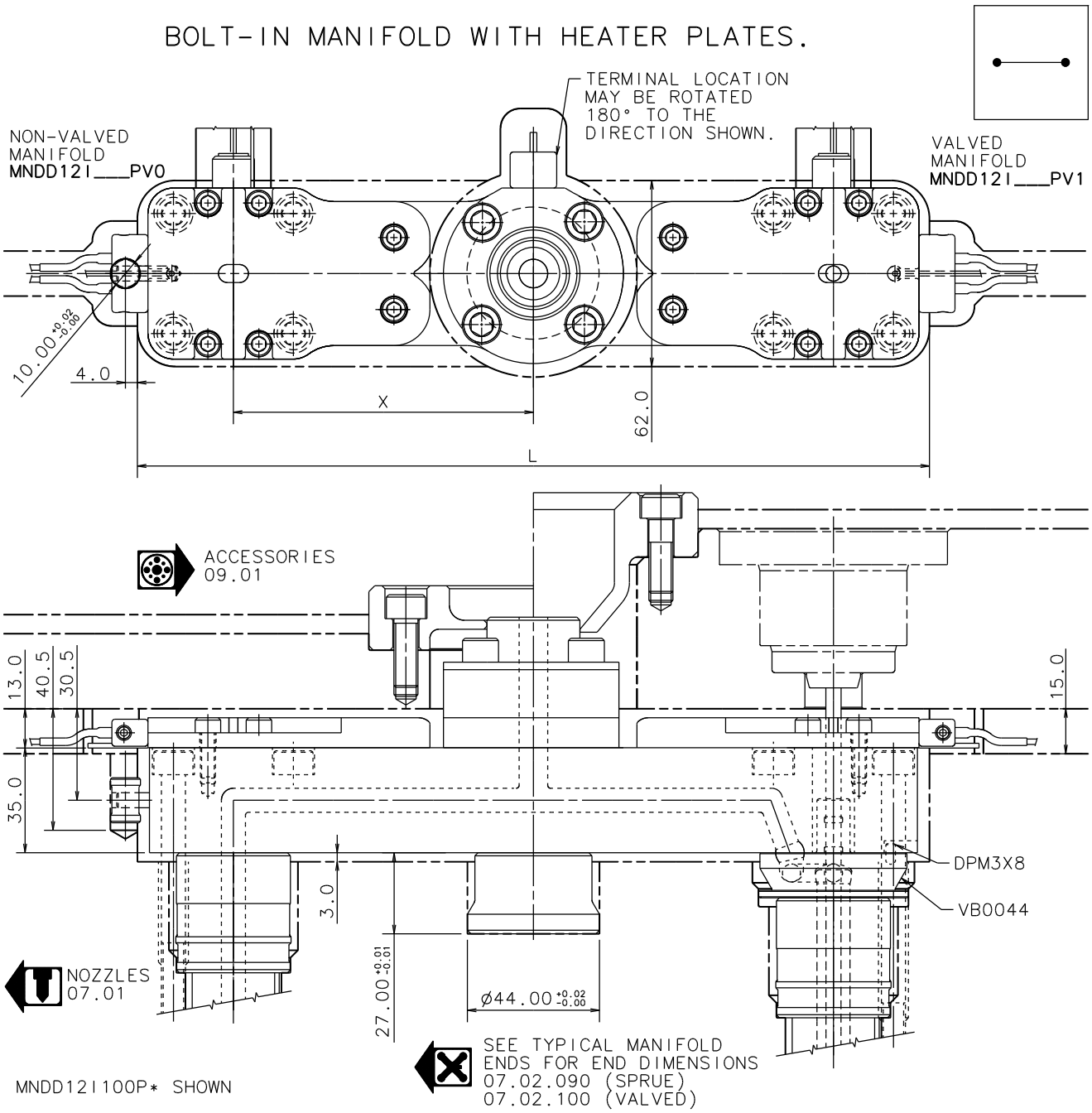


TYPICAL MANIFOLD END FOR MASTER SERIES DECI HEATER PLATE MANIFOLD SYSTEM.
DIFFERENT HEATER PLATES MAY BE PLACED ON THE MANIFOLD AS REQUIRED BY SYSTEM.

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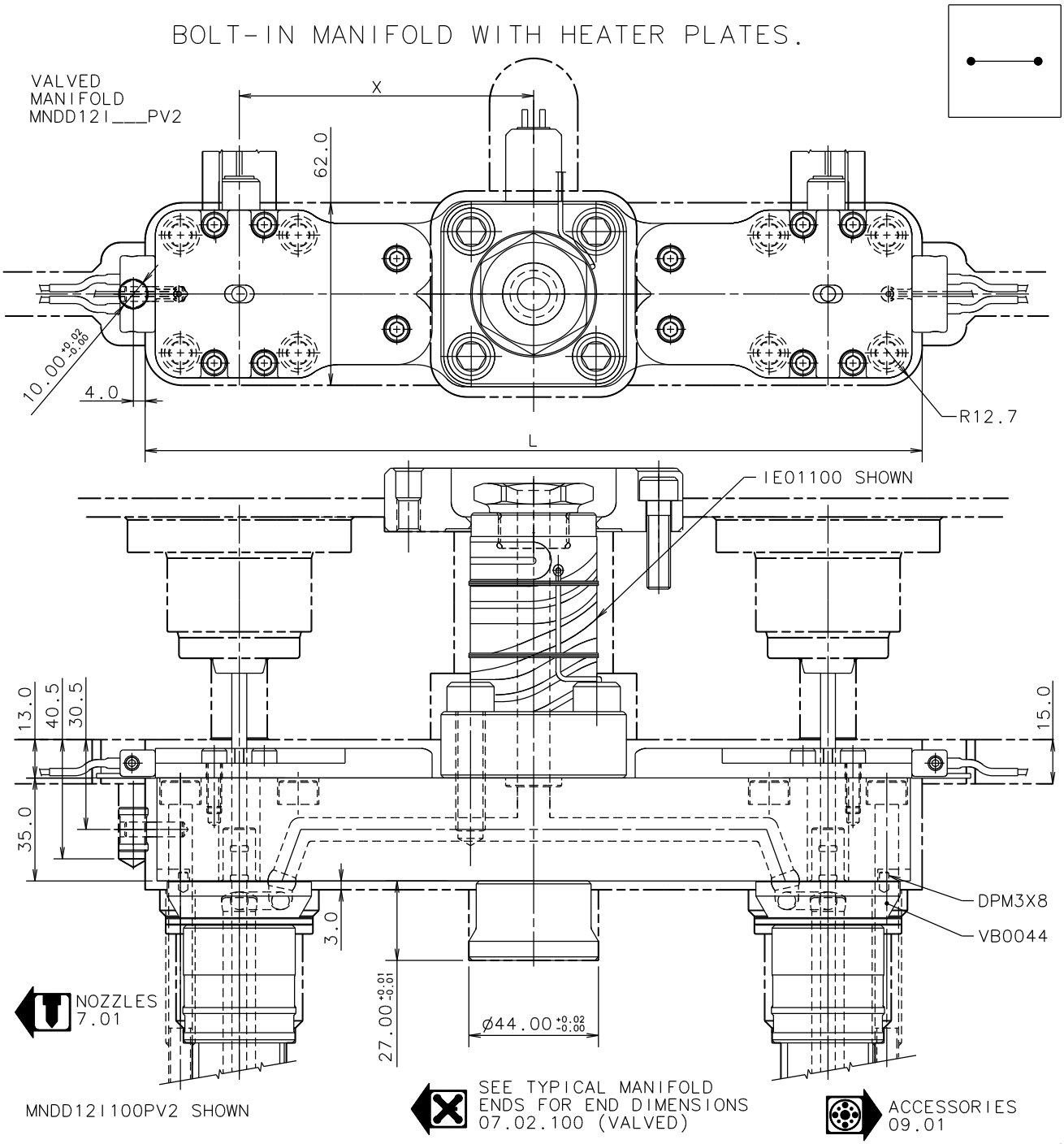
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BOLT-IN MANIFOLD WITH HEATER PLATES.



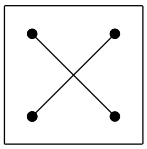
MANIFOLD OPTIONS *: ADD V1 FOR VALVED MANIFOLD# AND V0 FOR SPRUE MANIFOLD#							
MANIFOLD #	X	L	RUNNER VOLUME. (cm^3)	HEATER PLATES REQUIRED			
				HEATER PLATE #	QTY.	HEATER PLATE #	QTY.
MNDD12I075P*	75.00	214.0	9.4	HP0102BR	2	———	—
MNDD12I100P*	100.00	264.0	11.9	HP0101BR	2	———	—
MNDD12I125P*	125.00	314.0	14.5	HP0100BR	2	———	—
MNDD12I150P*	150.00	364.0	17.0	HP0102BR	2	HP0103BR	2
MNDD12I175P*	175.00	414.0	19.5	HP0101BR	2	HP0103BR	2
MNDD12I200P*	200.00	464.0	22.0	HP0100BR	2	HP0103BR	2
MNDD12I225P*	225.00	514.0	24.5	HP0101BR	2	HP0104BR	2
MNDD12I250P*	250.00	564.0	27.0	HP0100BR	2	HP0104BR	2

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MANIFOLD #	X	L	RUNNER VOLUME. (cm^3)	HEATER PLATES REQUIRED			
				HEATER PLATE #	QTY.	HEATER PLATE #	QTY.
MNDD12I075PV2	75.00	214.0	9.4	HP0102BR	2	———	—
MNDD12I100PV2	100.00	264.0	11.9	HP0101BR	2	———	—
MNDD12I125PV2	125.00	314.0	14.5	HP0100BR	2	———	—
MNDD12I150PV2	150.00	364.0	17.0	HP0102BR	2	HP0103BR	2
MNDD12I175PV2	175.00	414.0	19.5	HP0101BR	2	HP0103BR	2
MNDD12I200PV2	200.00	464.0	22.0	HP0100BR	2	HP0103BR	2
MNDD12I225PV2	225.00	514.0	24.5	HP0101BR	2	HP0104BR	2
MNDD12I250PV2	250.00	564.0	27.0	HP0100BR	2	HP0104BR	2

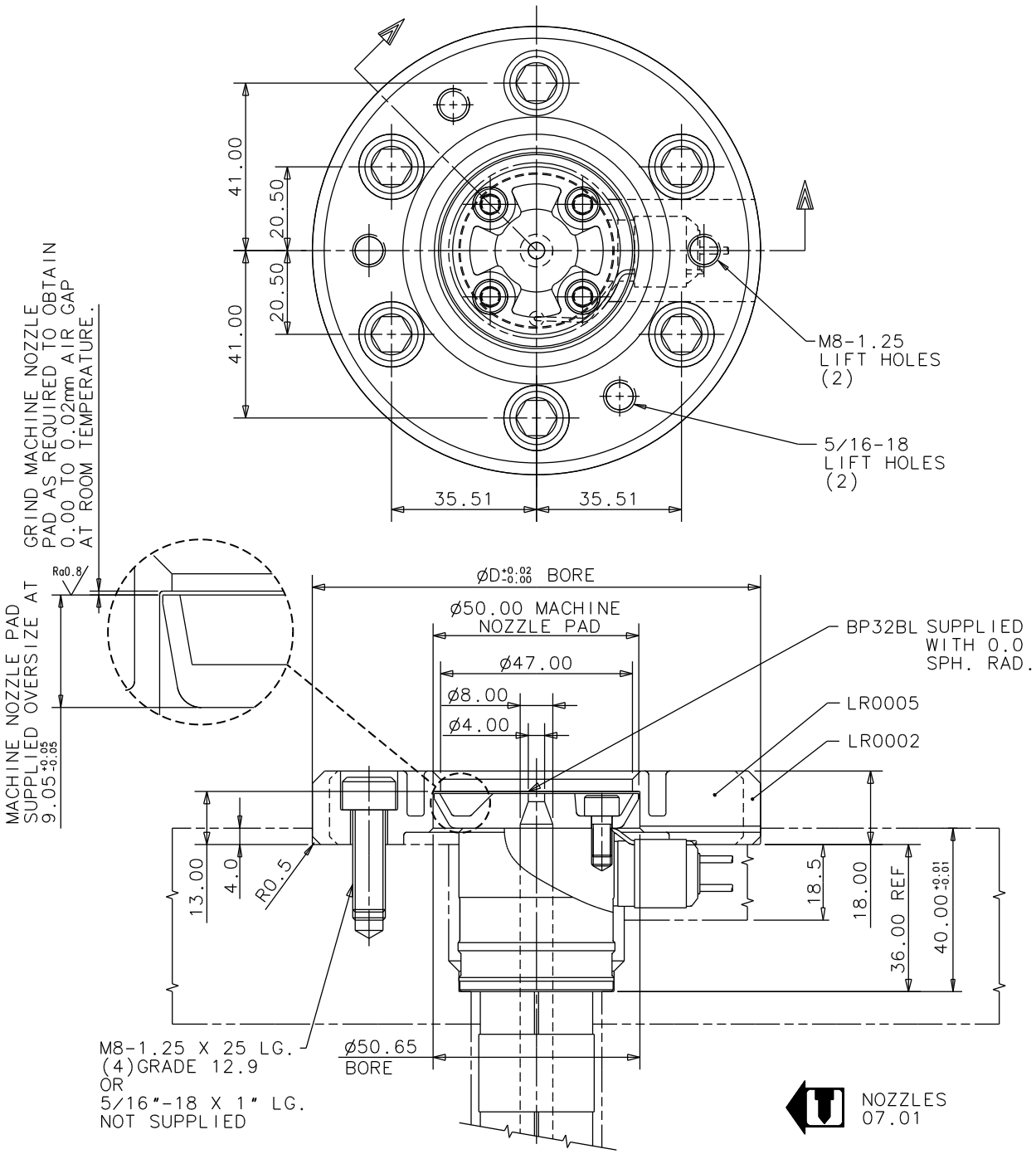
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BOLT-IN MANIFOLD WITH HEATER PLATES.

MANIFOLD OPTIONS *: ADD V1 FOR VALVED MANIFOLD# AND V0 FOR SPRUE MANIFOLD#							
MANIFOLD #	X	L	RUNNER VOLUME (cm^3)	HEATER PLATES REQUIRED			
				HEATER PLATE #	QTY.	HEATER PLATE #	QTY.
MNDD10X050P*	50.00	179.4	17.2	HP0102BR	4	———	—
MNDD10X075P*	75.00	228.7	24.3	HP0102BR	4	———	—
MNDD10X100P*	100.00	278.7	31.4	HP0100BR	4	———	—
MNDD10X125P*	125.00	328.7	38.5	HP0102BR	4	HP0103BR	4
MNDD10X150P*	150.00	378.7	45.6	HP0101BR	4	HP0103BR	4
MNDD10X175P*	175.00	428.7	52.8	HP0101BR	4	HP0104BR	4

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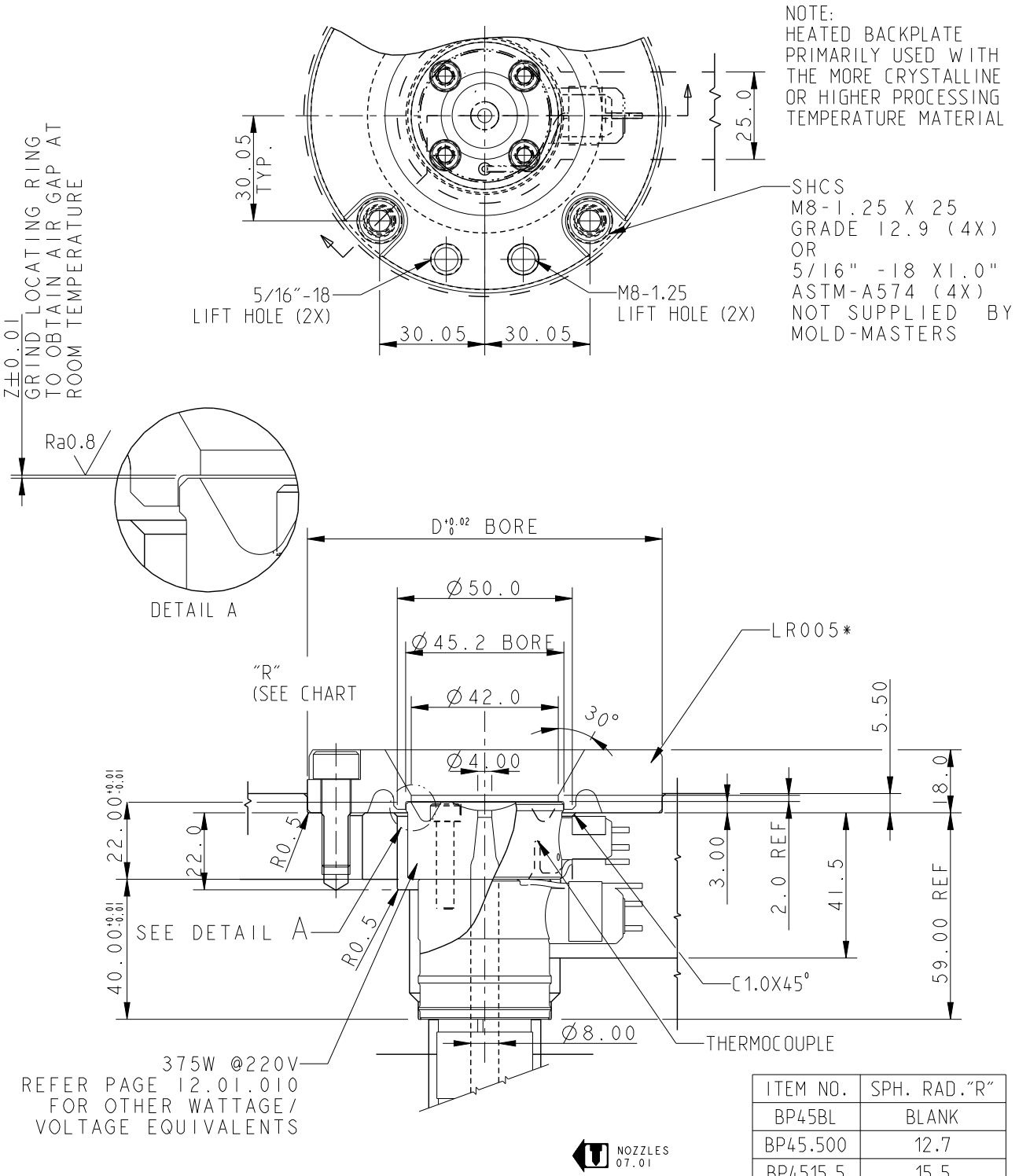


SINGLE NOZZLE OPTIONS		
LOCATING RING #	D	USED WITH:
LR0002	109.77	Ø110.00 BORE IN FIXED PLATTEN
LR0005	101.36	Ø101.60 BORE IN FIXED PLATTEN

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Single Nozzle (Sprue) w/ Heated Machine Nozzle Pad

07.03.015

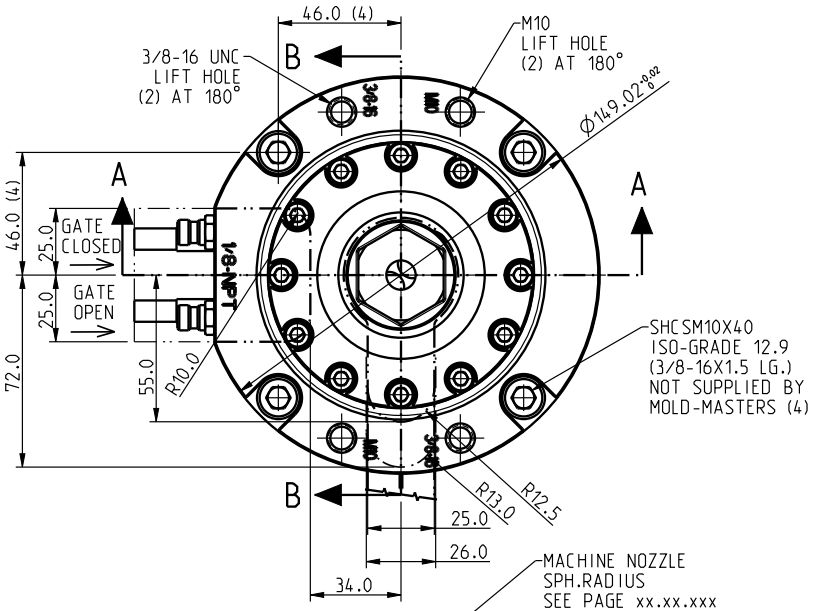


ITEM NO.	SPH. RAD."R"
BP45BL	BLANK
BP45.500	12.7
BP4515.5	15.5
BP45.750	19.1
BP4540.0	40.0

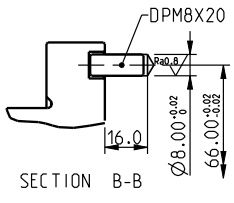
SINGLE NOZZLE OPTIONS		
LOCATING RING#	Ø D +0.02 0	USED WITH:
LR0055	Ø101.36	101.60 BORE IN FIXED PLATEN
LR0056	Ø109.77	110.00 BORE IN FIXED PLATEN

	ΔT=Tp-Tm (PROCESS TEMP.-MOLD TEMP.)			
GAP AT ROOM TEMPERATURE	150°C	200°C	250°C	300°C
"Z" +/-0.01	0.04	0.07	0.10	0.13

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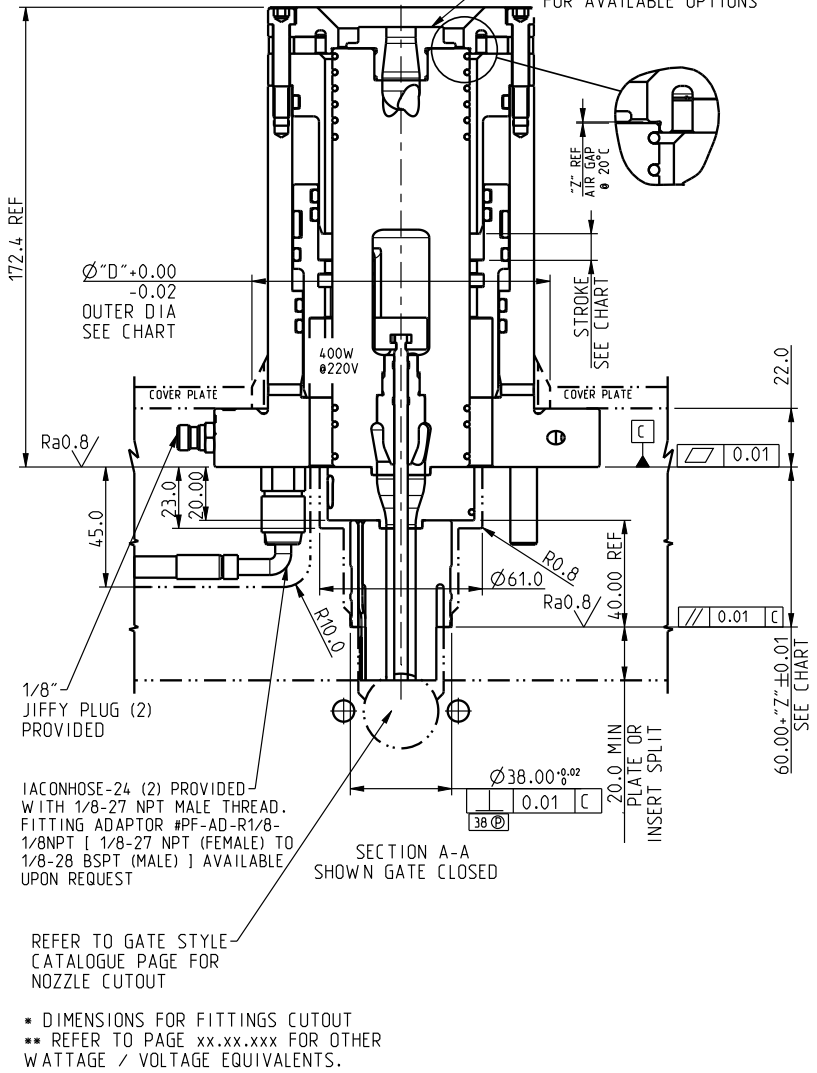
ΔT=Tp - Tm (PROCESS TEMP.-MOLD TEMP.)				
AIR GAP AT ROOM TEMP	150°C	200°C	250°C	300°C
"Z" ±0.01	0.21	0.29	0.59	0.65



SEE PAGE xx.xx
FOR NOZZLE CUTOUT

HYD.LINE PRESSURE:
30-50 BAR (435-725 PSI)
PNEU.LINE PRESSURE
5-7 BAR (73-102 PSI)

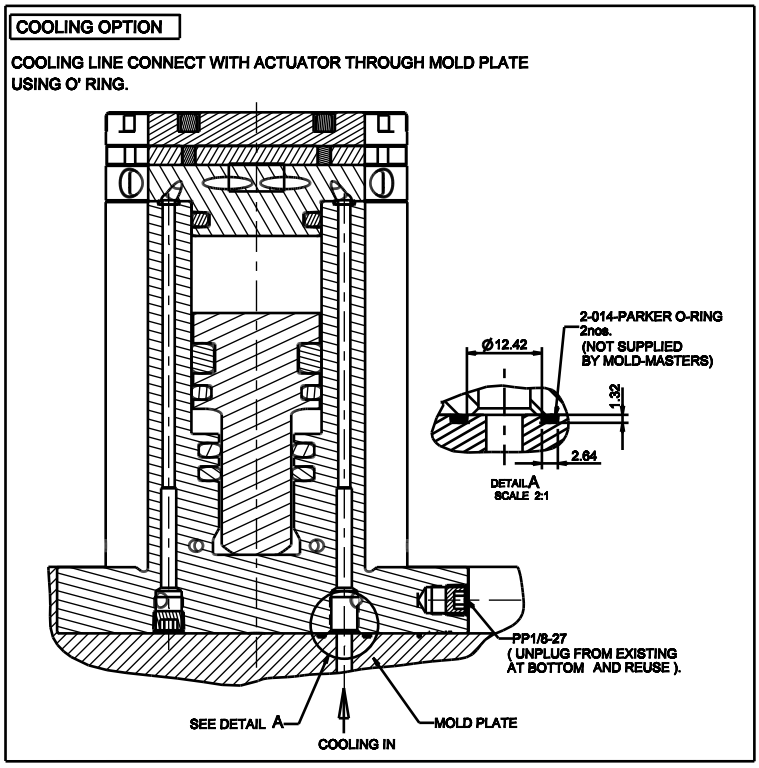
NOTE:
MAX. OPERATING TEMP.:
350°C (PROCESSING)
100°C (MOLD)

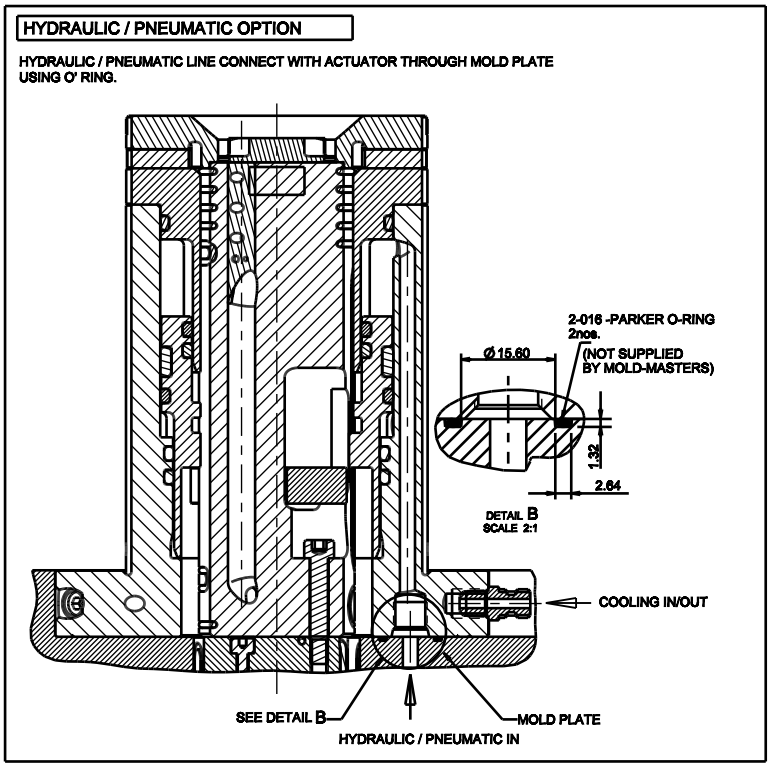


* DIMENSIONS FOR FITTINGS CUTOUT
** REFER TO PAGE xx.xx.xxx FOR OTHER WATTAGE / VOLTAGE EQUIVALENTS.

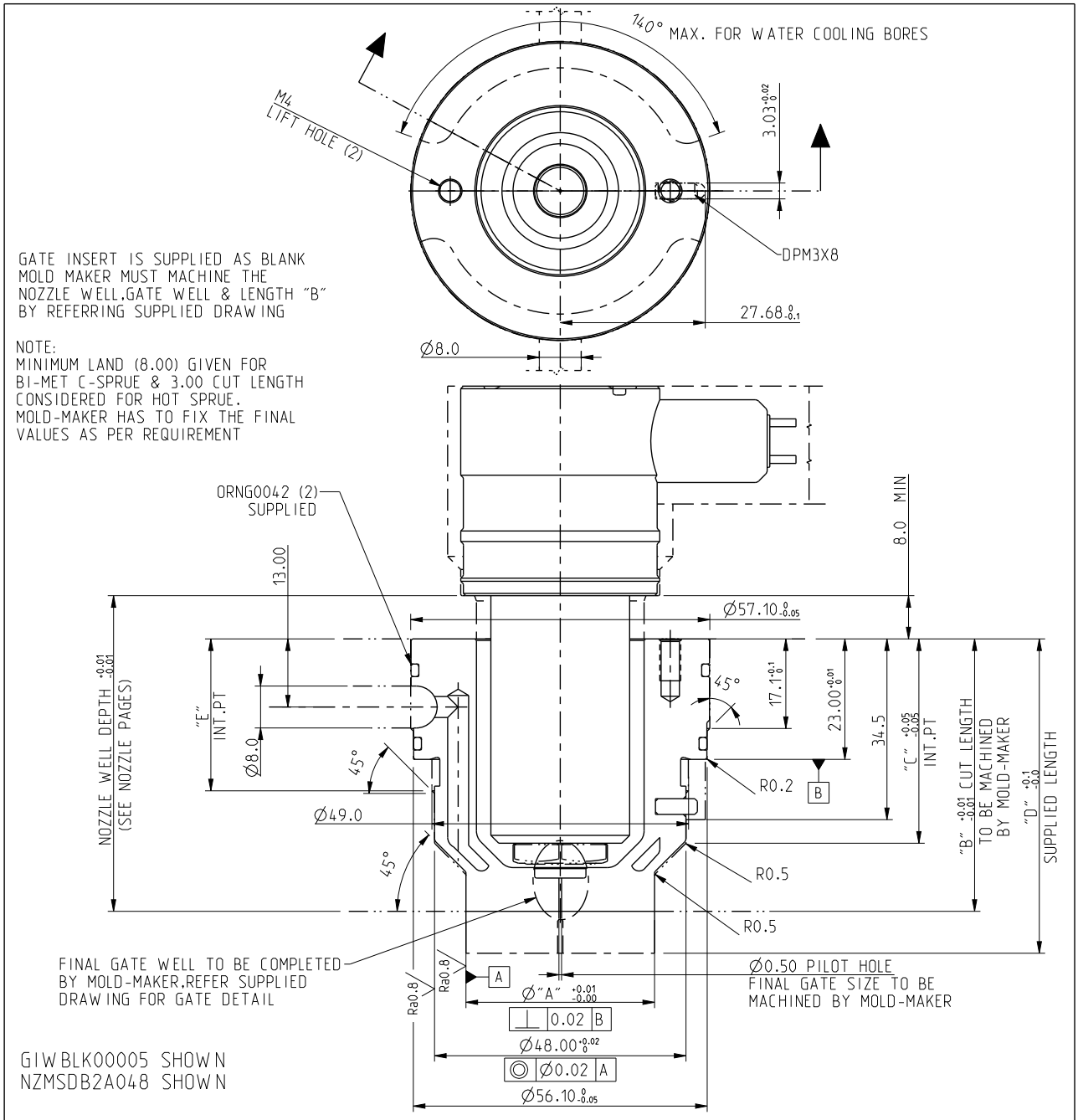
MSD PARTS OPTIONS	
INLET TIP	
INLET TIP RADIUS	STANDARD PART NAME
0.00	IE36TPBL
0.500	IE36TP.500
0.750	IE36TP.750
15.5	IE36TP15.5
20.0	IE36TP20.0
21.0	IE36TP21.0
36.0	IE36TP36.0
40.0	IE36TP40.0
PISTON	
STROKE	STANDARD PART NAME
3.5mm	HYPISB78
10.0mm	HYPISB77
15.0mm	HYPISB76
OUTER CYLINDER	
DIA	STANDARD PART NAME
Ø99.80mm	HYCYLB36
Ø101.34mm	HYCYLB36-1
Ø109.75mm	HYCYLB36-2
VALVE PIN	
DIA	STANDARD PART NAME
Ø5.0	VP068BLXXFN
ADAPTER	
RUNNER DIA	STANDARD PART NAME
Ø11.00mm	ADTR0015

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WATER COOLED GATE INSERT OPTIONS										
GATING STYLE	GIWBLK00005					GIWBLK00006				
	"A"	"B"	"C"	"D"	"E"	"A"	"B"	"C"	"D"	"E"
E-TYPE	28.00	52.00	39.00	60.0	29.0	28.00	72.00	59.00	80.0	49.0
F-TYPE	36.00	48.00				36.00	68.00			
BI-MET C-SPRUE	33.00	55.50 (SEE NOTE)				33.00	75.50 (SEE NOTE)			
HOT SPRUE	36.00	49.00 (SEE NOTE)				36.00	69.00 (SEE NOTE)			
SPIRAL HOT TIP	30.00	54.00				30.00	74.00			
BI-MET C-VALVE	31.00	50.50				31.00	70.50			
EXT BI-MET C-VALVE	30.00	52.50				30.00	72.50			
HOT VALVE	36.00	47.00				36.00	67.00			
ACCU-VALVE CX	30.00	52.05				30.00	72.05			
ACCU-VALVE MX	30.00	52.00				30.00	72.00			
ACCU-VALVE LX	36.00	47.00				36.00	67.00			

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GATING STYLE	PAGE	GATE ø	GATE SEAL OPTIONS	GATE SEAL PACKAGE
E-TYPE TORPEDO	08.01.020	ø 1.50 - ø 2.50	TSM084 + TPM008-2	TSM084P5 FOR PROCESSING TEMP. <280°C
			TSM084 + TPM008-1	TSM084P FOR PROCESSING TEMP. >280°C
F-TYPE TORPEDO	08.01.030	ø 1.50	✳ TSM035 + TPM009-2	TSM035P3 FOR PROCESSING TEMP. <280°C
			TSM035 + TPM088 (WEAR RESISTANT)	TSM035P4 FOR PROCESSING TEMP. >280°C
		ø 2.00	✳ TSM036 + TPM009-2	TSM036P3 FOR PROCESSING TEMP. <280°C
			TSM036 + TPM088 (WEAR RESISTANT)	TSM036P4 FOR PROCESSING TEMP. >280°C
		ø 2.50	✳ TSM037 + TPM009-2	TSM037P3 FOR PROCESSING TEMP. <280°C
			TSM037 + TPM088 (WEAR RESISTANT)	TSM037P4 FOR PROCESSING TEMP. >280°C
BI-METALLIC C-SPRUE	08.01.040	ø 3.00	TSM085 + TSLM021	TSM085P
		ø 4.00	TSM085 + TSLM022	TSM085P1
		ø 5.00	TSM085 + TSLM023	TSM085P2
HOT SPRUE	08.01.050	ø 1.50 - ø 5.00	TSM039 (ø 1.5 GATE SUPPLIED)	
EXTENDED HOT SPRUE	08.01.060	ø 1.50 - ø 5.00	TSM045 (ø 1.5 GATE SUPPLIED)	
SPIRAL HOT TIP	08.01.070	ø 1.50 - ø 3.00	TSM049	
BI-METALLIC C-VALVE	08.01.080	ø 4.00 - ø 5.00	TSM085 + TSLM024	TSM085P3
HOT VALVE	08.01.090	ø 4.00	TSM040	
		ø 5.00	TSM041	

✳ APPLICATION DEPENDANT AND SUBJECTED TO TSE REVIEW

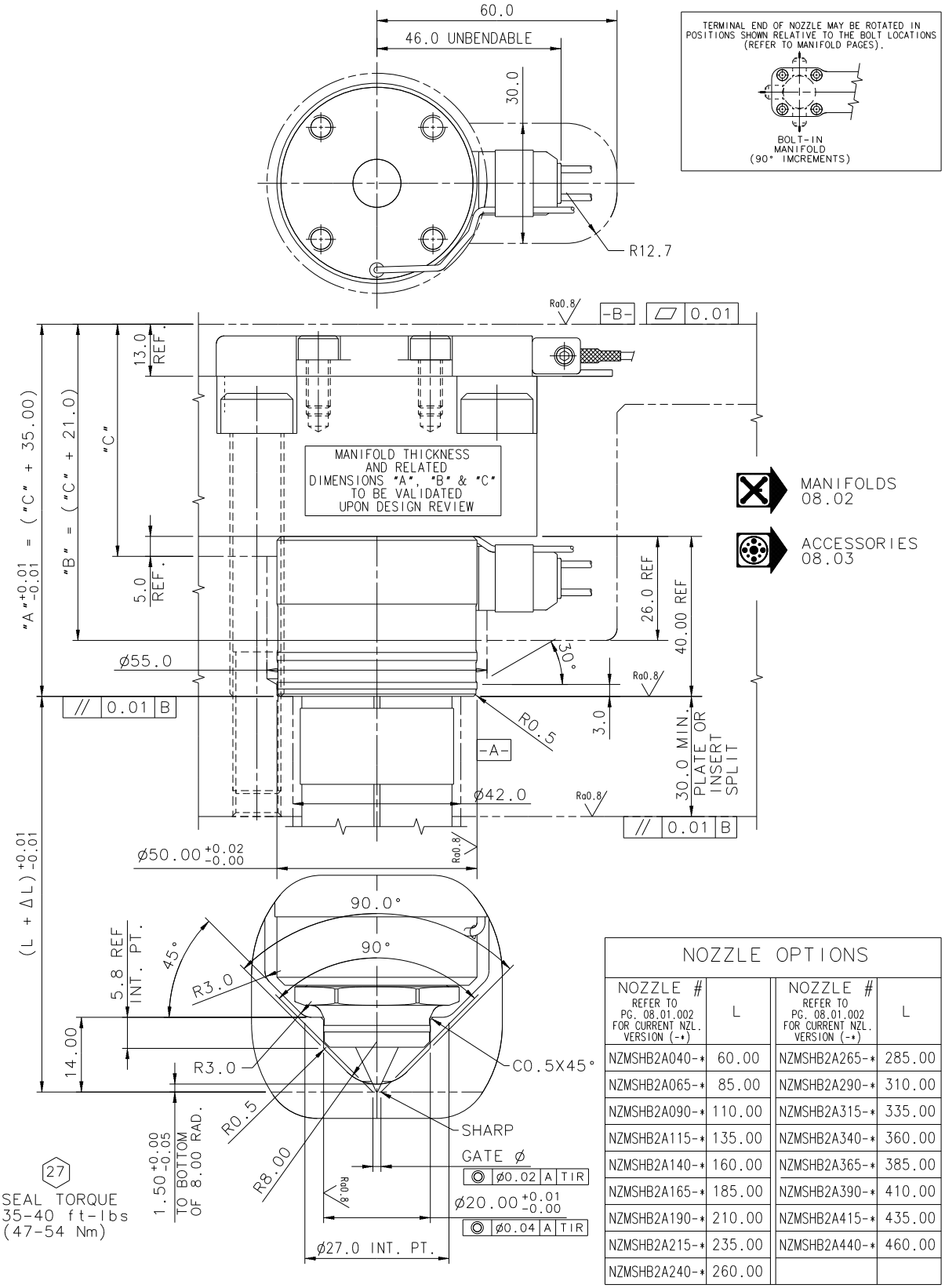
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NOZZLE #	**POWER @ 220V	NOZZLE #	**POWER @ 220V	NOZZLE #	**POWER @ 220V
NZMSHB*A040-F	650W	NZMSHB*A190-F	1300W	NZMSHB*A340-F	1750W
NZMSHB*A065-F	650W	NZMSHB*A215-F	1500W	NZMSHB*A365-F	1750W
NZMSHB*A090-F	650W	NZMSHB*A240-F	1700W	NZMSHB*A390-F	1750W
NZMSHB*A115-F	1000W	NZMSHB*A265-F	1700W	NZMSHB*A415-F	1750W
NZMSHB*A140-F	1050W	NZMSHB*A290-F	1750W	NZMSHB*A440-F	1750W
NZMSHB*A165-F	1200W	NZMSHB*A315-F	1750W		
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS					

APPLICABLE GATING METHODS	NOZZLE #	NOZZLE EXPANSION ΔL @ ΔT (PROCESS TEMP. - MOLD TEMP.)			
		150°C	200°C	250°C	300°C
E-TYPE TORPEDO	NZMSHB2A040-F	0.13	0.17	0.21	0.25
	NZMSHB2A065-F	0.18	0.24	0.29	0.33
	NZMSHB2A090-F	0.21	0.29	0.35	0.42
	NZMSHB2A115-F	0.25	0.34	0.42	0.50
	NZMSHB2A140-F	0.30	0.41	0.50	0.61
	NZMSHB2A165-F	0.33	0.43	0.54	0.67
	NZMSHB2A190-F	0.36	0.48	0.61	0.76
	NZMSHB2A215-F	0.40	0.53	0.67	0.84
	NZMSHB2A240-F	0.44	0.58	0.73	0.92
	NZMSHB2A265-F	0.48	0.62	0.79	1.01
	NZMSHB2A290-F	0.52	0.68	0.86	1.05
	NZMSHB2A315-F	0.55	0.72	0.92	1.18
	NZMSHB2A340-F	0.59	0.77	0.98	1.26
	NZMSHB2A365-F	0.63	0.82	1.05	1.35
	NZMSHB2A390-F	0.66	0.86	1.11	1.43
	NZMSHB2A415-F	0.70	0.91	1.17	1.51
	NZMSHB2A440-F	0.73	0.95	1.23	1.62
F-TYPE TORPEDO SPIRAL HOT TIP BI-METALLIC C-SPRUE HOT SPRUE EXTENDED HOT SPRUE BI-METALLIC C-VALVE HOT VALVE	NZMSHB*A040-F	0.13	0.18	0.24	0.29
	NZMSHB*A065-F	0.18	0.25	0.31	0.38
	NZMSHB*A090-F	0.22	0.31	0.39	0.47
	NZMSHB*A115-F	0.27	0.37	0.46	0.56
	NZMSHB*A140-F	0.32	0.43	0.53	0.64
	NZMSHB*A165-F	0.36	0.49	0.61	0.74
	NZMSHB*A190-F	0.40	0.55	0.69	0.83
	NZMSHB*A215-F	0.45	0.61	0.76	0.92
	NZMSHB*A240-F	0.49	0.66	0.83	1.01
	NZMSHB*A265-F	0.54	0.72	0.91	1.10
	NZMSHB*A290-F	0.58	0.79	0.99	1.20
	NZMSHB*A315-F	0.63	0.84	1.06	1.28
	NZMSHB*A340-F	0.67	0.90	1.13	1.37
	NZMSHB*A365-F	0.72	0.96	1.21	1.46
	NZMSHB*A390-F	0.76	1.02	1.28	1.55
	NZMSHB*A415-F	0.81	1.08	1.36	1.64
	NZMSHB*A440-F	0.85	1.14	1.43	1.72

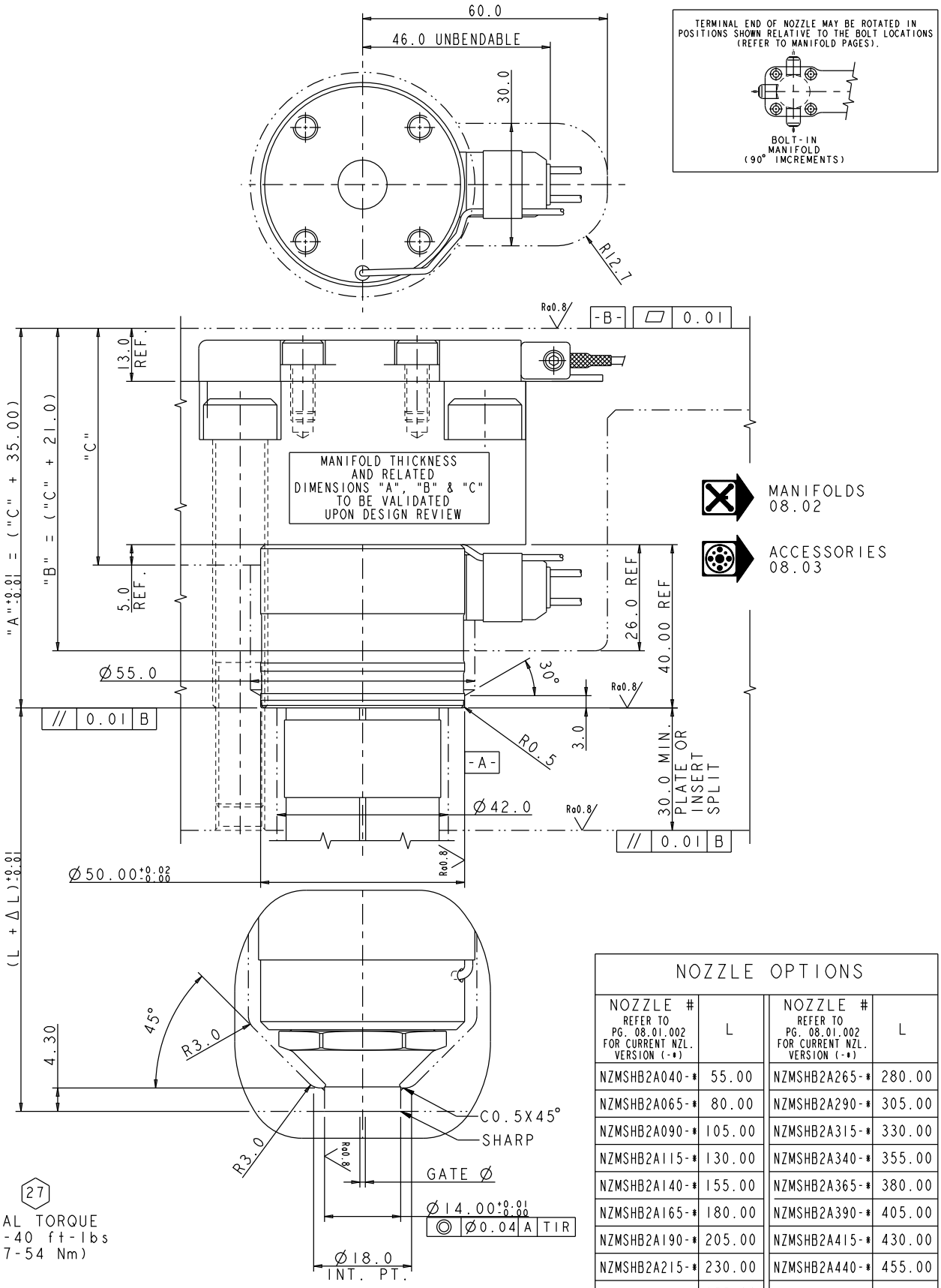
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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L
NZMSHB2A040-*	60.00	NZMSHB2A265-*	285.00
NZMSHB2A065-*	85.00	NZMSHB2A290-*	310.00
NZMSHB2A090-*	110.00	NZMSHB2A315-*	335.00
NZMSHB2A115-*	135.00	NZMSHB2A340-*	360.00
NZMSHB2A140-*	160.00	NZMSHB2A365-*	385.00
NZMSHB2A165-*	185.00	NZMSHB2A390-*	410.00
NZMSHB2A190-*	210.00	NZMSHB2A415-*	435.00
NZMSHB2A215-*	235.00	NZMSHB2A440-*	460.00
NZMSHB2A240-*	260.00		

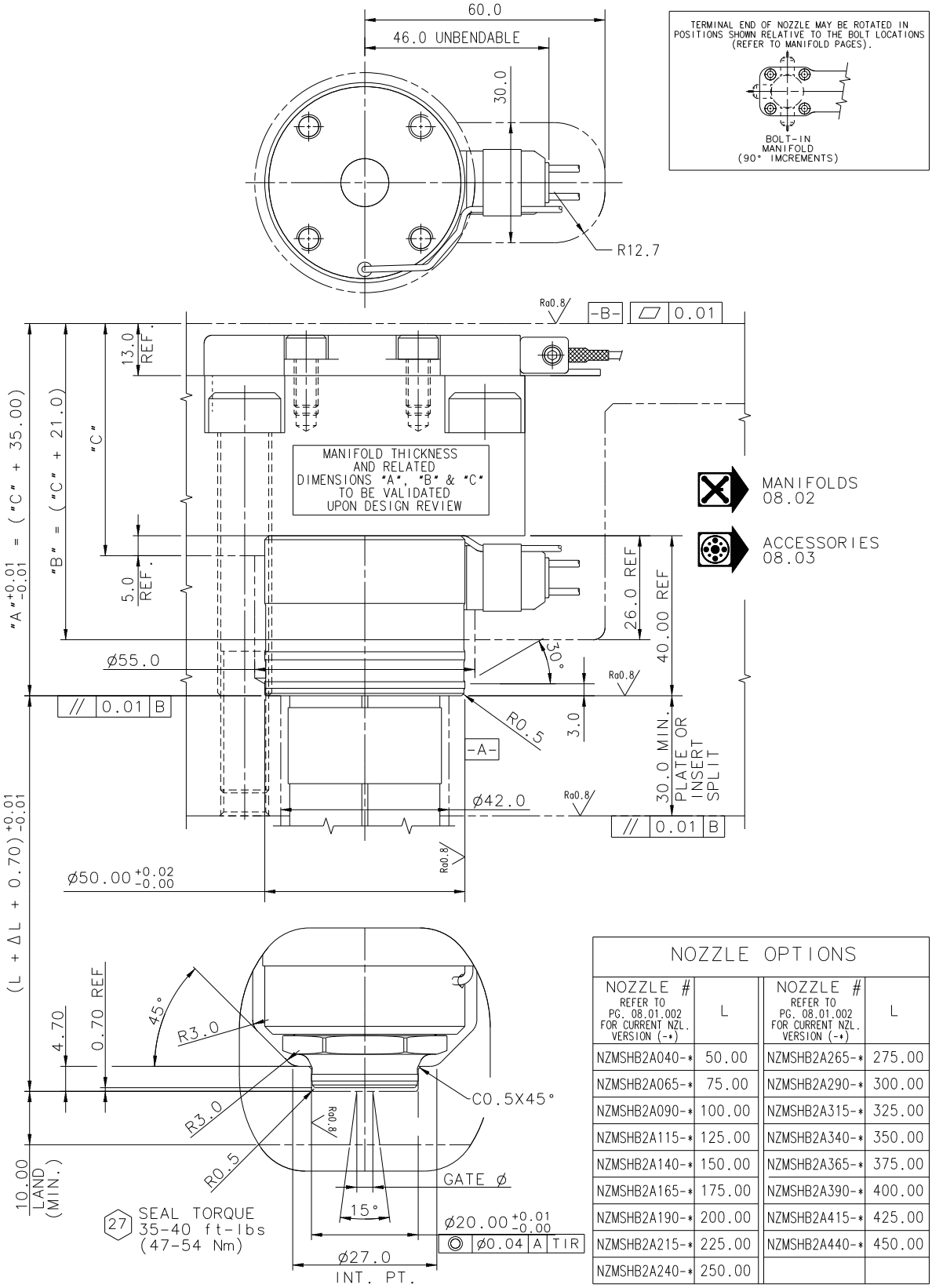
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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-#)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-#)	L
NZMSHB2A040-#	55.00	NZMSHB2A265-#	280.00
NZMSHB2A065-#	80.00	NZMSHB2A290-#	305.00
NZMSHB2A090-#	105.00	NZMSHB2A315-#	330.00
NZMSHB2A115-#	130.00	NZMSHB2A340-#	355.00
NZMSHB2A140-#	155.00	NZMSHB2A365-#	380.00
NZMSHB2A165-#	180.00	NZMSHB2A390-#	405.00
NZMSHB2A190-#	205.00	NZMSHB2A415-#	430.00
NZMSHB2A215-#	230.00	NZMSHB2A440-#	455.00
NZMSHB2A240-#	255.00		

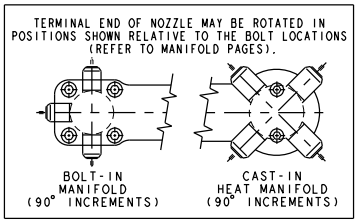
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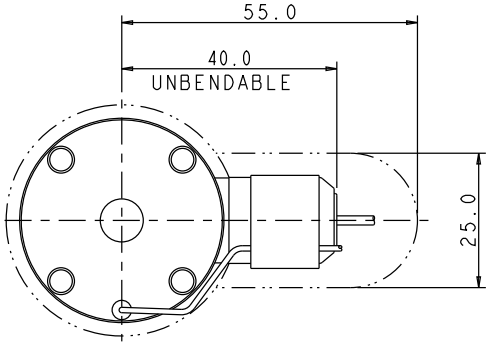
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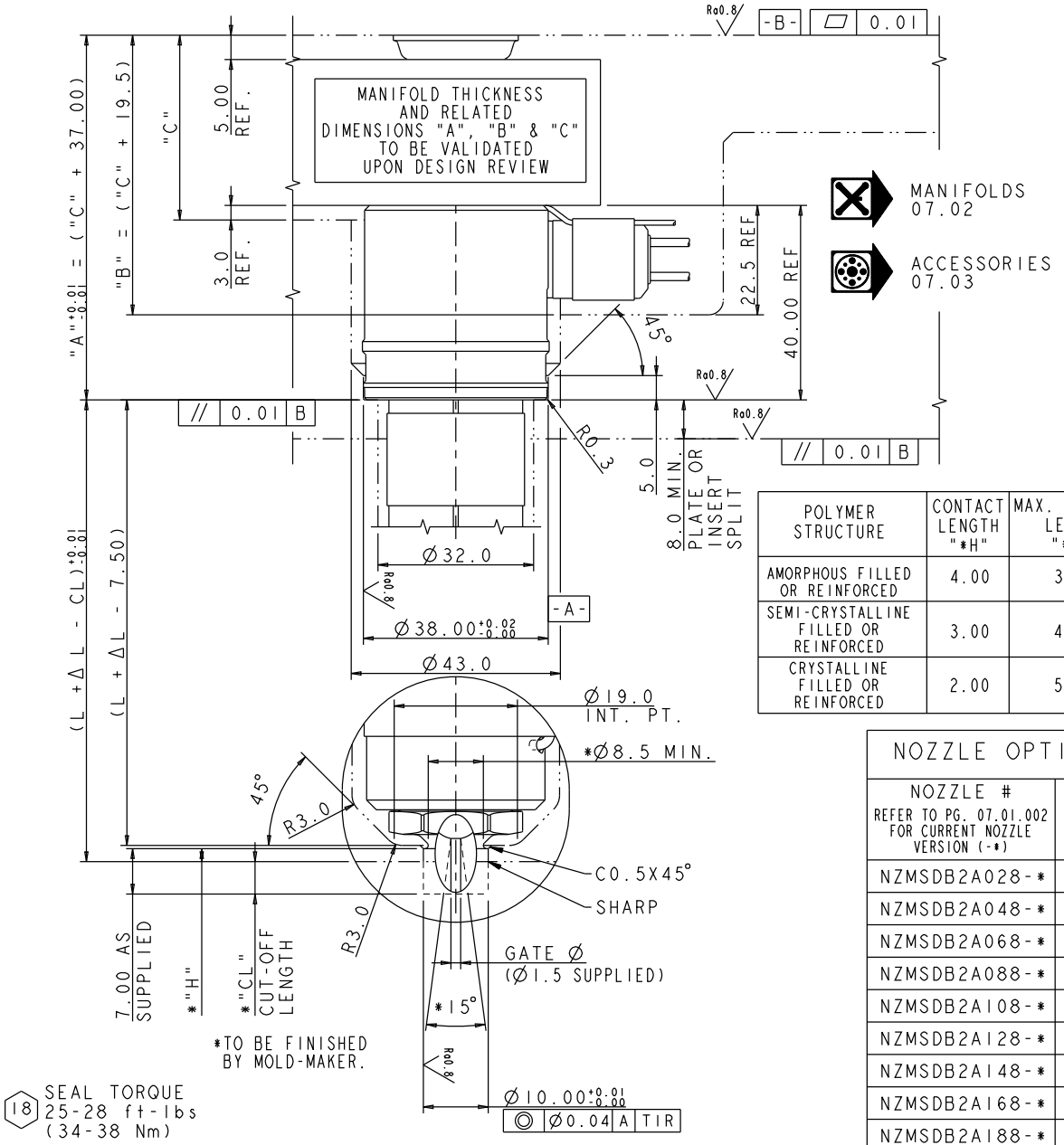


NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L
NZMSHB2A040-*	50.00	NZMSHB2A265-*	275.00
NZMSHB2A065-*	75.00	NZMSHB2A290-*	300.00
NZMSHB2A090-*	100.00	NZMSHB2A315-*	325.00
NZMSHB2A115-*	125.00	NZMSHB2A340-*	350.00
NZMSHB2A140-*	150.00	NZMSHB2A365-*	375.00
NZMSHB2A165-*	175.00	NZMSHB2A390-*	400.00
NZMSHB2A190-*	200.00	NZMSHB2A415-*	425.00
NZMSHB2A215-*	225.00	NZMSHB2A440-*	450.00
NZMSHB2A240-*	250.00		

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MANIFOLDS 07.02

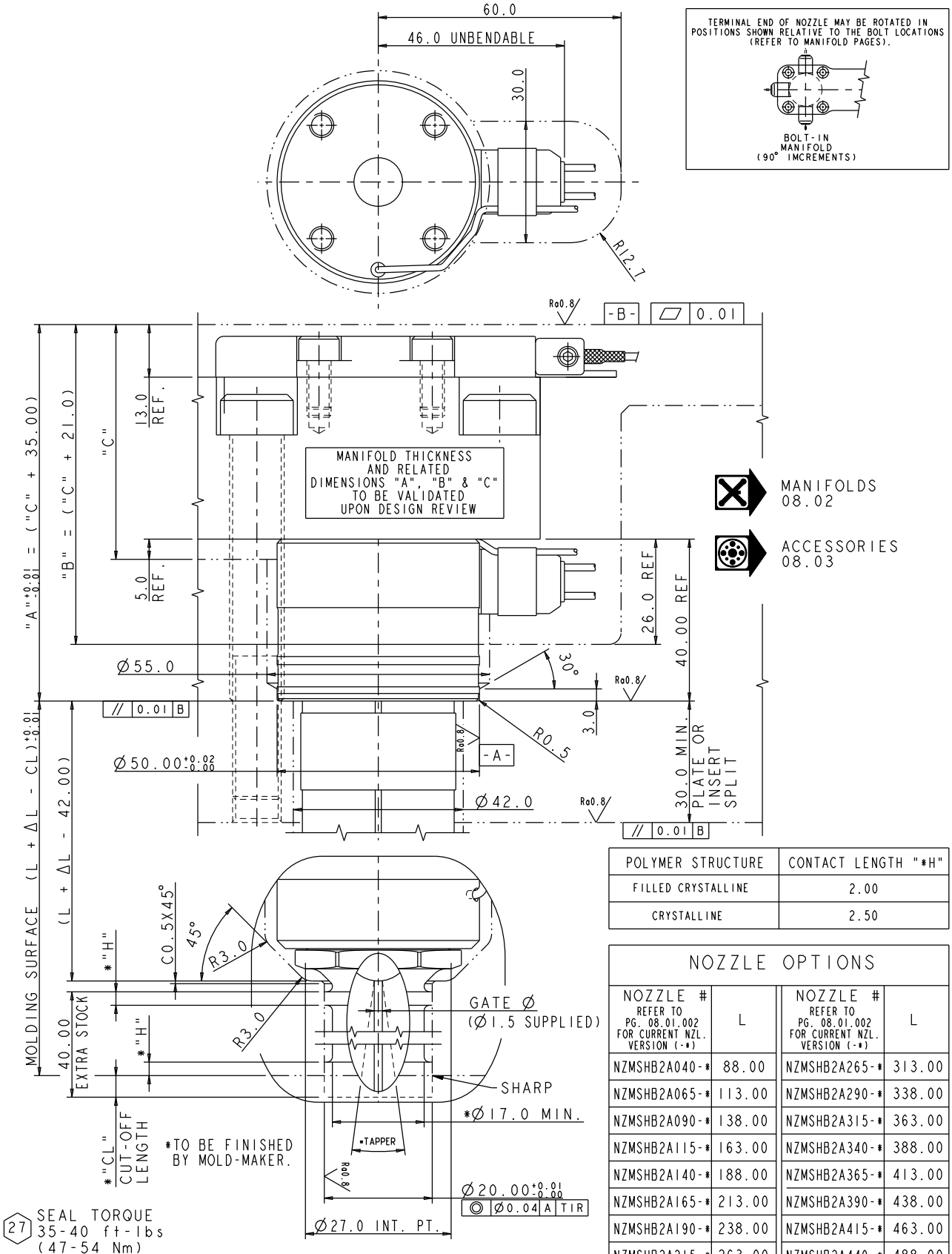
ACCESSORIES 07.03

POLYMER STRUCTURE	CONTACT LENGTH "*H"	MAX. CUT-OFF LENGTH "*CL"
AMORPHOUS FILLED OR REINFORCED	4.00	3.00
SEMI-CRYSTALLINE FILLED OR REINFORCED	3.00	4.00
CRYSTALLINE FILLED OR REINFORCED	2.00	5.00

NOZZLE OPTIONS	
NOZZLE # REFER TO PG. 07.01.002 FOR CURRENT NOZZLE VERSION (-*)	L
NZMSDB2A028-*	40.00
NZMSDB2A048-*	60.00
NZMSDB2A068-*	80.00
NZMSDB2A088-*	100.00
NZMSDB2A108-*	120.00
NZMSDB2A128-*	140.00
NZMSDB2A148-*	160.00
NZMSDB2A168-*	180.00
NZMSDB2A188-*	200.00
NZMSDB2A208-*	220.00

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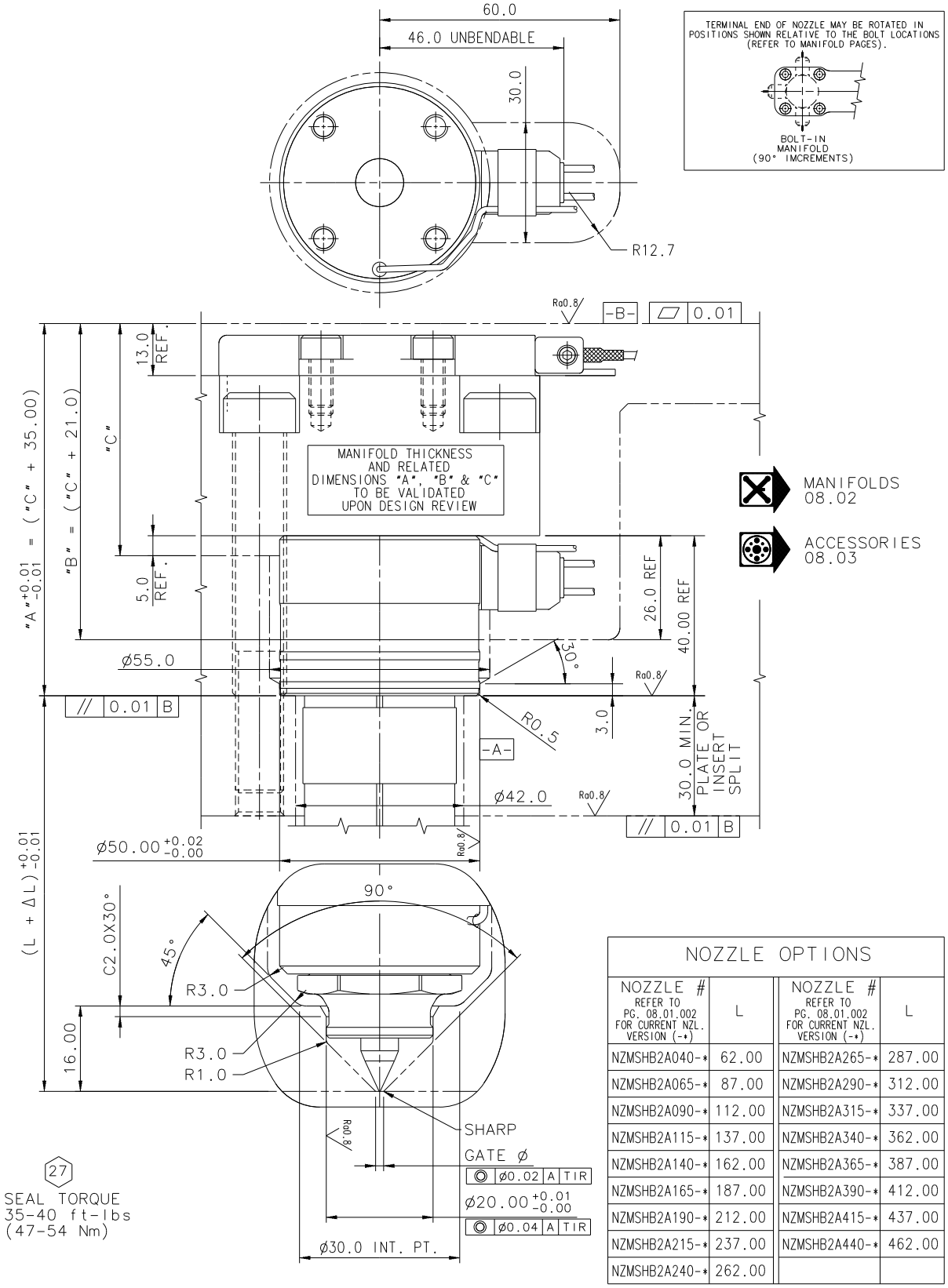


POLYMER STRUCTURE	CONTACT LENGTH "*H"
FILLED CRYSTALLINE	2.00
CRYSTALLINE	2.50

NOZZLE OPTIONS

NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L
NZMSHB2A040-*	88.00	NZMSHB2A265-*	313.00
NZMSHB2A065-*	113.00	NZMSHB2A290-*	338.00
NZMSHB2A090-*	138.00	NZMSHB2A315-*	363.00
NZMSHB2A115-*	163.00	NZMSHB2A340-*	388.00
NZMSHB2A140-*	188.00	NZMSHB2A365-*	413.00
NZMSHB2A165-*	213.00	NZMSHB2A390-*	438.00
NZMSHB2A190-*	238.00	NZMSHB2A415-*	463.00
NZMSHB2A215-*	263.00	NZMSHB2A440-*	488.00
NZMSHB2A240-*	288.00		

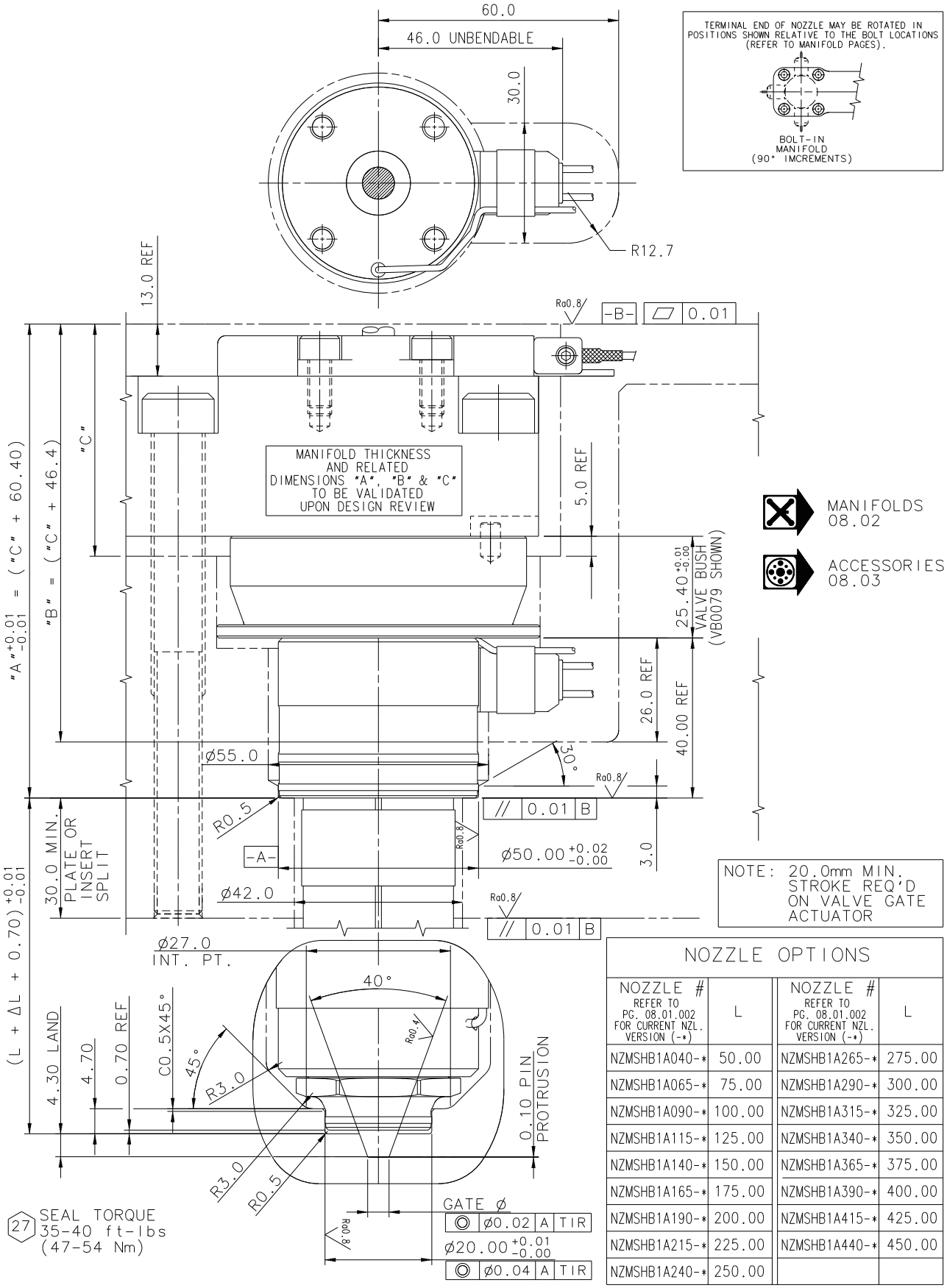
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NOZZLE OPTIONS			
NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L
NZMSHB2A040-*	62.00	NZMSHB2A265-*	287.00
NZMSHB2A065-*	87.00	NZMSHB2A290-*	312.00
NZMSHB2A090-*	112.00	NZMSHB2A315-*	337.00
NZMSHB2A115-*	137.00	NZMSHB2A340-*	362.00
NZMSHB2A140-*	162.00	NZMSHB2A365-*	387.00
NZMSHB2A165-*	187.00	NZMSHB2A390-*	412.00
NZMSHB2A190-*	212.00	NZMSHB2A415-*	437.00
NZMSHB2A215-*	237.00	NZMSHB2A440-*	462.00
NZMSHB2A240-*	262.00		

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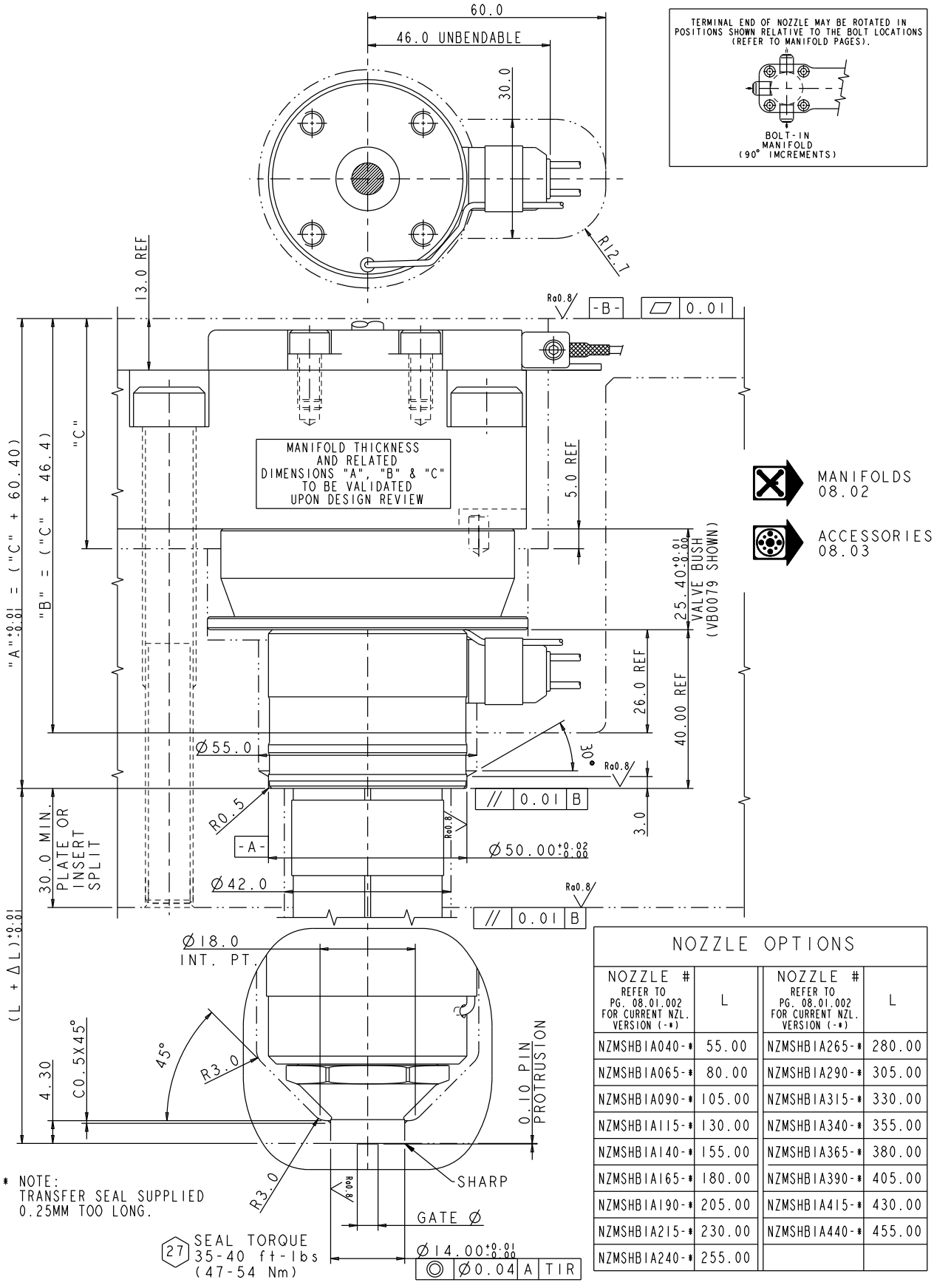
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NOZZLE OPTIONS

NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L
NZMSHB1A040-*	50.00	NZMSHB1A265-*	275.00
NZMSHB1A065-*	75.00	NZMSHB1A290-*	300.00
NZMSHB1A090-*	100.00	NZMSHB1A315-*	325.00
NZMSHB1A115-*	125.00	NZMSHB1A340-*	350.00
NZMSHB1A140-*	150.00	NZMSHB1A365-*	375.00
NZMSHB1A165-*	175.00	NZMSHB1A390-*	400.00
NZMSHB1A190-*	200.00	NZMSHB1A415-*	425.00
NZMSHB1A215-*	225.00	NZMSHB1A440-*	450.00
NZMSHB1A240-*	250.00		

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NOZZLE OPTIONS

NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L	NOZZLE # REFER TO PG. 08.01.002 FOR CURRENT NZL. VERSION (-*)	L
NZMSHBIA040-*	55.00	NZMSHBIA265-*	280.00
NZMSHBIA065-*	80.00	NZMSHBIA290-*	305.00
NZMSHBIA090-*	105.00	NZMSHBIA315-*	330.00
NZMSHBIA115-*	130.00	NZMSHBIA340-*	355.00
NZMSHBIA140-*	155.00	NZMSHBIA365-*	380.00
NZMSHBIA165-*	180.00	NZMSHBIA390-*	405.00
NZMSHBIA190-*	205.00	NZMSHBIA415-*	430.00
NZMSHBIA215-*	230.00	NZMSHBIA440-*	455.00
NZMSHBIA240-*	255.00		

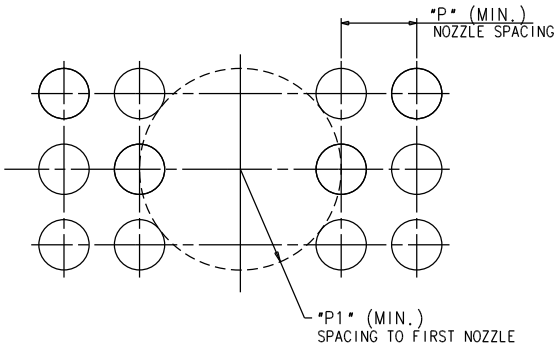
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MANIFOLD PITCH RANGES AND LOCATOR OPTIONS

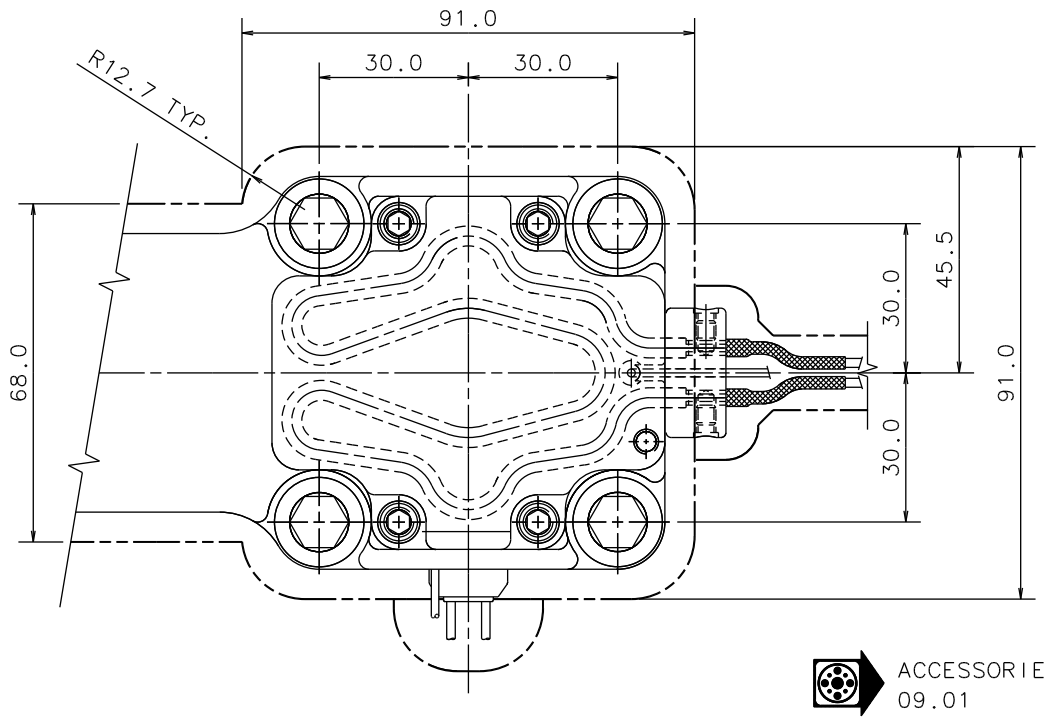
MANIFOLD SHAPE	MANIFOLD PAGE	GATING TYPE	PITCH RANGE	MANIFOLD LOCATOR OPTIONS
TYPICAL MANIFOLD CONFIGURATIONS	08.02.030			
"2I" BOLT-IN SUB MANIFOLD	08.02.040/050	SPRUE	X = 125.0 TO 300.0	ML0015, ML0030
	07.02.110/120	VALVE	X = 125.0 TO 300.0	

MIN. PITCH FOR INLET EXTENSION / ACTUATING UNIT

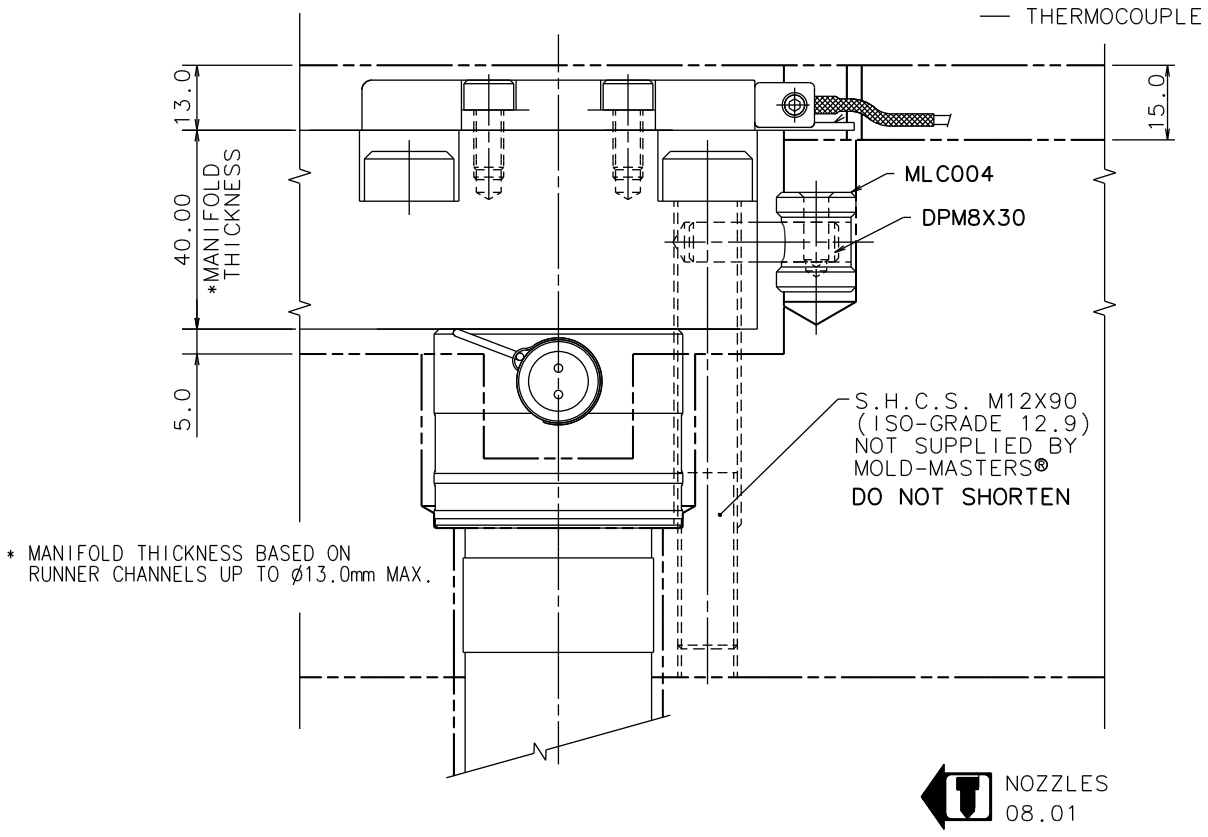


HYD./PNEU. UNIT	INLET EXT.	"P1"	"P"
HY650Xx OR HY710Xx	IE06*** OR IE08***	50.0	54.0
HY6500x OR HY7100x	IE06*** OR IE08***	86.5	60.0

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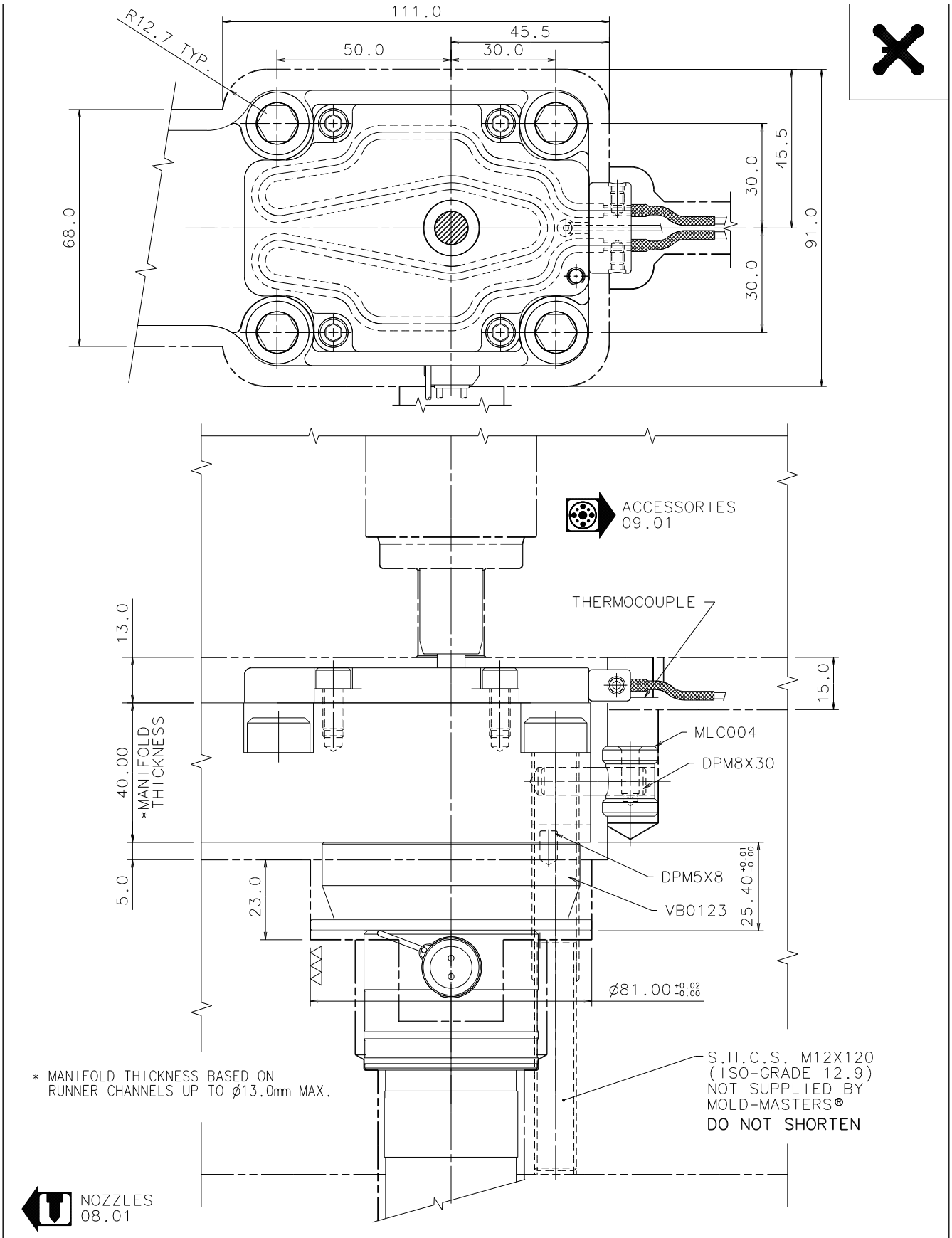
ACCESSORIES
09.01



NOZZLES
08.01

TYPICAL MANIFOLD END FOR MASTER SERIES HECTO HEATER-PLATE MANIFOLD SYSTEM.
DIFFERENT HEATER PLATES ARE PLACED ON THE MANIFOLD AS REQUIRED BY SYSTEM.

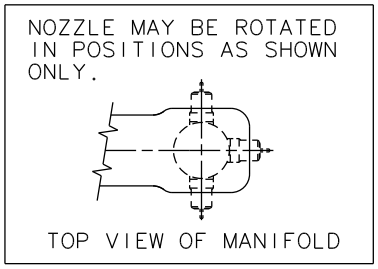
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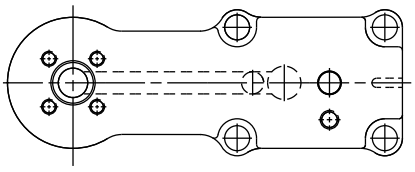


SCALE 1:1.5

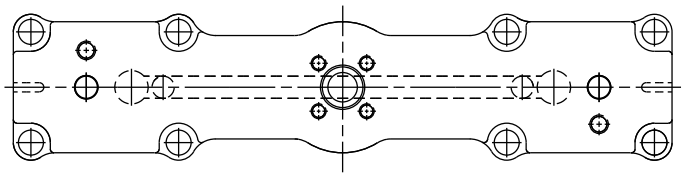
TYPICAL MANIFOLD END FOR MASTER SERIES HECTO HEATER-PLATE MANIFOLD SYSTEM.
DIFFERENT HEATER PLATES ARE PLACED ON THE MANIFOLD AS REQUIRED BY SYSTEM.

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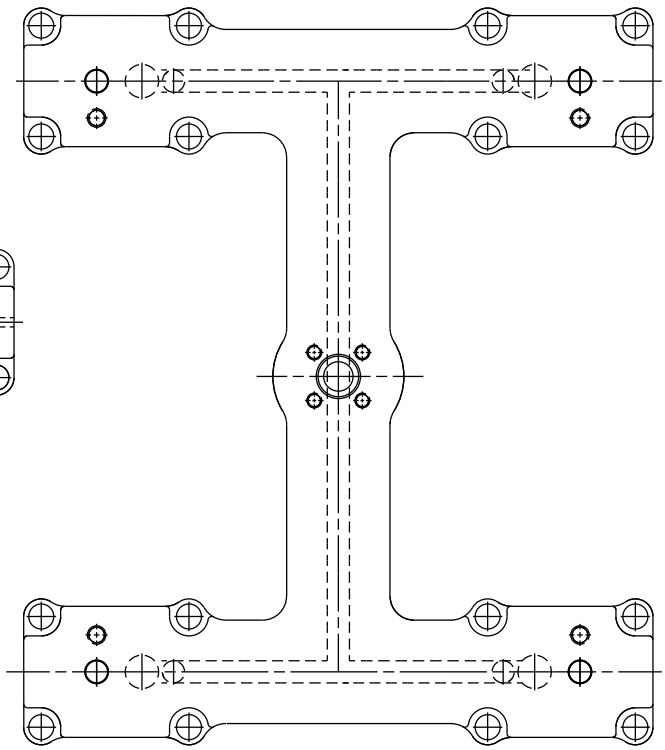




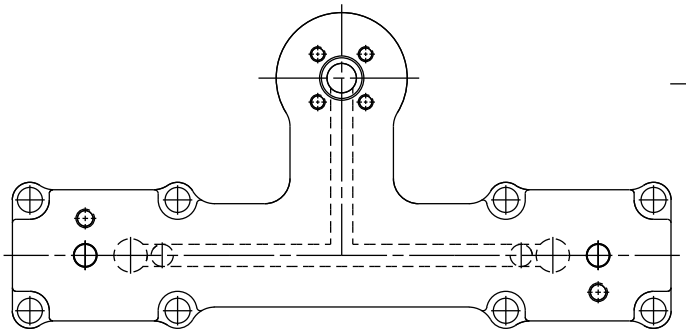
"OFFSET"



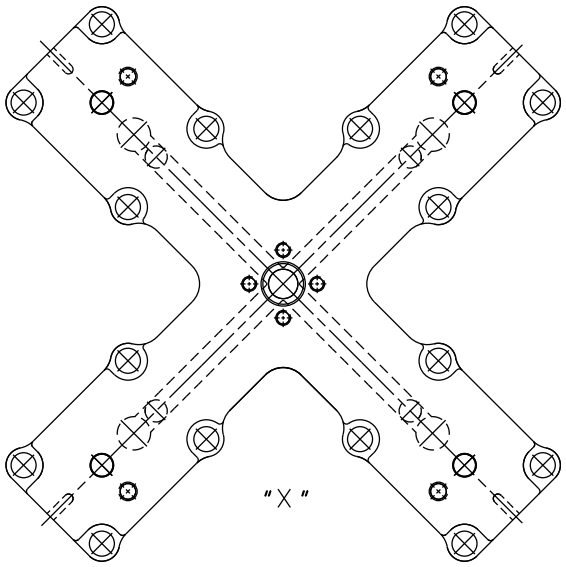
"2 IN A ROW"



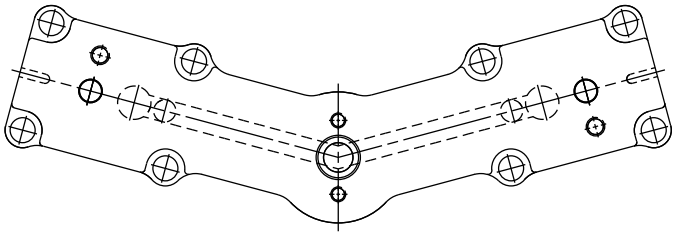
"H"



"T"



"X"



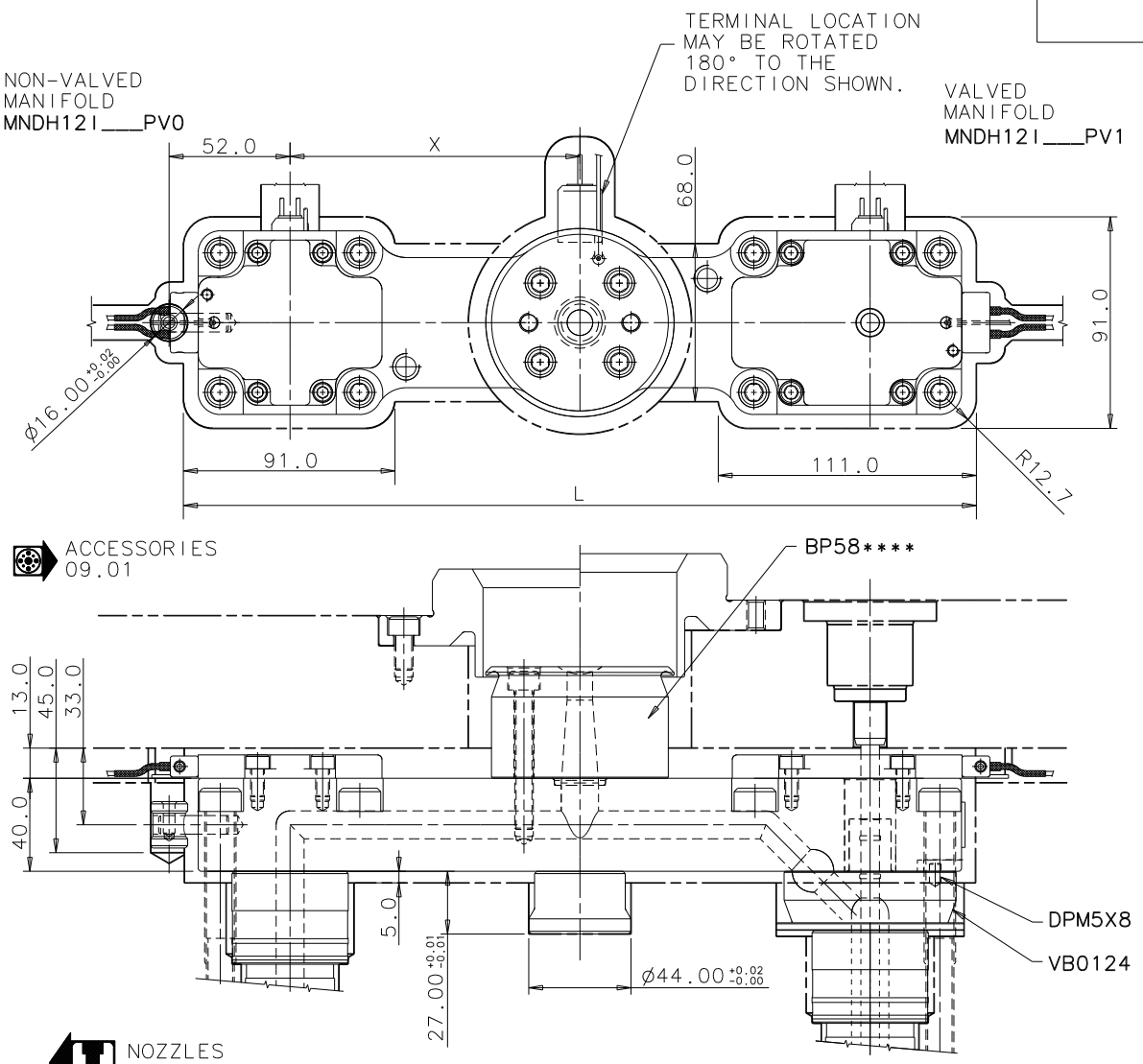
"V"

OTHER MANIFOLD CONFIGURATIONS AVAILABLE ON REQUEST.
MAIN MANIFOLDS CAN BE USED TO ACHIEVE HIGHER NUMBER OF CAVITIES.

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BOLT-IN MANIFOLD WITH HEATER PLATES.

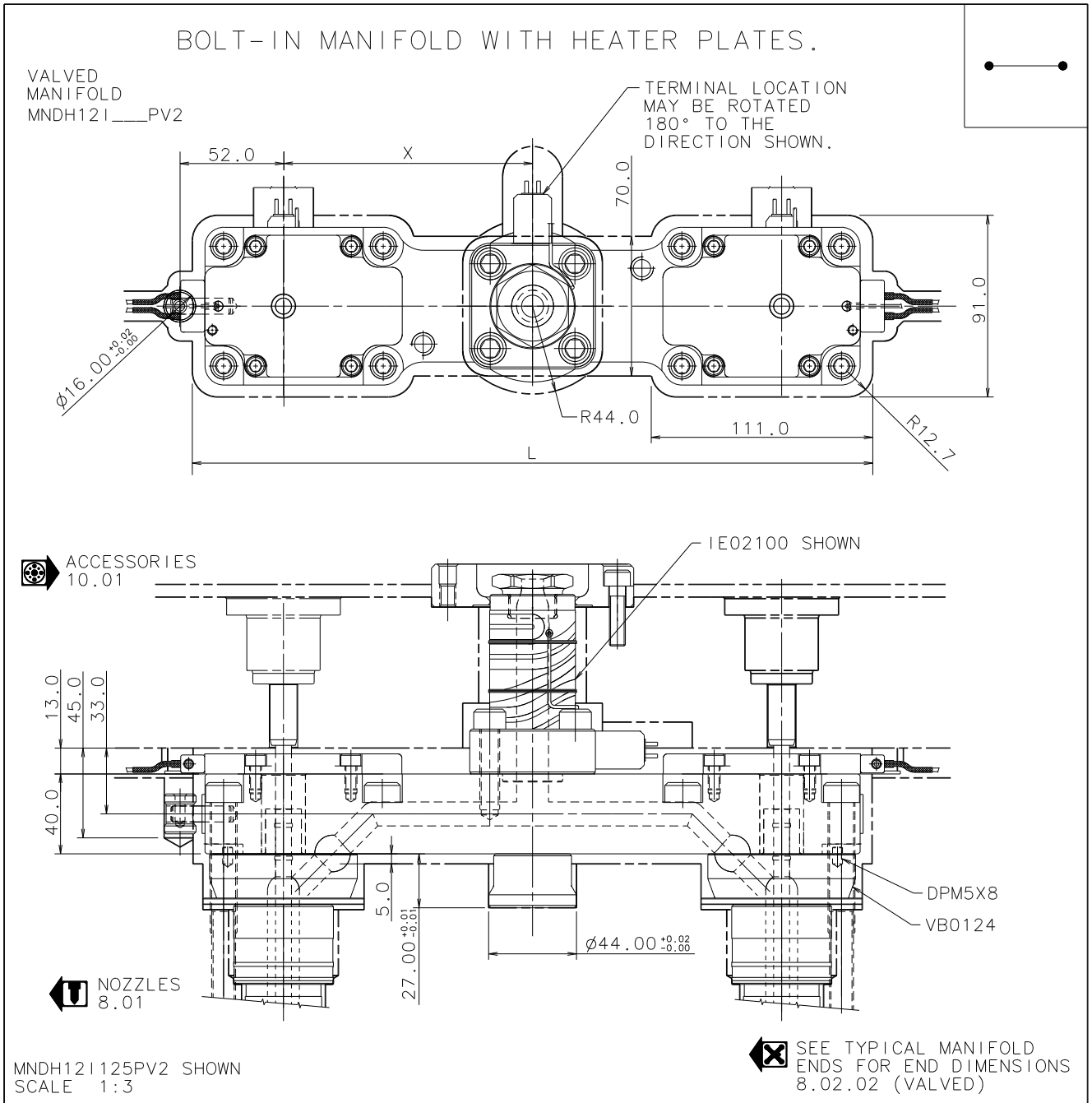


MNDH12I125P* SHOWN
SCALE 1:3

MANIFOLD OPTIONS *: ADD V1 FOR VALVED MANIFOLD# AND V0 FOR SPRUE MANIFOLD#

MANIFOLD #	X	L	HEATER PLATES REQUIRED & RUNNER VOLUME (cm^3)									
			FOR SPRUE MANIFOLD					FOR VALVED MANIFOLD				
			H. P. #	QTY.	H. P. #	QTY.	R. V.	H. P. #	QTY.	H. P. #	QTY.	R. V.
MNDH12I125P*	125.00	341.0	HP0106BR	2	———	—	35.6	HP0107BR	2	———	—	27.3
MNDH12I150P*	150.00	391.0	HP0106BR	2	———	—	41.3	HP0107BR	2	———	—	33.0
MNDH12I175P*	175.00	441.0	HP0106BR	2	HP0103BR	2	46.9	HP0107BR	2	HP0103BR	2	38.6
MNDH12I200P*	200.00	491.0	HP0106BR	2	HP0108BR	2	52.6	HP0107BR	2	HP0103BR	2	44.3
MNDH12I225P*	225.00	541.0	HP0106BR	2	HP0108BR	2	58.2	HP0107BR	2	HP0108BR	2	49.9
MNDH12I250P*	250.00	591.0	HP0106BR	2	HP0109BR	2	63.9	HP0107BR	2	HP0108BR	2	55.5
MNDH12I275P*	275.00	641.0	HP0106BR	2	HP0109BR	2	69.5	HP0107BR	2	HP0109BR	2	61.2
MNDH12I300P*	300.00	691.0	HP0106BR	2	HP0109BR	2	75.2	HP0107BR	2	HP0109BR	2	66.8

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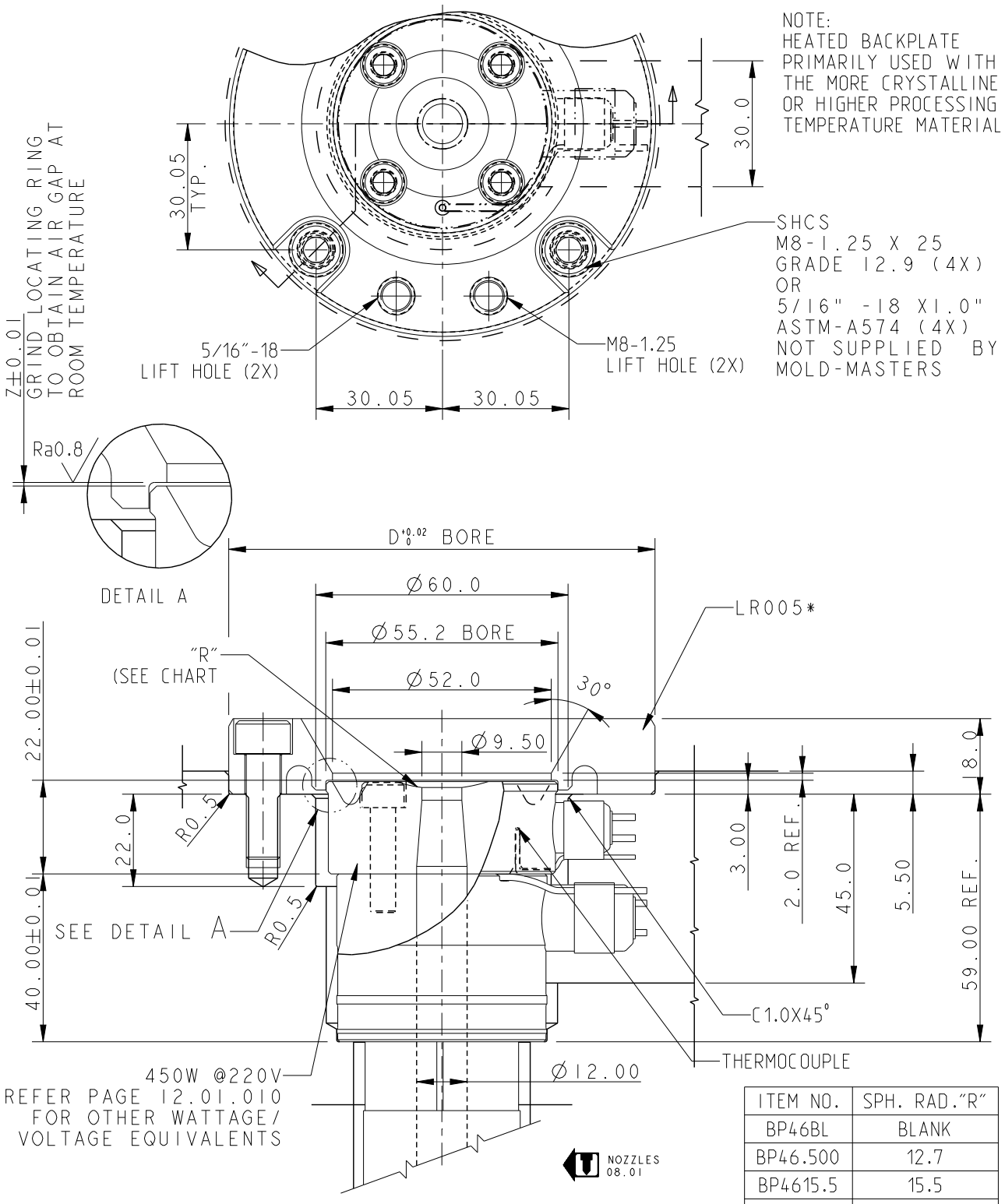


MANIFOLD #	X	L	HEATER PLATES REQUIRED & RUNNER VOLUME (cm^3) FOR VALVED MANIFOLD				
			H. P. #	QTY.	H. P. #	QTY.	R. V.
MNDH12I125PV2	125.00	341.0	HP0107BR	2	———	—	27.3
MNDH12I150PV2	150.00	391.0	HP0107BR	2	———	—	33.0
MNDH12I175PV2	175.00	441.0	HP0107BR	2	HP0103BR	2	38.6
MNDH12I200PV2	200.00	491.0	HP0107BR	2	HP0103BR	2	44.3
MNDH12I225PV2	225.00	541.0	HP0107BR	2	HP0108BR	2	49.9
MNDH12I250PV2	250.00	591.0	HP0107BR	2	HP0108BR	2	55.5
MNDH12I275PV2	275.00	641.0	HP0107BR	2	HP0109BR	2	61.2
MNDH12I300PV2	300.00	691.0	HP0107BR	2	HP0109BR	2	66.8

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Single Nozzle (Sprue) w/ Heated Machine Nozzle Pad

08.03.015

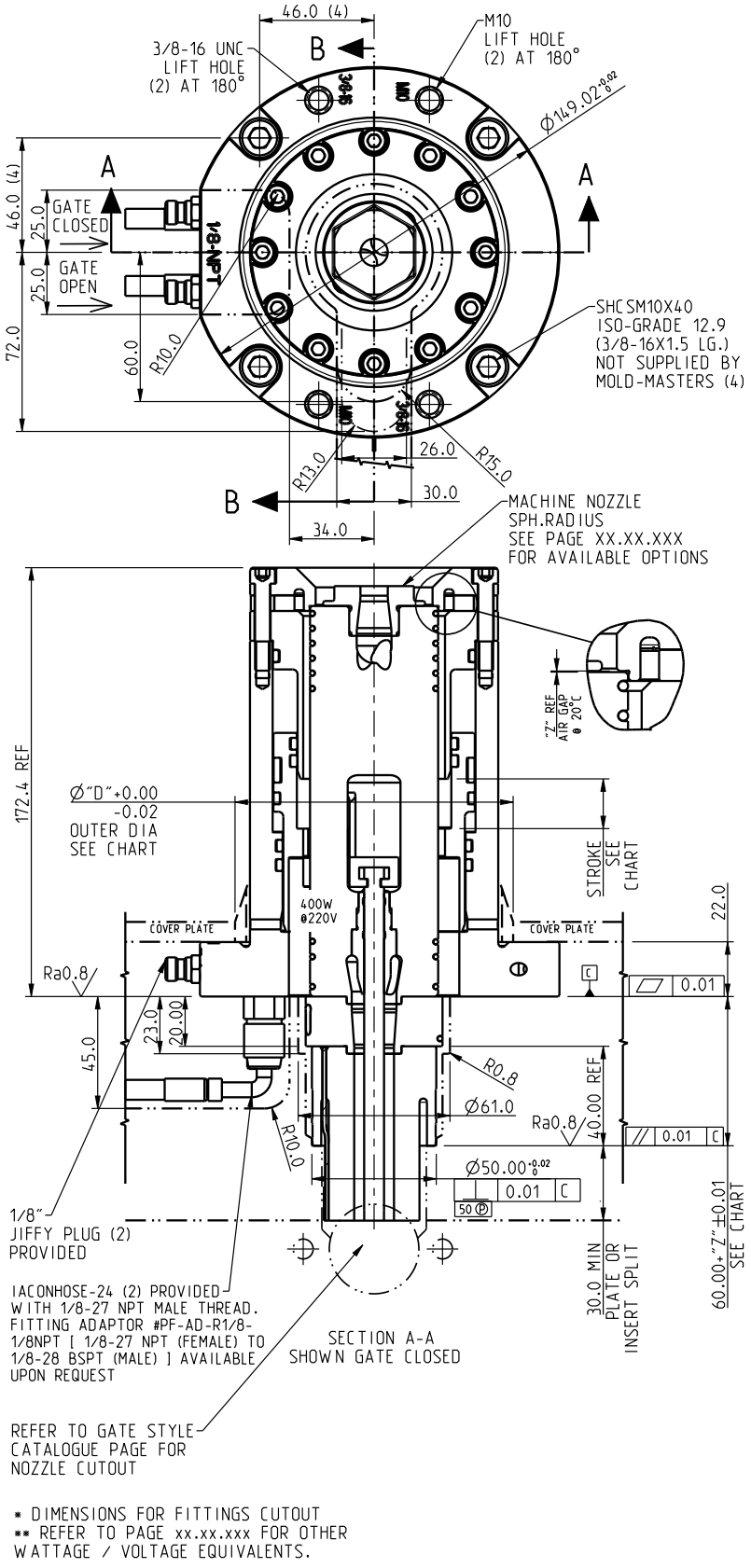


ITEM NO.	SPH. RAD."R"
BP46BL	BLANK
BP46.500	12.7
BP4615.5	15.5
BP46.750	19.1
BP4640.0	40.0

SINGLE NOZZLE OPTIONS		
LOCATING RING#	Ø D+0.02 0	USED WITH:
LR0057	Ø101.36	101.60 BORE IN FIXED PLATEN
LR0058	Ø109.77	110.00 BORE IN FIXED PLATEN

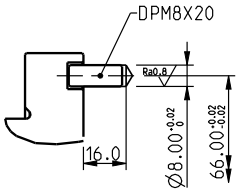
	ΔT=Tp-Tm (PROCESS TEMP.-MOLD TEMP.)			
GAP AT ROOM TEMPERATURE	150°C	200°C	250°C	300°C
"Z" +/-0.01	0.04	0.07	0.10	0.13

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* DIMENSIONS FOR FITTINGS CUTOUT
** REFER TO PAGE xx.xx.xxx FOR OTHER WATTAGE / VOLTAGE EQUIVALENTS.

ΔT=Tp - Tm (PROCESS TEMP.-MOLD TEMP.)				
AIR GAP AT ROOM TEMP	150°C	200°C	250°C	300°C
"Z" ±0.01	0.21	0.29	0.59	0.65



SECTION B-B

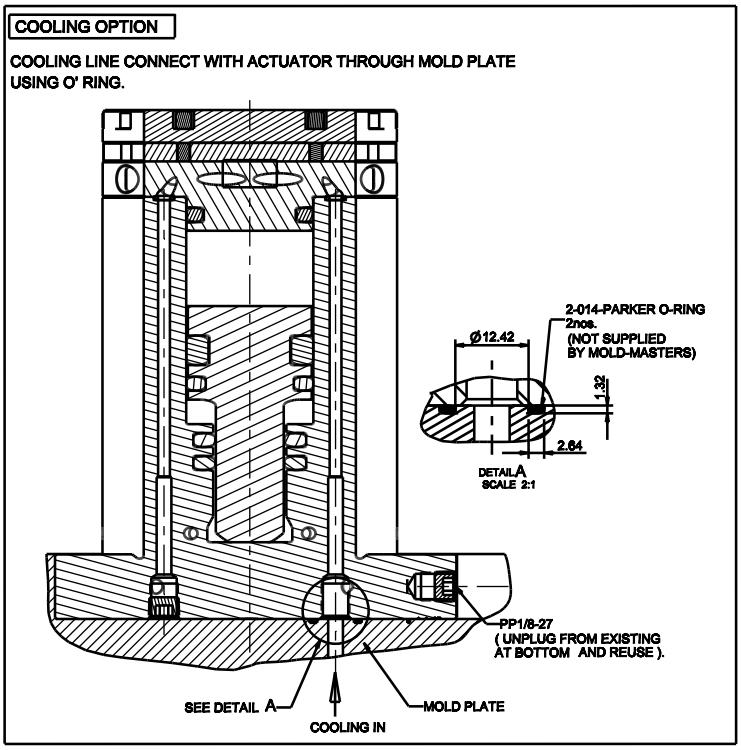
SEE PAGE xx.xx FOR NOZZLE CUTOUT

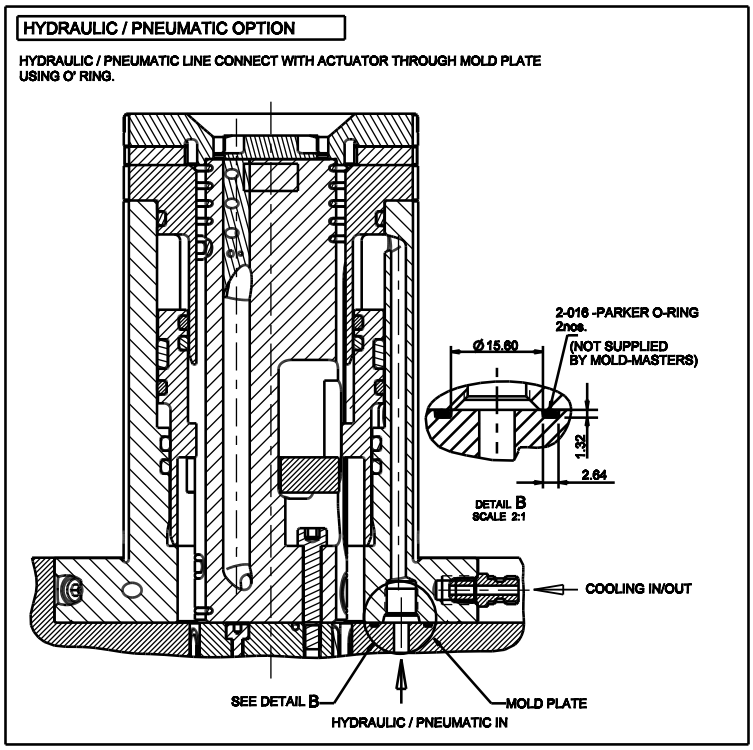
HYD.LINE PRESSURE: 30-50 BAR (435-725 PSI)
PNEU.LINE PRESSURE 5-7 BAR (73-102 PSI)

NOTE:
MAX. OPERATING TEMP.:
350°C (PROCESSING)
100°C (MOLD)

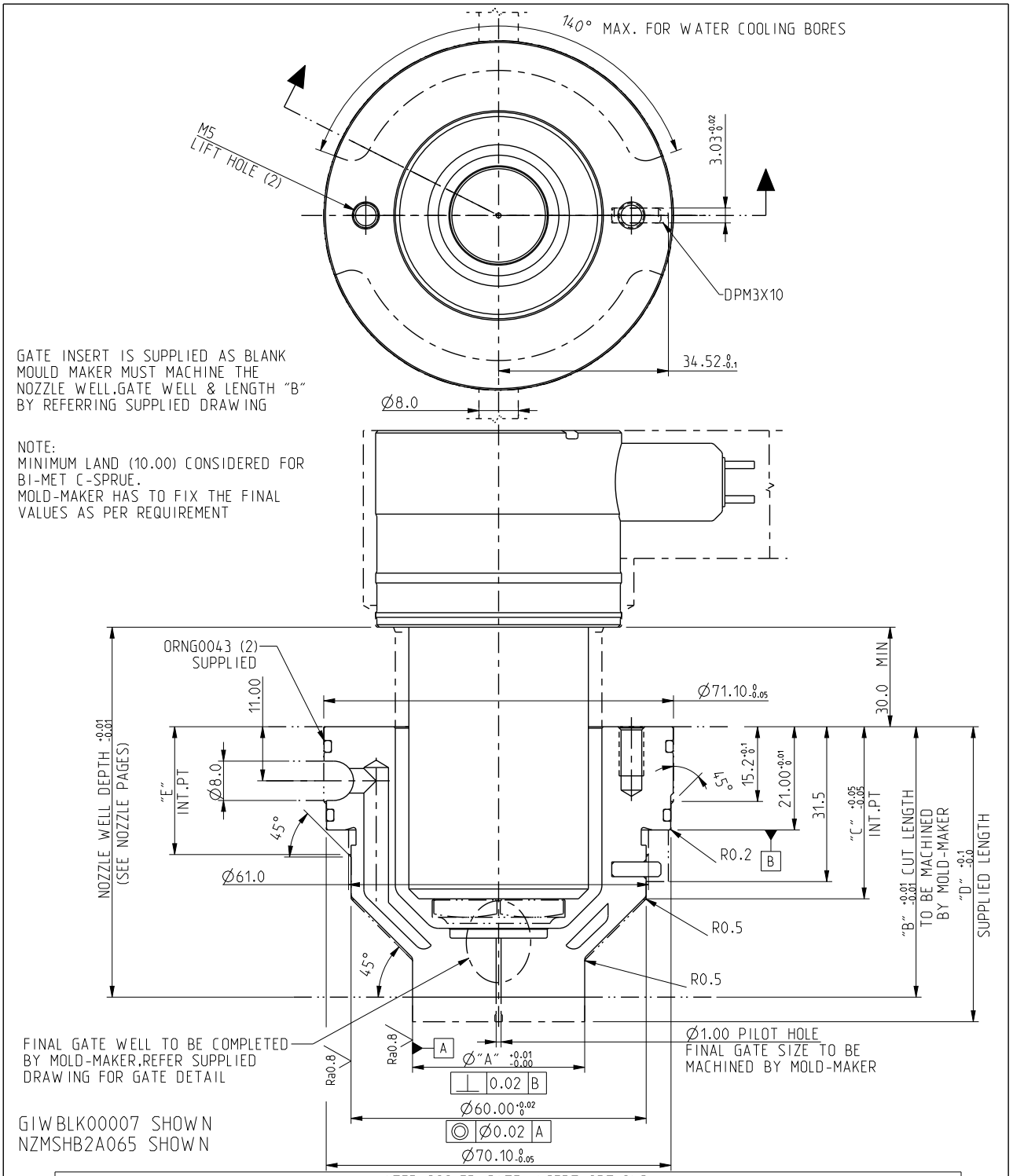
MSH PARTS OPTIONS	
INLET TIP	
INLET TIP RADIUS	STANDARD PART NAME
0.00	IE36TPBL
0.500	IE36TP.500
0.750	IE36TP.750
15.5	IE36TP15.5
20.0	IE36TP20.0
21.0	IE36TP21.0
36.0	IE36TP36.0
40.0	IE36TP40.0
PISTON	
STROKE	STANDARD PART NAME
20.0	HYPISB75
OUTER CYLINDER	
DIA	STANDARD PART NAME
Ø99.80mm	HYCYLB36
Ø101.34mm	HYCYLB36-1
Ø109.75mm	HYCYLB36-2
VALVE PIN	
DIA	STANDARD PART NAME
Ø8.0	VP069BLXXFN
ADAPTER	
RUNNER DIA	STANDARD PART NAME
Ø16.00mm	ADTR0014
Ø18.00mm	ADTR0016

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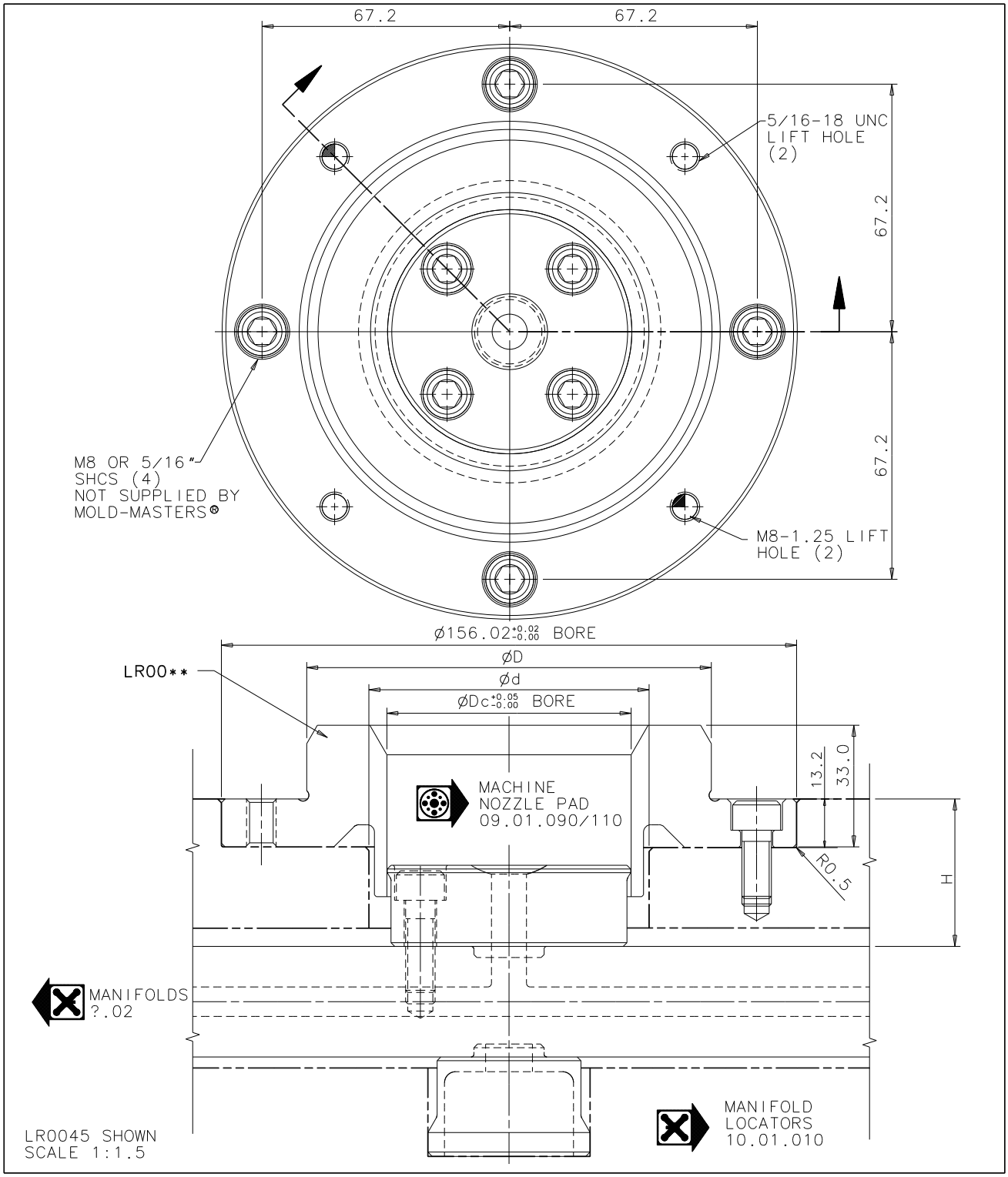


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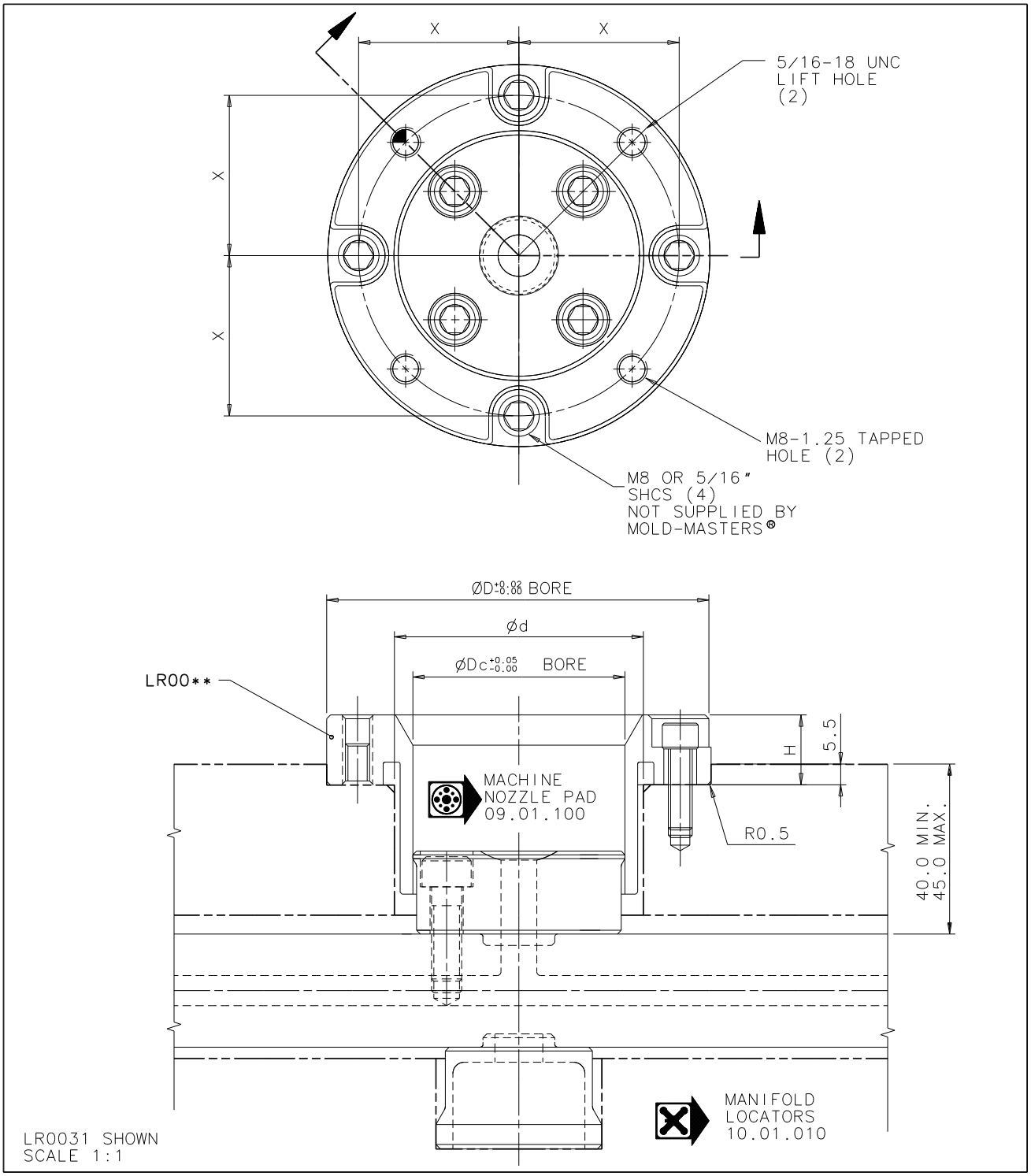
WATER COOLED GATE INSERT OPTIONS										
GATING STYLE	GIWBLK00007					GIWBLK00008				
	"A"	"B"	"C"	"D"	"E"	"A"	"B"	"C"	"D"	"E"
E-TYPE	30.00	55.00	35.00	60.0	26.0	30.00	80.00	60.00	85.0	51.0
F-TYPE	35.00	50.00				35.00	75.00			
BI-MET C-SPRUE	35.00	55.70 (SEE NOTE)				35.00	80.70 (SEE NOTE)			
SPIRAL HOT TIP	30.00	57.00				30.00	82.00			
BI-MET C-VALVE	35.00	50.00				35.00	75.00			
HOT VALVE	35.00	50.00				35.00	75.00			

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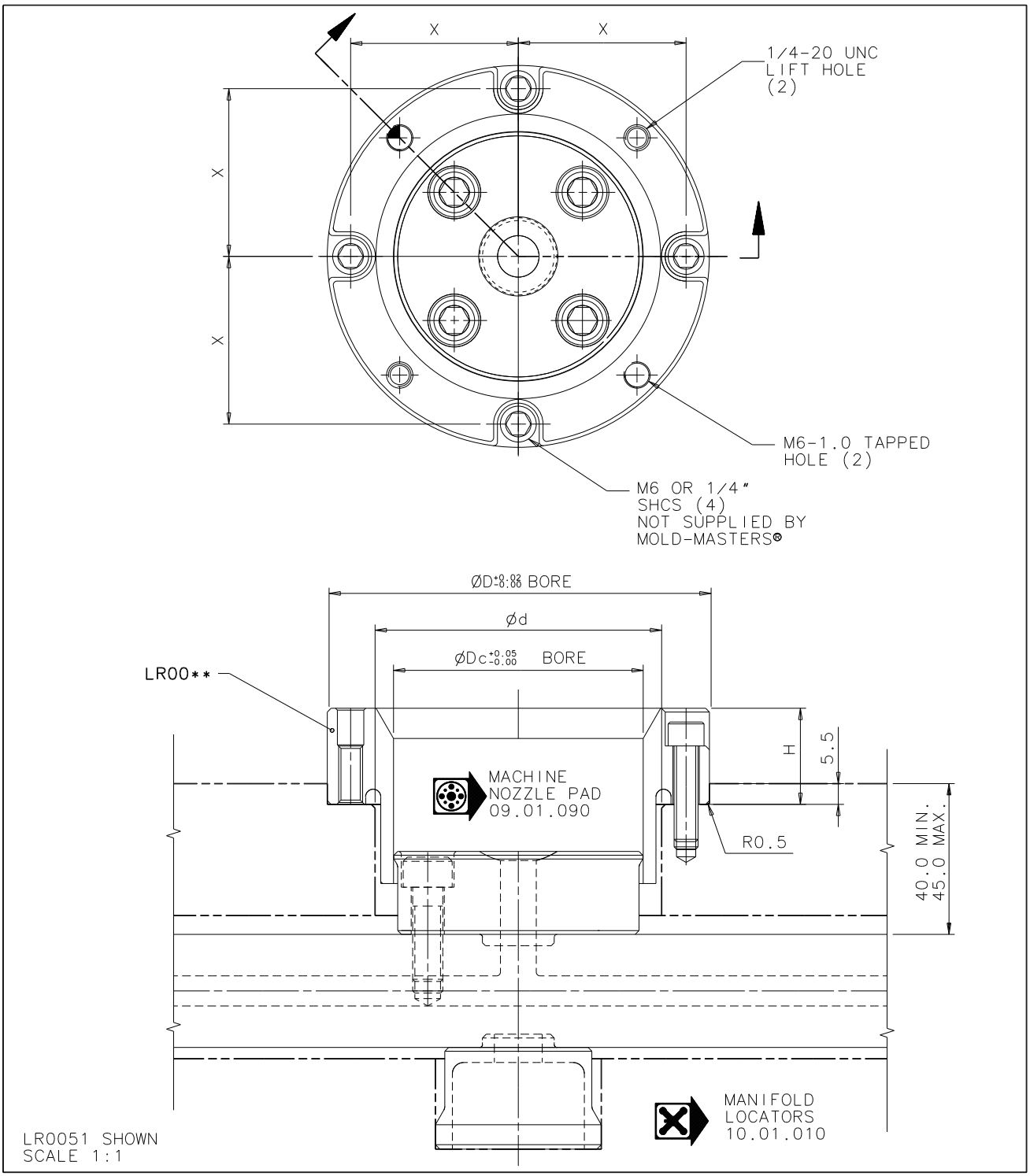
LOCATING RING OPTIONS					
LOCATING RING #	øD	ød	øDc	H	USED WITH MACHINE NOZZLE PAD #
LR0045	109.75	76.0	66.25	40.0 TO 45.0	BP22**** OR BP23****
LR0046	101.34	76.0	66.25		
LR0070	101.34	93.0	81.25	70.0 TO 75.0	BP58**** OR BP64****
LR0071	109.75	93.0	81.25		

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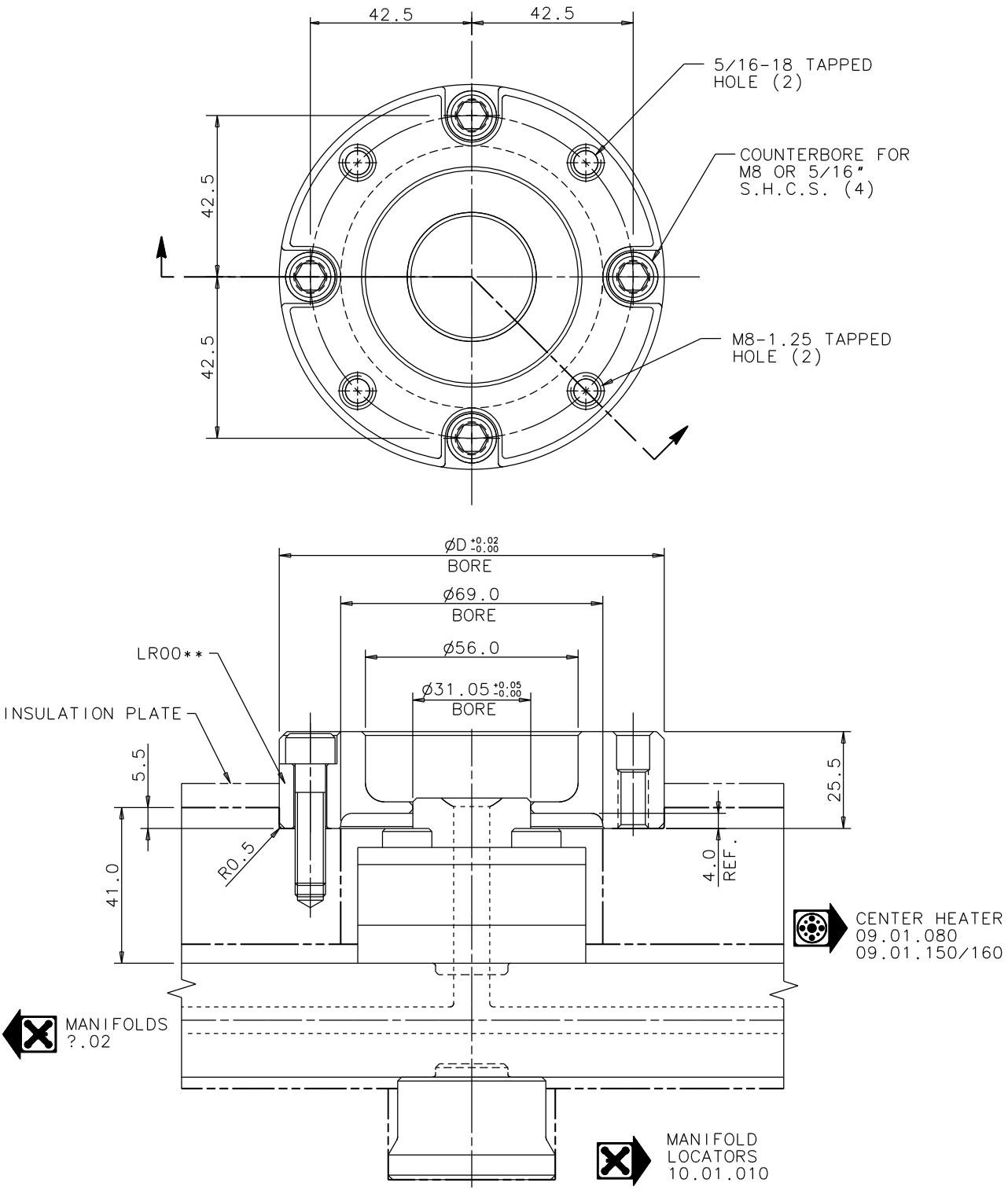
LOCATING RING OPTIONS						
LOCATING RING #	ØD	Ød	ØDc	X	H	USED WITH MACHINE NOZZLE PAD #
LR0031	101.36	66.0	56.25	42.5	18.5	BP25/27**** OR BP67****
LR0032	109.77	66.0	56.25	42.5	18.5	BP25/27**** OR BP67****
LR0033	101.36	66.0	56.25	42.5	25.5	BP25/27**** OR BP67****

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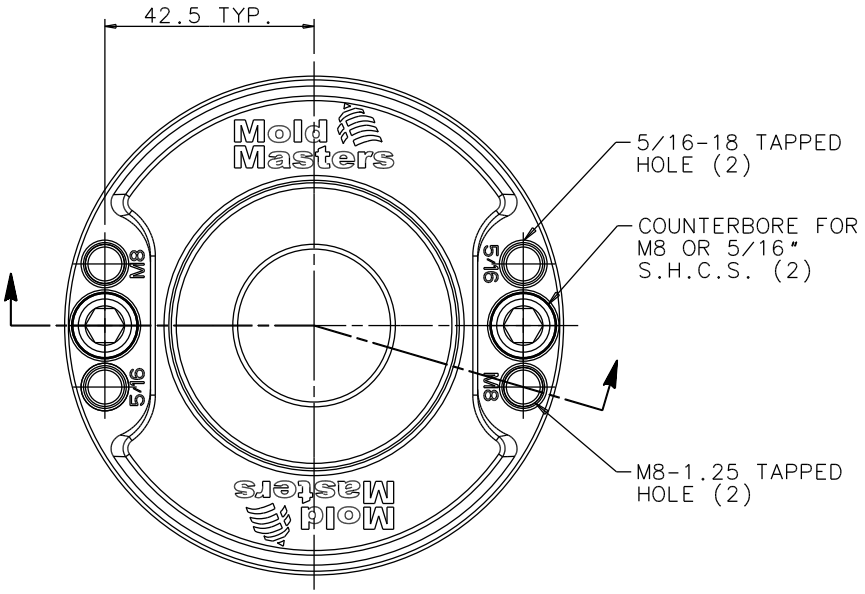
LOCATING RING OPTIONS						
LOCATING RING #	ØD	Ød	ØDc	X	H	USED WITH MACHINE NOZZLE PAD #
LR0051	101.36	76.0	66.25	44.5	25.5	BP22/23**** OR BP57/68****
LR0052	109.77	76.0	66.25	44.5	25.5	BP22/23**** OR BP57/68****

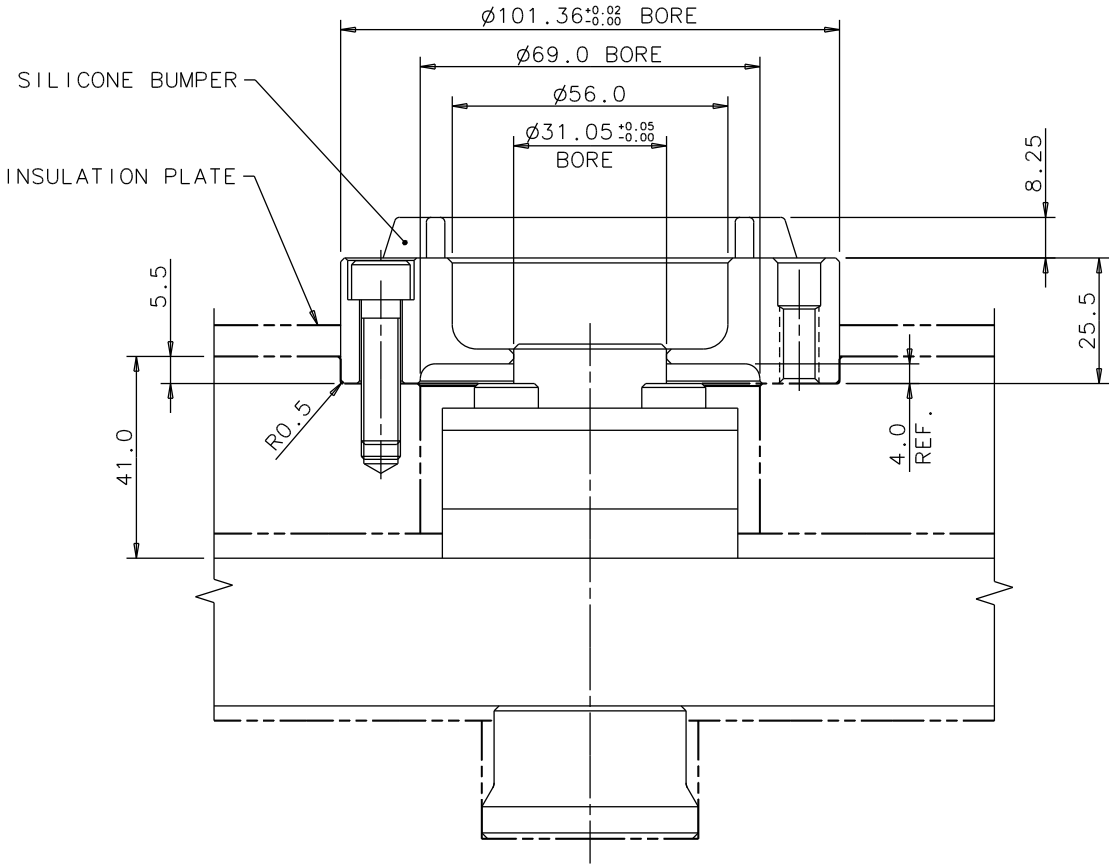
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LOCATING RING OPTIONS		
LOCATING RING #	ØD	USED WITH:
LR0069	Ø101.36	SPRUE SYSTEM WITH CH0040*
LR0083	Ø109.77	

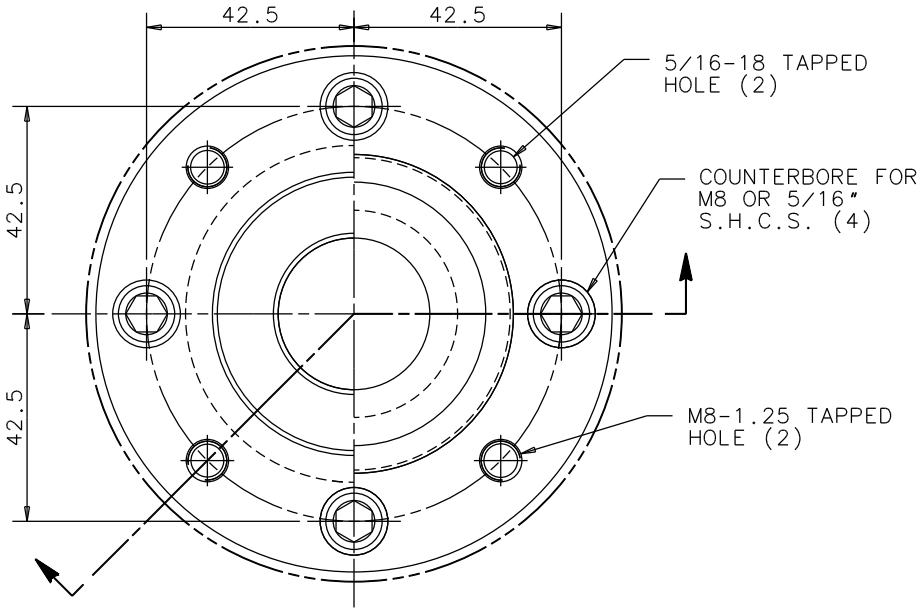
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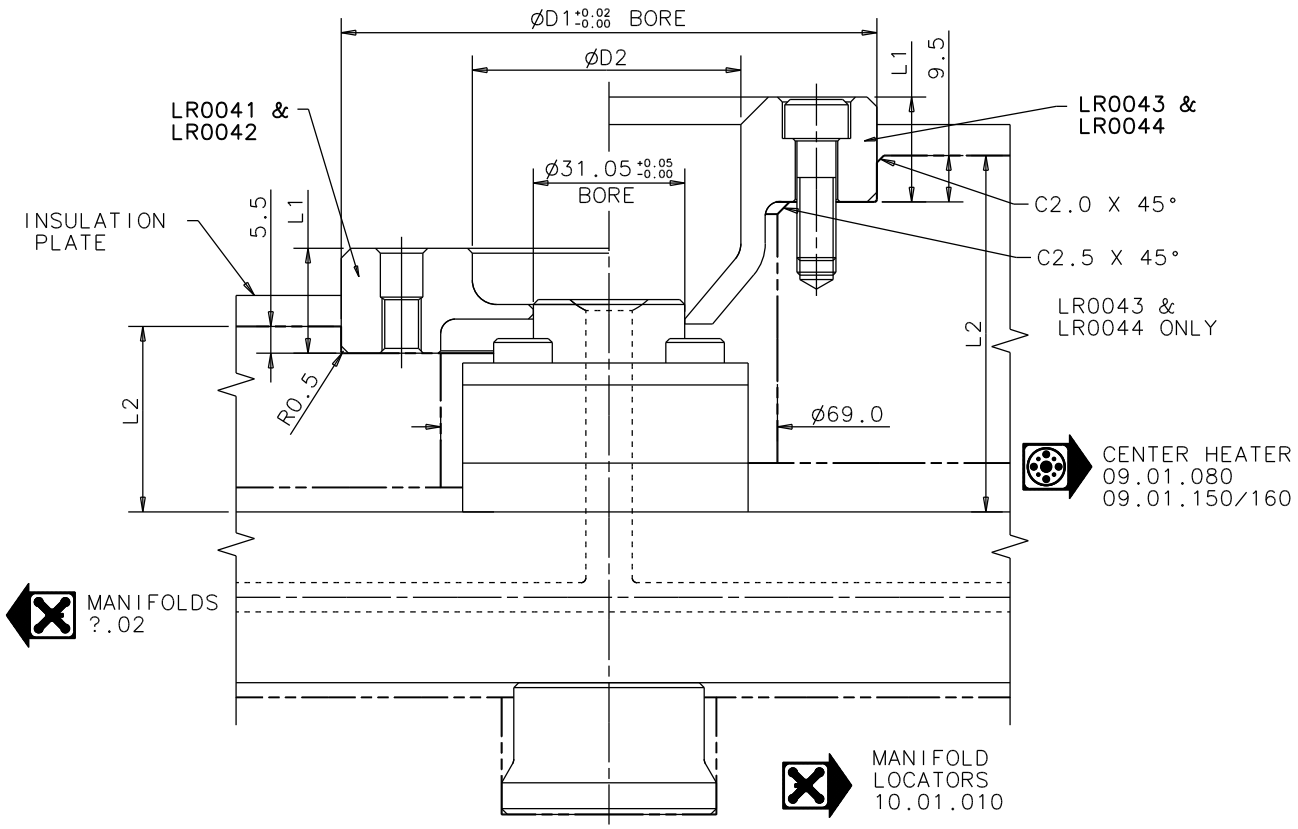




LOCATING RING OPTIONS	
LOCATING RING #	USED WITH:
LR0069PG	SPRUE SYSTEM WITH CH0040*

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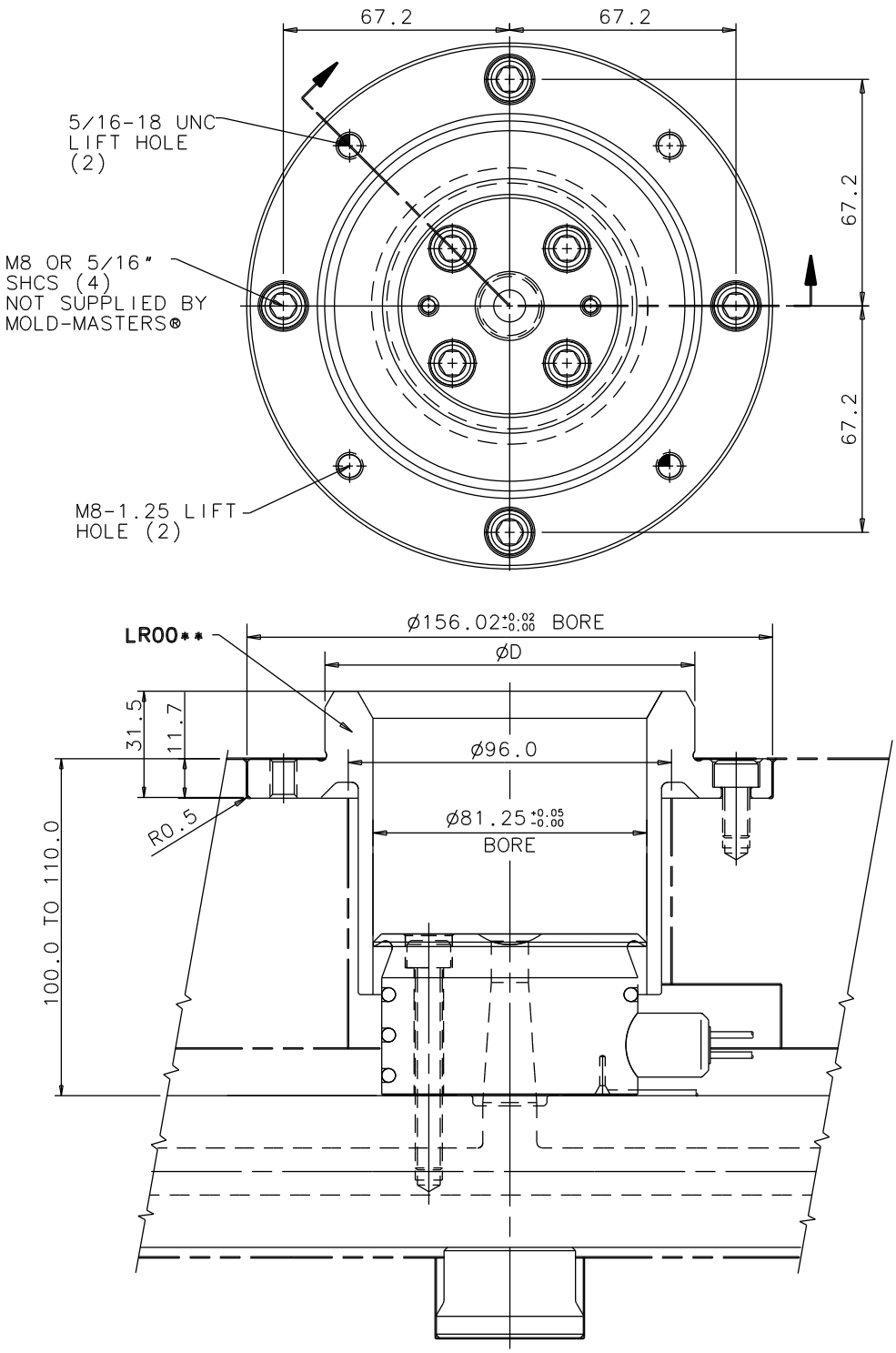




LOCATING RING OPTIONS					
LOCATING RING #	ØD1	ØD2	L1	L2	USED WITH:
LR0041	109.77	56.0	21.5	38.0	SPRUE SYSTEM WITH CH0040*
LR0042	101.36	56.0	21.5	38.0	
LR0043	109.77	54.0	18.5	73.0	VALVED SYSTEMS USING HY550** AND ALSO ON SPRUE SYSTEM WITH CH0040* WHEN GREATER STACK HEIGHT IS REQUIRED.
LR0044	101.36	54.0	18.5	73.0	

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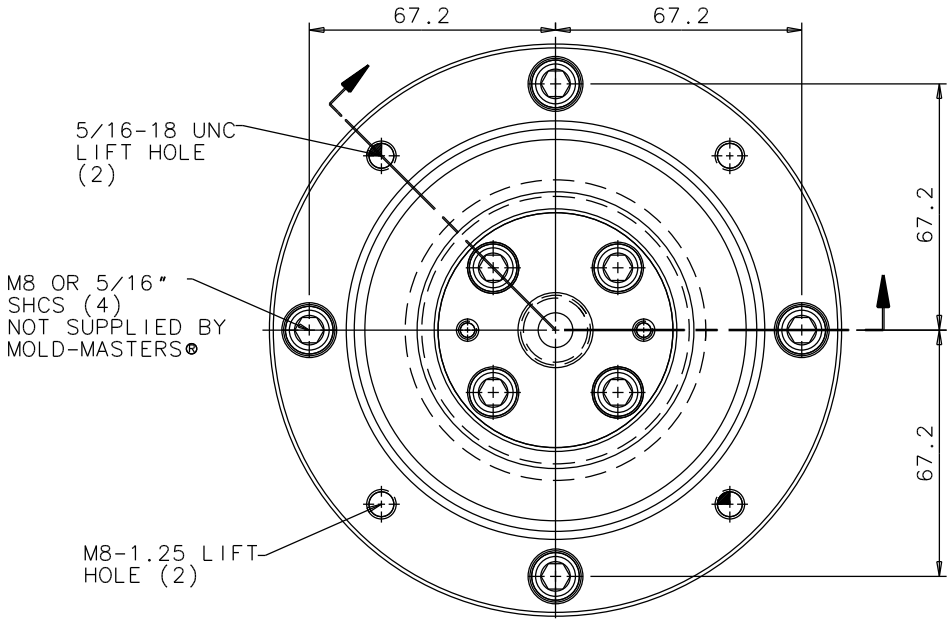
Locating Ring - Machine Nozzle Pads (BP58)

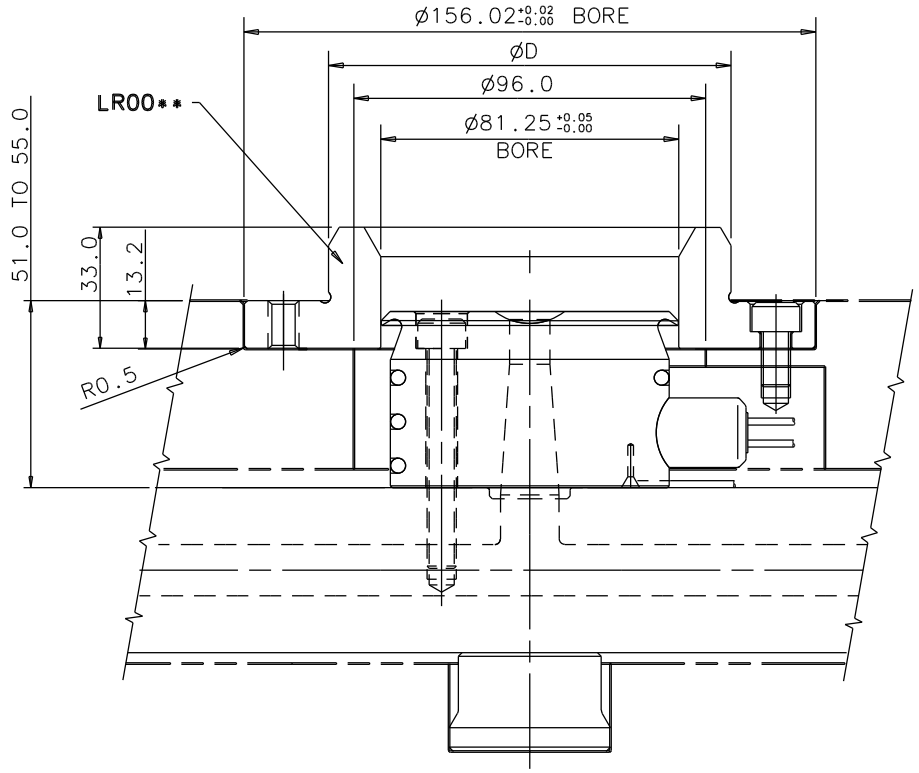


LOCTING RING OPTIONS		
LOCATING RING#	øD	USED WITH
LR0081	ø101.34	VALVE SYSTEM WITH BP58****
LR0082	ø109.75	

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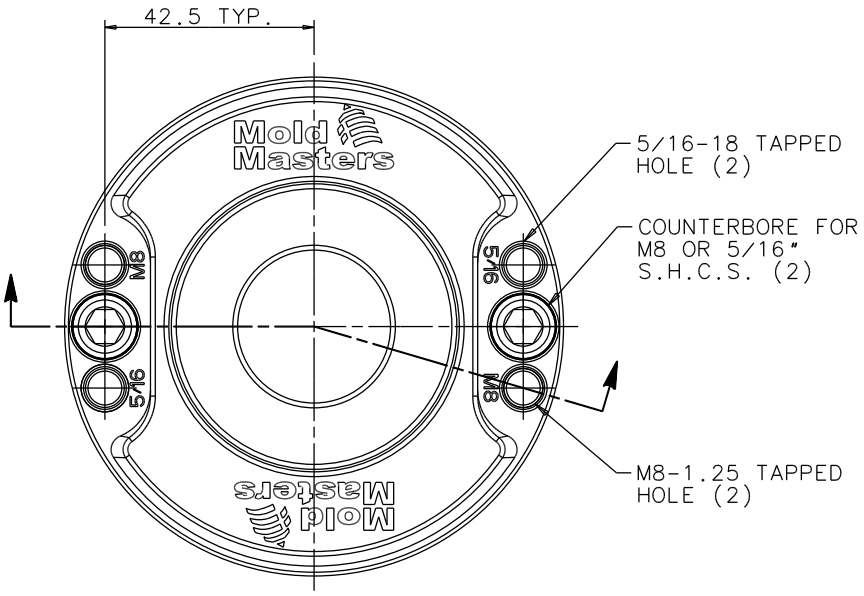
Locating Ring - Machine Nozzle Pads (BP58)

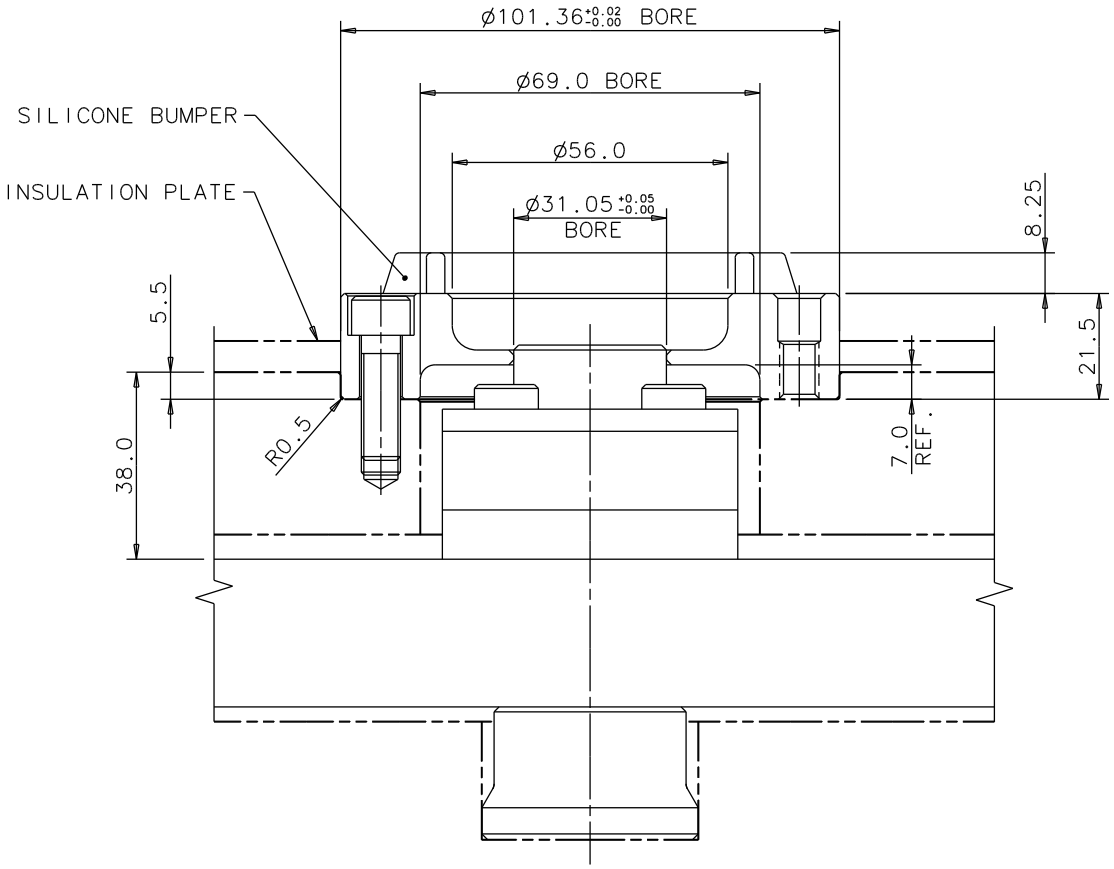




LOCATING RING OPTIONS		
LOCATING RING#	øD	USED WITH
LR0086	ø101.34	SPRUE SYSTEM WITH BP58****
LR0087	ø109.75	

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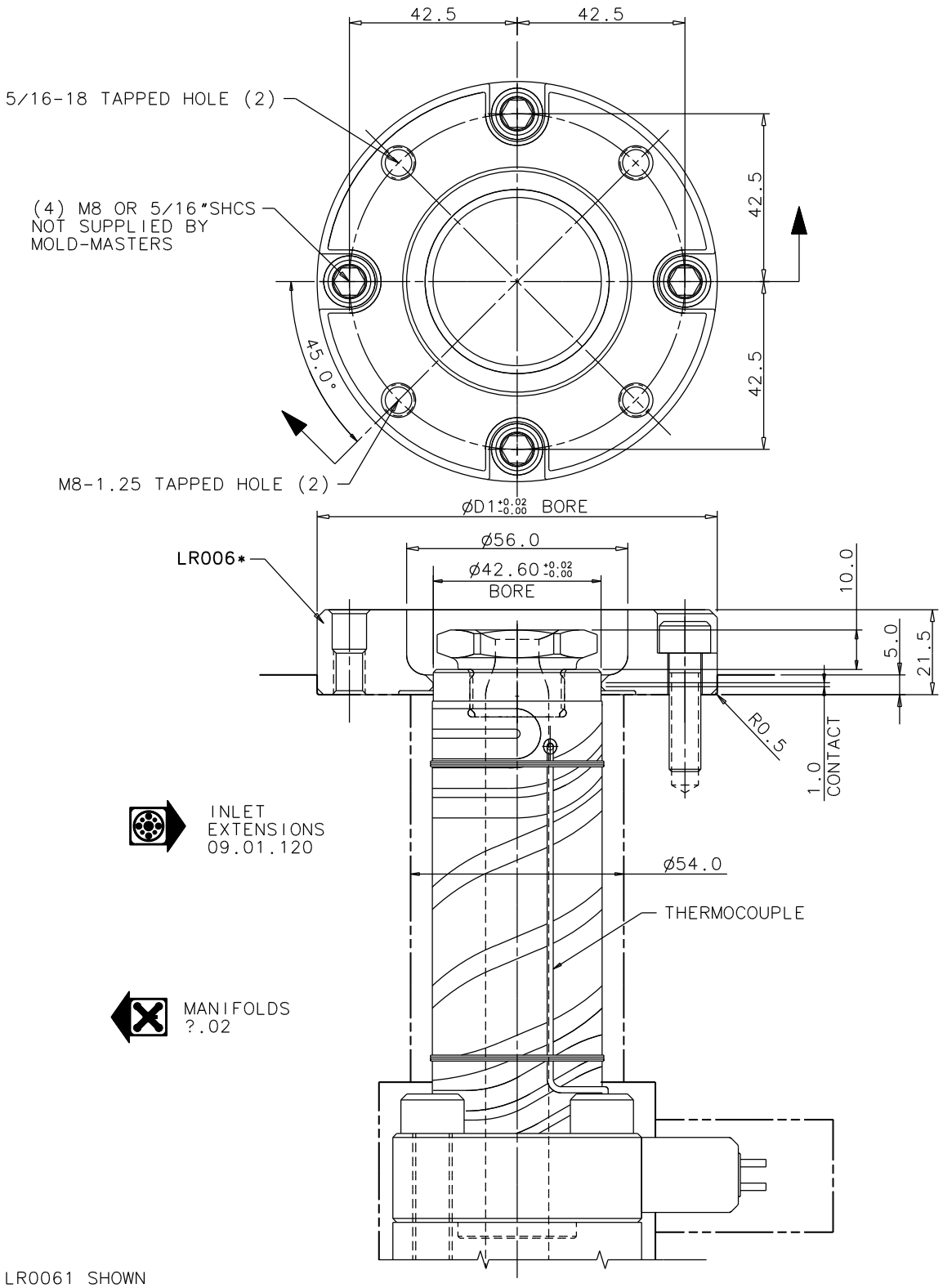




LOCATING RING OPTIONS	
LOCATING RING #	USED WITH:
LR0042PG	SPRUE SYSTEM WITH CH0040*

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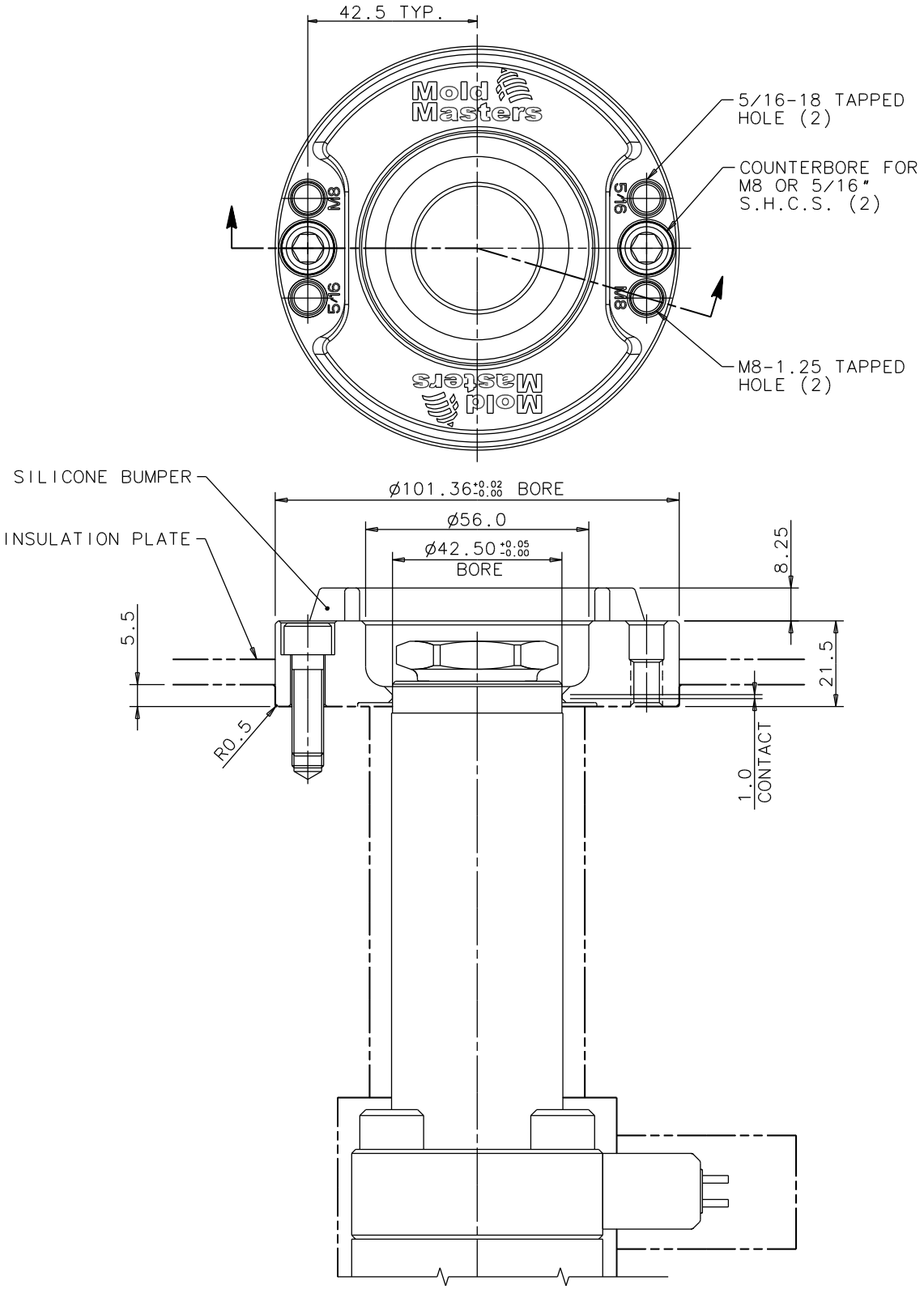
Locating Ring - Inlet Extensions (IE01, IE02, IE03) 09.01.050



LR0061 SHOWN

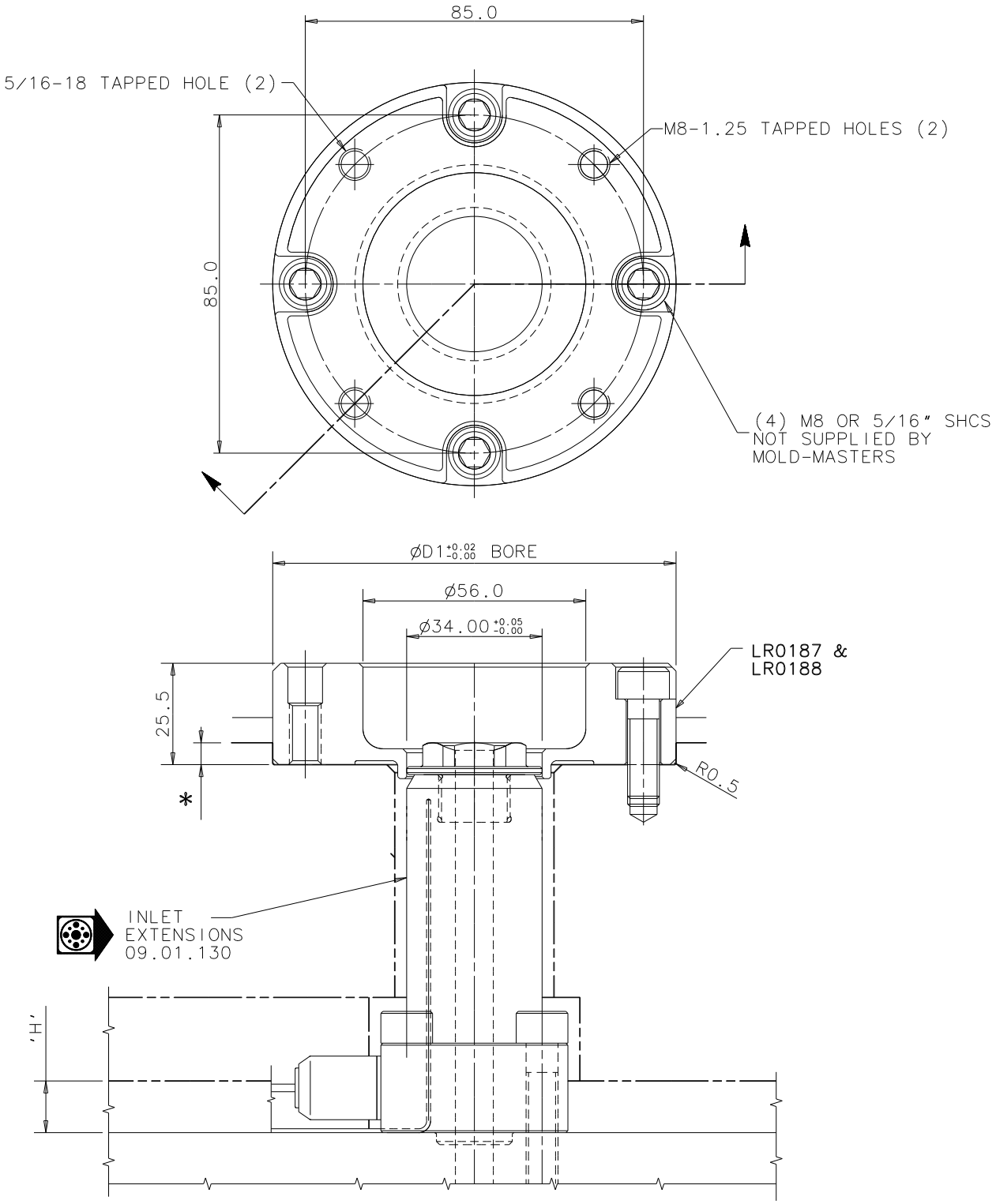
LOCATING RING OPTIONS		
LOCATING RING #	ØD1	USED WITH
LR0061	101.36	INLET EXTENSIONS IE01***, IE02*** OR IE03***
LR0062	109.77	

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LOCATING RING OPTIONS	
LOCATING RING #	USED WITH:
LR0061PG	INLET EXTENSIONS IE01***, IE02*** OR IE03***

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LR0188 SHOWN WITH IE08090

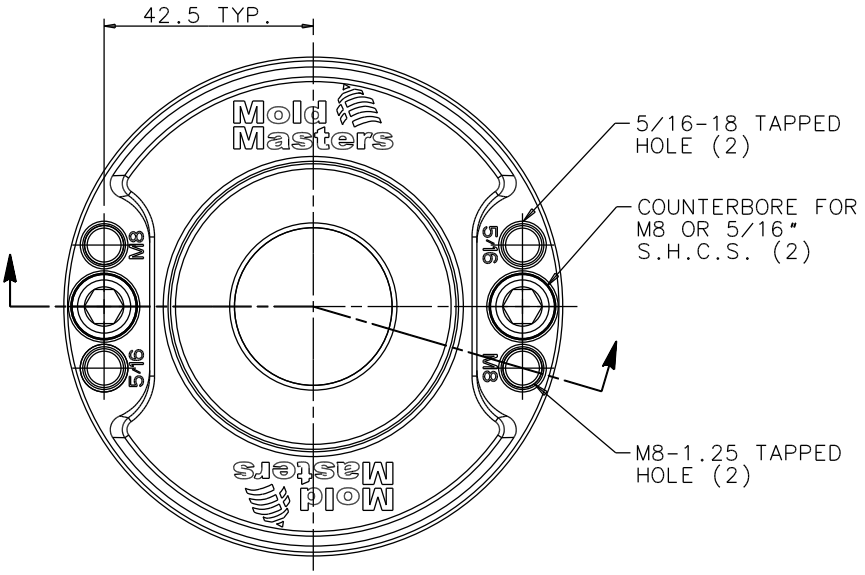
SCALE 1:1.5

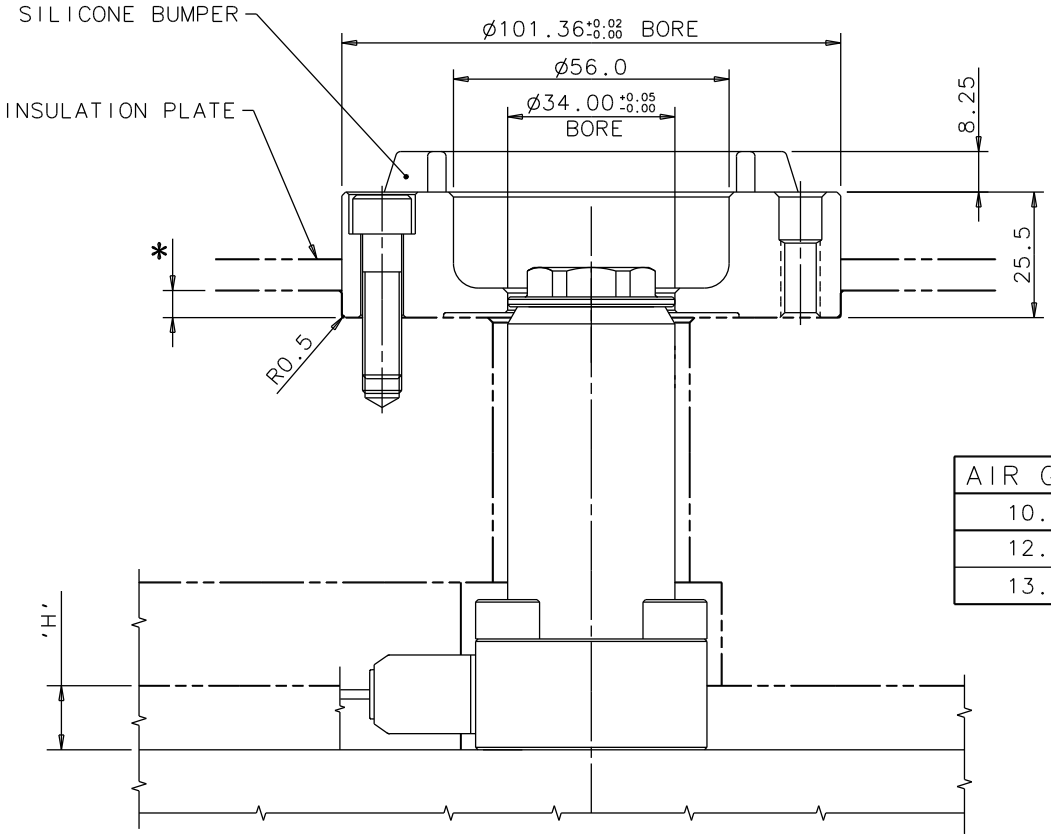
MANIFOLDS ?.02

LOCATING RING OPTIONS		
LOCATING RING #	D1	USED WITH:
LR0187	109.77	INLET EXTENSIONS IE08*** OR IE09*** WITH EXT. VALVE DISK
LR0188	101.36	

AIR GAP 'H'	*
10.0	5.5
12.0	7.5
13.0	8.5

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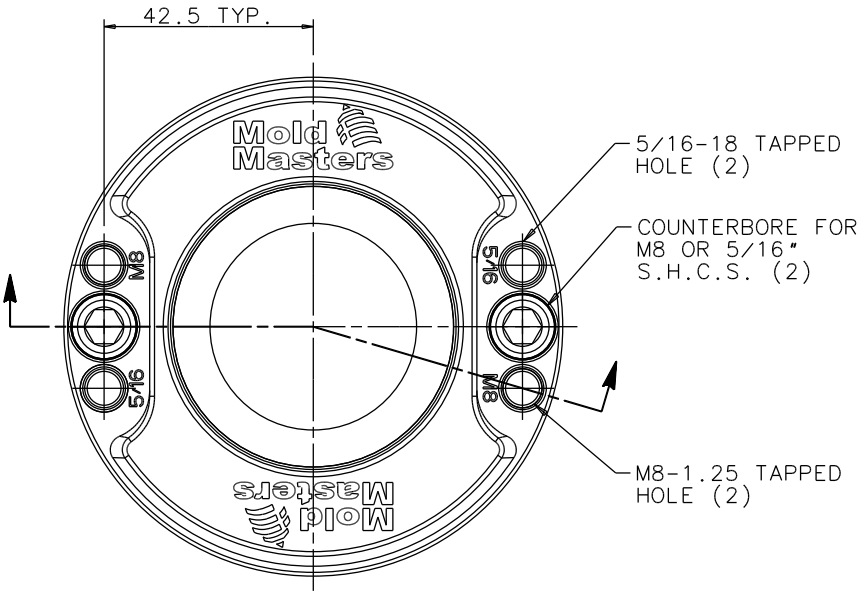


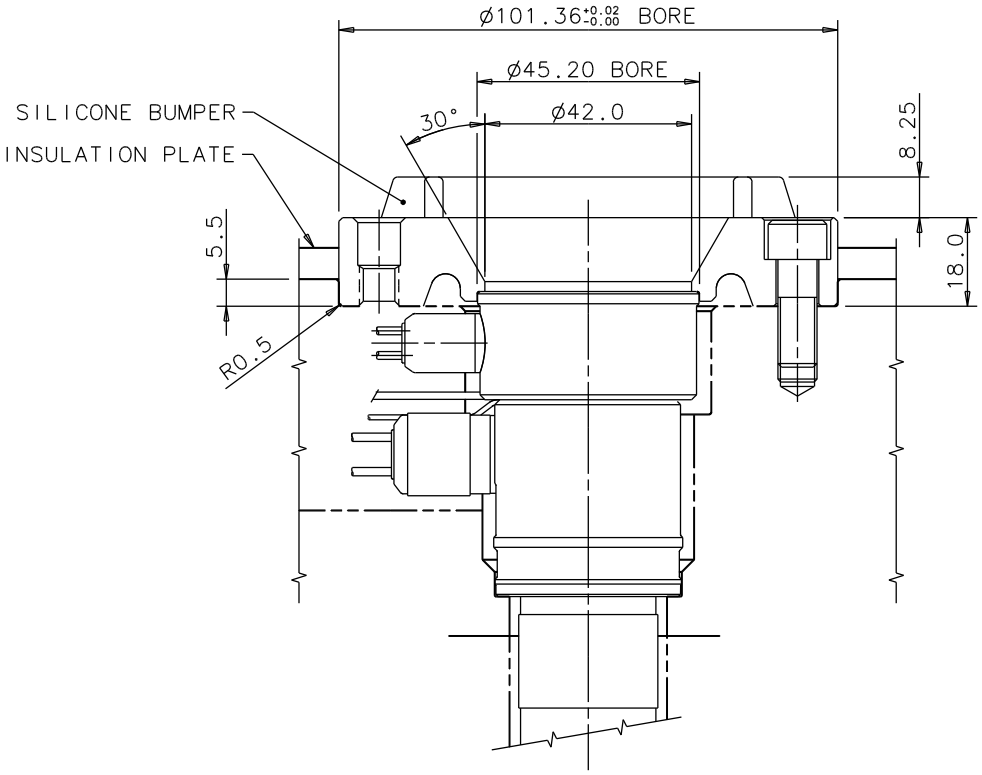


AIR GAP 'H'	*
10.0	5.5
12.0	7.5
13.0	8.5

LOCATING RING OPTIONS	
LOCATING RING #	USED WITH:
LR0066PG	INLET EXTENSIONS IE08*** OR IE09***

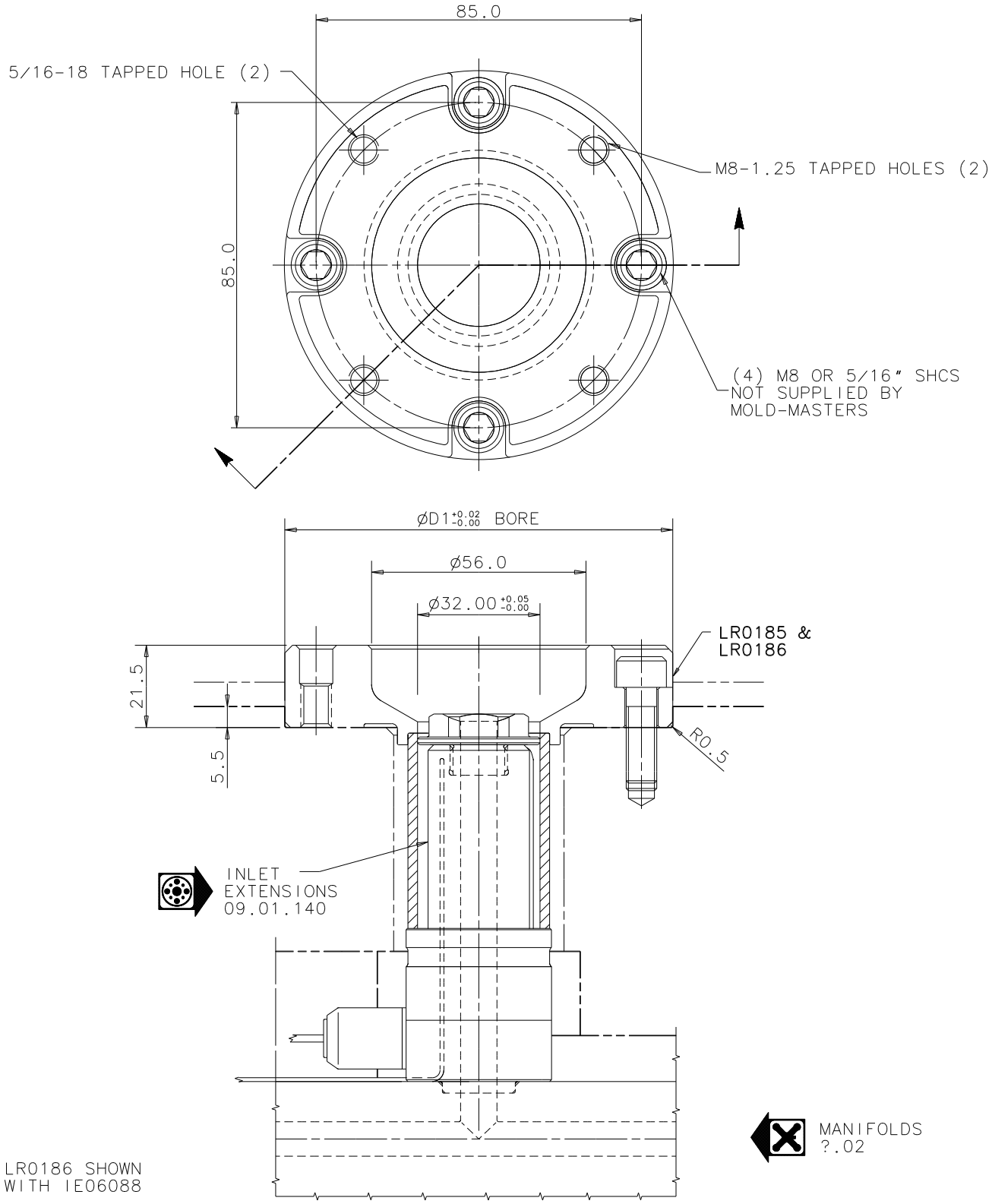
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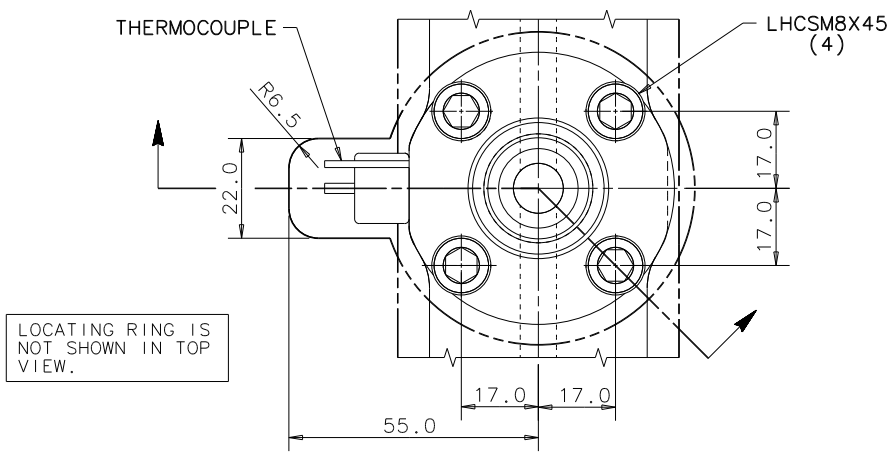
LOCATING RING OPTIONS	
LOCATING RING #	USED WITH:
LR0055PG	SINGLE NOZZLE SPRUE SYSTEM WITH BP45****

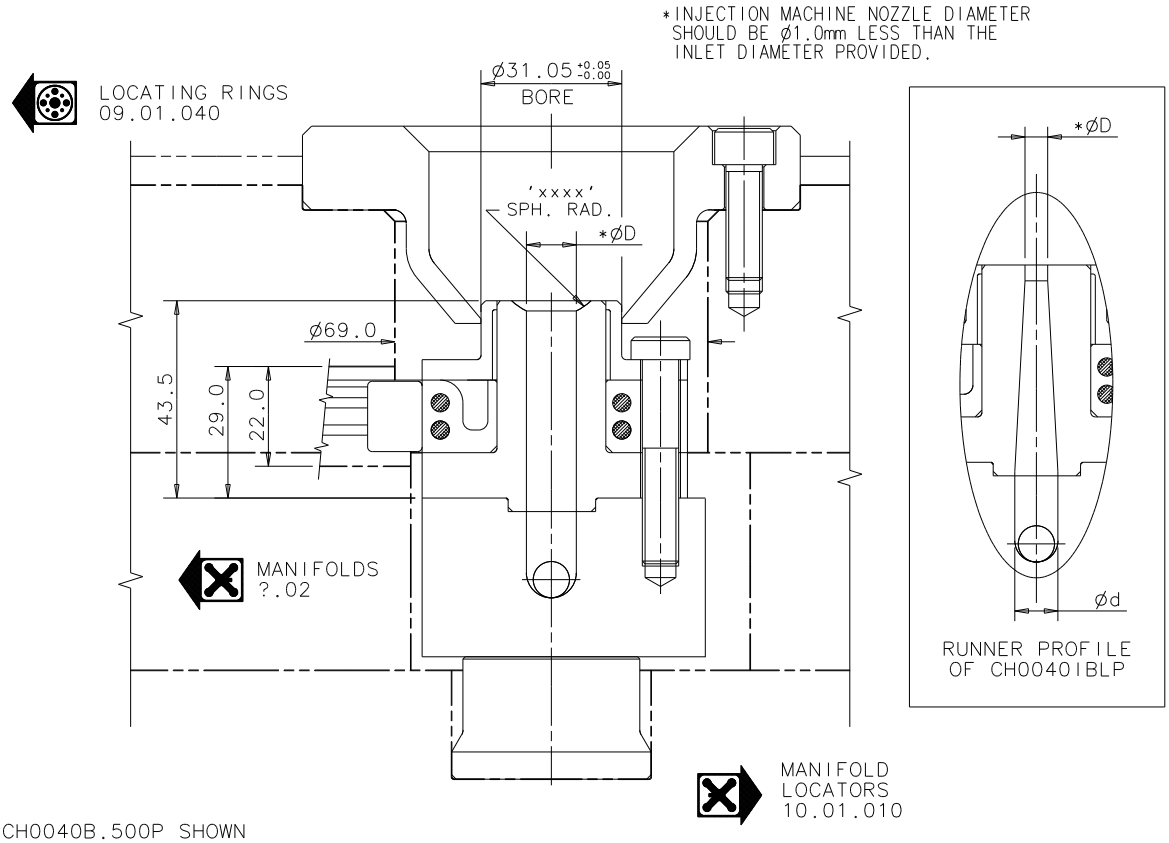
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LOCATING RING OPTIONS		
LOCATING RING #	D1	USED WITH:
LR0185	109.77	INLET EXTENSIONS IE06*** & IE07*** WITH EXT.VALVE DISK
LR0186	101.36	

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CH0040B.500P SHOWN
SCALE 1:1.5

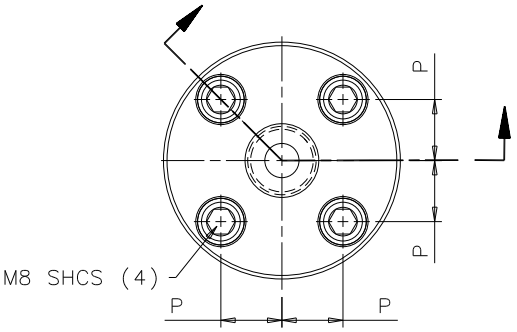
CENTER HEATER OPTIONS			**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	
CENTER HEATER ASSEMBLY #	øD	ød	**POWER @ 220V	USED WITH
CH0040AxxxxP	9.5		600W	BOLT-IN (HEATER PLATE) MANIFOLDS; CAST-IN HEATER MANIFOLDS RUNNING ENGINEERING RESINS
CH0040BxxxxP	11.0			
CH0040IxxxxP	5.0	9.5		

xxxx = MACHINE NOZZLE SPHERICAL RADIUS
= BL (FOR 0.0 R)
= .500 (FOR 1/2" R)
= .750 (FOR 3/4" R)
= .520 (FOR 13.2mm R)
= 15.5 (FOR 15.5mm R)
= 40.0 (FOR 40.0mm R)

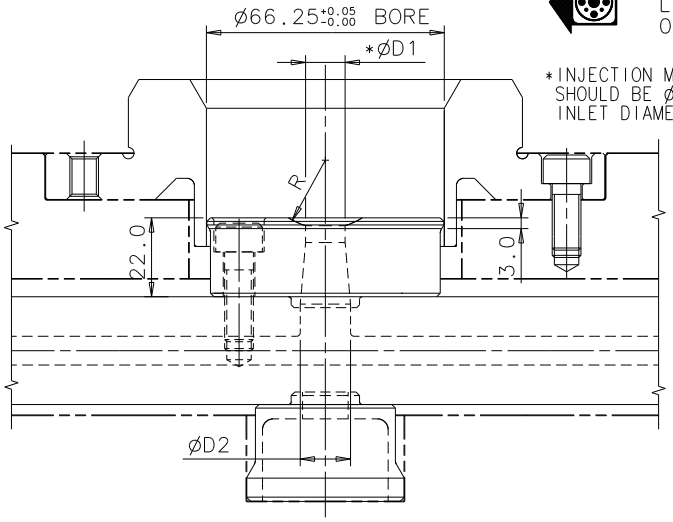
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Machine Nozzle Pads (Unheated) (BP22, BP23, BP57, BP68, BP80) 09.01.090

NOTE: USED WITH CAST-IN HEATER MANIFOLDS ONLY



LOCATING RINGS
09.01.010



*INJECTION MACHINE NOZZLE DIAMETER SHOULD BE ø1.0mm LESS THAN THE INLET DIAMETER PROVIDED.

MANIFOLDS
?.02

MANIFOLD LOCATORS
10.01.010

BP68.500, LR0045 SHOWN
SCALE 1:2

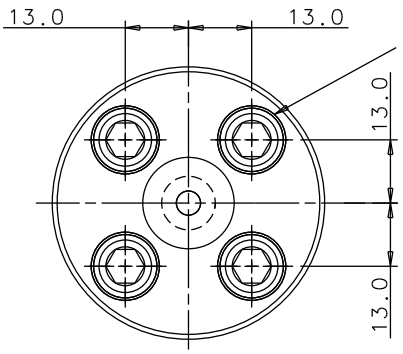
MACHINE NOZZLE PAD OPTIONS

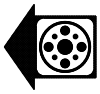
MACHINE NOZZLE PAD #	øD1	øD2	R	P	USED WITH:
BP68BL	11.0	14.0	0.0	17.0	LARGE SHOT VOLUME MAIN MANIFOLDS
BP68.500	11.0	14.0	12.7		
BP6815.5	11.0	14.0	15.5		
BP68.750	11.0	14.0	19.1		
BP6840.0	11.0	14.0	40.0		
BP22BL	9.5	9.5	0.0	17.0	MSF MANIFOLDS MSP MANIFOLDS MSC MANIFOLDS MSD MANIFOLDS
BP22.500	9.5	9.5	12.7		
BP22.520	9.5	9.5	13.2		
BP2215.5	9.5	9.5	15.5		
BP22.750	9.5	9.5	19.1		
BP2240.0	9.5	9.5	40.0		
BP23BL	11.0	11.0	0.0	17.0	MAIN MANIFOLDS INCLUDING MN42I*
BP23.500	11.0	11.0	12.7		
BP2315.5	11.0	11.0	15.5		
BP23.750	11.0	11.0	19.1		
BP2340.0	11.0	11.0	40.0		
BP57BL	9.5	9.5	0.0	13.0	MSP 4I MANIFOLDS <=30 PITCH MSC 4I MANIFOLDS <=30 PITCH
BP57.500	9.5	9.5	12.7		
BP5715.5	9.5	9.5	15.5		
BP57.750	9.5	9.5	19.1		
BP5740.0	9.5	9.5	40.0		
BP80BL	5.0	9.5	0.0	17.0	MSF MANIFOLDS MSP MANIFOLDS MSC MANIFOLDS MSD MANIFOLDS
BP80.500	5.0	9.5	12.7		
BP80.520	5.0	9.5	13.2		
BP80.750	5.0	9.5	19.1		
BP8015.5	5.0	9.5	15.5		
BP8040.0	5.0	9.5	40.0		

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NOTE: USED WITH CAST-IN HEATER MANIFOLDS ONLY

BP27 SHOWN TOP VIEW





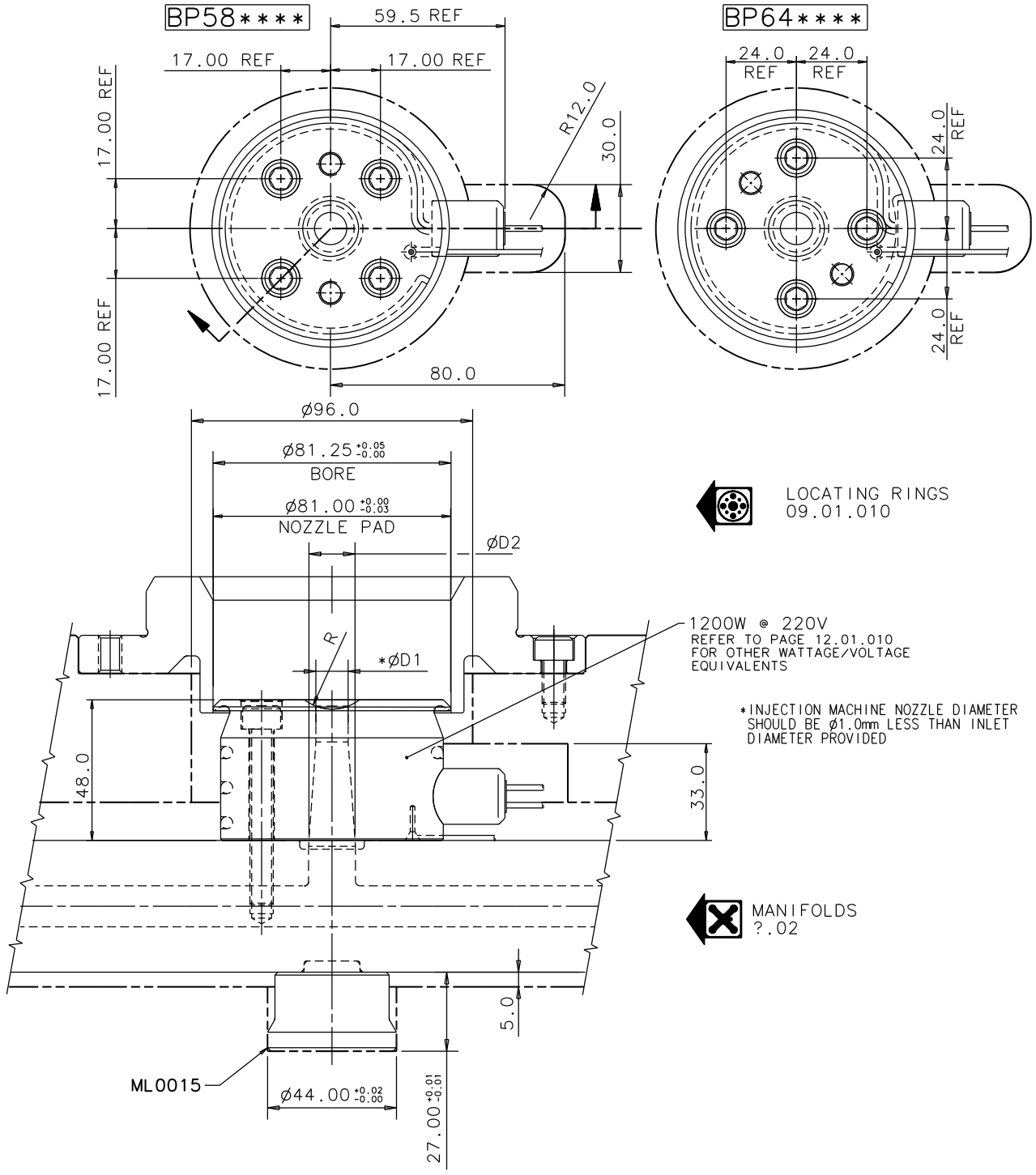
LOCATING RINGS
09.01.020

*INJECTION MACHINE NOZZLE DIAMETER SHOULD BE ø1.0mm LESS THAN INLET DIAMETER PROVIDED

MANIFOLDS
?.02

MACHINE NOZZLE PAD OPTIONS				
PAD #	D1	D2	R	USED WITH:
BP67.500	9.5	9.5	12.7	FOR SPECIALS AS REQUIRED
BP6715.5	9.5	9.5	15.5	
BP67.750	9.5	9.5	19.1	
BP6740.0	9.5	9.5	40.0	
BP67BL	9.5	9.5	0.0	
BP27.500	5.0	9.5	12.7	FOR MSP 4I MANIFOLDS <=30 PITCH FOR MSC 4I MANIFOLDS <=30 PITCH
BP2715.5	5.0	9.5	15.5	
BP27.750	5.0	9.5	19.1	
BP2740.0	5.0	9.5	40.0	
BP27BL	5.0	9.5	0.0	
BP25.500	11.0	11.0	12.7	FOR SPECIALS AS REQUIRED
BP2515.5	11.0	11.0	15.5	
BP25.750	11.0	11.0	19.1	
BP2540.0	11.0	11.0	40.0	
BP25BL	11.0	11.0	0.0	

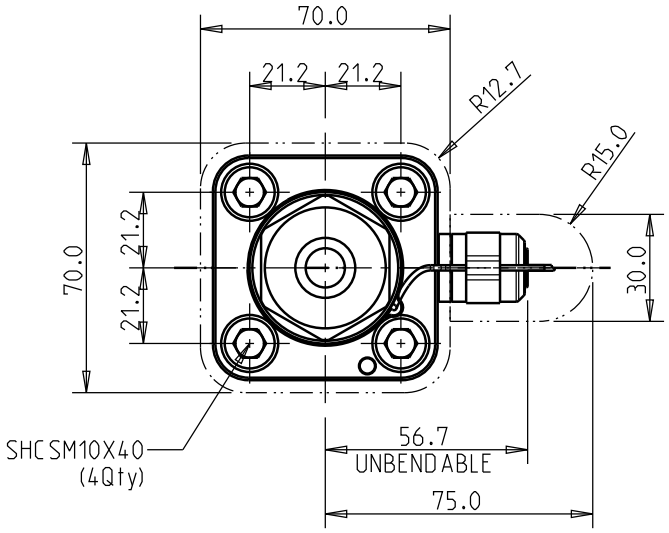
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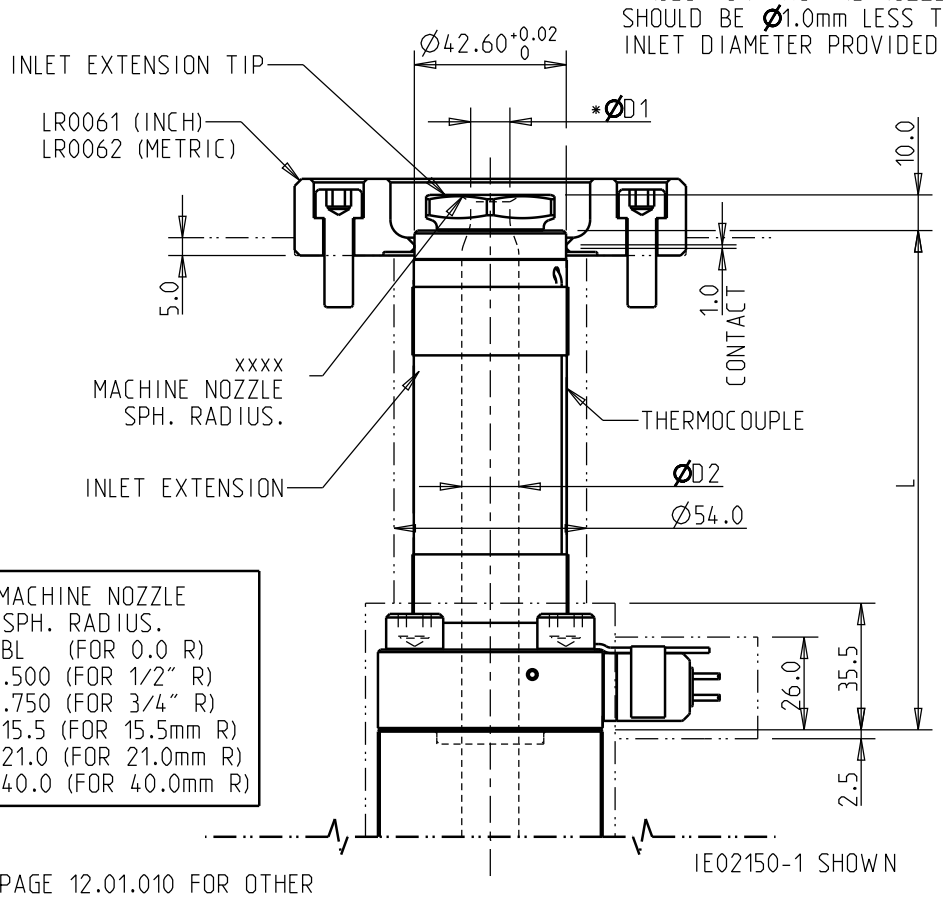
MACHINE NOZZLE PAD OPTIONS			
MACHINE NOZZLE PART #	øD1	øD2	USED WITH
BP58****	11.0	16.0	MSH MANIFOLDS
BP64****	11.0	16.0	MSH MANIFOLDS

SPHERICAL RADIUS R	
BP**BL	0.0
BP**.500	12.7 MM
BP**.750	19.1 MM
BP**15.5	15.5 MM
BP**40.0	40.0 MM

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*INJECTION MACHINE NOZZLE DIAMETER SHOULD BE Ø1.0mm LESS THAN INLET DIAMETER PROVIDED.



xxxx - MACHINE NOZZLE SPH. RADIUS.
- BL (FOR 0.0 R)
- .500 (FOR 1/2" R)
- .750 (FOR 3/4" R)
- 15.5 (FOR 15.5mm R)
- 21.0 (FOR 21.0mm R)
- 40.0 (FOR 40.0mm R)

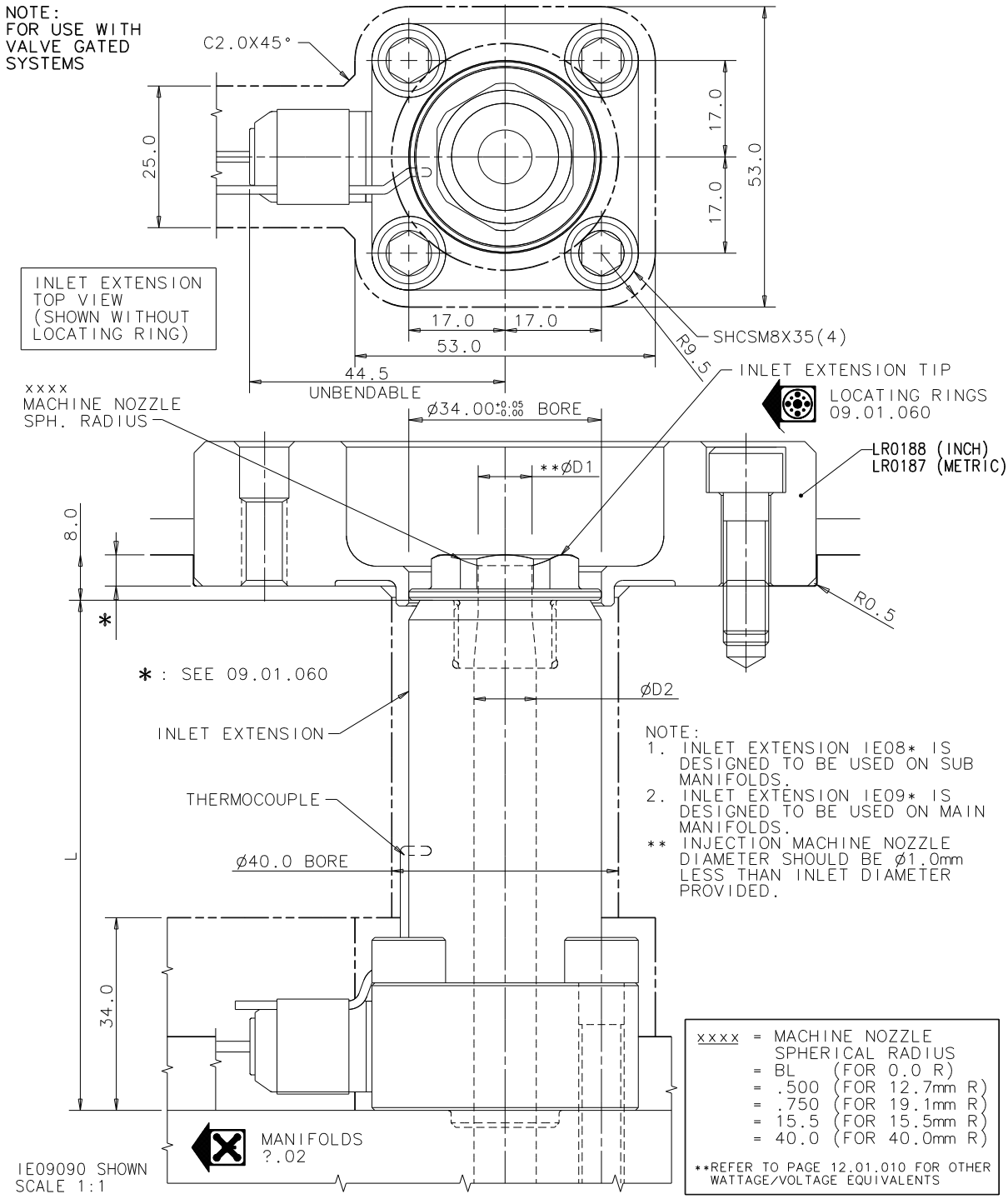
**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS

INLET EXT.	L	ØD1	ØD2	**POWER @ 220V
IE01100-1	90	11.0	11.0	1600W
IE01150-1	140			2000W
IE01200-1	190			2050W
IE01250-1	240			2450W
TIP# : IE01TPxxxx				

INLET EXT.	L	ØD1	ØD2	**POWER @ 220V
IE02100-1	90	11.0	16.0	1600W
IE02150-1	140			2000W
IE02200-1	190			2050W
IE02250-1	240			2450W
TIP# : IE02TPxxxx				

INLET EXT.	L	ØD1	ØD2	**POWER @ 220V
IE03100-1	90	11.0	18.0	1600W
IE03150-1	140			2000W
IE03200-1	190			2050W
IE03250-1	240			2450W
TIP# : IE03TPxxxx				

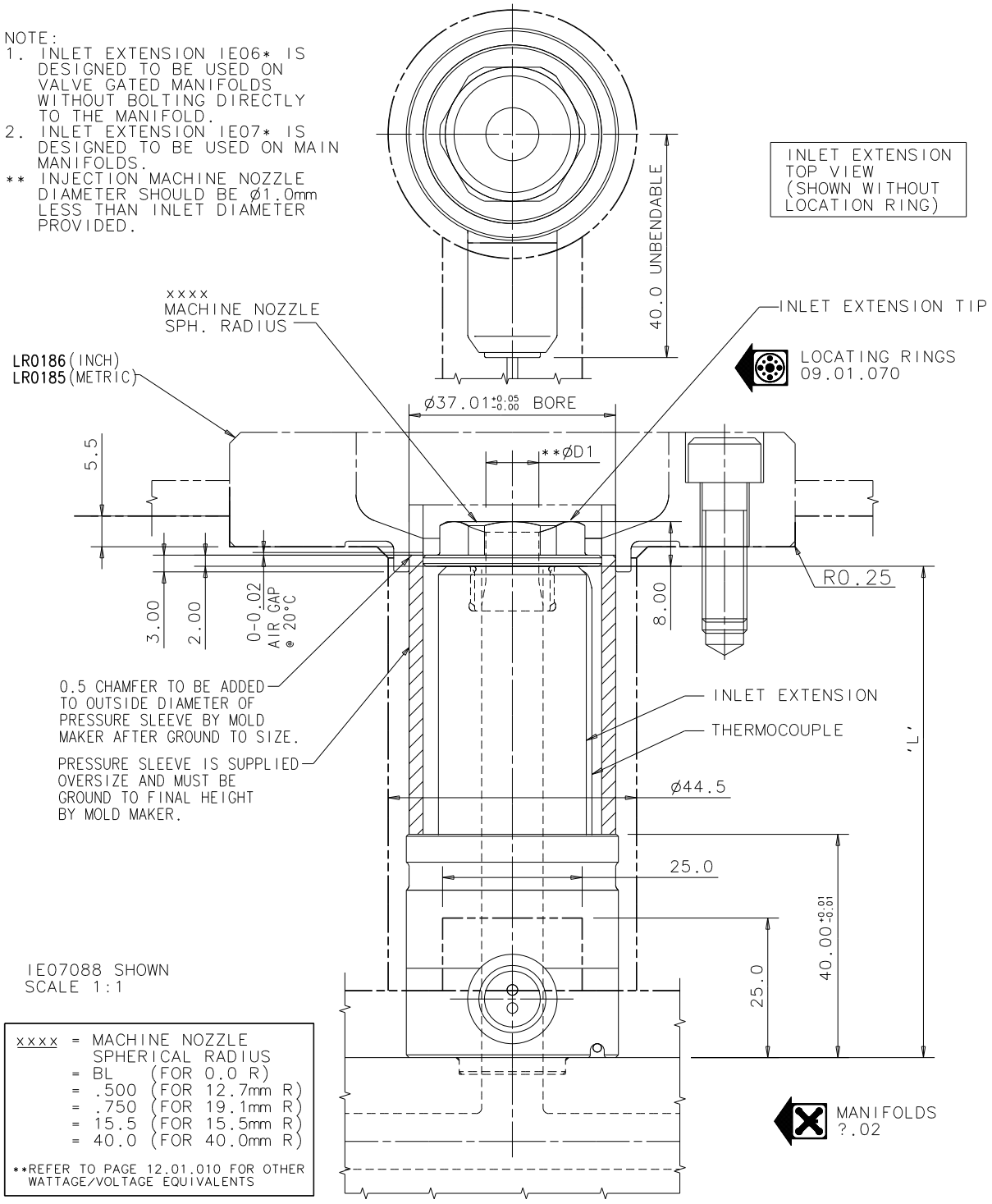
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INLET EXT. NUMBER	L	ØD1	ØD2	**POWER AT 220V	TIP #
IE08070	70.0	9.5	9.5	600W	IE08TP****
IE08090	90.0			600W	
IE08110	110.0			650W	
IE08130	130.0			700W	

INLET EXT. NUMBER	L	ØD1	ØD2	**POWER AT 220V	TIP #
IE09070	70.0	9.5	11.0	600W	IE09TP****
IE09090	90.0			600W	
IE09110	110.0			650W	
IE09130	130.0			700W	

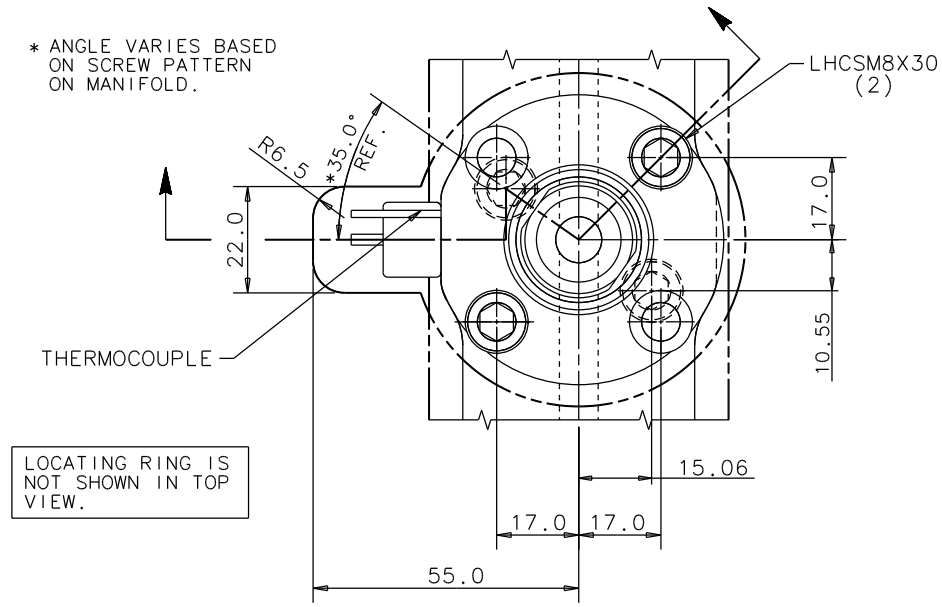
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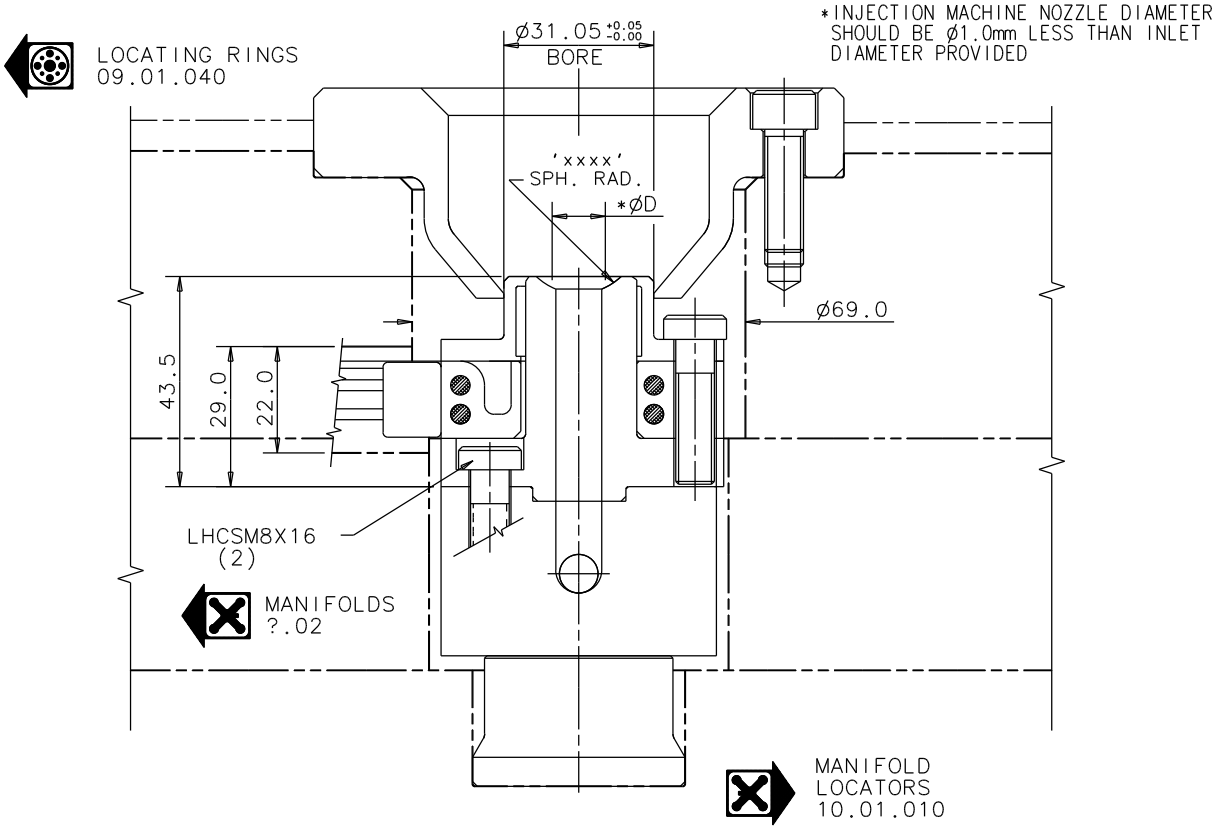


INLET EXT. NUMBER	L	øD1	øD2	**POWER AT 220V	SLEEVE #	TIP NO.
IE06068	68.0	9.5	9.5	600W	EP0003	IE04TPxxxx
IE06088	88.0			700W	EP0004	
IE06108	108.0			800W	EP0005	
IE06128	128.0			900W	EP0006	

INLET EXT. NUMBER	L	øD1	øD2	**POWER AT 220V	SLEEVE #	TIP NO.
IE07068	68.0	9.5	11.0	600W	EP0003	IE05TPxxxx
IE07088	88.0			700W	EP0004	
IE07108	108.0			800W	EP0005	
IE07128	128.0			900W	EP0006	

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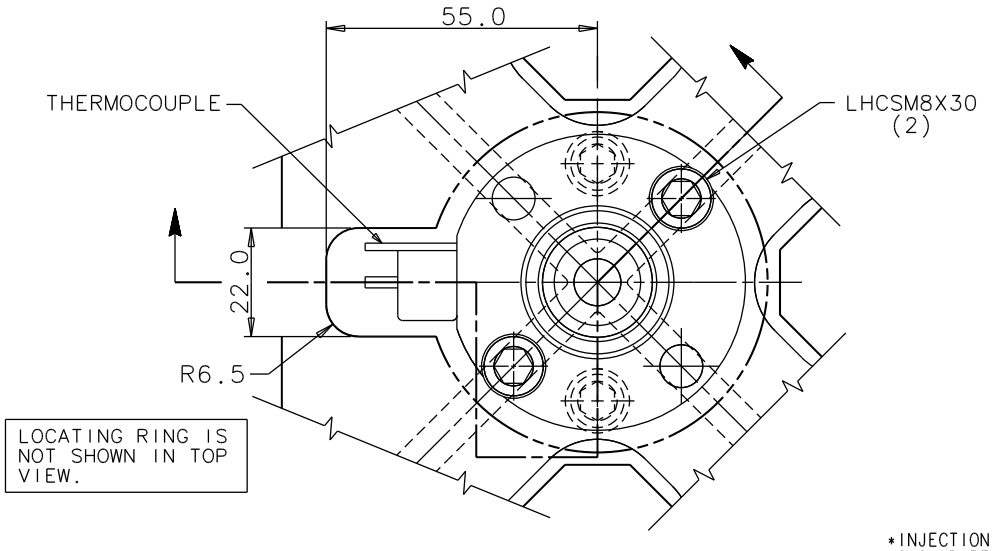




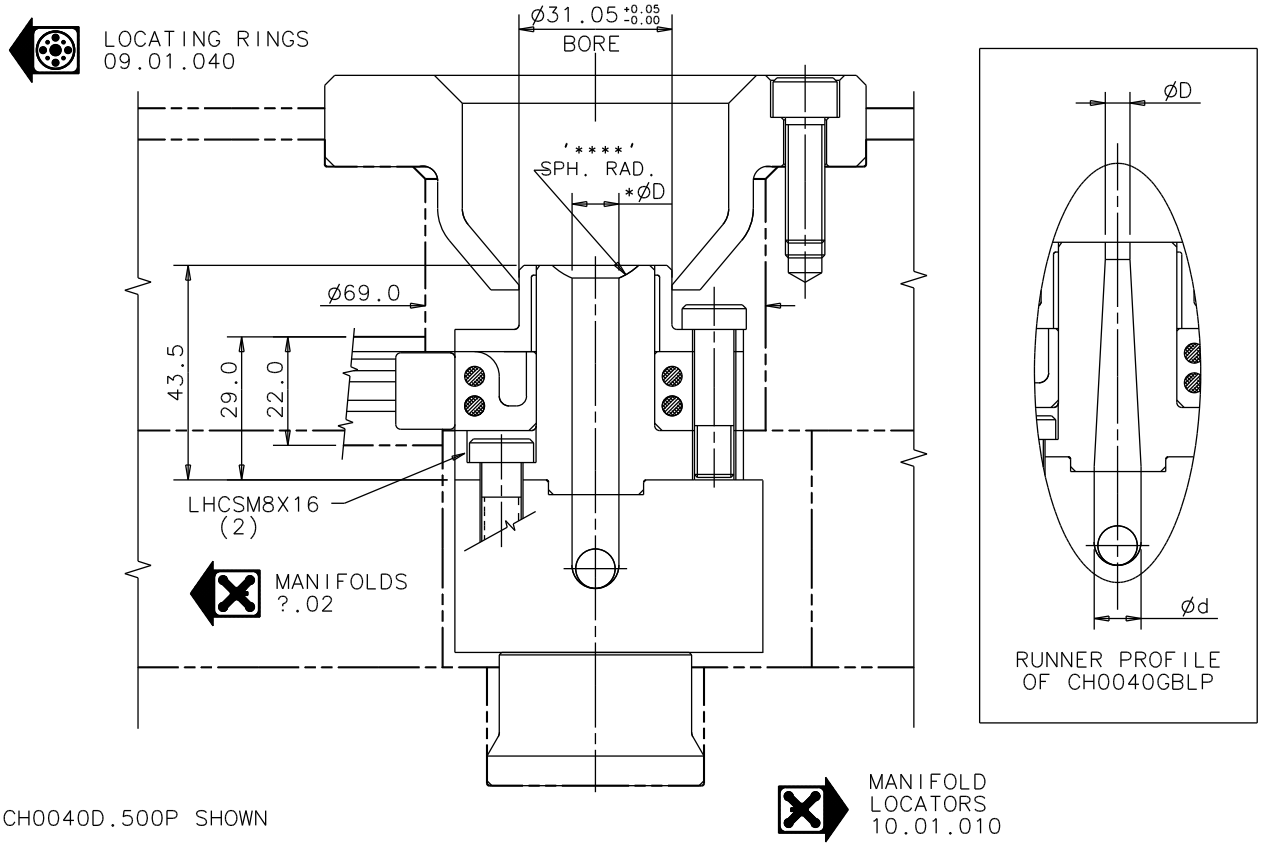
CENTER HEATER OPTIONS		**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	
CENTER HEATER ASSEMBLY #	øD	**POWER @ 220V	USED WITH
CH0040CxxxxP	9.5	600W	BOLT-IN (HEATER PLATE) MANIFOLDS; CAST-IN HEATER MANIFOLDS RUNNING ENGINEERING RESINS

xxxx = MACHINE NOZZLE SPHERICAL RADIUS
= BL (FOR 0.0 R)
= .500 (FOR 1/2" R)
= .750 (FOR 3/4" R)
= .520 (FOR 13.2mm R)
= 15.5 (FOR 15.5mm R)
= 40.0 (FOR 40.0mm R)

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*INJECTION MACHINE NOZZLE DIAMETER SHOULD BE ø1.0mm LESS THAN INLET DIAMETER PROVIDED

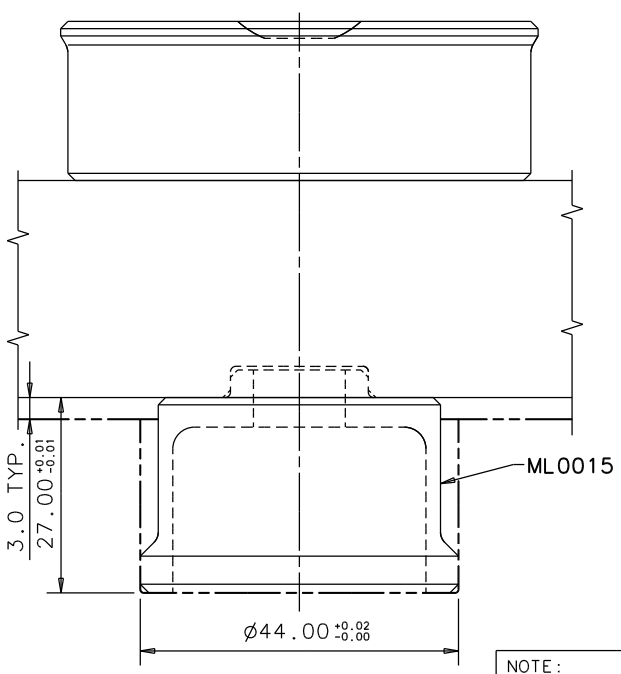


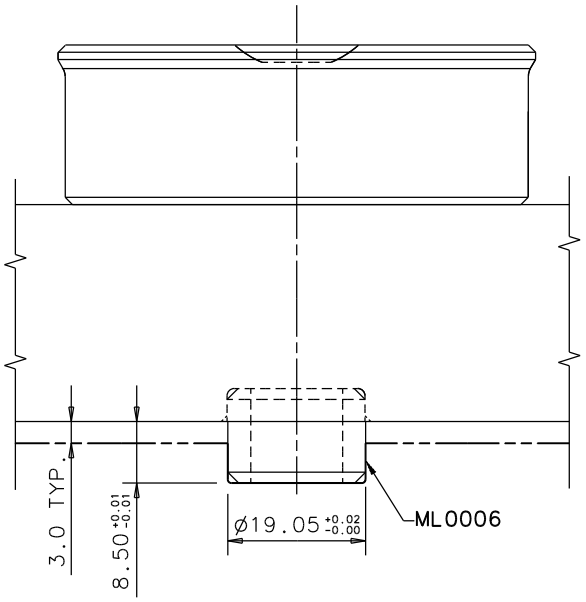
CH0040D.500P SHOWN

CENTER HEATER OPTIONS			**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	
CENTER HEATER ASSEMBLY #	øD	ød	**POWER @ 220V	USED WITH
CH0040D****P	9.5		600W	BOLT-IN (HEATER PLATE) MANIFOLDS; CAST-IN HEATER MANIFOLDS RUNNING ENGINEERING RESINS (X SHAPE)
CH0040GBLP	5.0	9.5		

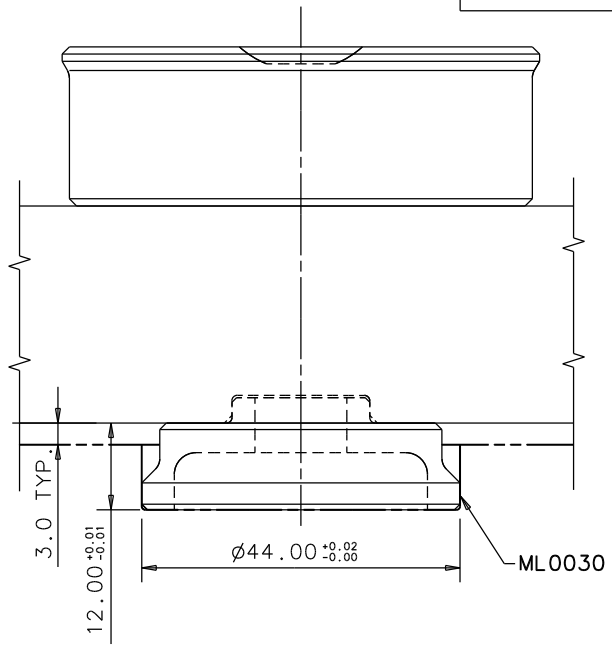
**** = MACHINE NOZZLE SPHERICAL RADIUS
= BL (FOR 0.0 R)
= .500 (FOR 1/2" R)
= .750 (FOR 3/4" R)
= .520 (FOR 13.2mm R)
= 15.5 (FOR 15.5mm R)
= 40.0 (FOR 40.0mm R)

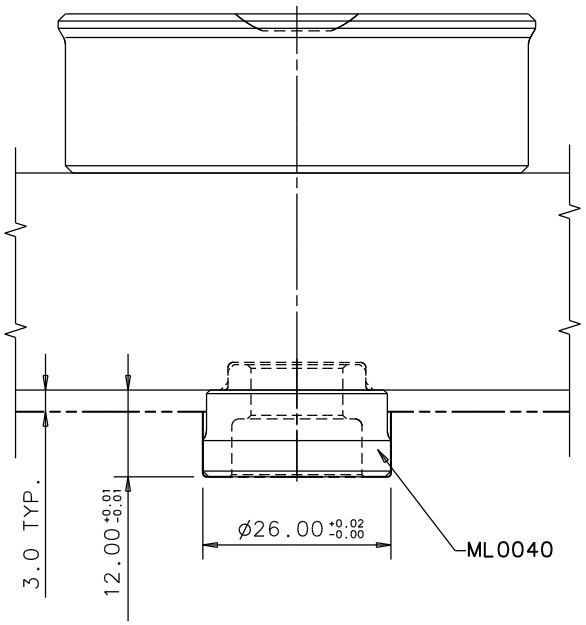
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NOTE:
MANIFOLD LOCATORS SHOWN ARE SUPPLIED OVERSIZE AND MUST BE GROUND AND FITTED ("BLUED IN") TO THE MOLD.

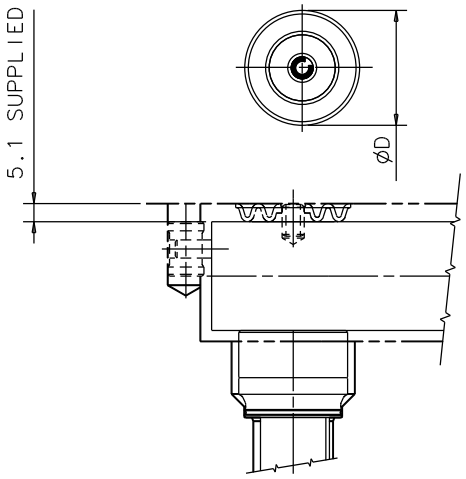




MANIFOLD LOCATOR OPTIONS	
MANIFOLD LOCATOR #	USED WITH MANIFOLDS WHEN:
ML0006	NO THRUST LOADS FROM MACHINE NOZZLE ARE PRESENT OR WITH SMALL PITCH MANIFOLDS.
ML0015	MACHINE NOZZLE THRUST LOADS ARE PRESENT.
ML0030	MACHINE NOZZLE THRUST LOADS ARE PRESENT (ONLY IF PLATE SPLIT PREVENTS USE OF ML0015).
ML0040	MACHINE NOZZLE THRUST LOADS ARE PRESENT (FOR SMALL PITCH MANIFOLD)

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PRESSURE DISK



PD0011 SHOWN

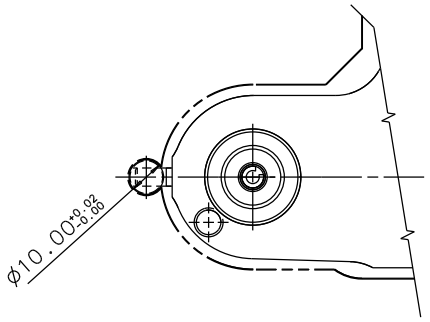
NOTE:
-PRESSURE DISKS ARE SUPPLIED OVERSIZE AND MUST BE GROUND EQUALLY FROM BOTH SIDES TO ACHIEVE THE PROPER AIR GAP AT ROOM TEMPERATURE.
-PLEASE REFER TO SYSTEM DRAWING FOR SPECIFIED AIR GAP.

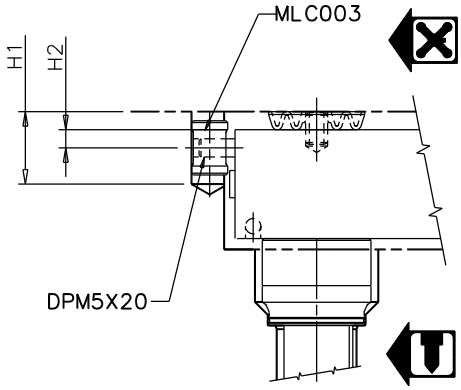
MANIFOLDS ?.02

NOZZLES ?.01

PRESSURE DISK OPTIONS	
PRESSURE DISK #	ØD
PD0013	19.8
PD0014	25.7
PD0011	31.7

MANIFOLD LOCATING CAM

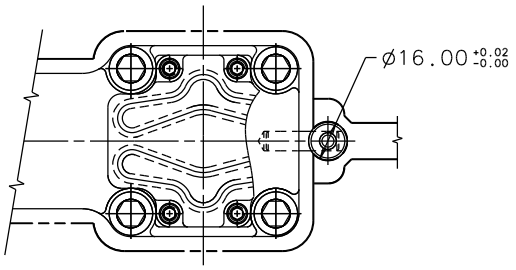




MANIFOLDS ?.02

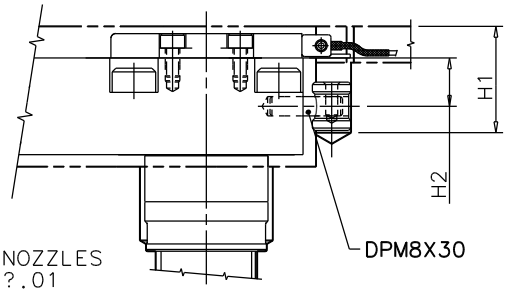
NOZZLES ?.01

MANIFOLD LOCATING CAM



MANIFOLDS ?.02

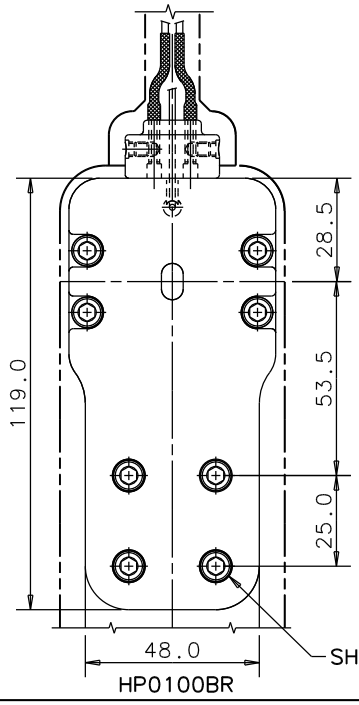
MLC004



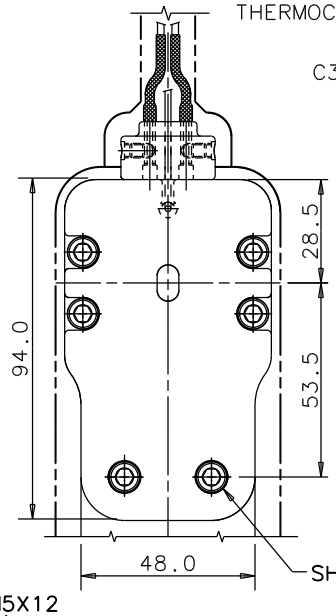
NOZZLES ?.01

MANIFOLD LOCATING CAM OPTIONS			
MANIFOLD LOCATING CAM #	H1	H2	USED:
MLC003	20.0	5.0	FOR ALL MSF/MSP/MSC/MSD SIDE DOWELED CAST-IN HEATER MANIFOLDS
	40.5	17.5	FOR MSD SIDE DOWELED BOLT-IN (HEATER PLATE) MANIFOLDS
MLC004	44.0	20.0	FOR ALL MSH SIDE DOWELED MANIFOLDS

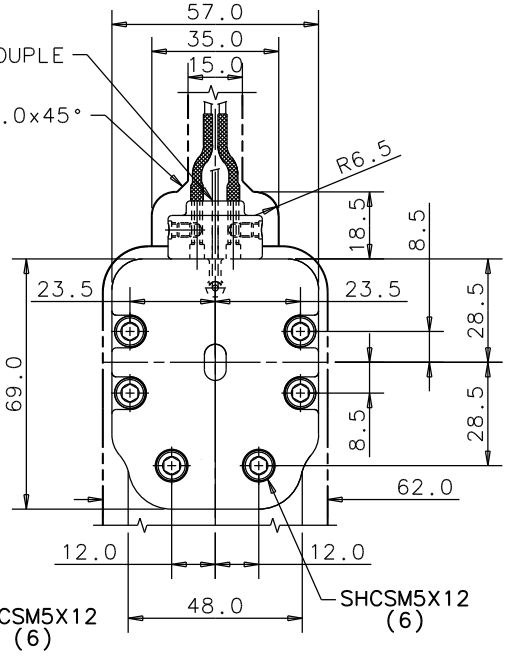
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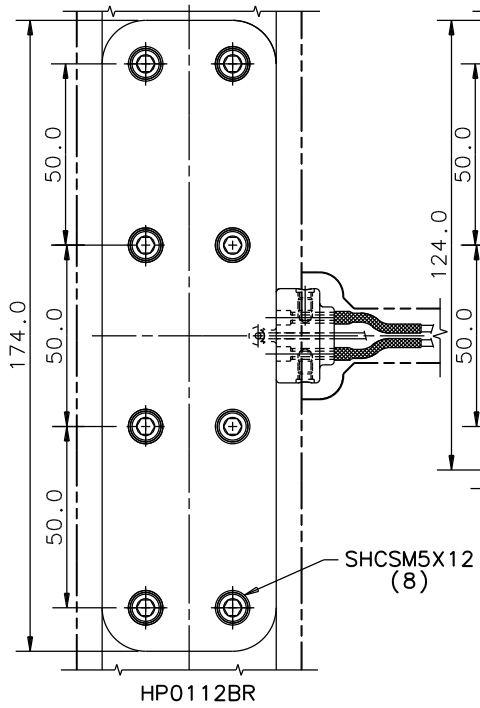
HP0100BR



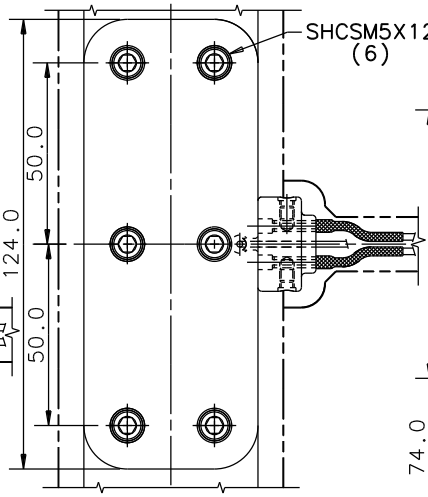
HP0101BR



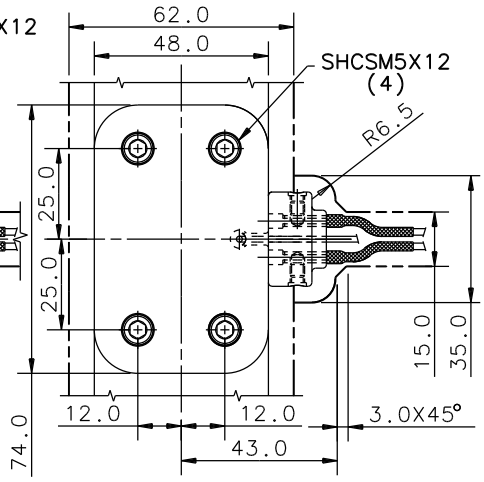
HP0102BR



HP0112BR

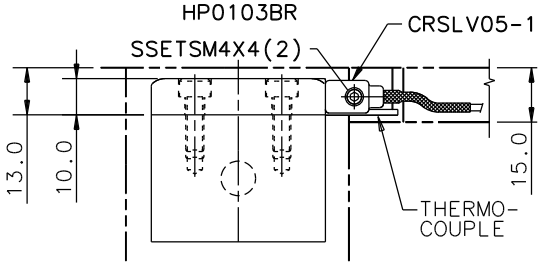


HP0104BR



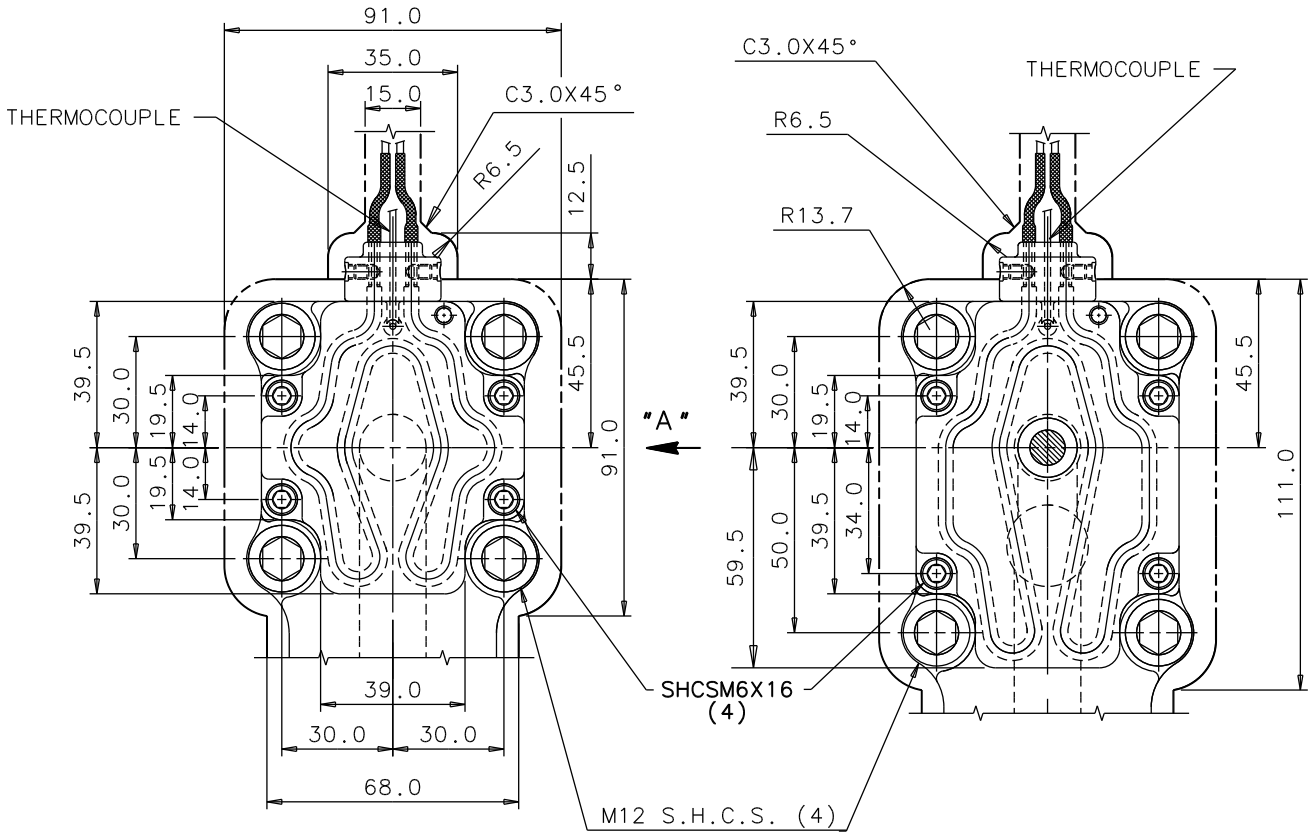
HP0103BR

MANIFOLDS
?.02

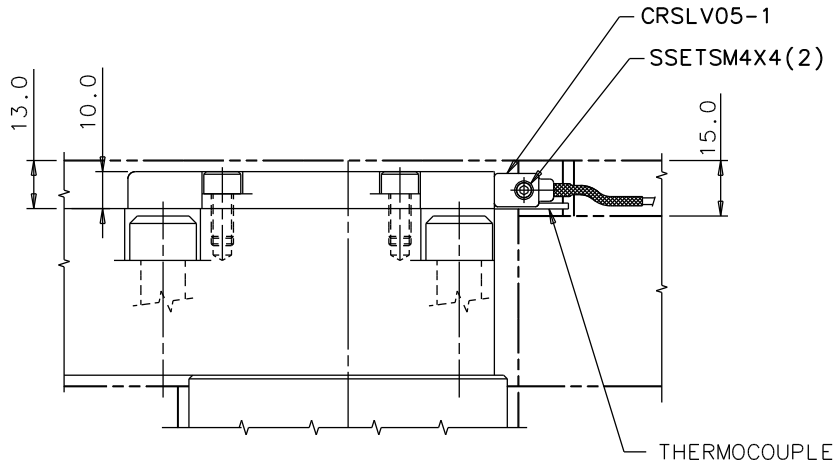


HEATER PLATE OPTIONS	**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS	
HEATER PLATE #	**POWER @ 220V	USED WITH:
HP0100BR	1050W	BOLT-IN STYLE MANIFOLD ENDS
HP0101BR	850W	
HP0102BR	650W	
HP0103BR	600W	BOLT-IN STYLE MANIFOLD ARMS WHERE SPACE PERMITS
HP0104BR	1050W	
HP0112BR	1400W	

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HP0106BR HP0107BR

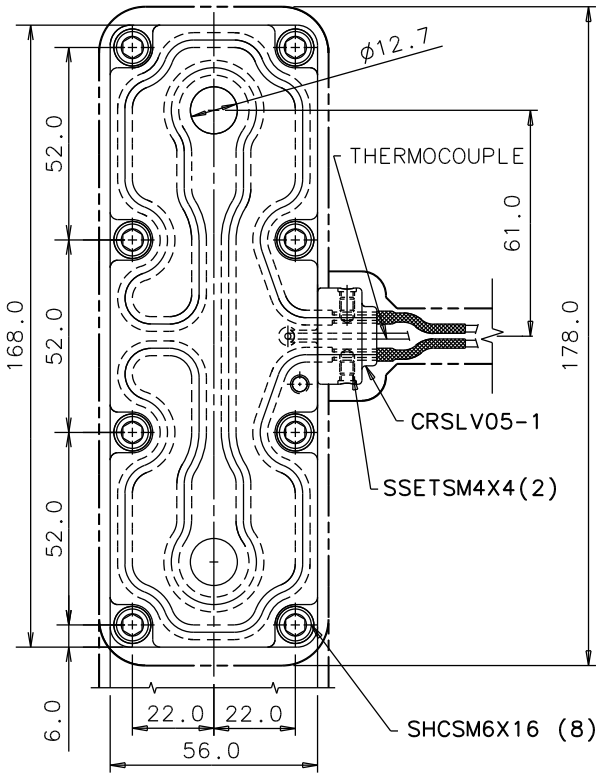


VIEW "A"

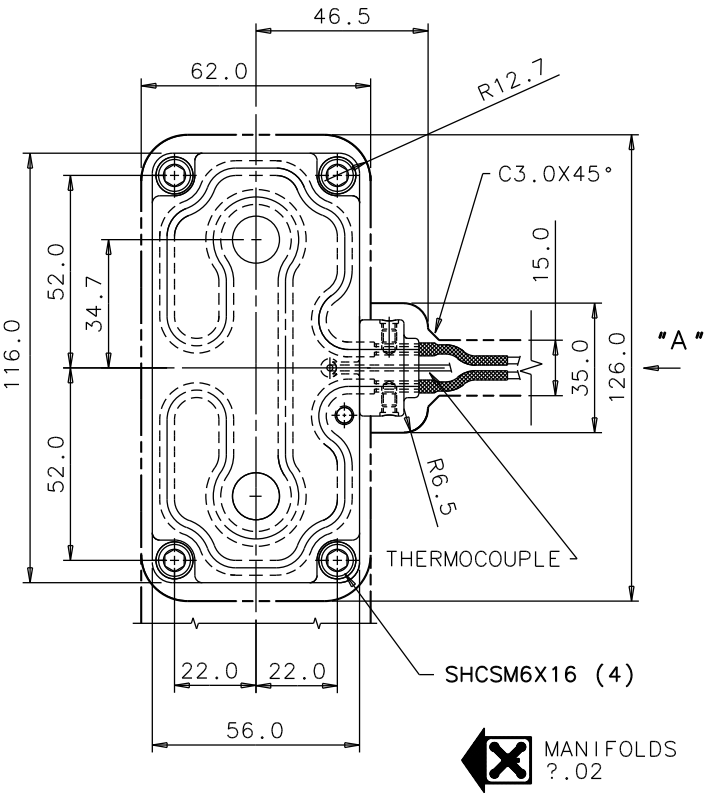
MANIFOLDS
?.02

HEATER PLATE OPTIONS		**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS
HEATER PLATE #	OVERALL LENGTH	**POWER @ 220V
HP0106BR	79.0	900W
HP0107BR	99.0	1100W

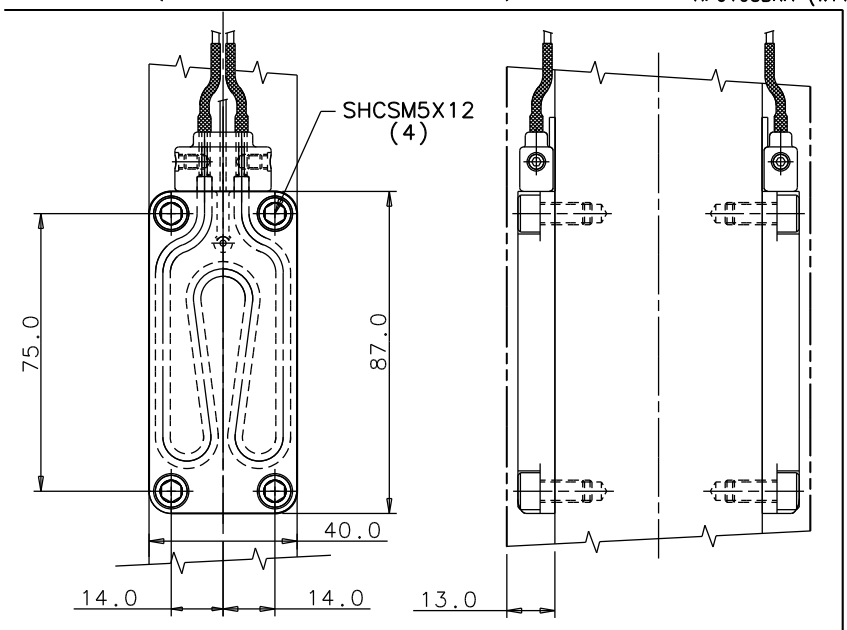
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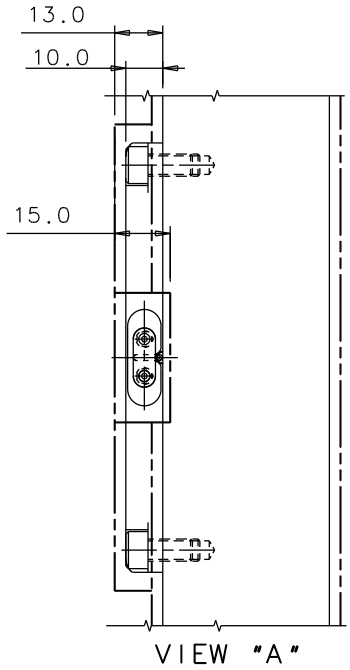
HP0109BR (WITHOUT VALVE PIN CLEARANCE HOLES)
HP0109BRA (WITH VALVE PIN CLEARANCE HOLES)



HP0108BR (WITHOUT VALVE PIN CLEARANCE HOLES)
HP0108BRA (WITH VALVE PIN CLEARANCE HOLES)



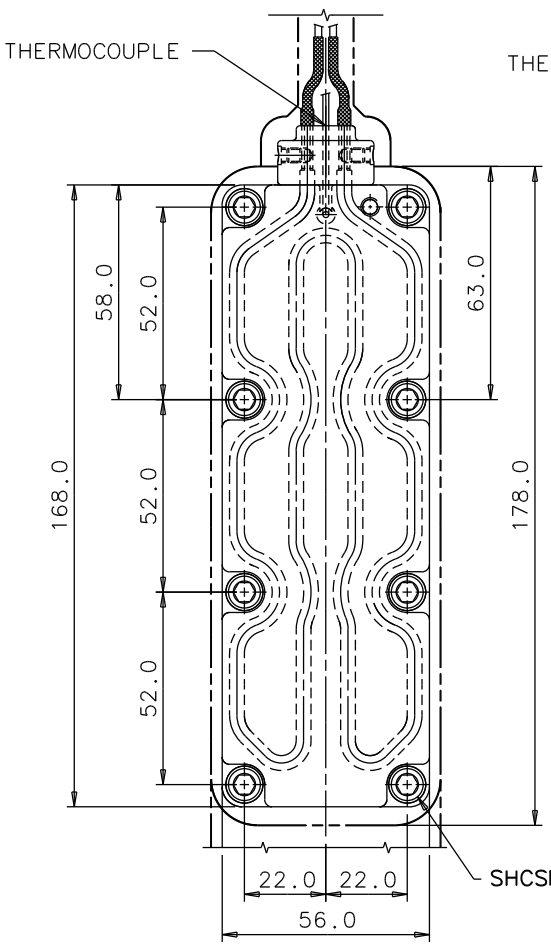
HP0105BR
USED ON
MANIFOLD SIDE



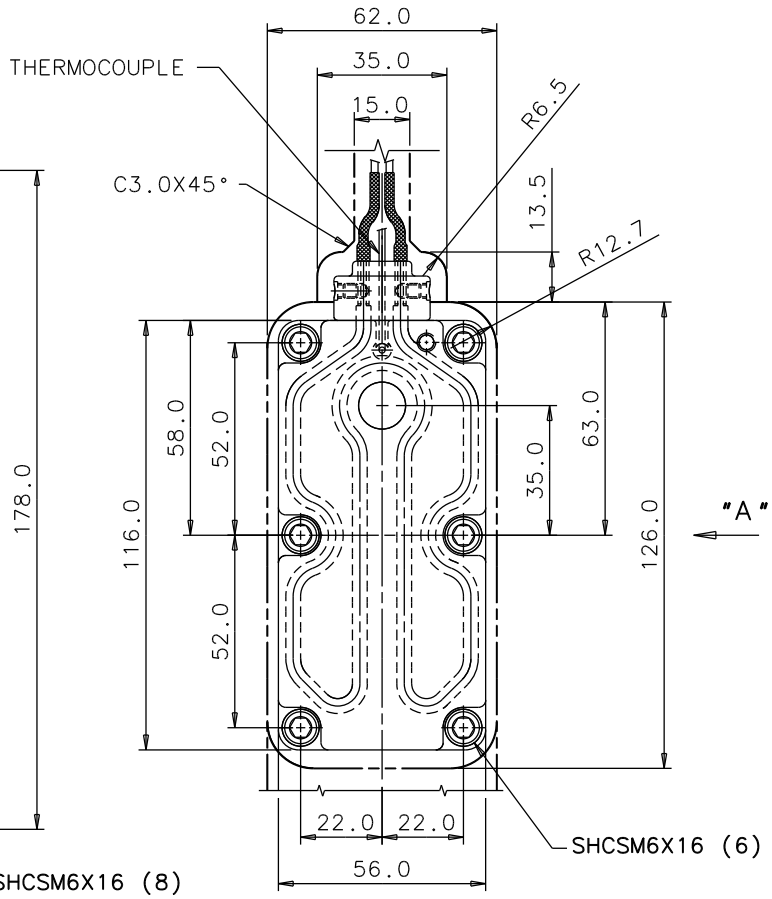
VIEW "A"

HEATER PLATE OPTIONS		**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS
HEATER PLATE #	OVERALL LENGTH	**POWER @ 220V
HP0105BR	87.0	650W
HP0108BR	116.0	1300W
HP0109BR	168.0	2000W

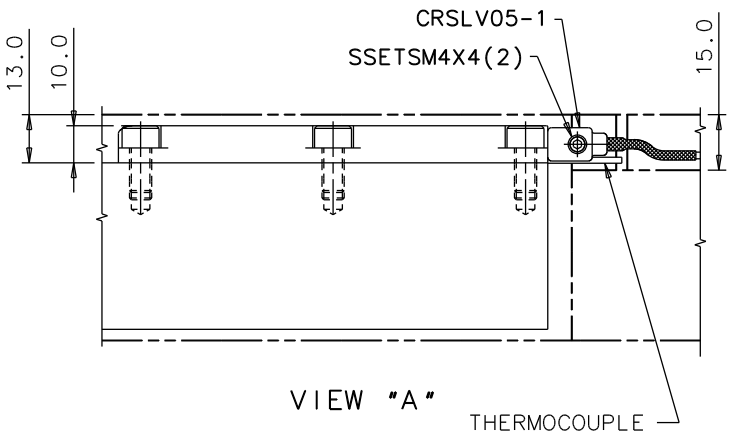
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HP0111BR



HP0110BR (WITHOUT VALVE PIN CLEARANCE HOLE)
HP0110BRA (WITH VALVE PIN CLEARANCE HOLE)

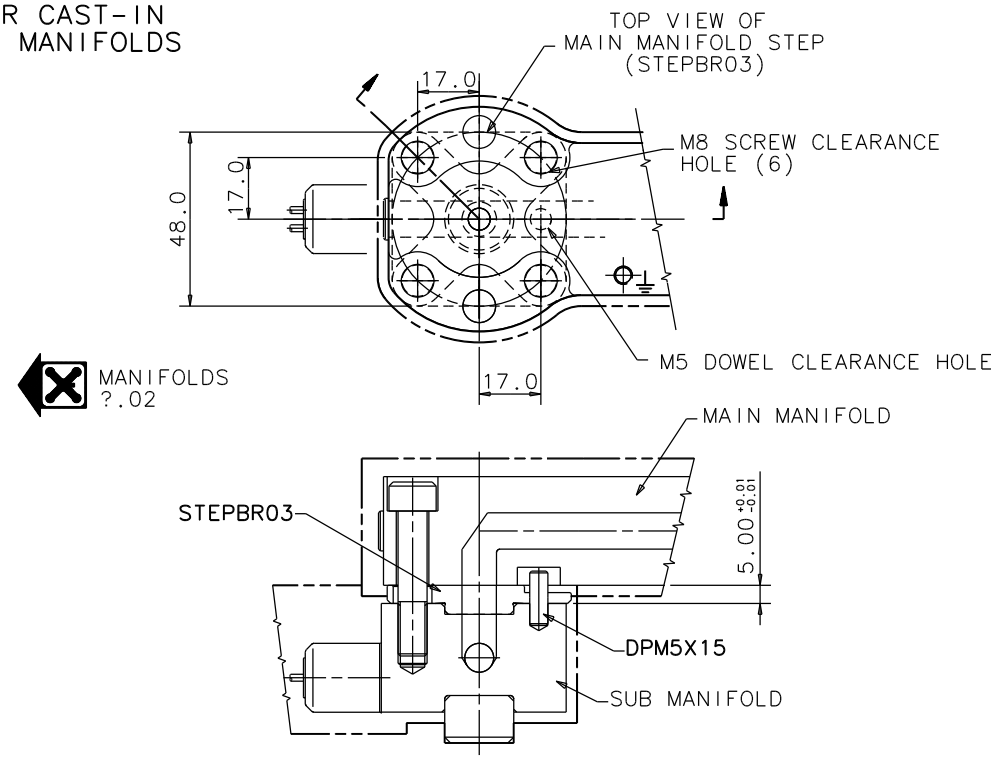


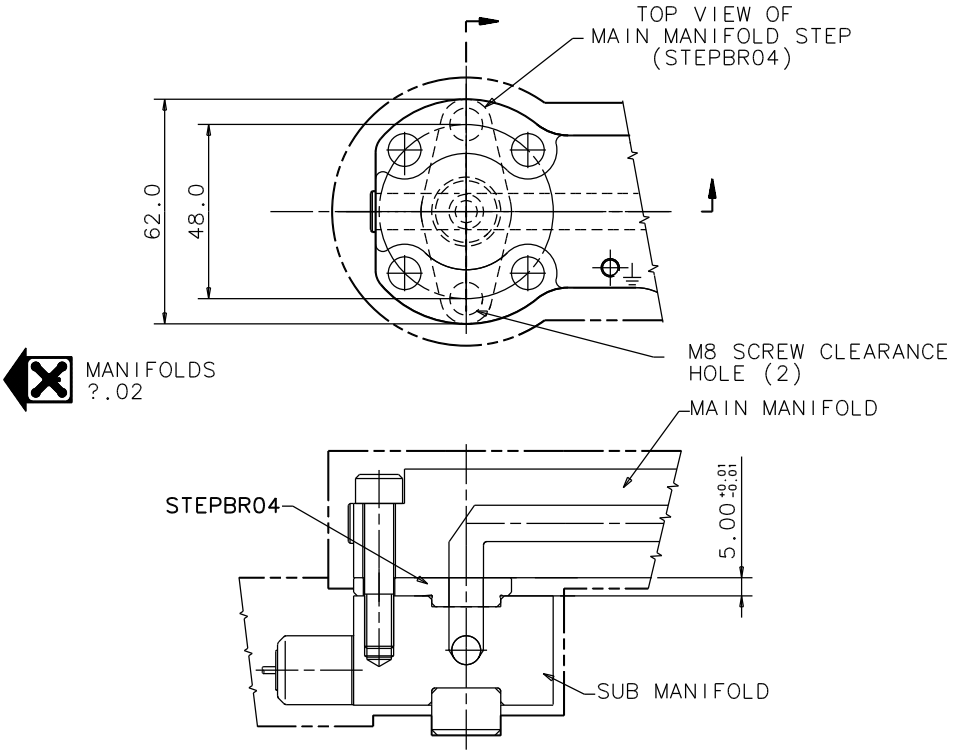
MANIFOLDS
?.02

HEATER PLATE OPTIONS		**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS
HEATER PLATE #	OVERALL LENGTH	**POWER @ 220V
HP0110BR	116.0	1300W
HP0111BR	168.0	2000W

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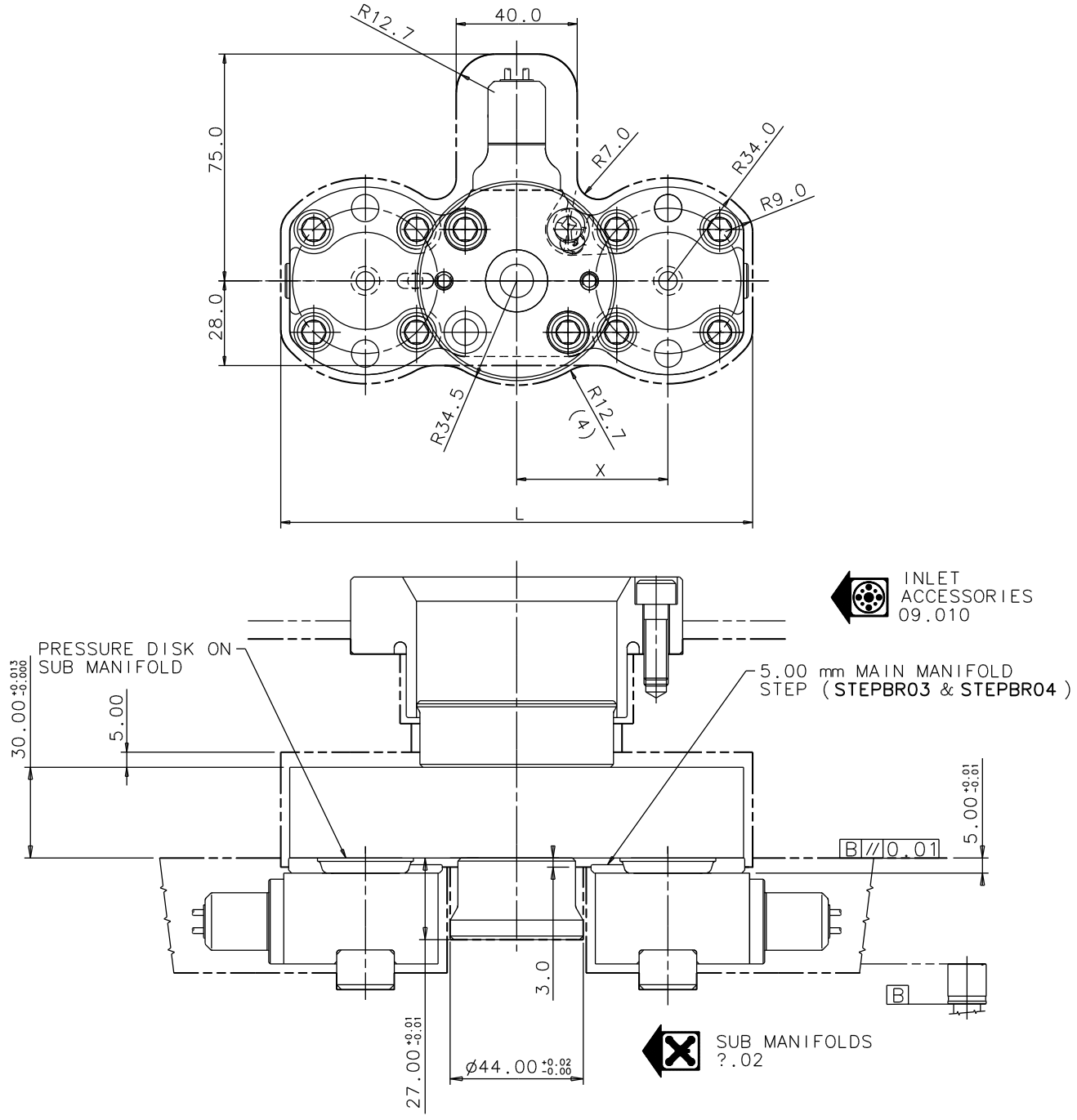
USE FOR CAST-IN HEATER MANIFOLDS ONLY





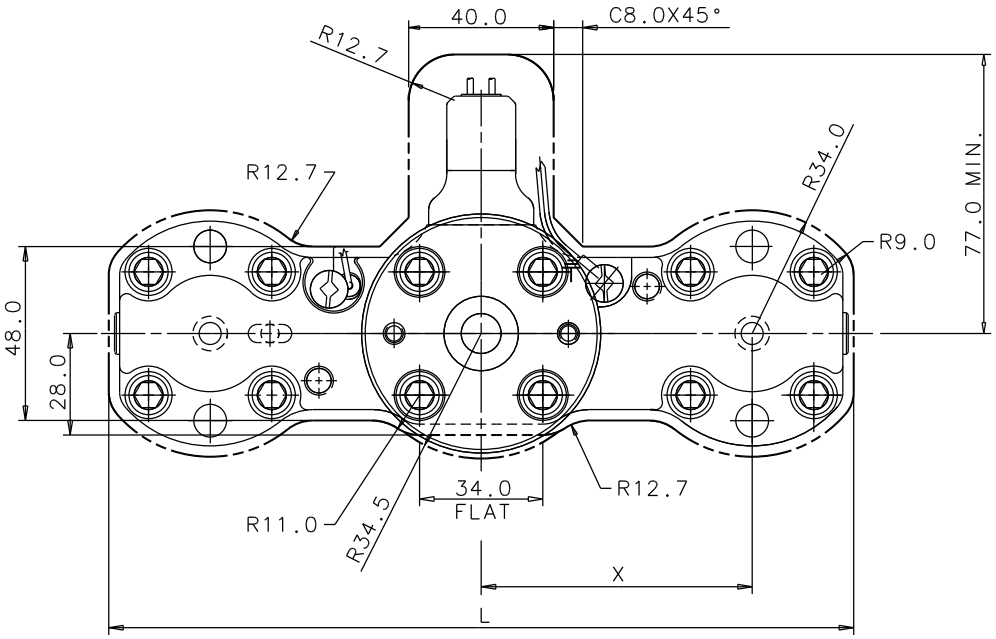
MAIN MANIFOLD STEP	
MAIN MANIFOLD STEP#	USED WITH MANIFOLDS WHEN:
STEPBR03	FOR MATING PERPENDICULAR TO SUB MANIFOLD (2I, 4I, XX)
STEPBR04	FOR MATING AT AN ANGLE WITH SUB MANNIFOLD (0X).

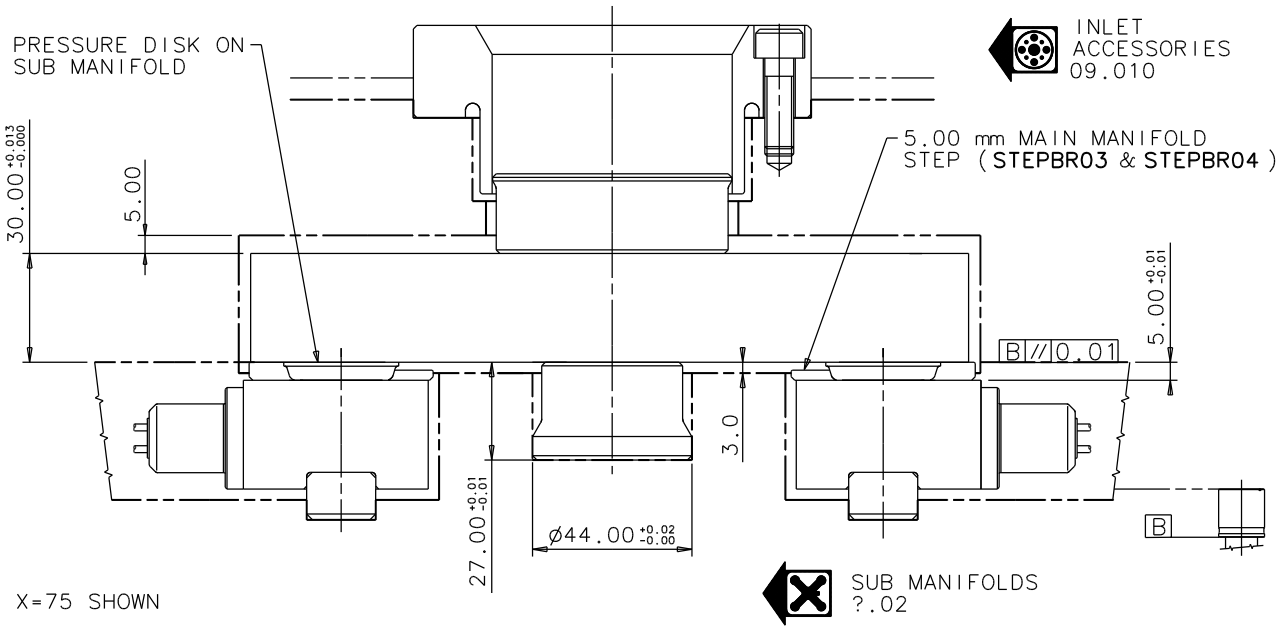
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MAIN MANIFOLD OPTIONS				**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS
MAIN MANIFOLD #	X	L	RUNNER VOL. (cm^3)	**POWER @ 220V
MN421050M	50.00	156.0	9.3	650W

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MAIN MANIFOLD OPTIONS				**REFER TO PAGE 12.01.010 FOR OTHER WATTAGE/VOLTAGE EQUIVALENTS
MAIN MANIFOLD #	X	L	RUNNER VOL. (cm^3)	**POWER @ 220V
MN421075M	75.00	206.0	14.2	850W
MN421080M	80.00	216.0	14.9	900W
MN421090M	90.00	236.0	16.5	950W
MN421100M	100.00	256.0	18.1	1050W
MN421110M	110.00	276.0	19.7	1100W
MN421120M	120.00	296.0	21.2	1200W
MN421125M	125.00	306.0	22.0	1250W
MN421150M	150.00	356.0	25.9	1450W
MN421175M	175.00	406.0	29.7	1650W
MN421200M	200.00	456.0	33.8	1850W

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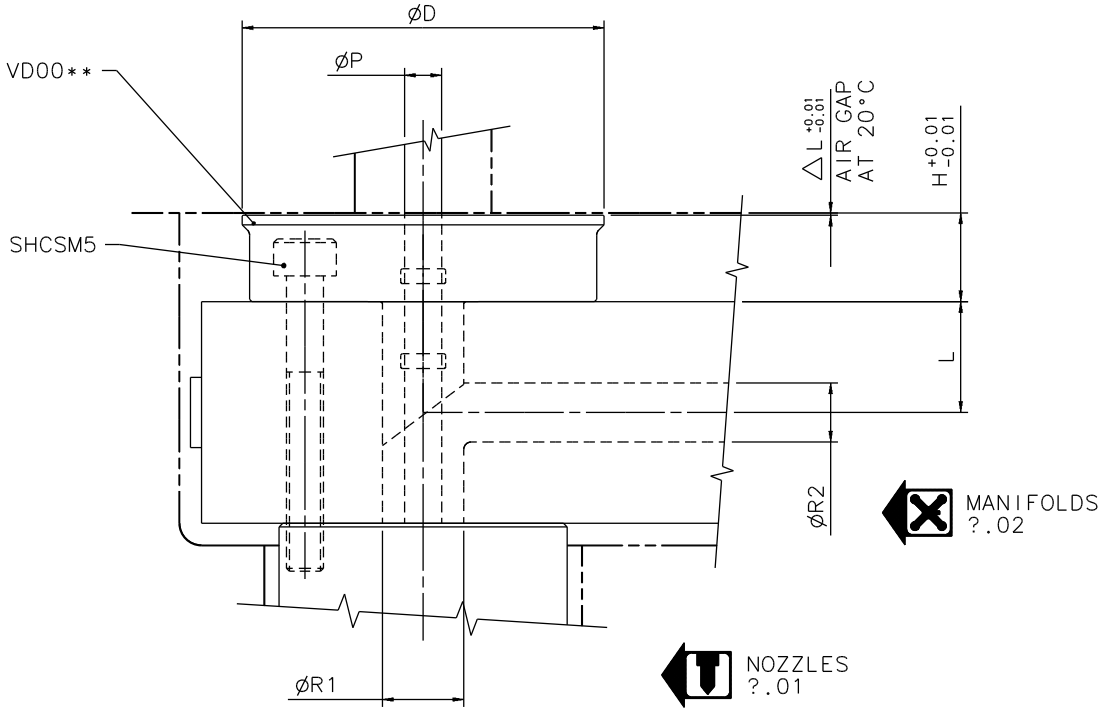
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ACTUATOR	HY5500*	HY550X*	HY6500*	HY650X*	HY650XDAR	HY6500*AR	HY6600* VPAC0009	HY6600*AR VPAC0011	HY6700*	HY6700*AR	HY7100*	HY7100*AR	HY710X*	HY710XDAR	PN2300*	HY8400*	HY8500*	HY8600*AR	HY8700*	HY8800*	PN6400*	PN6400*AR	PN6410*	PN6410*AR
ACTUATING METHOD	OIL	OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR/ OIL	AIR	AIR	AIR	AIR
MASTER-SERIES FEMTO-LITE																								
C-VALVE	●	●		●											●									
HOT VALVE	●	●		●											●									
CYL. HOT VALVE	●	●									●	●	●	●	●									
ACCU-VALVE CX	●	●									●		●		●									
ACCU-VALVE MX	●	●									●		●	●	●									
MASTER-SERIES FEMTO																								
C-VALVE	●	●		●											●									
HOT VALVE	●	●		●											●									
CYL. HOT VALVE	●	●									●	●	●	●	●									
ACCU-VALVE CX	●	●									●		●		●									
ACCU-VALVE MX	●	●									●		●	●	●									
MASTER-SERIES PICO																								
BI-MET. C-VALVE	●	●	●	●	●	●									●	●								
HOT VALVE	●	●	●	●	●	●									●	●								
CYL. HOT VALVE	●	●									●	●	●	●	●		●							
ACCU-VALVE CX	●	●									●		●		●		●							
ACCU-VALVE MX	◒	◒									●	●	●	●	●		●							
MASTER-SERIES CENTI																								
BI-MET. C-VALVE	●	●	●	●	●	●									●	●								
HOT VALVE	●	●	●	●	●	●									●	●								
CYL. HOT VALVE	●	●									●	●	●	●	●		●							
ACCU-VALVE CX	●	●									●		●		●		●							
ACCU-VALVE MX											●	●	●	●	●		●							
MASTER-SERIES DECI																								
BI-MET. C-VALVE			●			●	●	●								●		●			●	●		
HOT VALVE			●			●	●	●								●		●			●	●		
CYL. HOT VALVE											●	●	●				●		◒	◒			●	●
ACCU-VALVE CX											●						●						●	●
ACCU-VALVE MX																			●	●			●	●
MASTER-SERIES HECTO																								
BI-MET. C-VALVE							●	●	●	●								●			●	●		
HOT VALVE							●	●	●	●								●			●	●		

RECOMMENDED ●
OPTIONAL ◒

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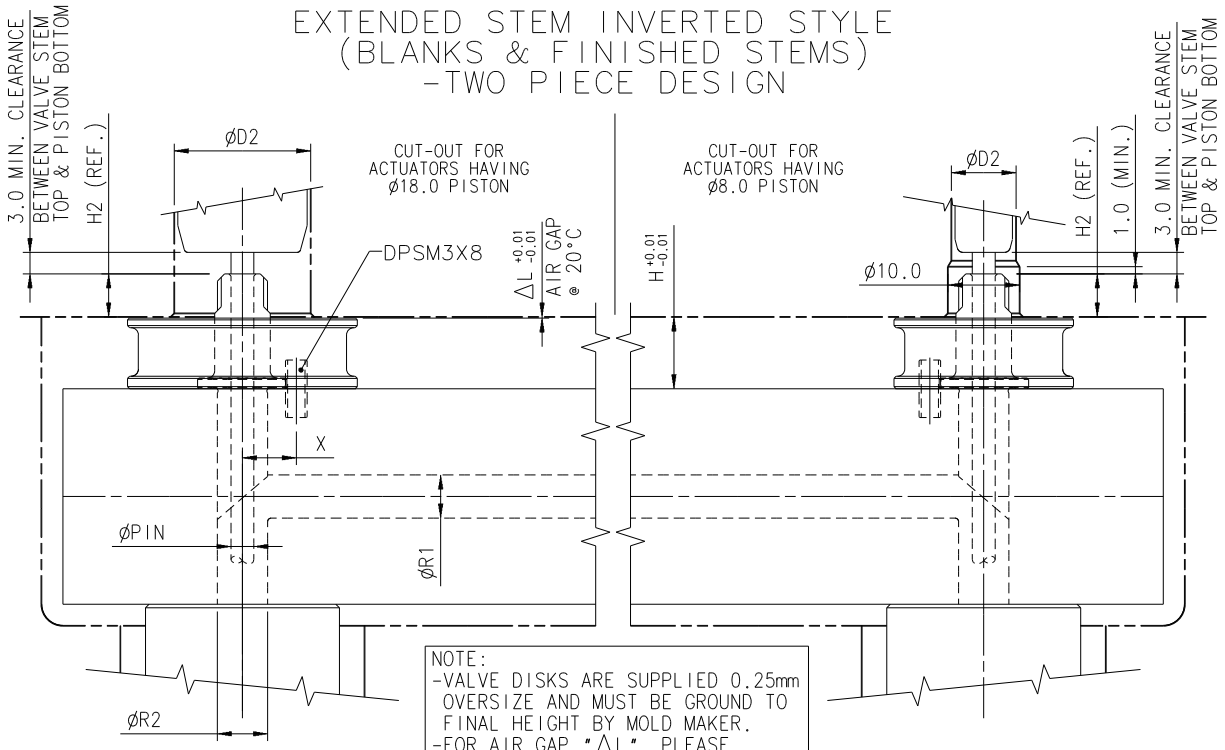
BOLTED DOWN STYLE

NOTE:
-VALVE DISKS ARE SUPPLIED 0.25mm OVERSIZE AND MUST BE GROUND TO FINAL HEIGHT BY MOLD MAKER.
-FOR AIR GAP "△L", PLEASE REFER TO SYSTEM DRAWING.



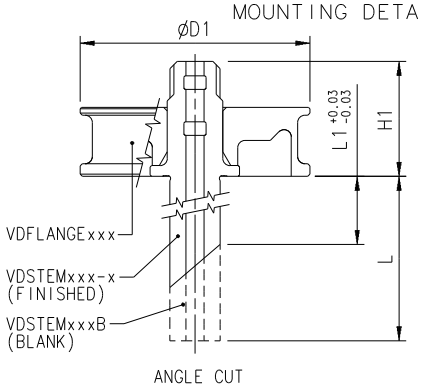
VALVE DISK OPTIONS							
MASTER-SERIES	VALVE DISK #	L	ØD	H +0.01 -0.01	ØP	ØR1	ØR2
FEMTO	VD0102	15.0	ø35.0	10.00	ø2.5	ø6.00	ø6.0
FEMTO	VD0085	15.0	ø35.0	10.00	ø2.5	ø6.00	ø5.0
PICO/FEMTO	VD0033	15.0	ø35.0	10.00	ø3.0	ø7.00	ø5.0
PICO/FEMTO	VD0035	15.0	ø35.0	10.00	ø3.0	ø7.00	ø6.0
PICO/FEMTO	VD0037	15.0	ø49.0	10.00	ø3.0	ø7.00	ø5.0
PICO/FEMTO	VD0038	15.0	ø49.0	10.00	ø3.0	ø7.00	ø6.0
CENTI	VD0022	15.0	ø39.0	10.00	ø3.0	ø8.00	ø6.0
CENTI	VD0028	15.0	ø49.0	10.00	ø3.0	ø8.00	ø6.0
DECI	VD0031	15.0	ø49.0	12.00	ø5.0	ø11.00	ø8.0

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SEE PAGE 11.01.022 FOR OPTIONAL MOUNTING DETAIL

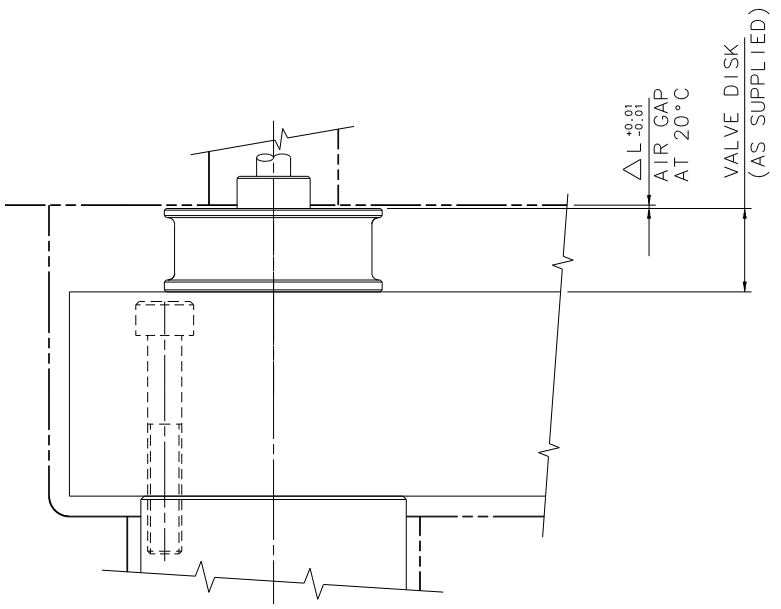
VALVE DISK OPTIONS (BLANKS)						
MASTER SERIES	VDSTEMxxxB	ØR2	ØPIN	L	H1	H2
FEMTO	VDSTEM048B	Ø6.00	Ø2.5	31.00	16.0	6.0
PICO	VDSTEM049B	Ø7.00	Ø3.0	32.75	16.0	6.0
CENTI	VDSTEM050B	Ø8.00	Ø3.0	32.75	16.0	6.0
DECI	VDSTEM051B	Ø11.00	Ø5.0	40.75	17.0	5.0
HECTO	VDSTEM056B	Ø16.00	Ø6.3	37.00	24.5	12.5
	VDSTEM057B	Ø16.00	Ø8.0	37.00	24.5	12.5
	VDSTEM058B	Ø18.00	Ø6.3	37.00	24.5	12.5
	VDSTEM059B	Ø18.00	Ø8.0	37.00	24.5	12.5



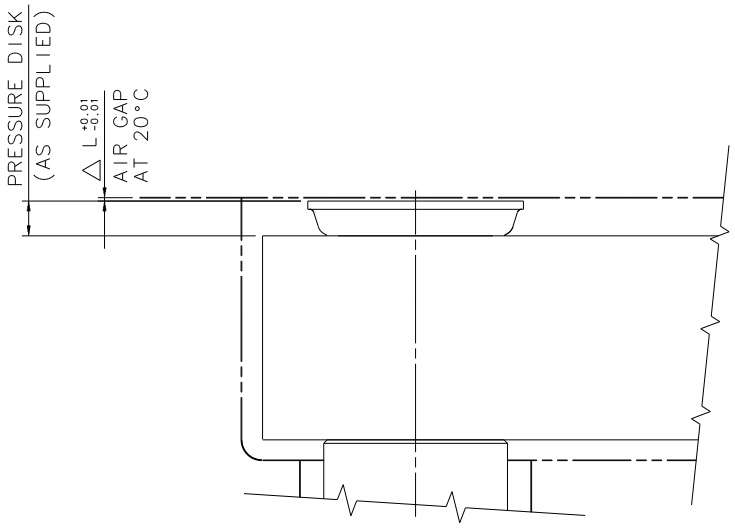
VALVE DISK PACKAGE OPTIONS (FINISHED)											
MASTER SERIES	VDFLANGExxx	ANGLE CUT		L1	ØR1	ØR2	ØD1	ØD2	H	ØPIN	X
		VDSTEMxxx-x	VALVE DISK PACKAGE								
FEMTO	VDFLANGE008	VDSTEM048-1	VD2-008048P	12.70	Ø5.00	Ø6.00	Ø32.0	Ø19.0	10.00	Ø2.5	7.55
		VDSTEM048-2	VD2-008048P1	12.20	Ø6.00						
	VDFLANGE010	VDSTEM048-1	VD2-010048P	12.70	Ø5.00	Ø6.00	Ø25.0	Ø9.0	10.00	Ø2.5	7.55
		VDSTEM048-2	VD2-010048P1	12.20	Ø6.00						
PICO	VDFLANGE008	VDSTEM049-1	VD2-008049P	12.70	Ø5.00	Ø7.00	Ø32.0	Ø19.0	10.00	Ø3.0	7.55
		VDSTEM049-2	VD2-008049P1	12.20	Ø6.00						
	VDFLANGE010	VDSTEM049-1	VD2-010049P	12.70	Ø5.00	Ø7.00	Ø25.0	Ø9.0	10.00	Ø3.0	7.55
		VDSTEM049-2	VD2-010049P1	12.20	Ø6.00						
CENTI	VDFLANGE008	VDSTEM050-1	VD2-008050P	12.20	Ø6.00	Ø8.00	Ø32.0	Ø19.0	10.00	Ø3.0	8.05
		VDSTEM050-2	VD2-008050P1	11.70	Ø7.00						
	VDFLANGE010	VDSTEM050-1	VD2-010050P	12.20	Ø6.00	Ø8.00	Ø25.0	Ø9.0	10.00	Ø3.0	8.05
		VDSTEM050-2	VD2-010050P1	11.70	Ø7.00						
DECI	VDFLANGE009	VDSTEM051-1	VD2-009051P	11.20	Ø8.00	Ø11.00	Ø32.0	Ø19.0	12.00	Ø5.0	9.55
HECTO	VDFLANGE011	VDSTEM056B-VDSTEM059B	N/A	N/A	N/A	N/A	Ø42.0	Ø19.0	12.00	N/A	13.55
	VDFLANGE012		N/A	N/A	N/A	N/A	Ø49.0	Ø19.0	12.00	N/A	13.55

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OPTIONAL VALVE DISK
MOUNTING DETAIL (WITHOUT FINAL GRINDING)

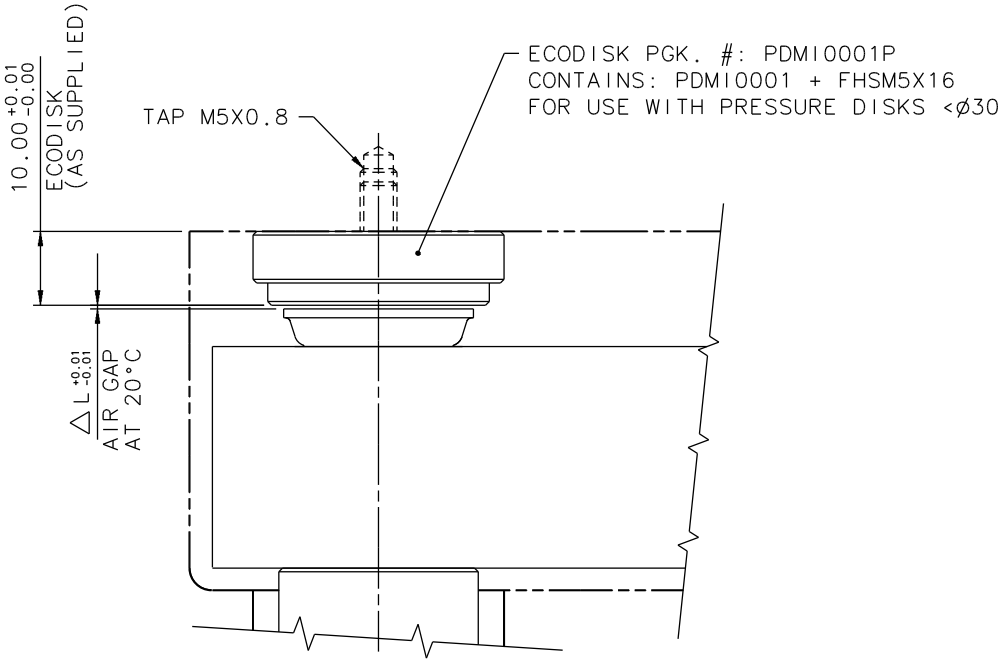


OPTIONAL PRESSURE DISK
MOUNTING DETAIL (WITHOUT FINAL GRINDING)

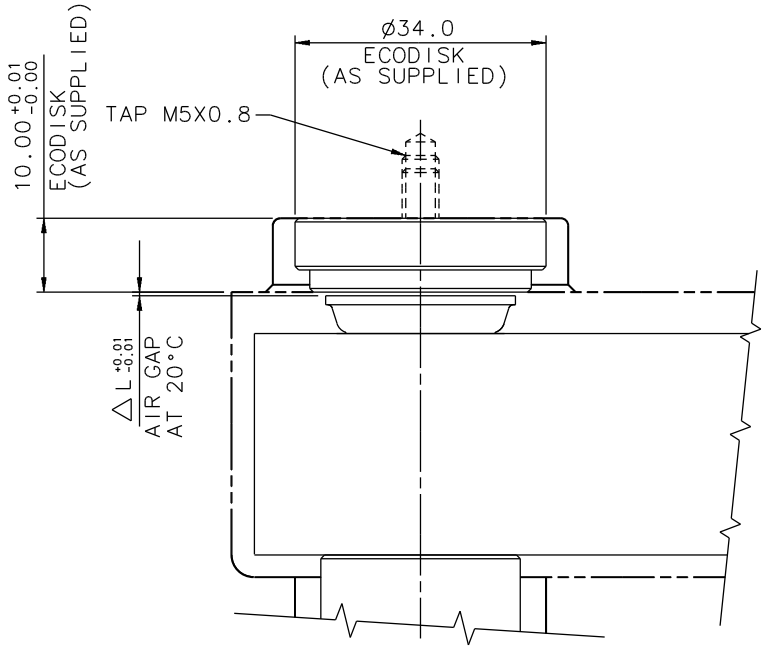


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ECODISK MOUNTING DETAIL
(STANDARD MOUNT)

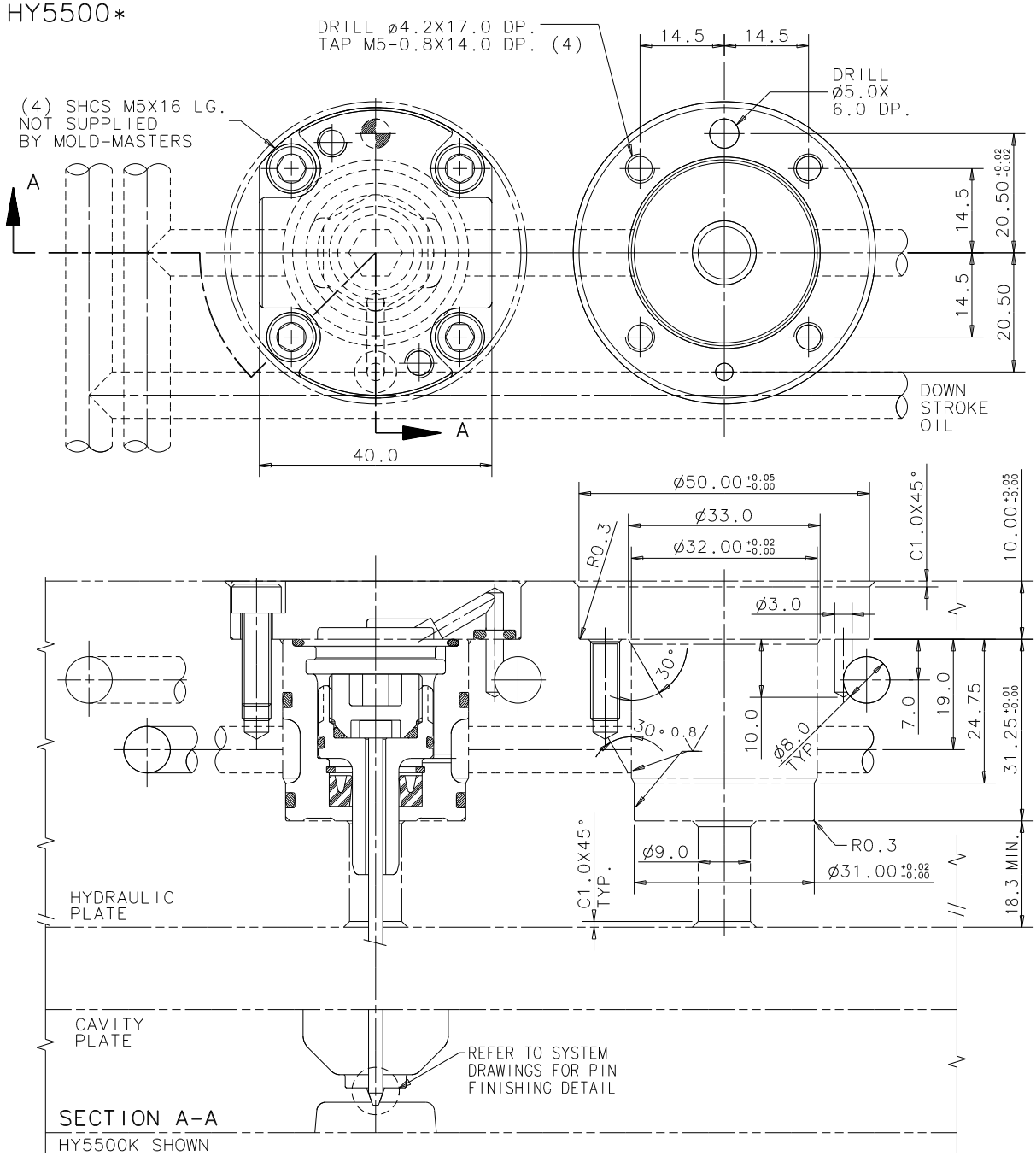


ECODISK MOUNTING DETAIL
(FLUSH MOUNT FOR RETROFIT SYSTEMS)



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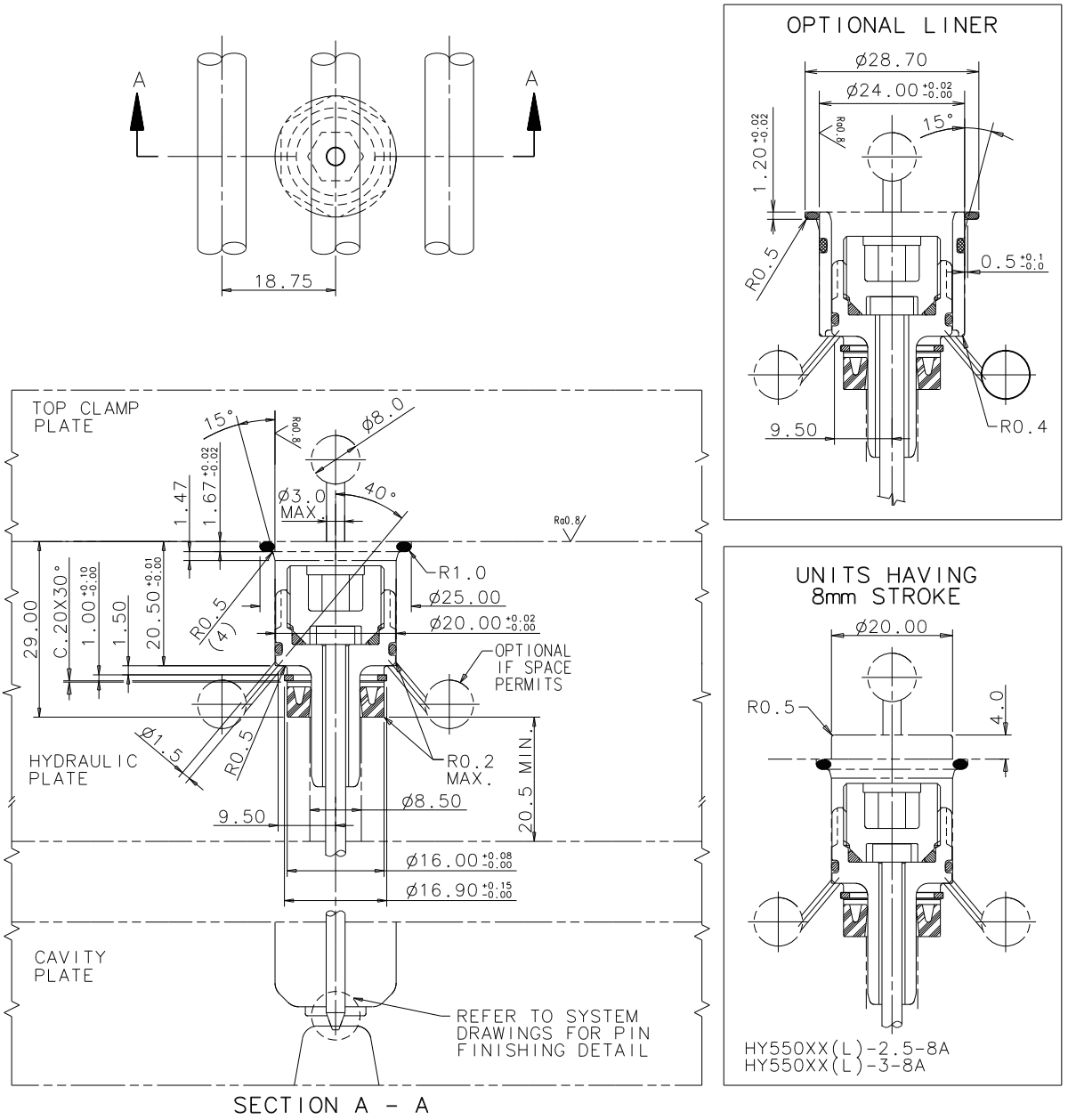
HY5500*



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY5500A	PICO, CENTI	3	4
HY5500E	FEMTO	2.5	4
HY5500G	FEMTO	2.5	2
HY5500H	PICO, CENTI	3	2.5
HY5500I	PICO, CENTI	3	3
HY5500J	PICO, CENTI	3	2
HY5500K	FEMTO	2.5	8
HY5500L	PICO, CENTI	3	8

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HY550X*



SECTION A - A

VALVE PIN (UNFINISHED BLANK) INCLUDED WITH UNIT ASSEMBLY.

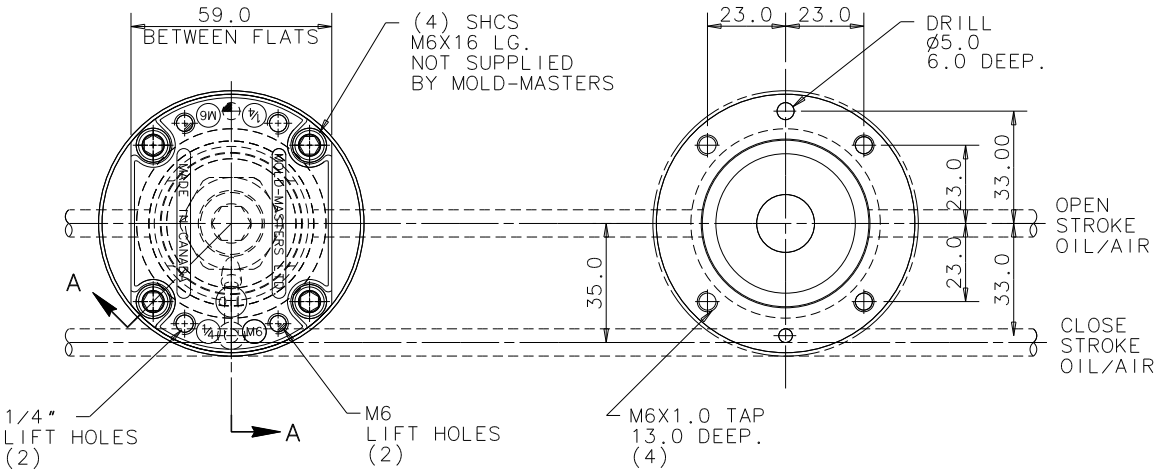
HYD. ASS'Y (w/o LINER)	HYD. ASS'Y (w/ LINER)	PIN ø	STROKE
HY550XA	HY550XAL	3	4
HY550XE	HY550XEL	2.5	4
HY550XG	HY550XGL	2.5	2
HY550XH	HY550XHL	3	2.5
HY550XI	HY550XIL	3	3
HY550XJ	HY550XJL	3	2

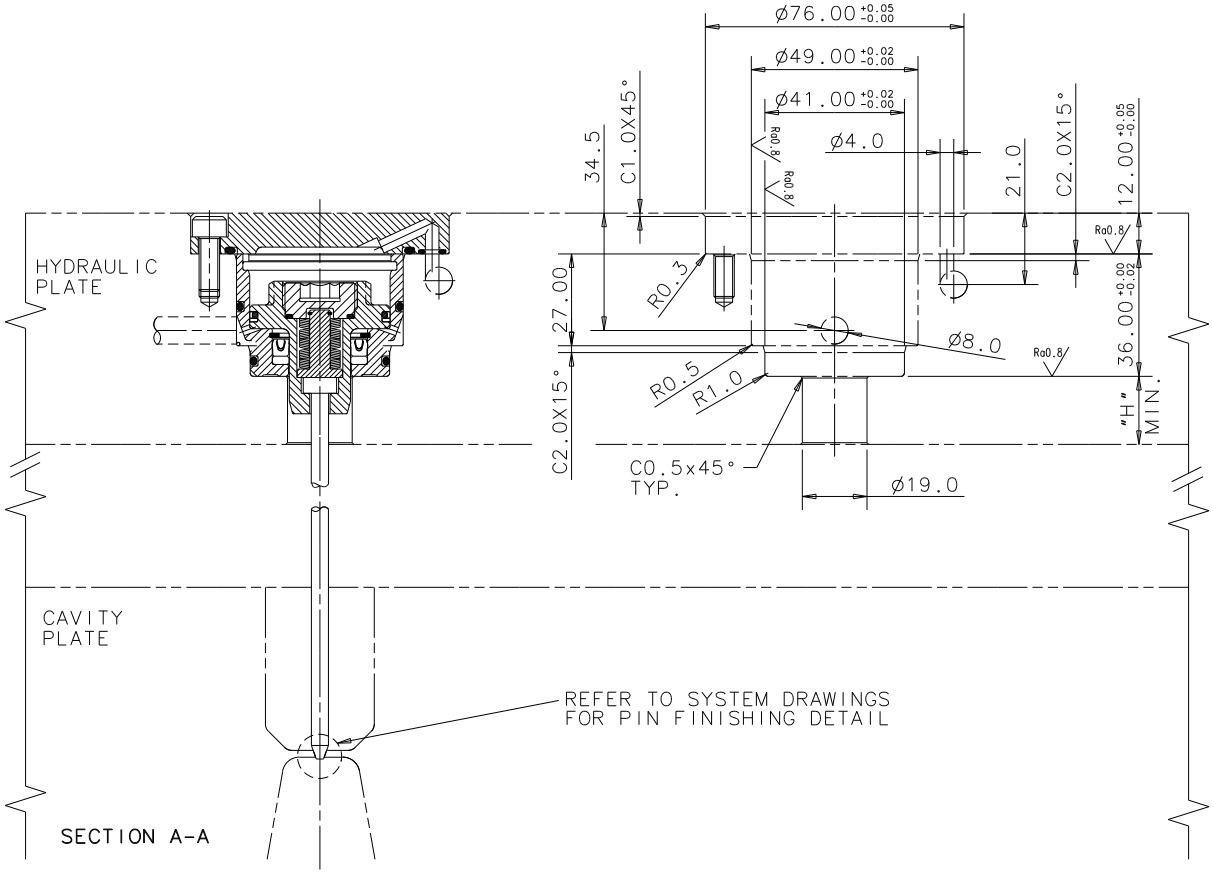
VALVE PIN NOT INCLUDED WITH UNIT ASSEMBLY.

HYD. ASS'Y (w/o LINER)	HYD. ASS'Y (w/ LINER)	PIN ø	STROKE
HY550XX-2.5-2	HY550XXL-2.5-2	2.5	2
HY550XX-2.5-4	HY550XXL-2.5-4	2.5	4
HY550XX-2.5-8A	HY550XXL-2.5-8A	2.5	8
HY550XX-3-2	HY550XXL-3-2	3	2
HY550XX-3-2.5	HY550XXL-3-2.5	3	2.5
HY550XX-3-3	HY550XXL-3-3	3	3
HY550XX-3-4	HY550XXL-3-4	3	4
HY550XX-3-8A	HY550XXL-3-8A	3	8

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HY6500*

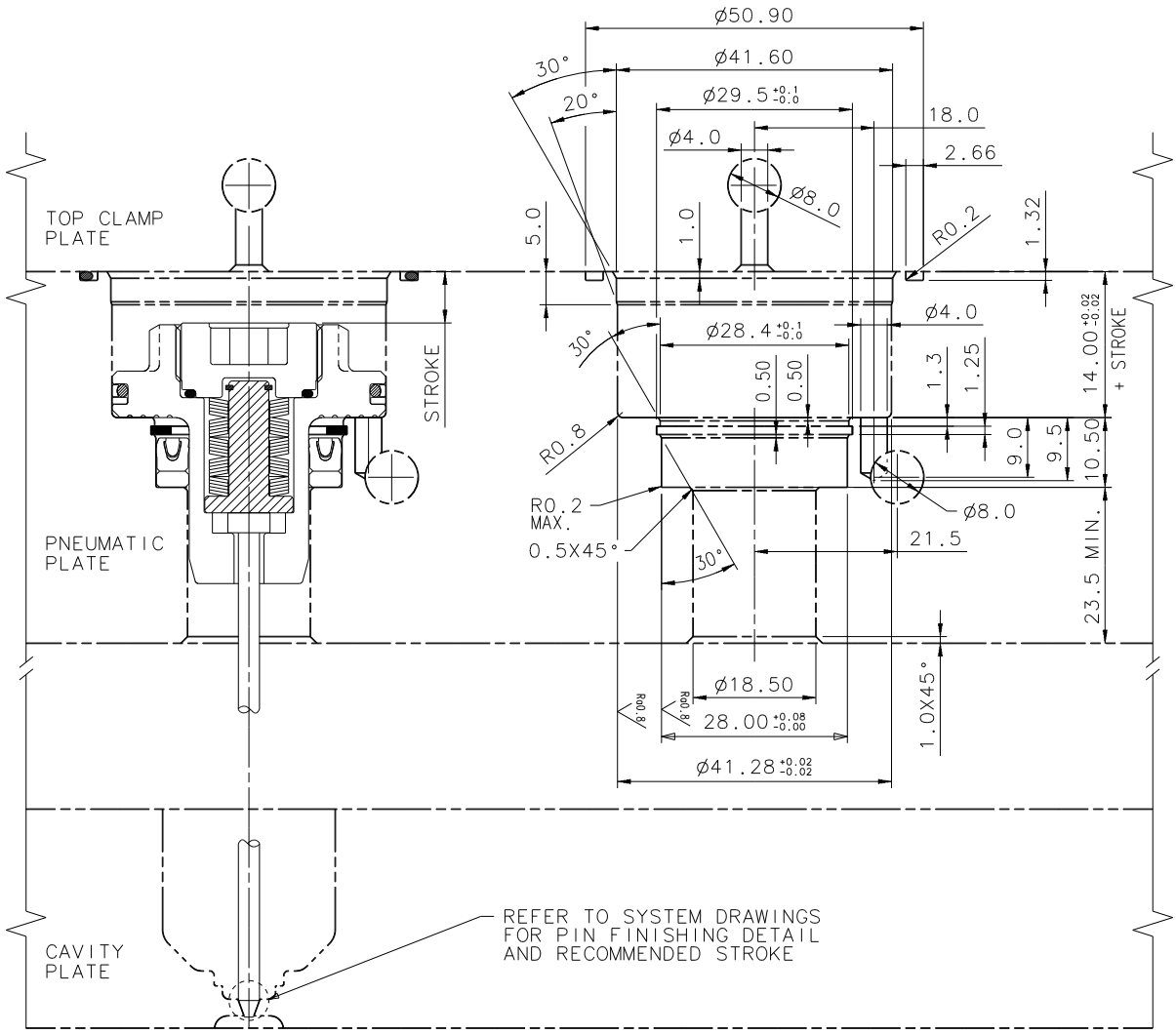




HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE	"H"
HY6500A	DECI	5	10	19.0
HY6500B	DECI	5	10	19.0
HY6500C	DECI	5	10	19.0
HY6500D	PICO, CENTI	3	10	20.0

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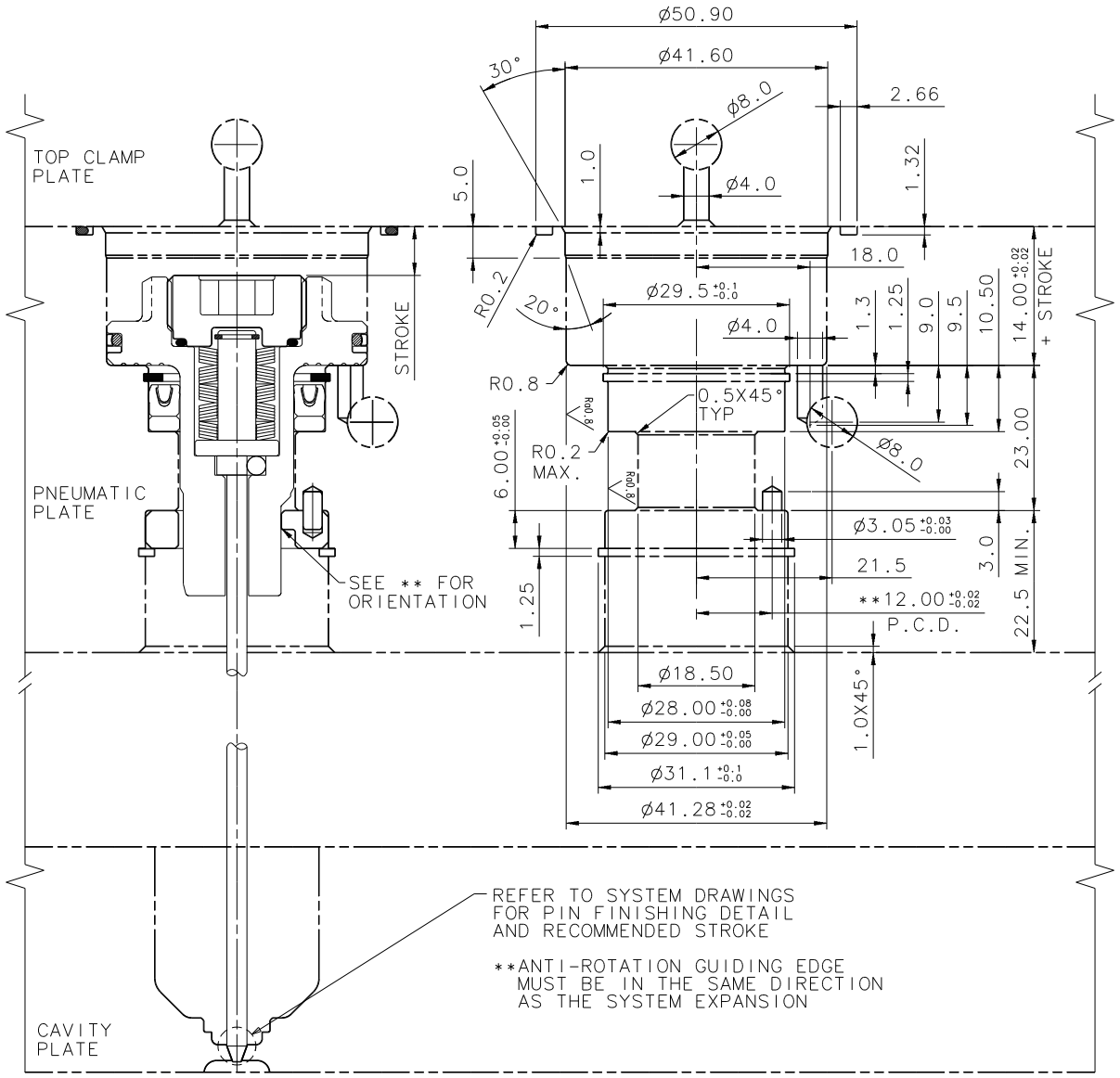
HY650X*



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY650XD	PICO, CENTI	3	10 MAX.
HY650XE	FEMTO	2.5	10 MAX.

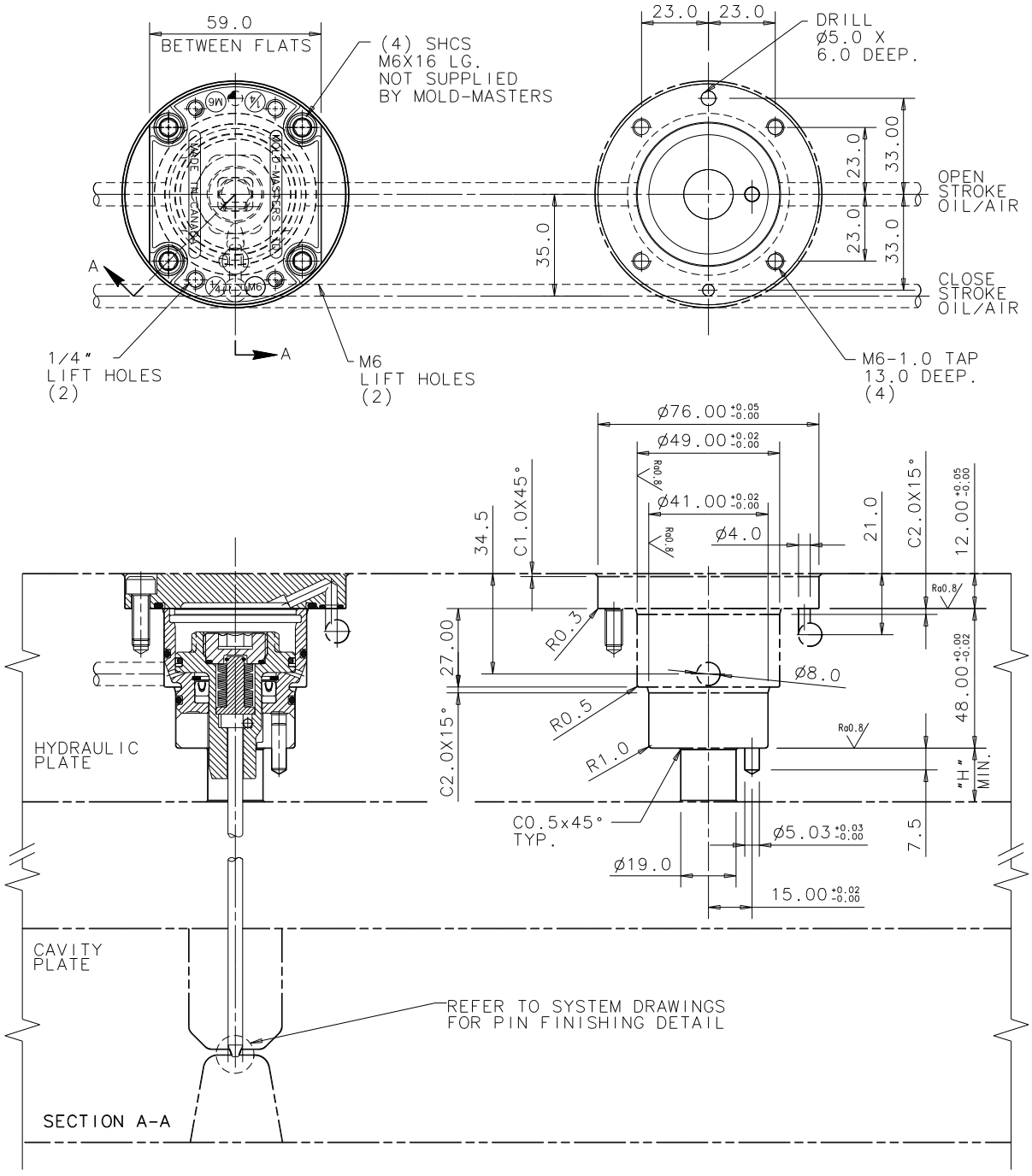
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HY650XDAR



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY650XDAR	PICO, CENTI	3	10 MAX.

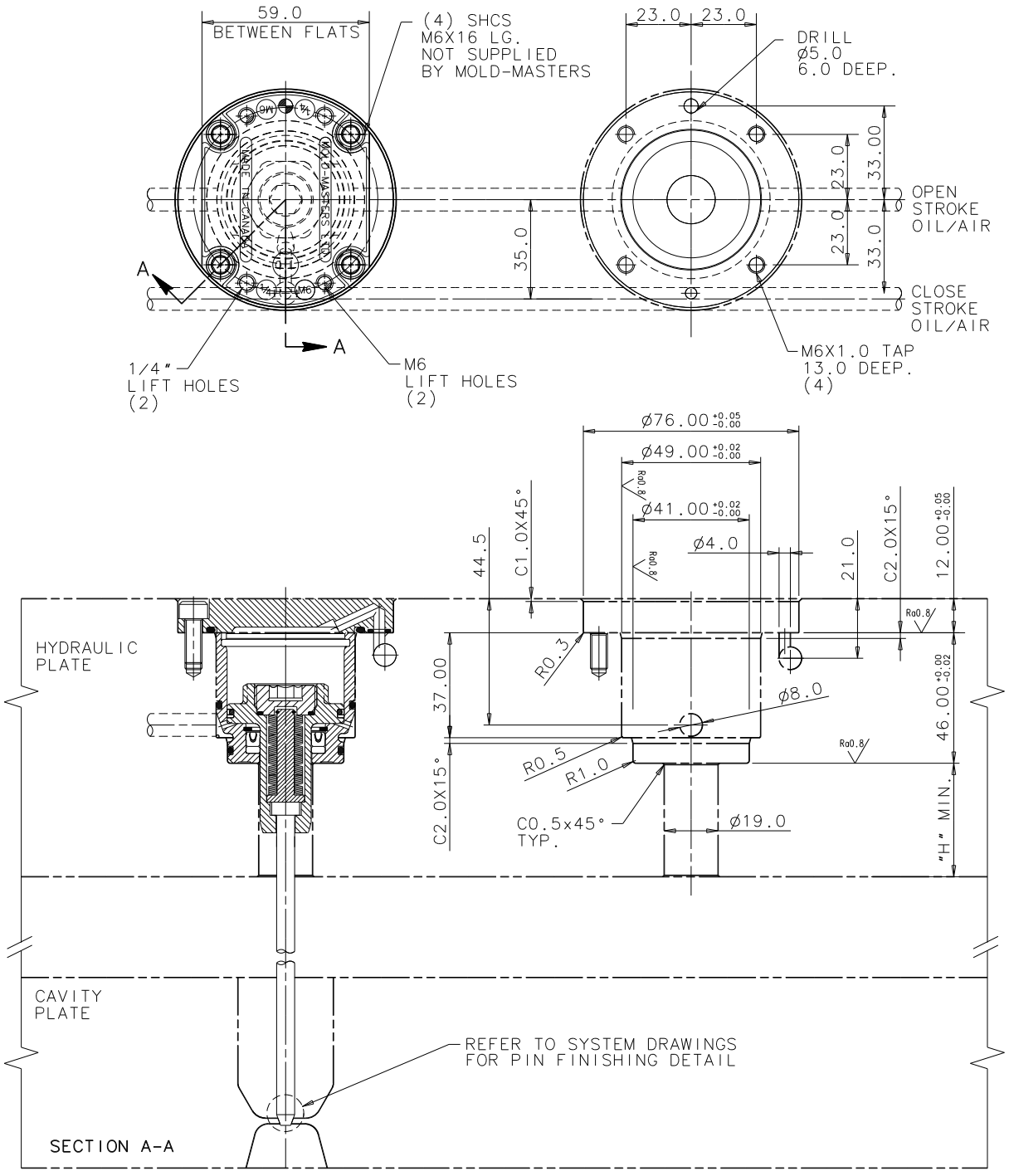
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HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE	"H"
HY6500AAR	DECI	5	10	18.5
HY6500BAR	DECI	5	10	18.5
HY6500CAR	DECI	5	10	18.5
HY6500KAR	PICO, CENTI	3	10	19.5
HY6500LAR	PICO, CENTI	3	10	19.5

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HY6600*
VPAC0009



VALVE PIN NOT INCLUDED WITH UNIT ASSEMBLY

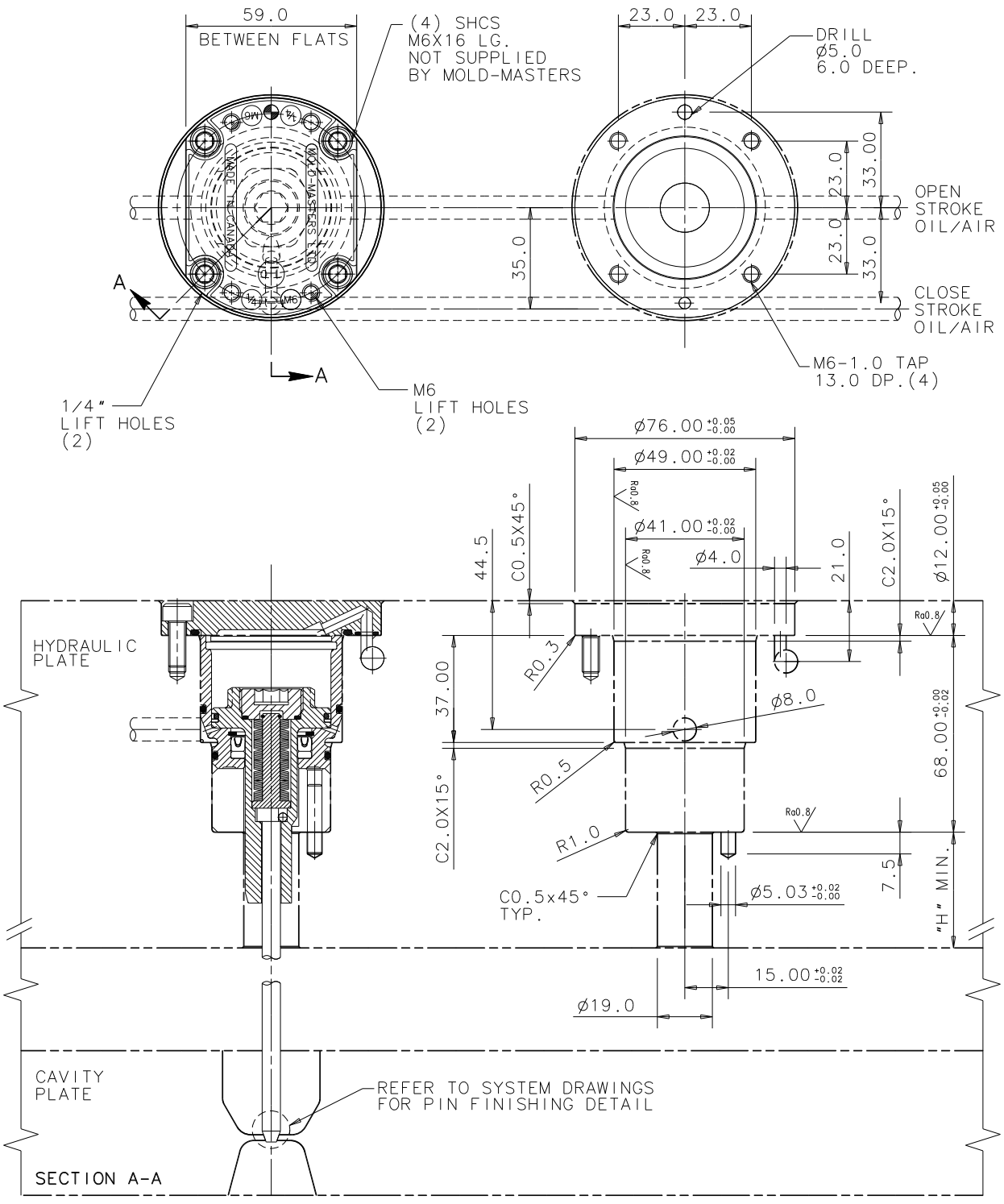
ACTUATOR ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE	"H"
HY6600x-5-20	DECI	5	20	32.5
VPAC0009	HECTO	8	20	40.0

VALVE PIN (UNFINISHED BLANK) INCLUDED WITH UNIT ASSEMBLY

ACTUATOR ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE	"H"
HY6600G	DECI	5	20	32.5

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HY6600*AR
VPAC0011



VALVE PIN NOT INCLUDED WITH UNIT ASSEMBLY

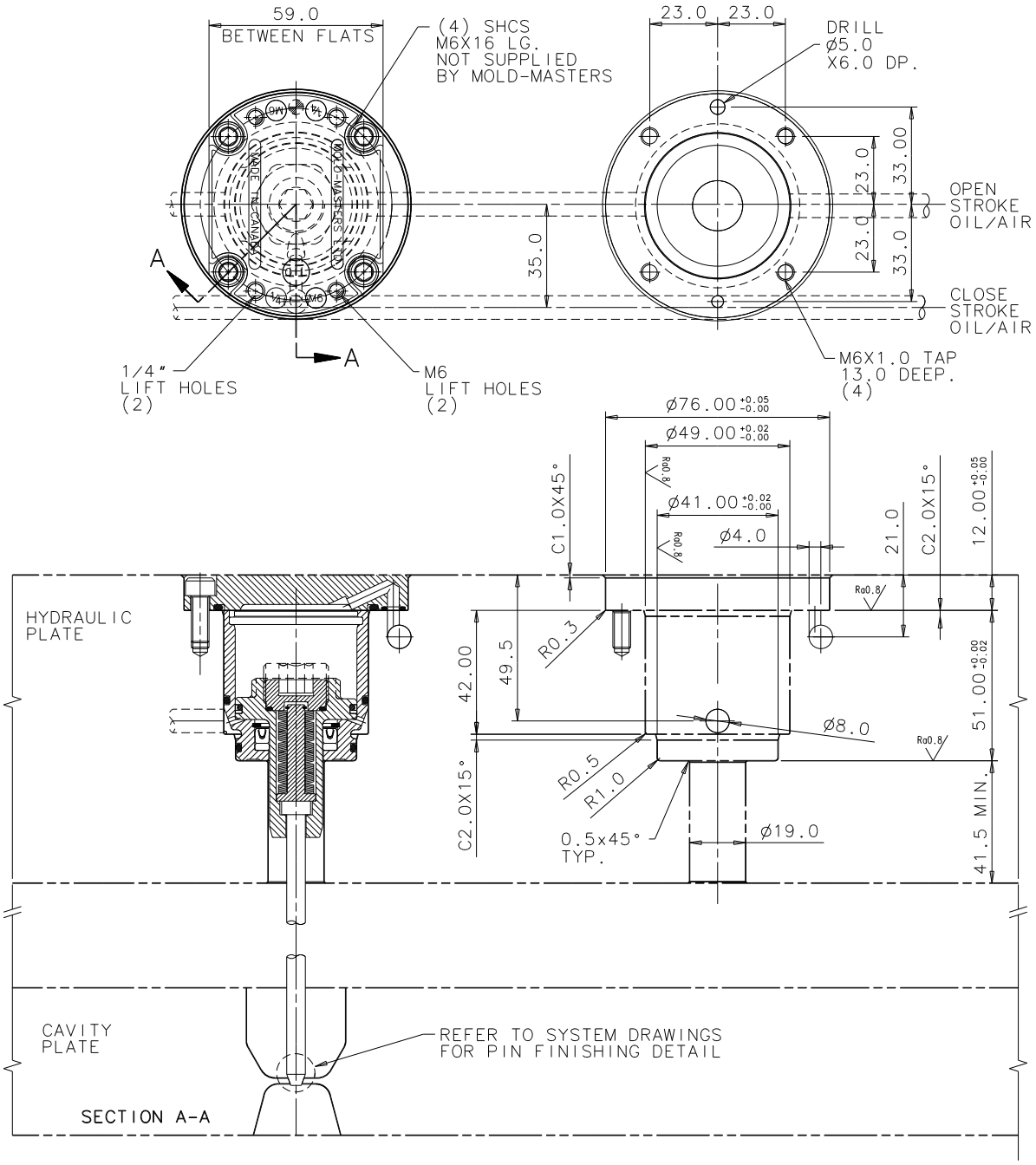
ACTUATOR ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE	"H"
HY6600xAR-5-20	DECI	5	20	32.5
VPAC0011	HECTO	8	20	40.0

VALVE PIN (UNFINISHED BLANK) INCLUDED WITH UNIT ASSEMBLY

ACTUATOR ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE	"H"
HY6600GAR	DECI	5	20	32.5

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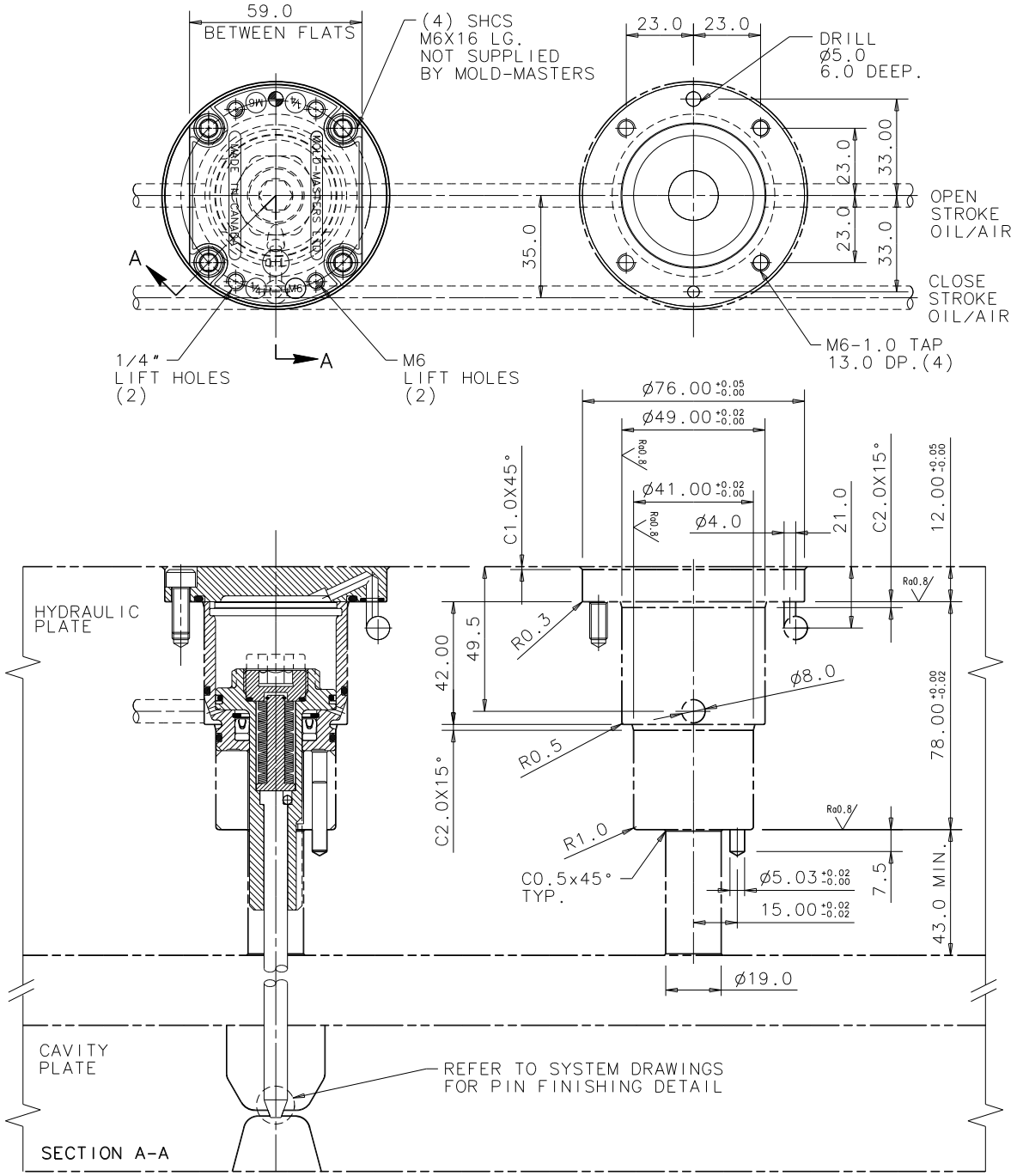
HY6700*



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY6700G	HECTO	8	20-25
HY6700H	HECTO	8	20-25
HY6700I	HECTO	8	20-25
HY6700J	HECTO	8	25
HY6700K	HECTO	8	25
HY6700L	HECTO	8	25

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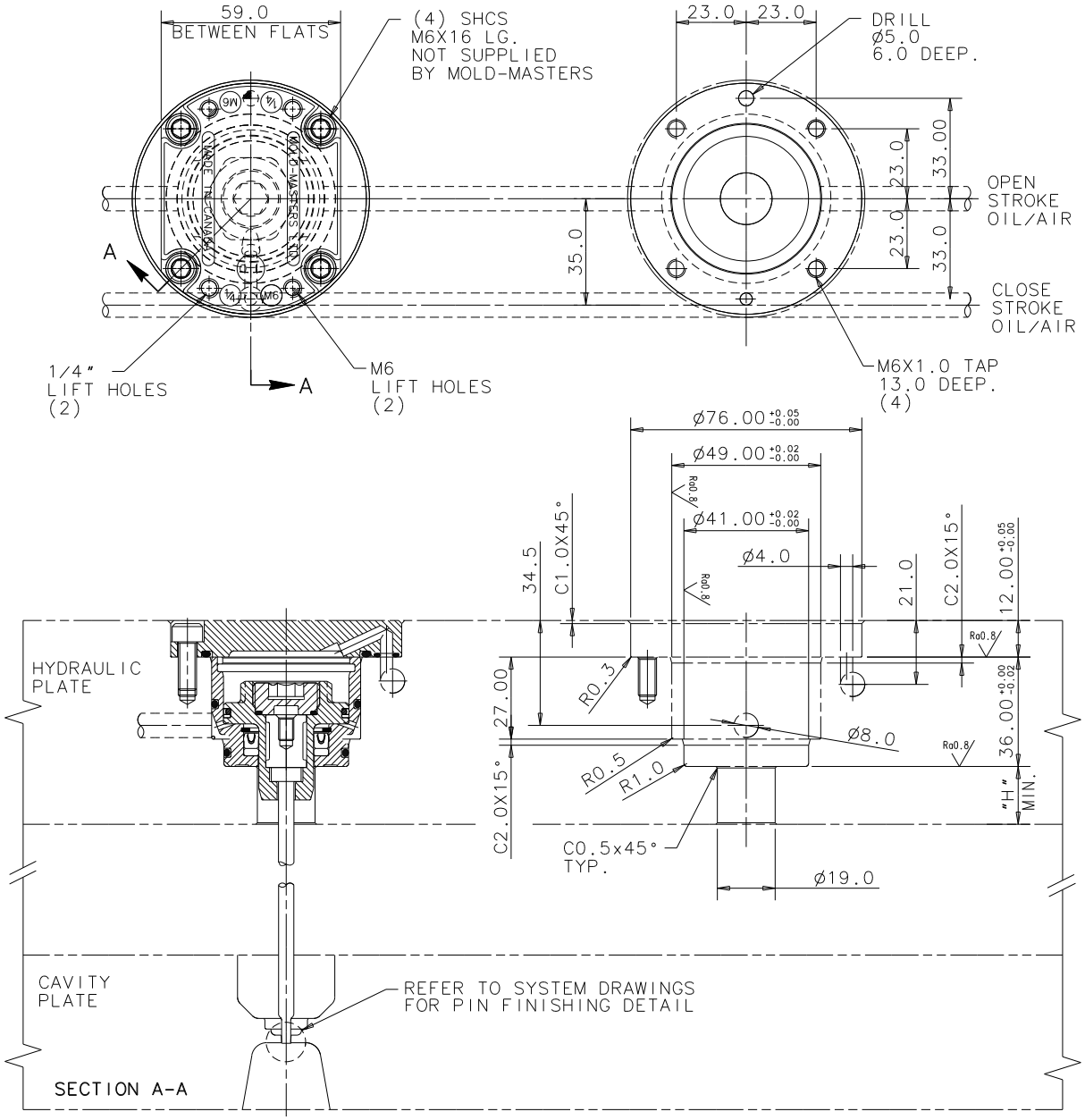
HY6700*AR



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY6700GAR	HECTO	8	20-25
HY6700HAR	HECTO	8	20-25
HY6700IAR	HECTO	8	20-25
HY6700JAR	HECTO	8	25
HY6700KAR	HECTO	8	25
HY6700LAR	HECTO	8	25

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HY7100*

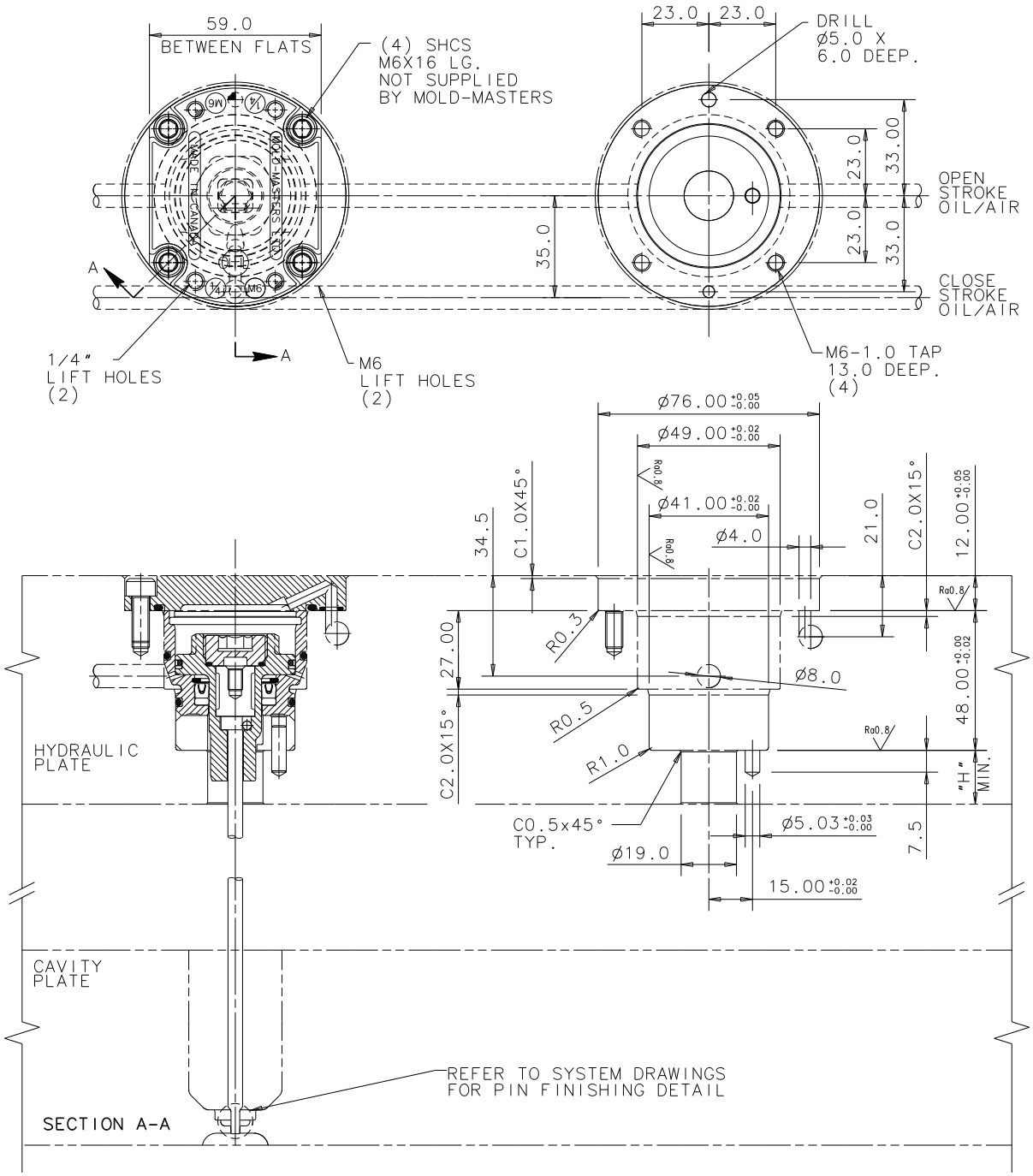


HYD. PACKAGE	PRODUCT LINE	PIN Ø	STROKE	"H"
HY7100A	DECI	5	10	19.0
HY7100B	DECI	5	10	19.0
HY7100C	DECI	5	10	19.0
HY7100D	PICO, CENTI	3	10	20.0
HY7100E	DECI	5	3.5	19.0
HY7100F	DECI	5	3.5	19.0
HY7100G	DECI	5	3.5	19.0
HY7100H	PICO	3	2.5	20.0
HY7100I	CENTI	3	3	20.0

HYD. PACKAGE	PRODUCT LINE	PIN Ø	STROKE	"H"
HY7100J	FEMTO	2.5	2	20.0
HY7100K	FEMTO	2.5	8	20.0

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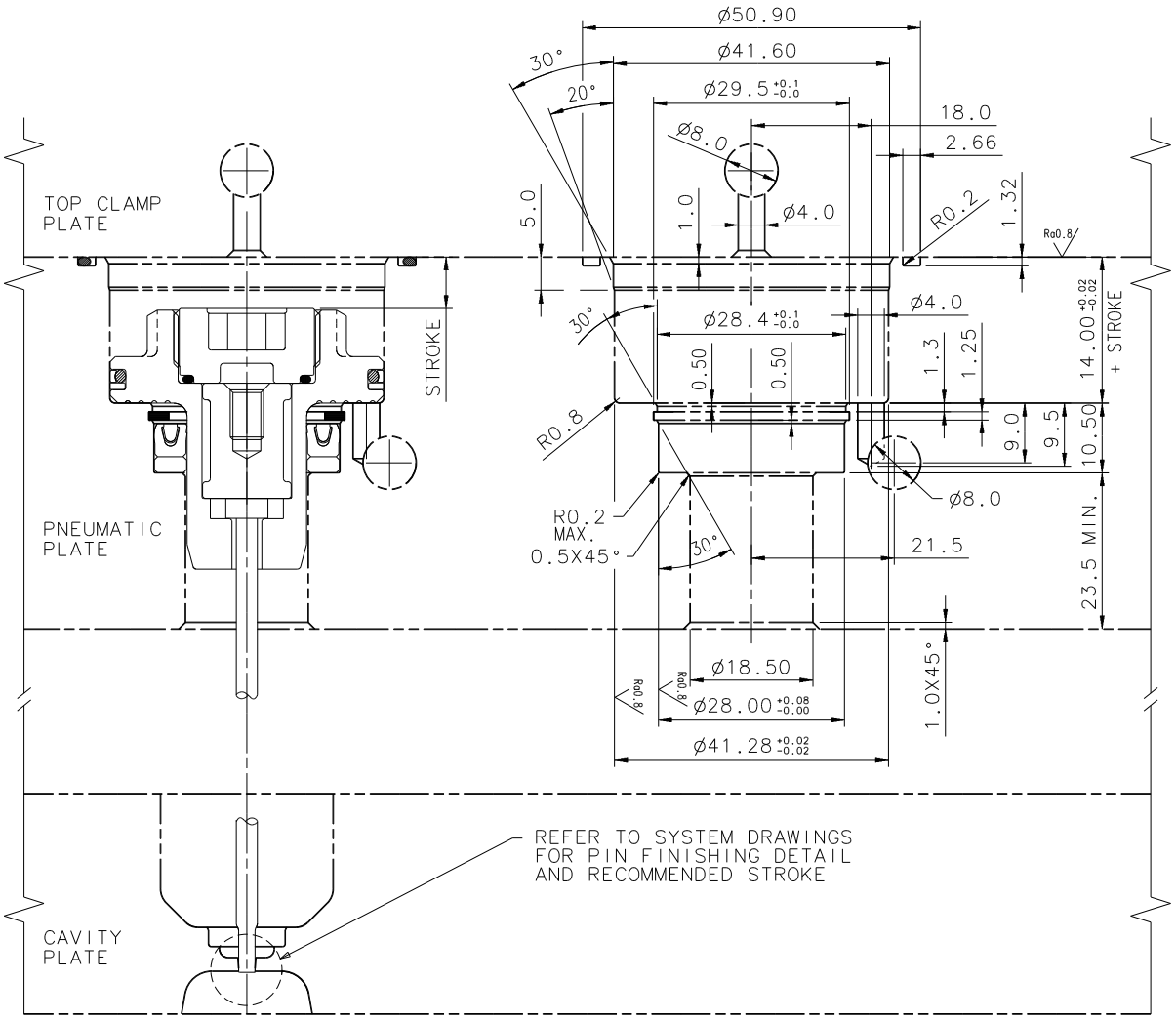
HY7100*AR



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE	"H"
HY7100AAR	DECI	5	10	18.5
HY7100BAR	DECI	5	10	18.5
HY7100CAR	DECI	5	10	18.5
HY7100DAR	PICO, CENTI	3	10	19.5

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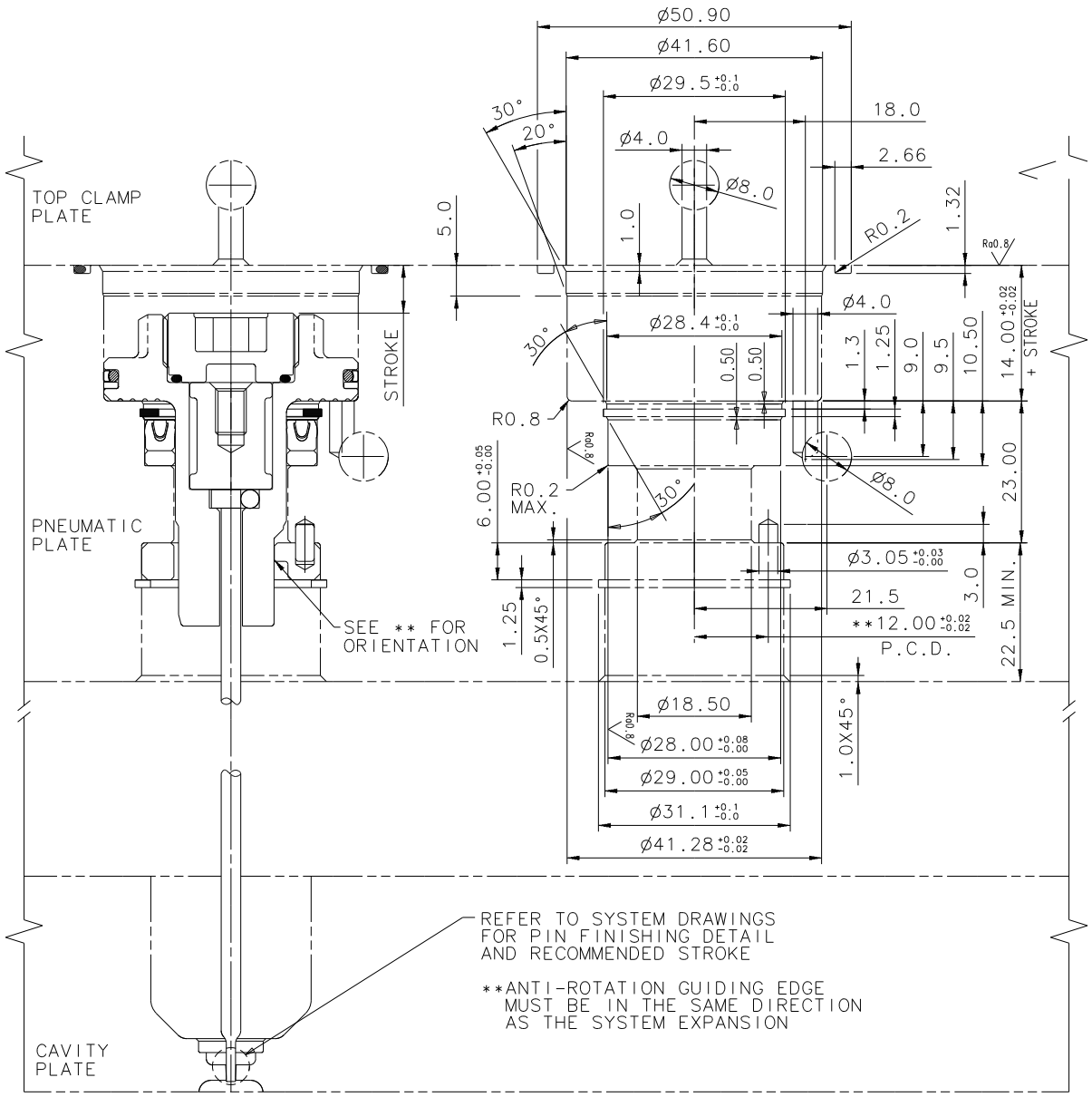
HY710X*



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY710XD	PICO, CENTI	3	10 MAX.
HY710XE	FEMTO	2.5	10 MAX.

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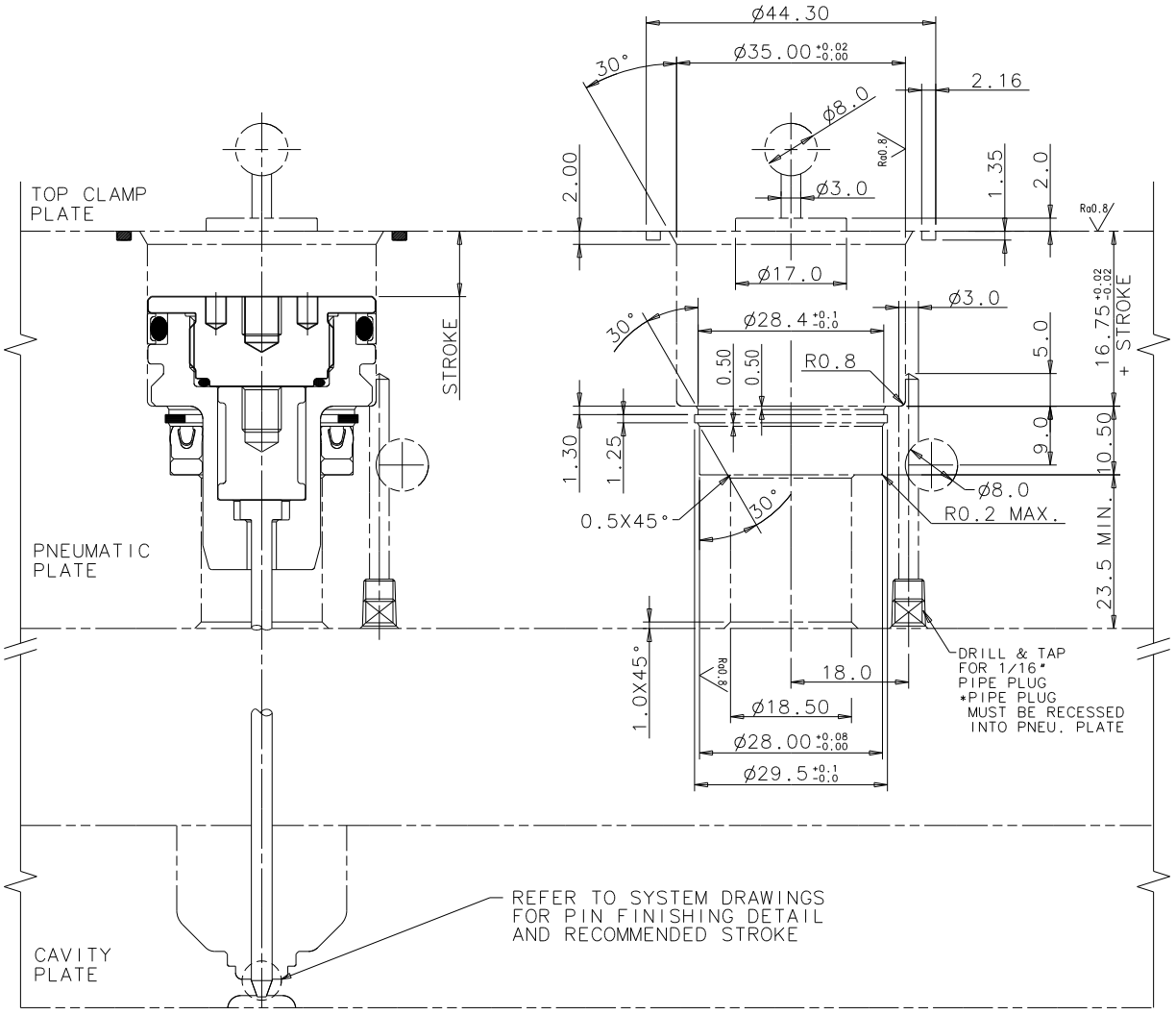
HY710XDAR



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY710XDAR	PICO, CENTI	3	10 MAX.

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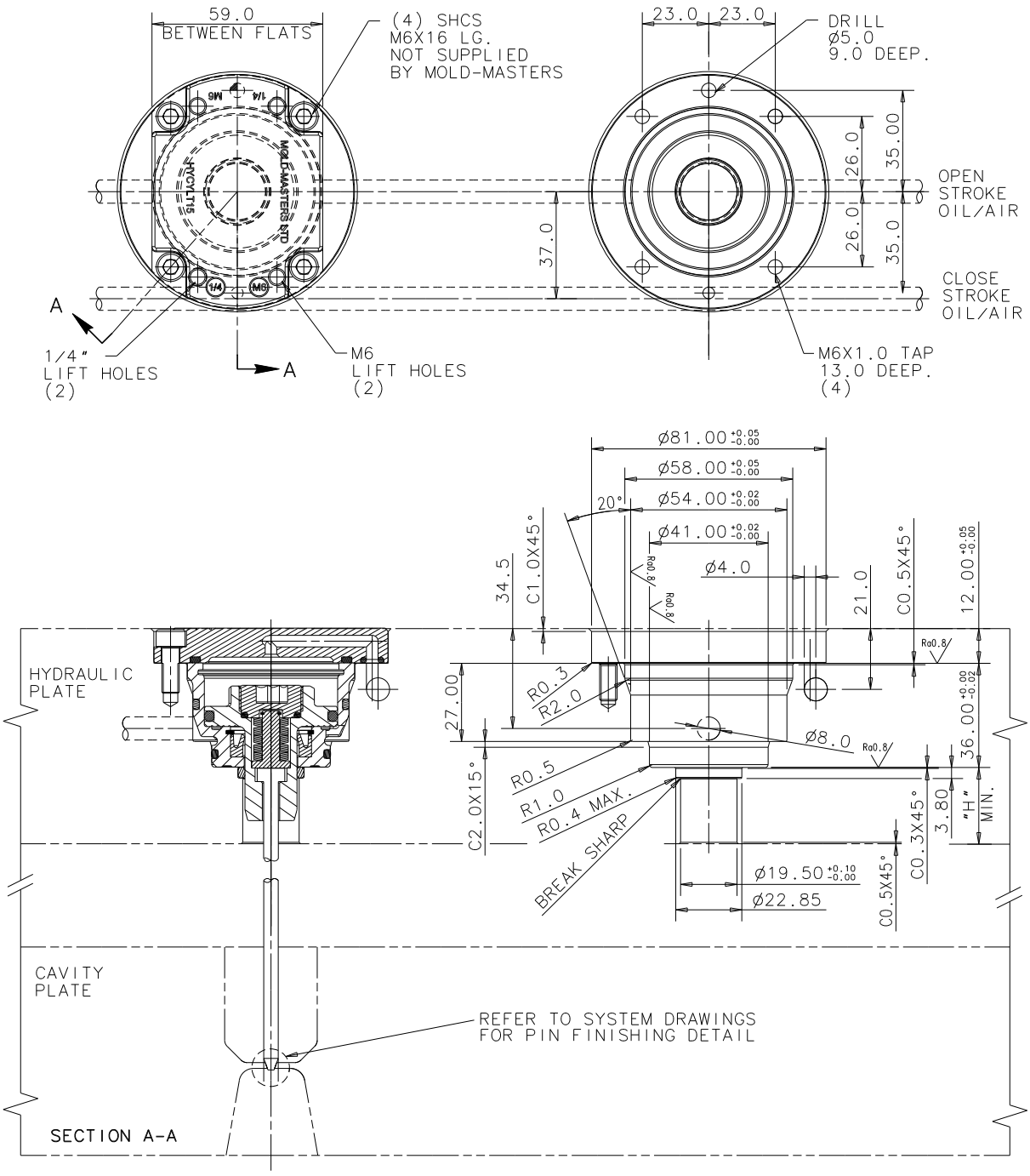
PN2300*



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
PN2300A	FEMTO	2.5	10 MAX.
PN2300B	PICO, CENTI	3	10 MAX.

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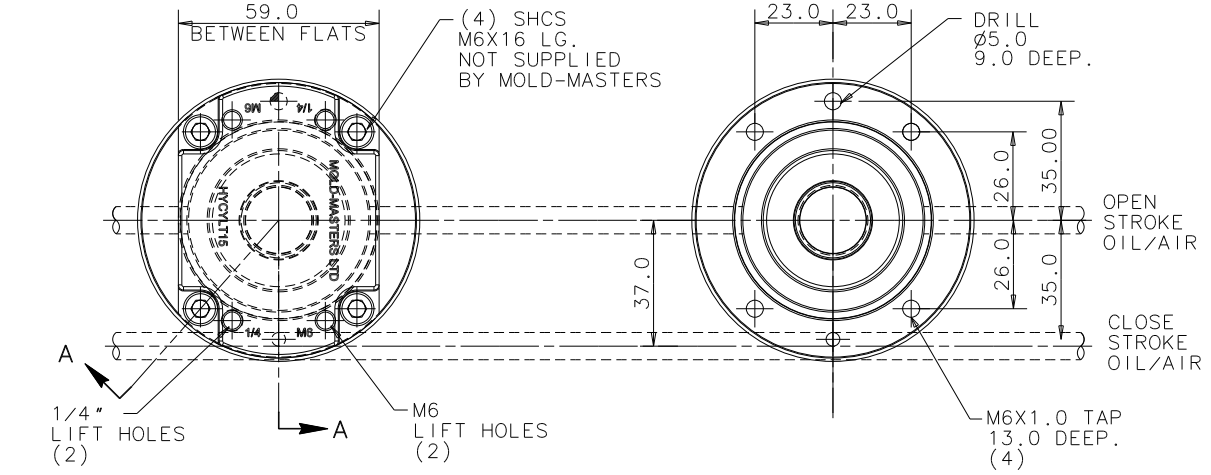
HY8400*

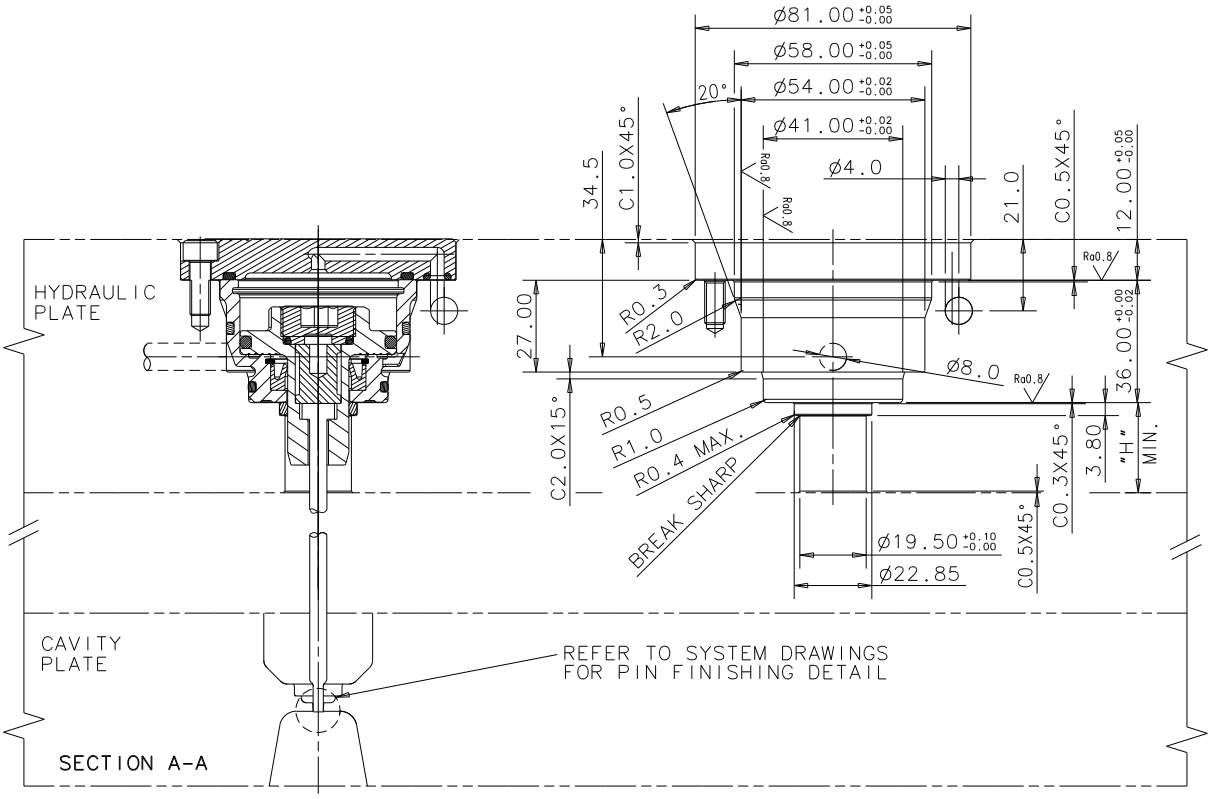


HYD. PACKAGE	PRODUCT LINE	PIN Ø	STROKE	"H"
HY8400A	DECI	5	10	26.5
HY8400B	DECI	5	10	26.5
HY8400C	DECI	5	10	26.5
HY8400F	PICO, CENTI	3	10	27.5

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HY8500*



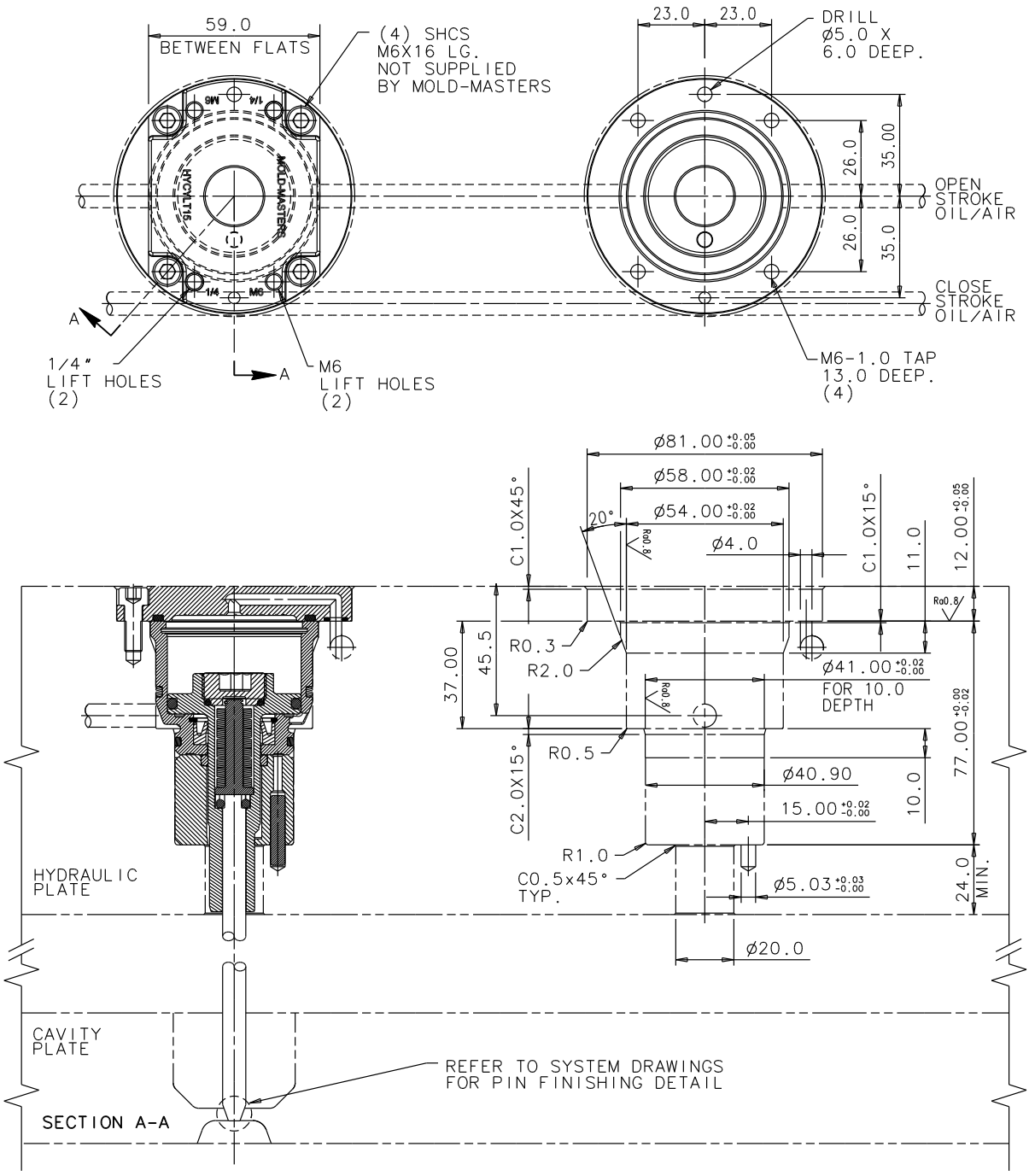


HYD. PACKAGE	PRODUCT LINE	PIN Ø	STROKE	"H"
HY8500A	DECI	5	10	26.5
HY8500B	DECI	5	10	26.5
HY8500C	DECI	5	10	26.5
HY8500D	DECI	5	3.5	26.5
HY8500E	DECI	5	3.5	26.5
HY8500F	DECI	5	3.5	26.5
HY8500I	PICO, CENTI	3	10	27.5

HYD. PACKAGE	PRODUCT LINE	PIN Ø	STROKE	"H"
HY8500J	PICO, CENTI	3	2.5	27.5
HY8500K	PICO, CENTI	3	3	27.5

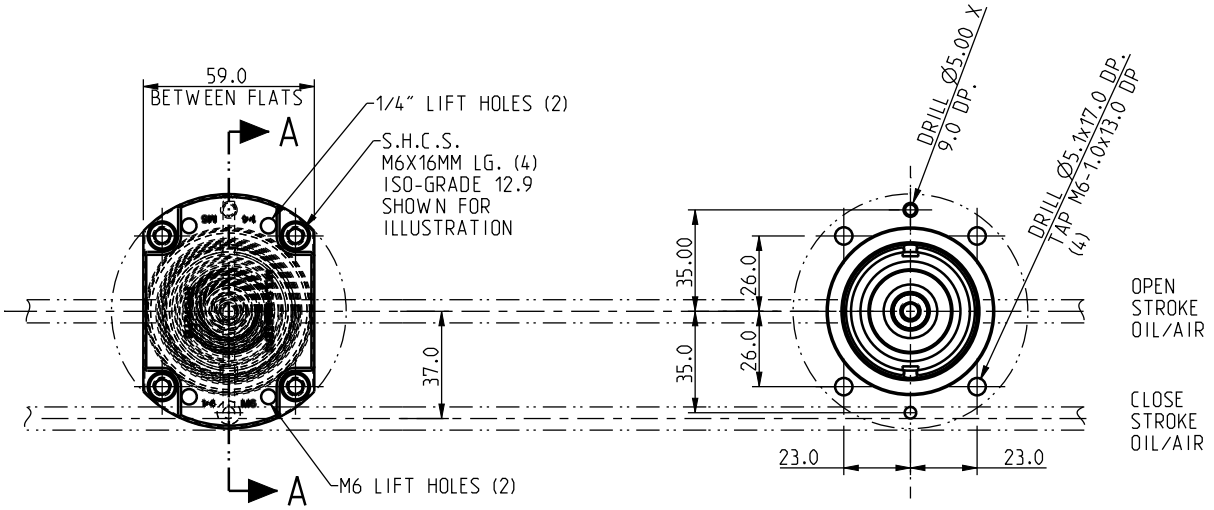
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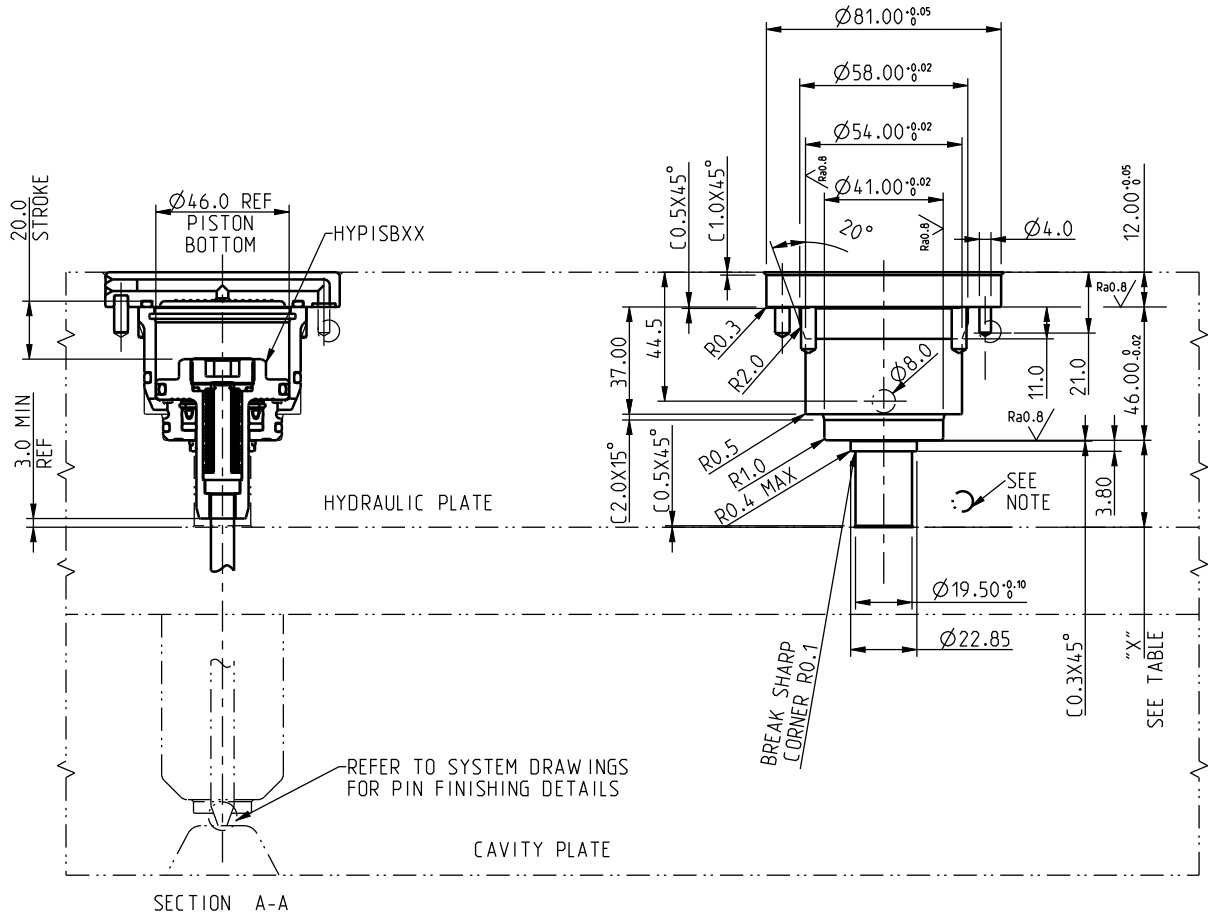
HY8600*AR



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY8600AAR	HECTO	8	20
HY8600BAR	HECTO	8	20
HY8600CAR	HECTO	8	20
HY8600DAR	DECI	5	20

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VD STYLE	"X"
VDSTEMC-H13 (2 PIECE EXTENDED STEM DESIGN)	42.50 MM
VDSTEMC-ELMAX (2 PIECE EXTENDED STEM DESIGN)	42.50 MM
VD-A (REGULAR NON EXTENDED DESIGN)	30.00 MM
VD-B (2 PIECE NON EXTENDED DESIGN)	30.00 MM
VALVE BUSH	30.00 MM

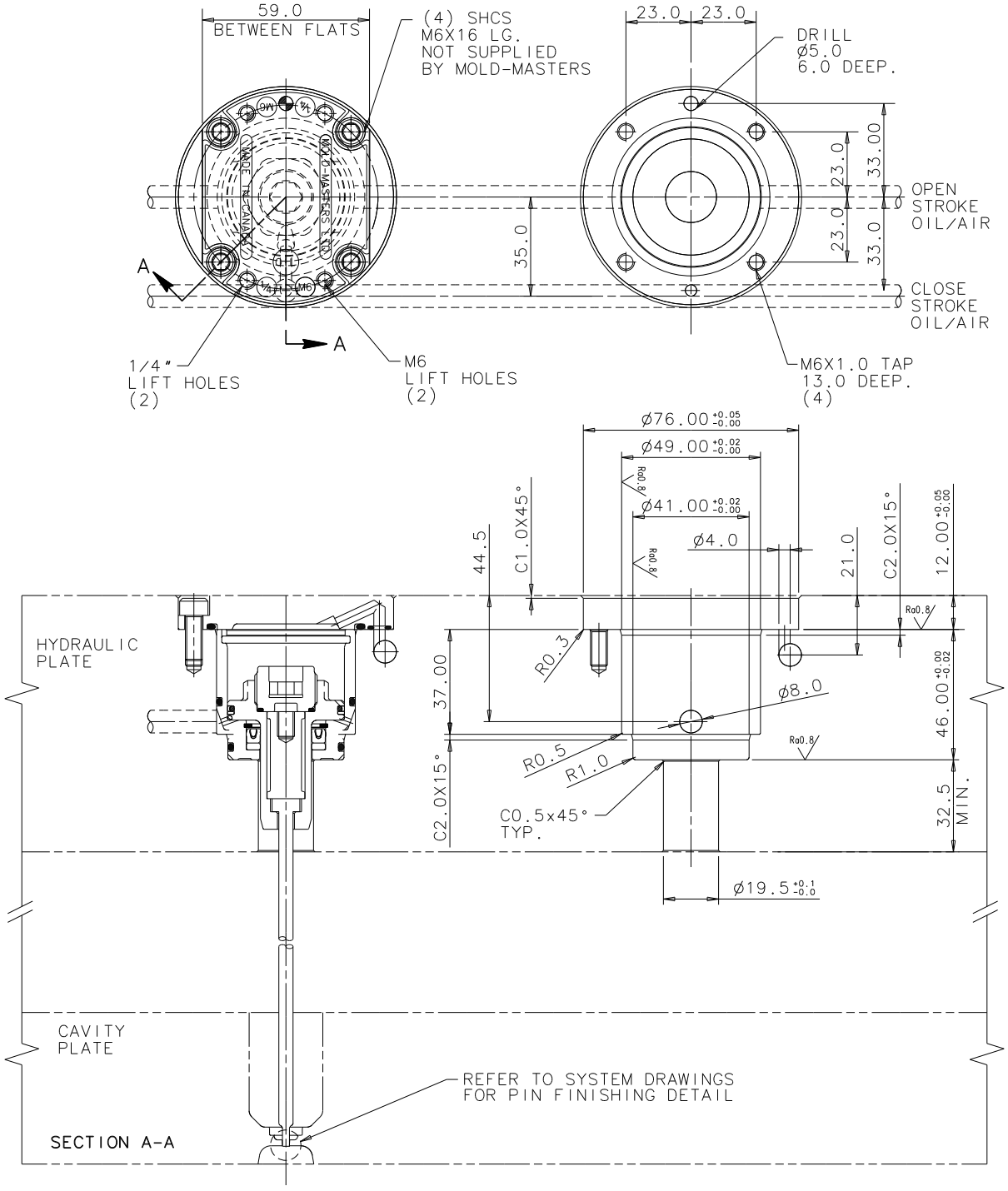
VALVE PINØ	HYPISBXX	ACTUATOR
8.0	HYPISB86	HY8600X-8-20

IMPORTANT NOTE:
AT LEAST ONE COOLING LINE REQUIRED
TO BE ADDED CLOSE APPROXIMATELY TO
HYDRAULIC UNIT.

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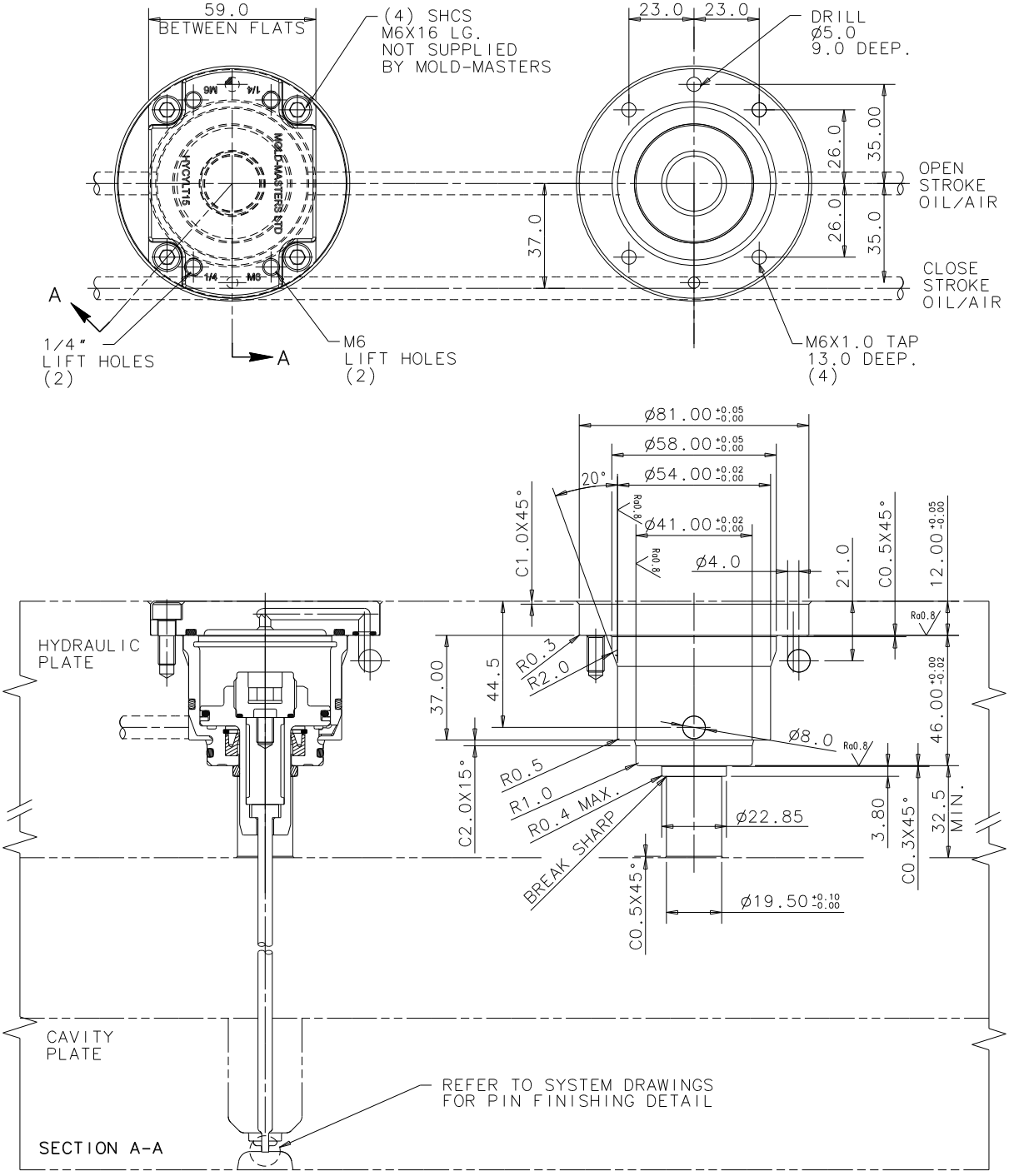
HY8700*



HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY8700A	DECI	5	15
HY8700B	DECI	5	15
HY8700C	DECI	5	15

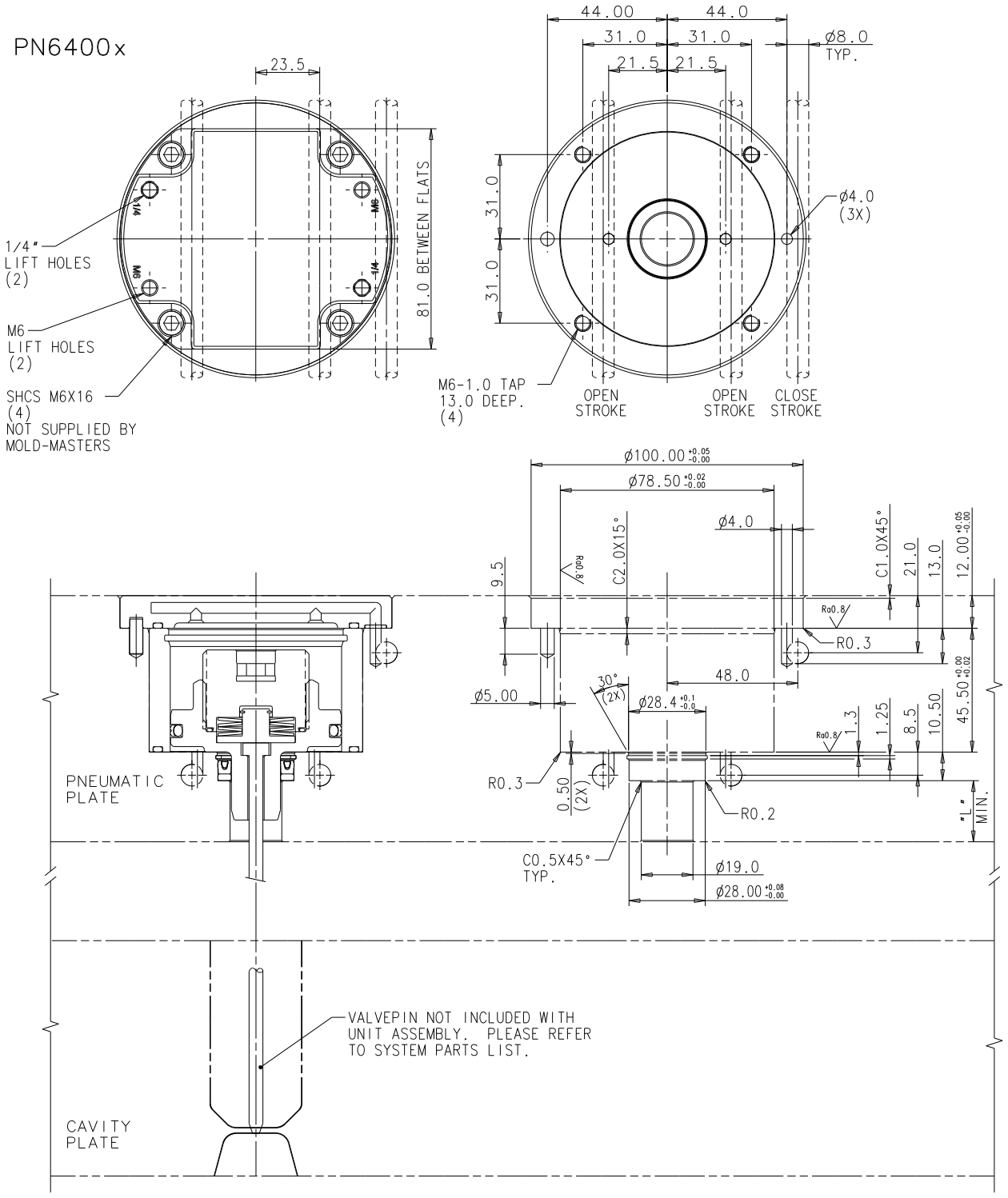
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HY8800*



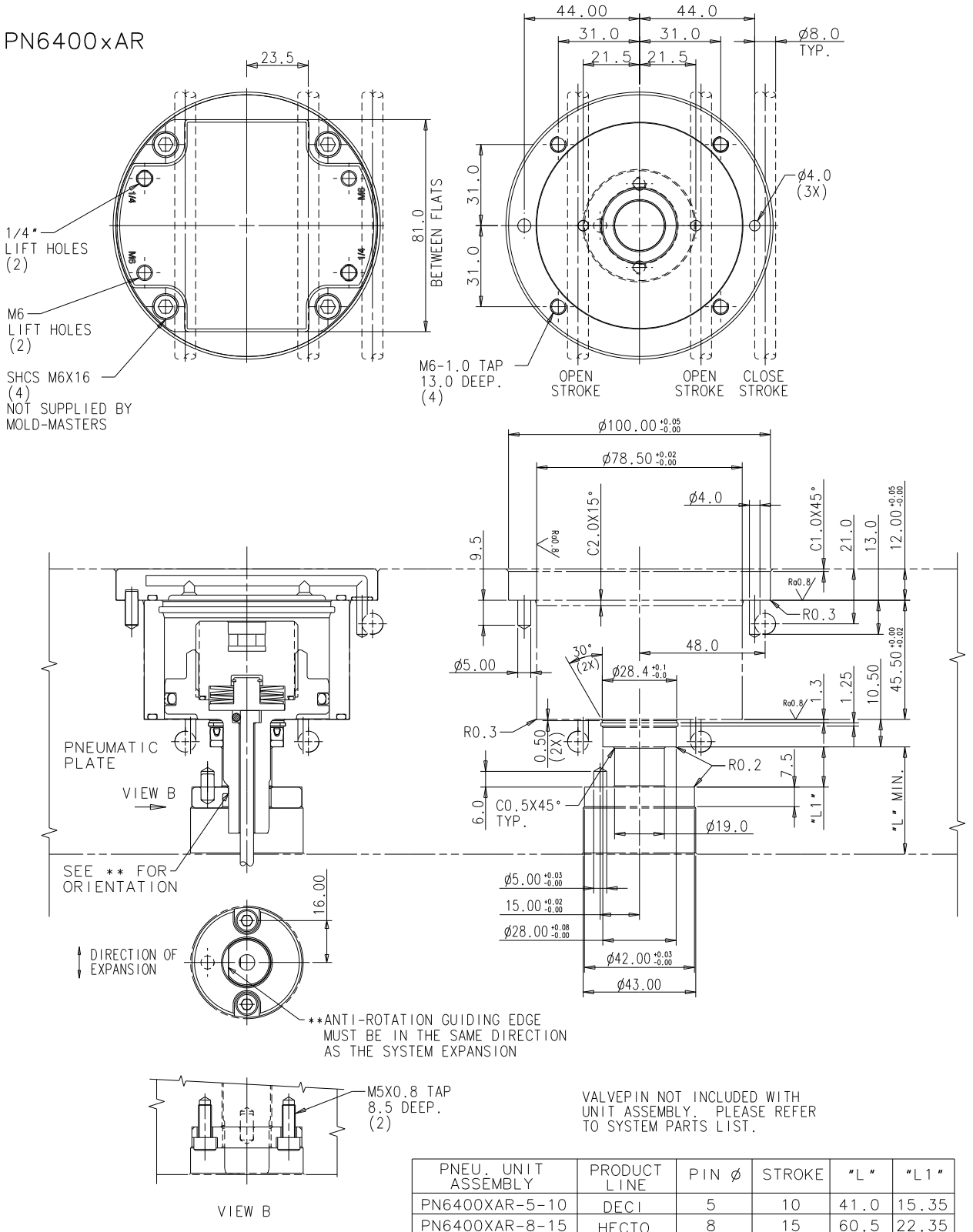
HYD. PACKAGE	PRODUCT LINE	PIN DIAMETER	STROKE
HY8800A	DECI	5	15
HY8800B	DECI	5	15
HY8800C	DECI	5	15

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PNEU. UNIT ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE	"L"
PN6400X-5-10	DECI	5	10	22.5
PN6400X-8-15	HECTO	8	15	40.0
PN6400X-8-20	HECTO	8	20	40.0

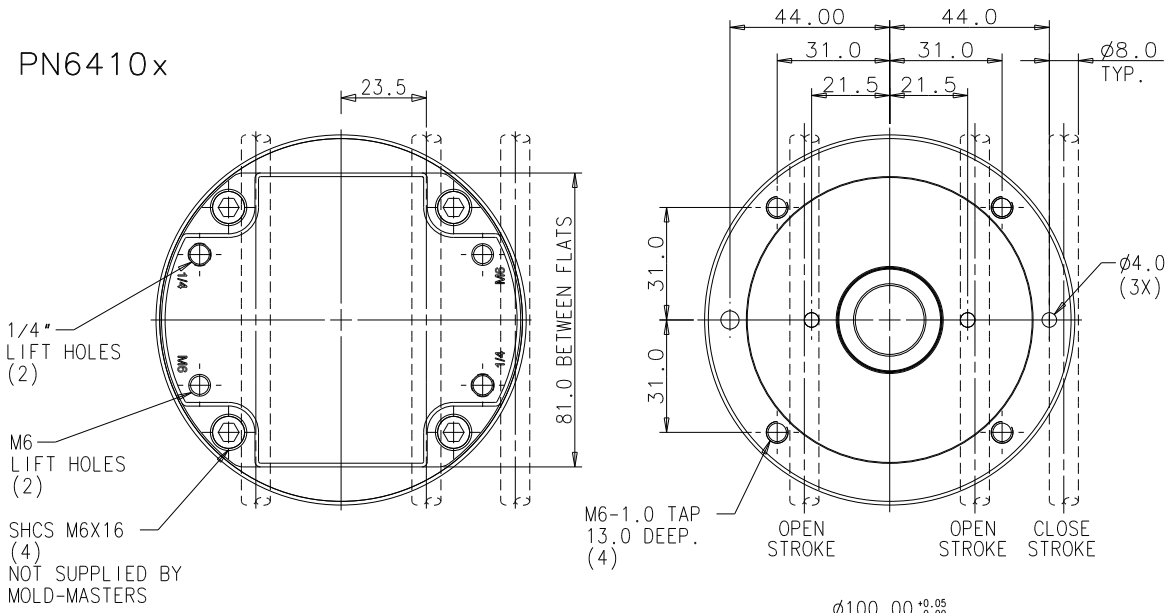
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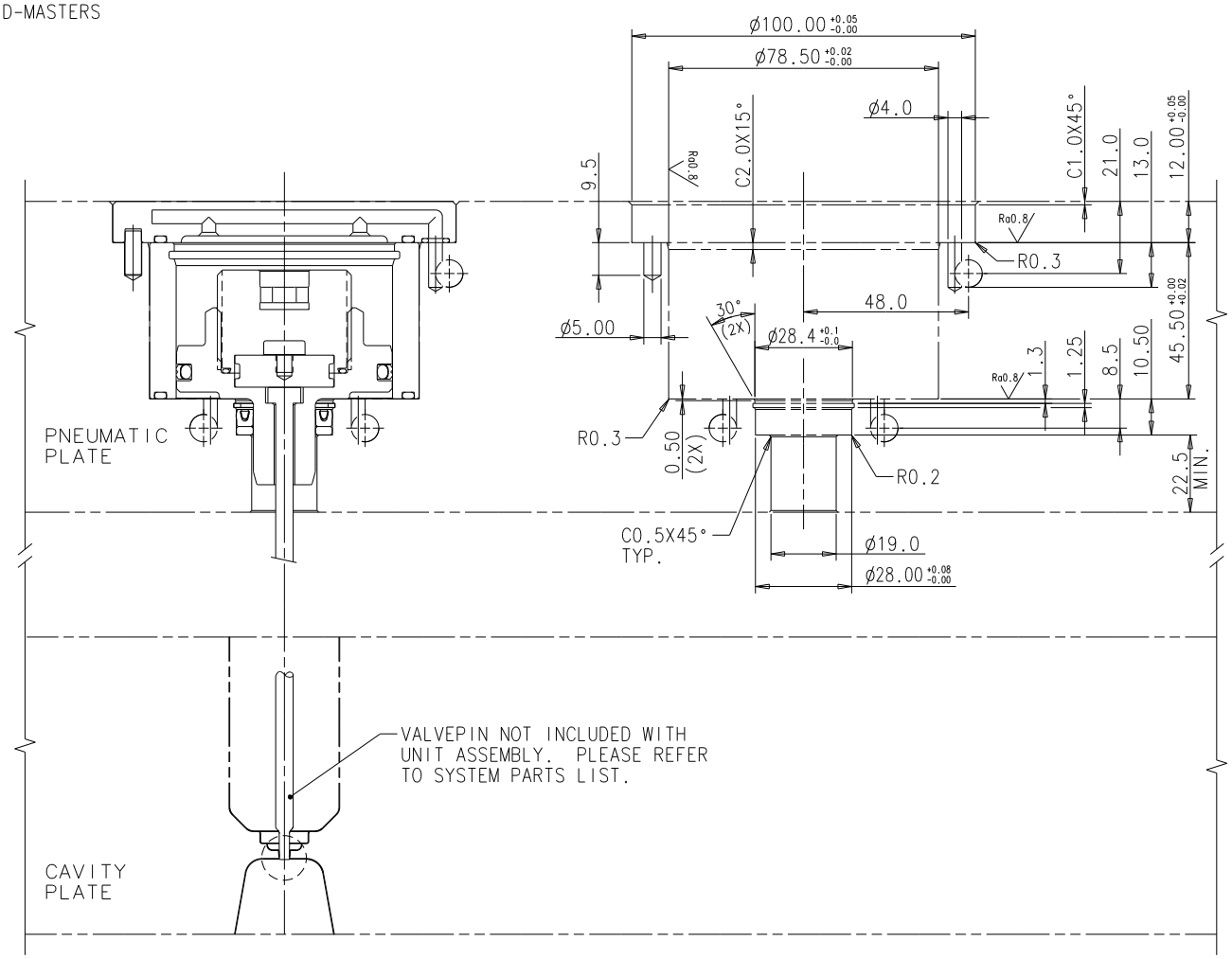


VALVEPIN NOT INCLUDED WITH UNIT ASSEMBLY. PLEASE REFER TO SYSTEM PARTS LIST.

PNEU. UNIT ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE	"L"	"L1"
PN6400XAR-5-10	DECI	5	10	41.0	15.35
PN6400XAR-8-15	HECTO	8	15	60.5	22.35
PN6400XAR-8-20	HECTO	8	20	60.5	22.35

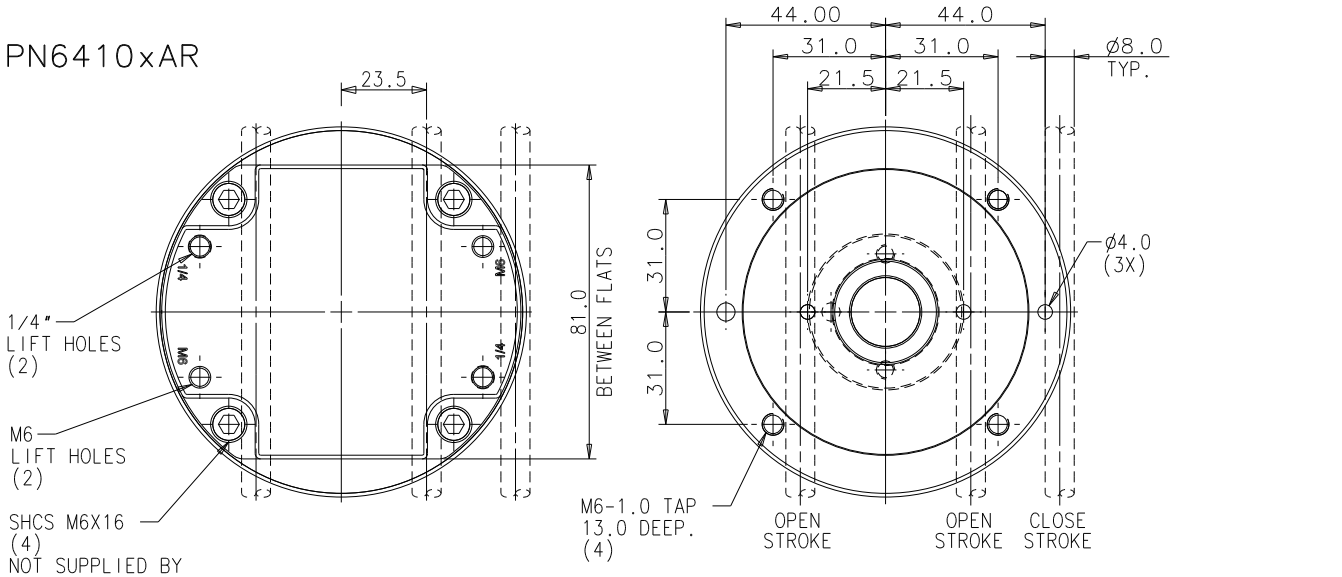
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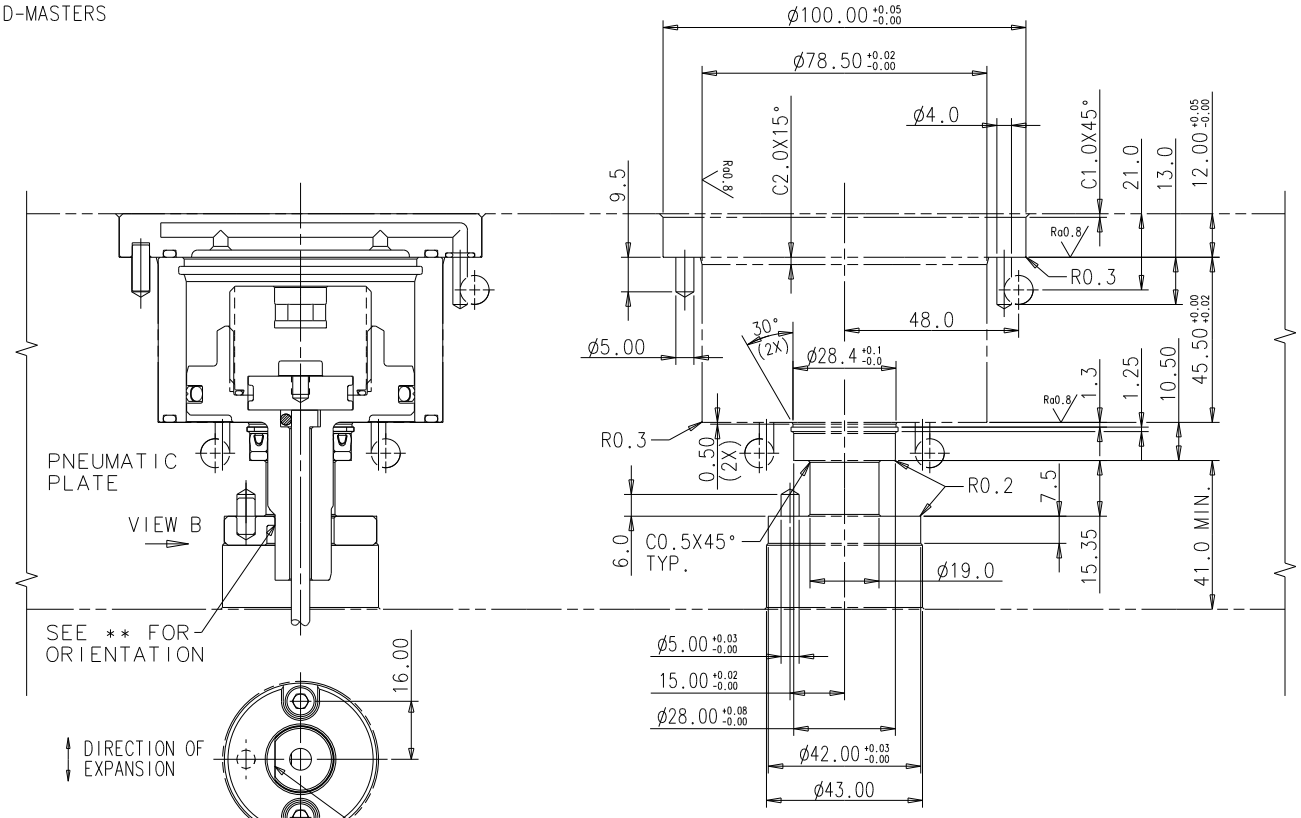


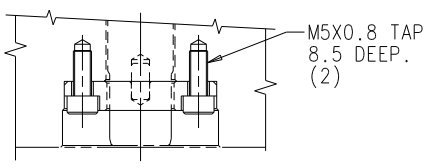


PNEU. UNIT ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE
PN6410X-5-10	DECI	5	10
PN6410X-5-15			15
PN6410X-5-20			20

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VALVEPIN NOT INCLUDED WITH UNIT ASSEMBLY. PLEASE REFER TO SYSTEM PARTS LIST.

PNEU. UNIT ASSEMBLY	PRODUCT LINE	PIN Ø	STROKE
PN6410XAR-5-10	DECI	5	10
PN6410XAR-5-15			15
PN6410XAR-5-20			20

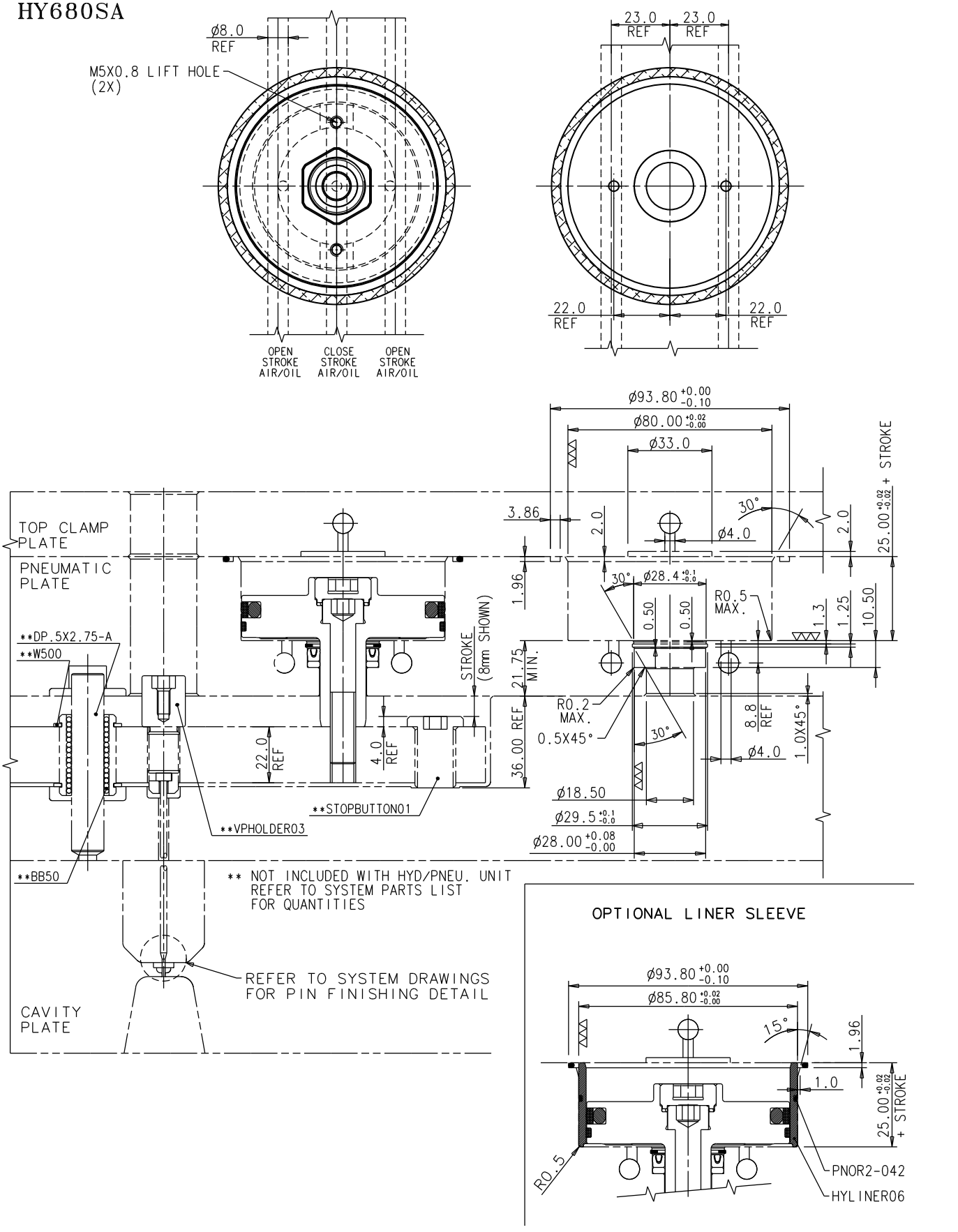
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ACTUATOR UNIT	SEAL KIT
HYDRAULIC ACTUATORS	
HY5500x	OR550P1
HY550Xx	OR550P2
HY550XxL	OR550P3
HY6500x	OR650P2
HY6500xAR	OR650P2
HY650Xx	OR650P3
HY650XxL	OR650P4
HY650XxAR	OR650P3
HY650XxLAR	OR650P4
HY6600x	OR650P2
HY6600xAR	OR650P2
HY6700x	OR650P2
HY6700xAR	OR650P2
HY680SA	OR680P1
HY680SAL	OR680P2
HY681SA	OR680P1
HY681SAL	OR680P2
HY7100x	OR650P2
HY7100xAR	OR650P2
HY710Xx	OR650P3
HY710XxAR	OR650P3
HY710XxL	OR650P4
HY710XxLAR	OR650P4
HY7900x	OR700P2
HY7900xAR	OR700P2
HY8400x	OR840P1
HY8500x	OR840P1
HY8600xAR	OR840P1
HY8700x	OR650P2
HY8800x	OR840P1
PNEUMATIC ACTUATORS	
PN2300x	OR230P1
PN2300xL	OR230P2
PN2300xAR	OR230P1
PN2300xLAR	OR230P2
PN6300x	OR630P1
PN6300xAR	OR630P1
PN6400x	OR640P1
PN6400xAR	OR640P1
SINGLE NOZZLE ACTUATORS	
IA01	ORIA01KIT
IA02	ORIA02KIT
IA05	ORIA05KIT

SOME ACTUATORS LISTED ABOVE
MAY NOT APPEAR IN THIS RESOURCE GUIDE

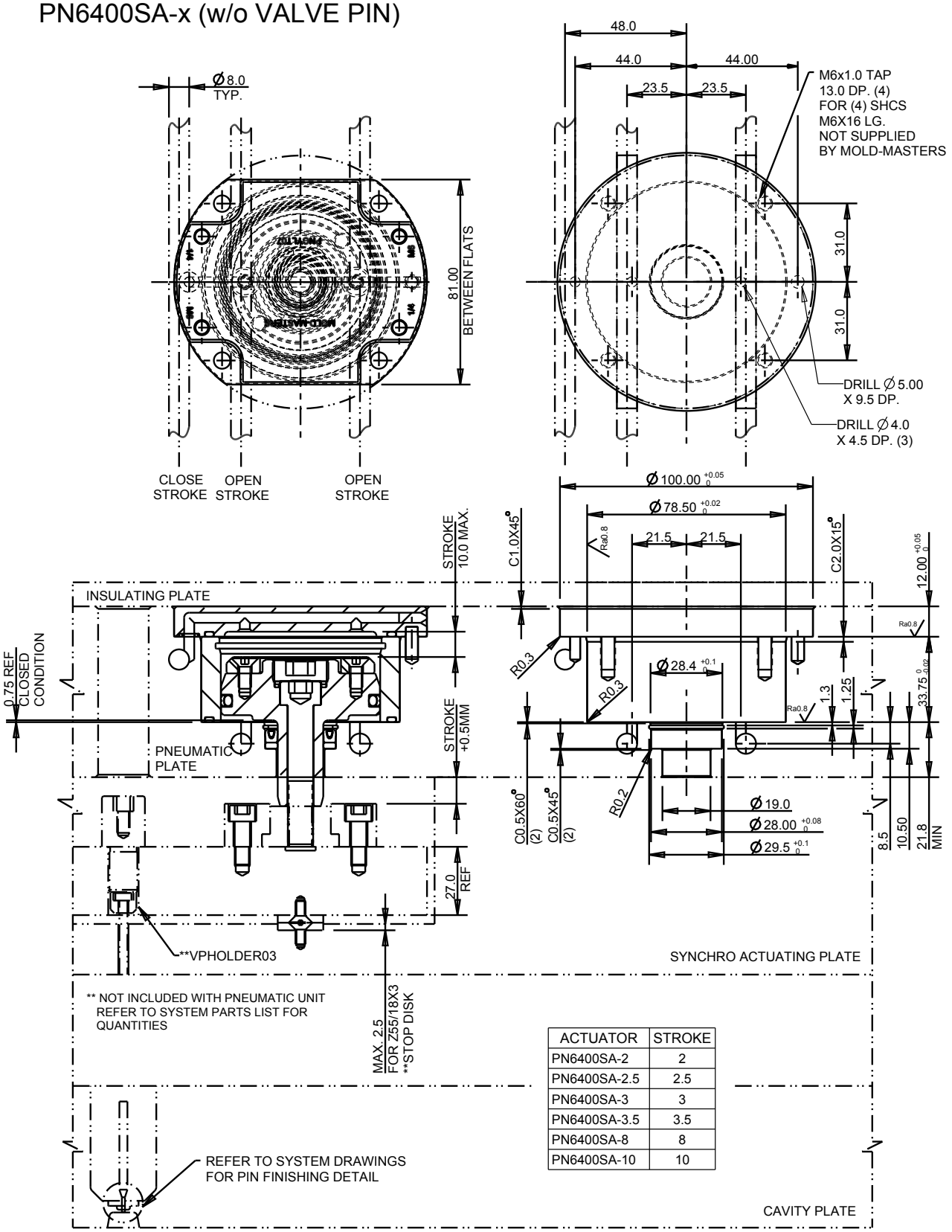
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HY680SA



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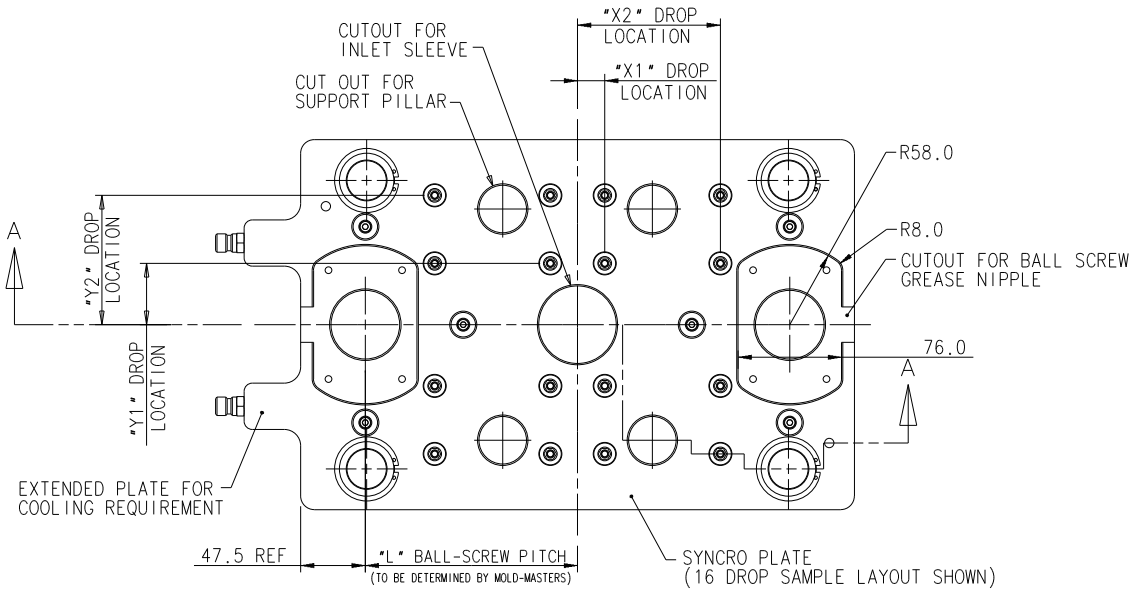
PN6400SA-x (w/o VALVE PIN)



ACTUATOR	STROKE
PN6400SA-2	2
PN6400SA-2.5	2.5
PN6400SA-3	3
PN6400SA-3.5	3.5
PN6400SA-8	8
PN6400SA-10	10

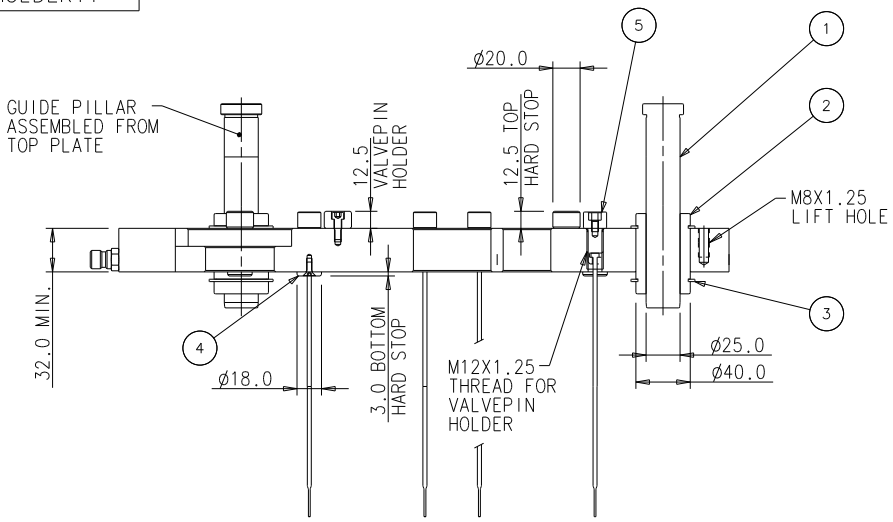
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SYNCHRO-PLATE
(WITH BASIC VALVEPIN HOLDER)



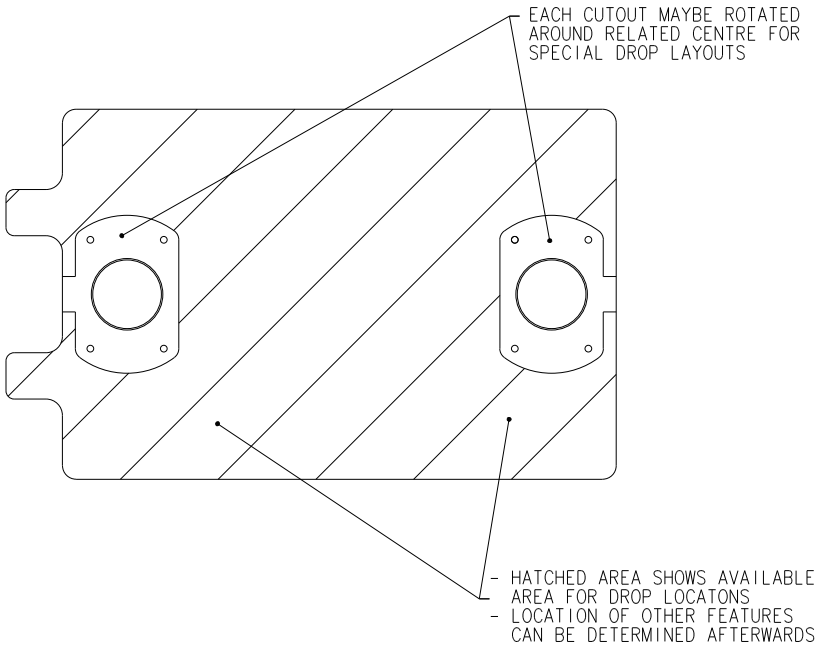
BILL OF MATERIAL FOR STD PARTS
(SHOWN FOR ABOVE EXAMPLE):

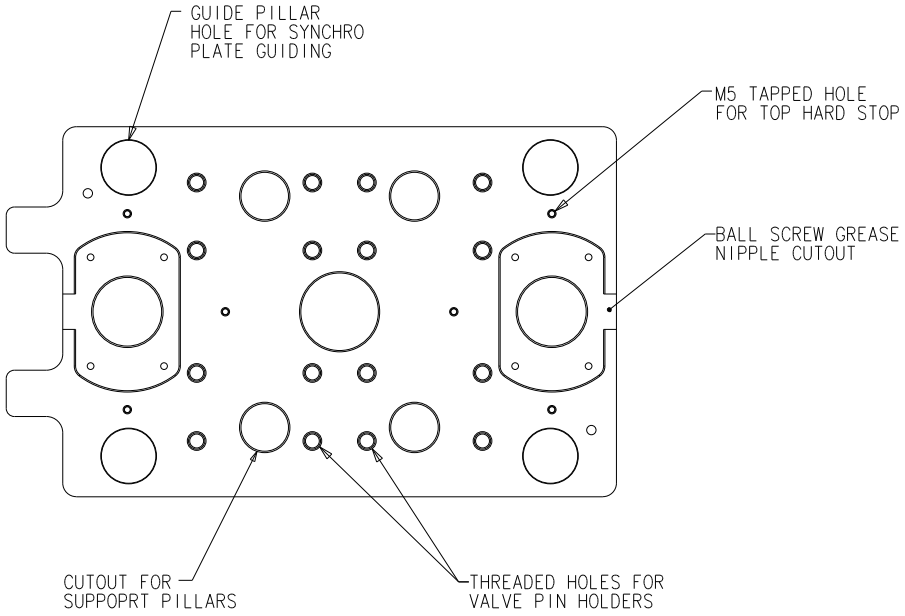
ITEM	QTY	PART NO.
1	4	LP0017
2	4	LPB015
3	4	COTS0020
4	6	Z55/18X3
5	16	VPHOLDER11



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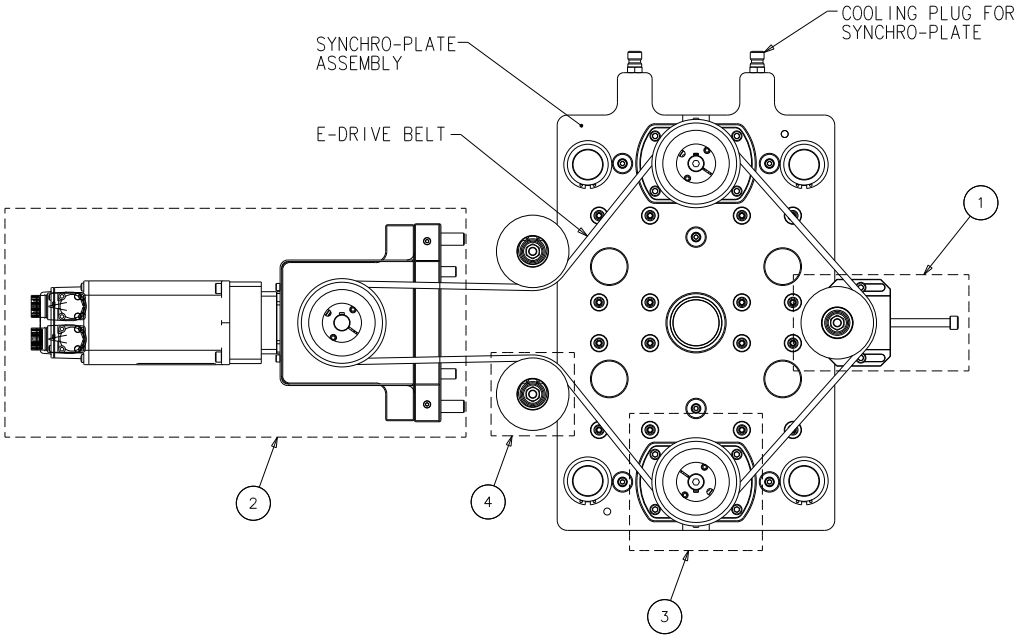
E-DRIVE SYNCHRO-PLATE





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MAIN SUB-ASSEMBLIES

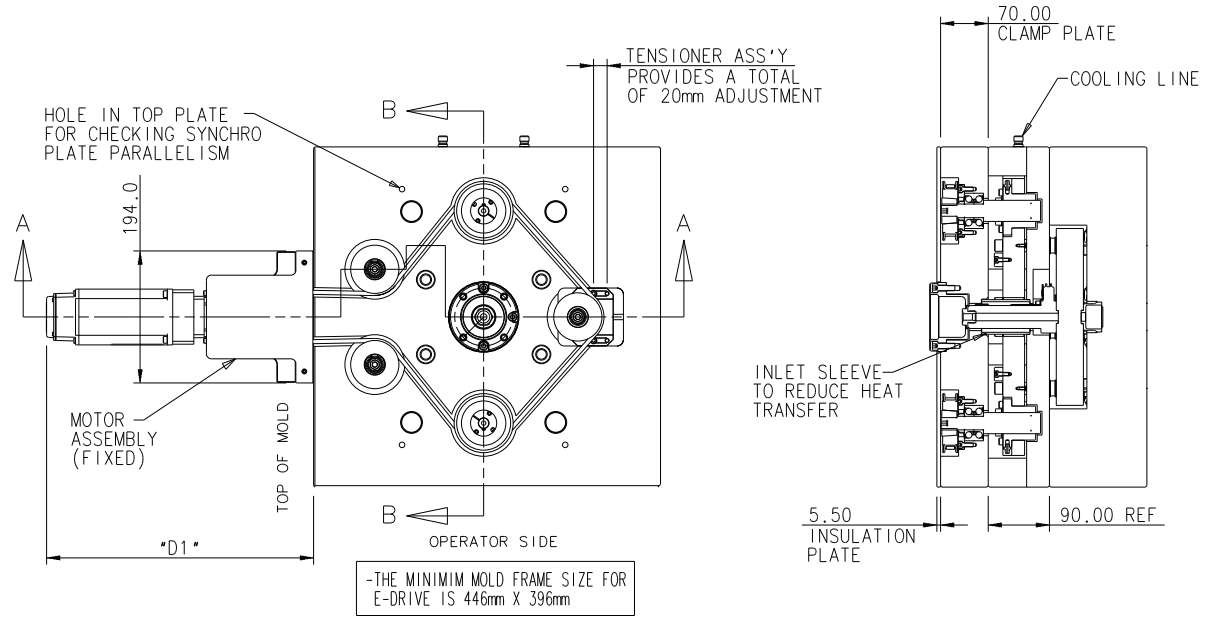


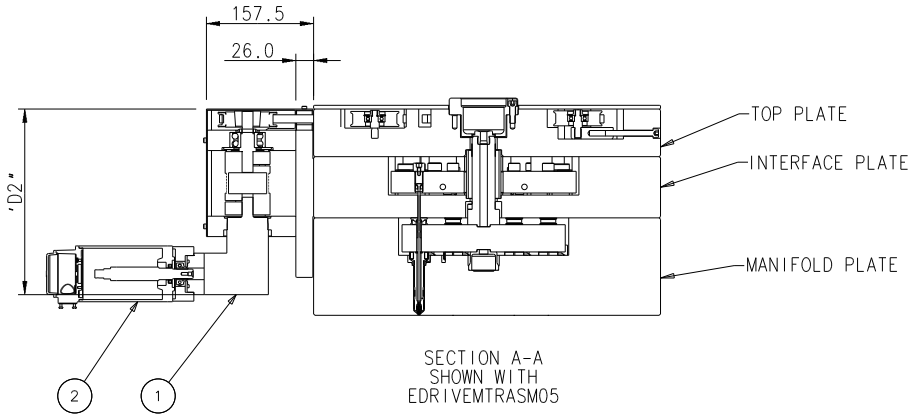
BILL OF MATERIAL (STD POWER RATE):			
NO	ASSEMBLY NAME	ASSEMBLY DESCRIPTION	QTY
1	EDRIVEIDLERASM02A	E-DRIVE MOTOR TENSIONING ASSEMBLY	1
2	EDRIVEMTRASM05	E-DRIVE MOTOR MOUNT ASS'Y w/MSK040C	1
3	EDRIVEBSASM03A	E-DRIVE BALL SCREW ASS'Y	2
4	EDRIVEIDLERASM02	E-DRIVE IDLER ASS'Y	2

BILL OF MATERIAL (HIGH POWER RATE):			
NO	ASSEMBLY NAME	ASSEMBLY DESCRIPTION	QTY
1	EDRIVEIDLERASM02A	E-DRIVE MOTOR TENSIONING ASSEMBLY	1
2	EDRIVEMTRASM06	E-DRIVE MOTOR MOUNT ASS'Y w/MSK061C	1
3	EDRIVEBSASM03A	E-DRIVE BALL SCREW ASS'Y	2
4	EDRIVEIDLERASM02	E-DRIVE IDLER ASS'Y	2

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OVERALL DIMENSIONS





HIGH POWER RATE (EDRIVEMTRASM06)				
NO	NAME	DESCRIPTION	D1	D2
1	GRHD0002	GEAR HEAD FOR MSK061C	400	275
2	MSK061C	SERVOMTR-MSK061C		

STANDARD POWER RATE (EDRIVEMTRASM05)				
NO	NAME	DESCRIPTION	D1	D2
1	GRHD0001	GEAR HEAD FOR MSK040C	560	275
2	MSK040C	SERVOMTR-MSK040C		

-LIFE OF CRITICAL E-DRIVE COMPONENTS MAY DRASTICALLY REDUCE AT ELEVATED TEMPERATURES.
-TO AVOID DIFFERENT THERMAL EXPANSION BETWEEN MOLD PLATE AND SYNCHRO PLATE, COOLING MUST BE PROVIDED TO THE SYNCHRO PLATE.
-IF THERE IS ANY IMBALANCE IN THERMAL EXPANSION BETWEEN BOTH PLATES, THIS WILL CREATE A SIDE LOAD ON BALL SCREWS AND DAMAGE THE SPINDLE.
-CLAMP PLATE AND SYNCHRO PLATE CAN BE IN ONE COOLING CIRCLE OR BOTH THEM SEPRATLY BUT MAXIMUM 40°C.
-THE MAXIMUM MOLD TEMPERATURE FOR E-DRIVE APPLICATION IS 90°C OR 194°F

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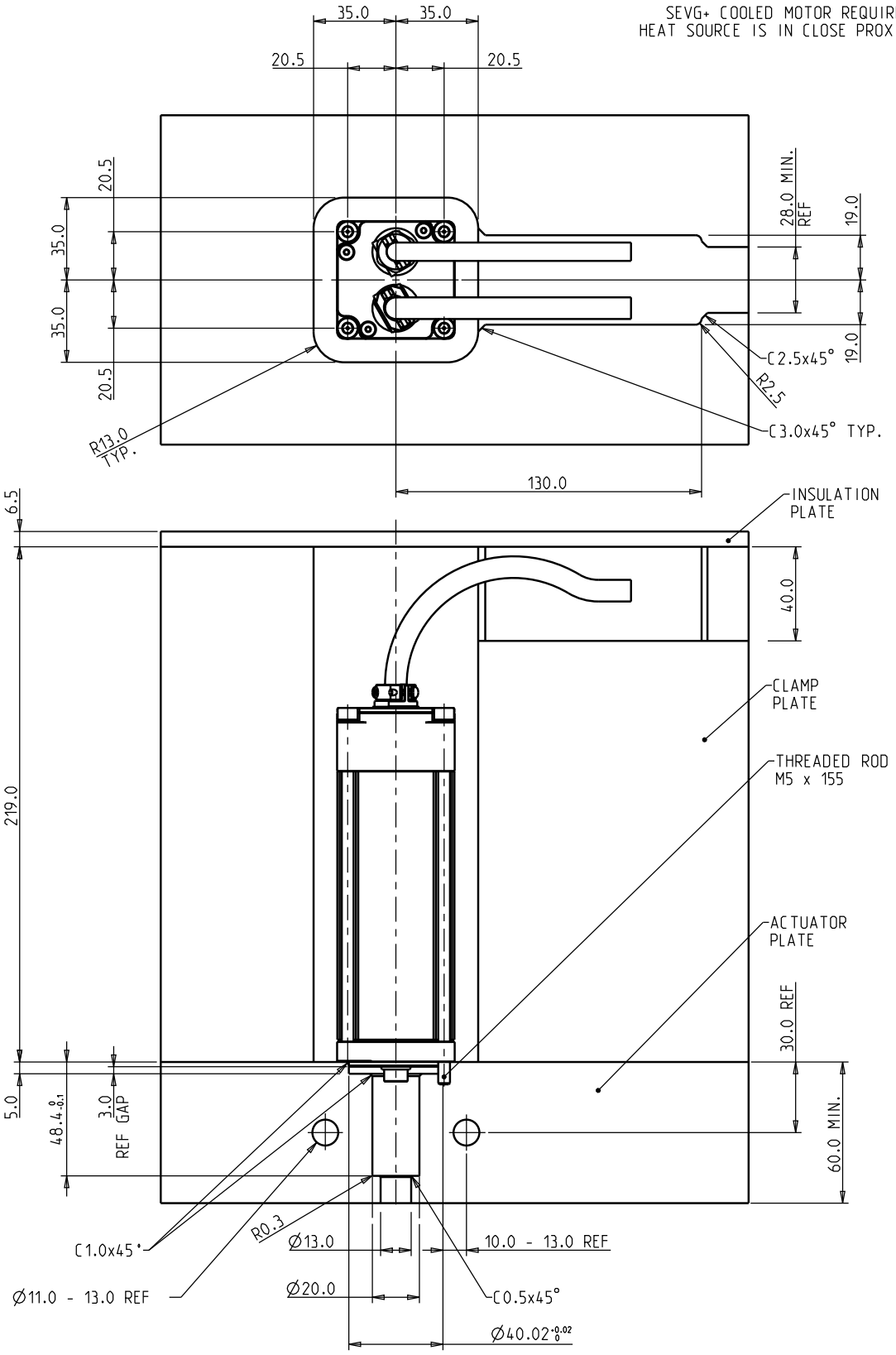
Servo Electric Valve Gate Actuator
SE20-15
11.02.060

TAPERED VALVE PIN Ø OPTIONS- Ø2.5 TO Ø3.2
CYLINDRICAL VALVE PIN Ø OPTIONS - Ø2.5 TO Ø5.0

MAX VALVE PIN STROKE - 15MM

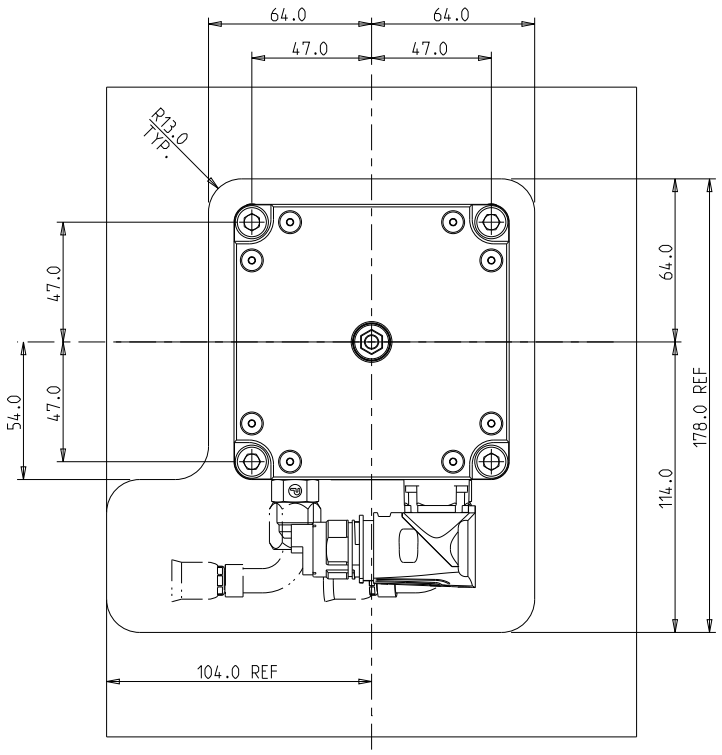
MOLD TEMPERATURE UP TO 80°C

SEVG+ COOLED MOTOR REQUIRED IF HEAT SOURCE IS IN CLOSE PROXIMITY



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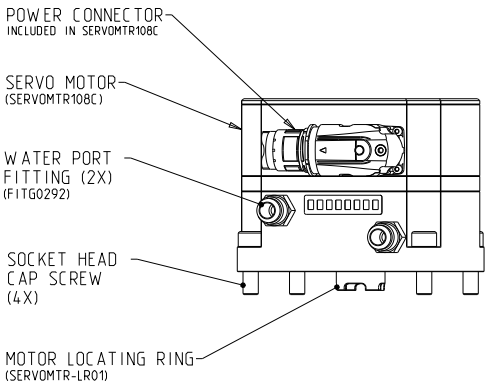
Servo Electric Valve Gate Actuator
SE108C – Plate Mounted
11.02.070

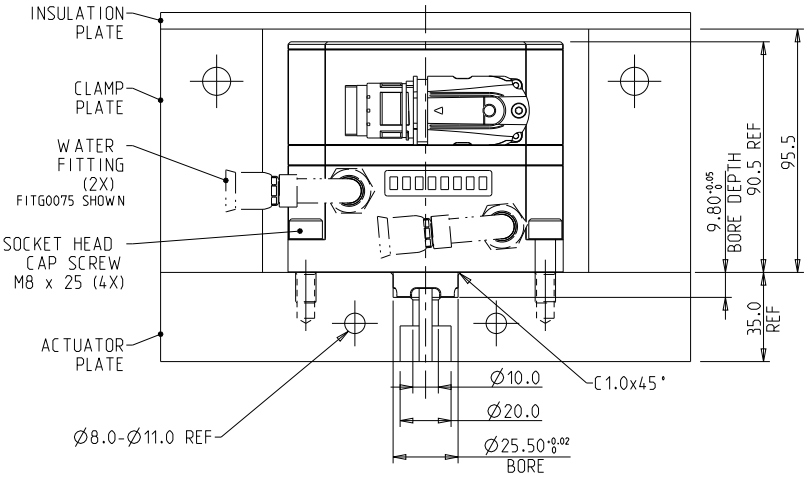


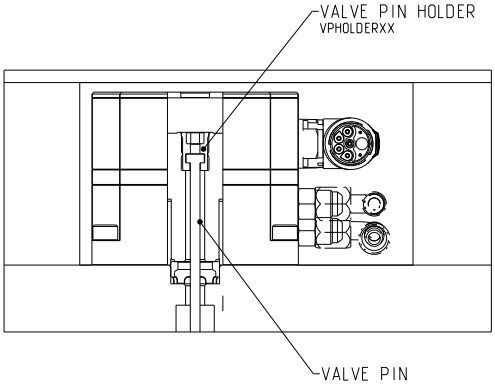
APPLICATIONS:

*. VALVE PIN Ø OPTIONS - Ø2.5 TO Ø9.5
*. MAXIMUM VALVE PIN STROKE - 18mm
*. MAXIMUM MOLD TEMPERATURE: 130°C
*. CONNECTOR ON MOTOR IS 180° ROTATABLE, MORE FLEXIBLE FOR WIRE CHANNEL DESIGN
*. MOTOR POWER CABLE WITH SINGLE CONNECTOR, CONNECT TO MOLD E-BOX OR INTERFACE PLATE.
*. MOTOR CABLE AVAILABLE IN MULTIPLE LENGTHS:
    -. SERVOCABLE03, 50mm LONG
    -. SERVOCABLE04, 1000mm LONG
    -. SERVOCABLE05, 1500mm LONG
*. ONE EXTERNAL CABLE TO CONTROLLER IS REQUIRED PER MOTOR:
    -. SERVOCABLE06, 5 METERS LONG
    -. SERVOCABLE07, 10 METERS LONG
*. TORQUE SETTING:
    -. WATER FITTING: 35 N.m MAX.
    -. PIN HOLDER: 8.0 N.m, MAX.
    -. M8 MOUNTING BOLTS: 24 N.m MAX.
*. COOLING WATER TEMPERATURE NOT TO EXCEED 50°C, FLOW RATE 3L/Min MIN
*. INDIVIDUAL COOLING CIRCUIT FOR EACH MOTOR IS HIGHLY RECOMMENDED, MAX. 2 MOTORS IN A LOOP.

MAIN COMPONENTS FOR PLATE MOUNTED





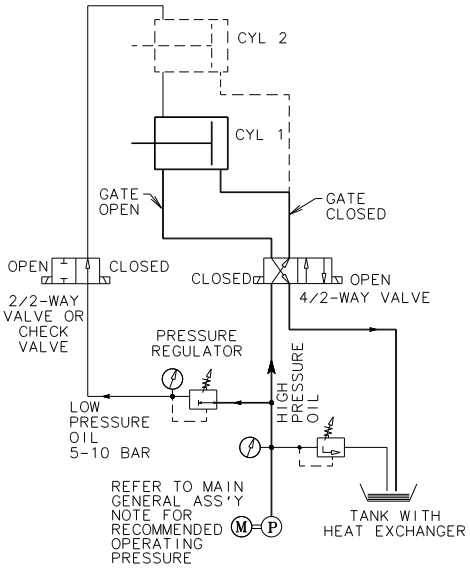


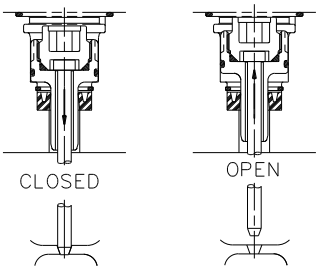
VALVE PIN Ø	PIN HOLDER
2.5	VPHOLDER52
3.0	VPHOLDER53
4.0	VPHOLDER54
5.0	VPHOLDER55
6.3	VPHOLDER56
8.0&9.5	VPHOLDER57

NOTE: FOR APPLICATIONS WITH Ø9.5 VALVE PIN, MODIFICATION ON VALVE PIN HEAD IS REQUIRED, USE Ø8.0 PIN AS REFERENCE.

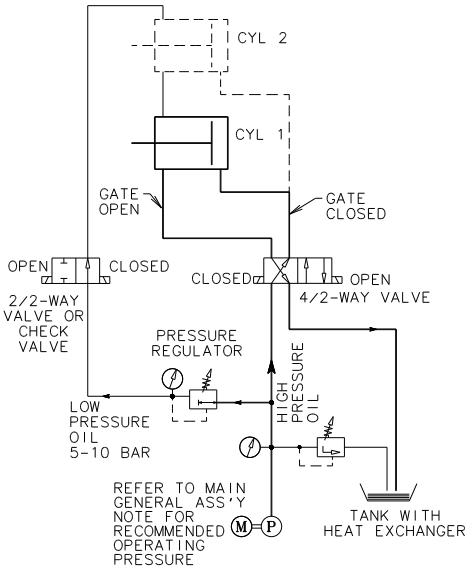
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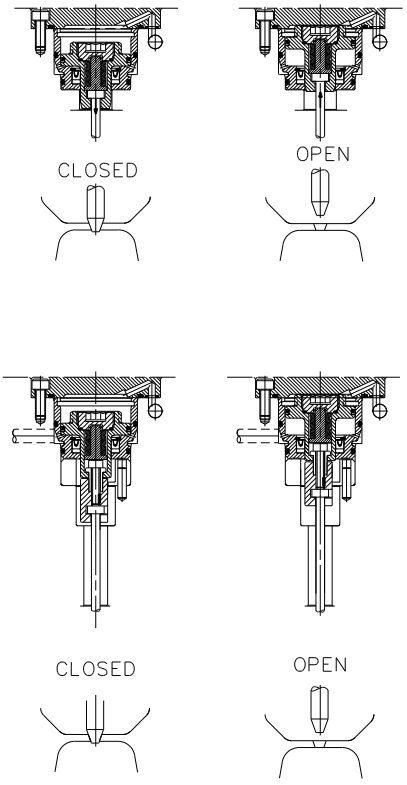
HYDRAULIC CIRCUIT SCHEMATIC FOR:
HY550X*, HY5500*





HYDRAULIC CIRCUIT SCHEMATIC FOR:
HY6500*, HY6500*AR
HY6600*, HY6600*AR
HY6700*, HY6700*AR
HY7100*, HY7100*AR
HY8400*, HY8500*
HY8600*AR
HY8700*, HY8800*
HY650X*, HY680SA
HY710X*, HY710XDAR





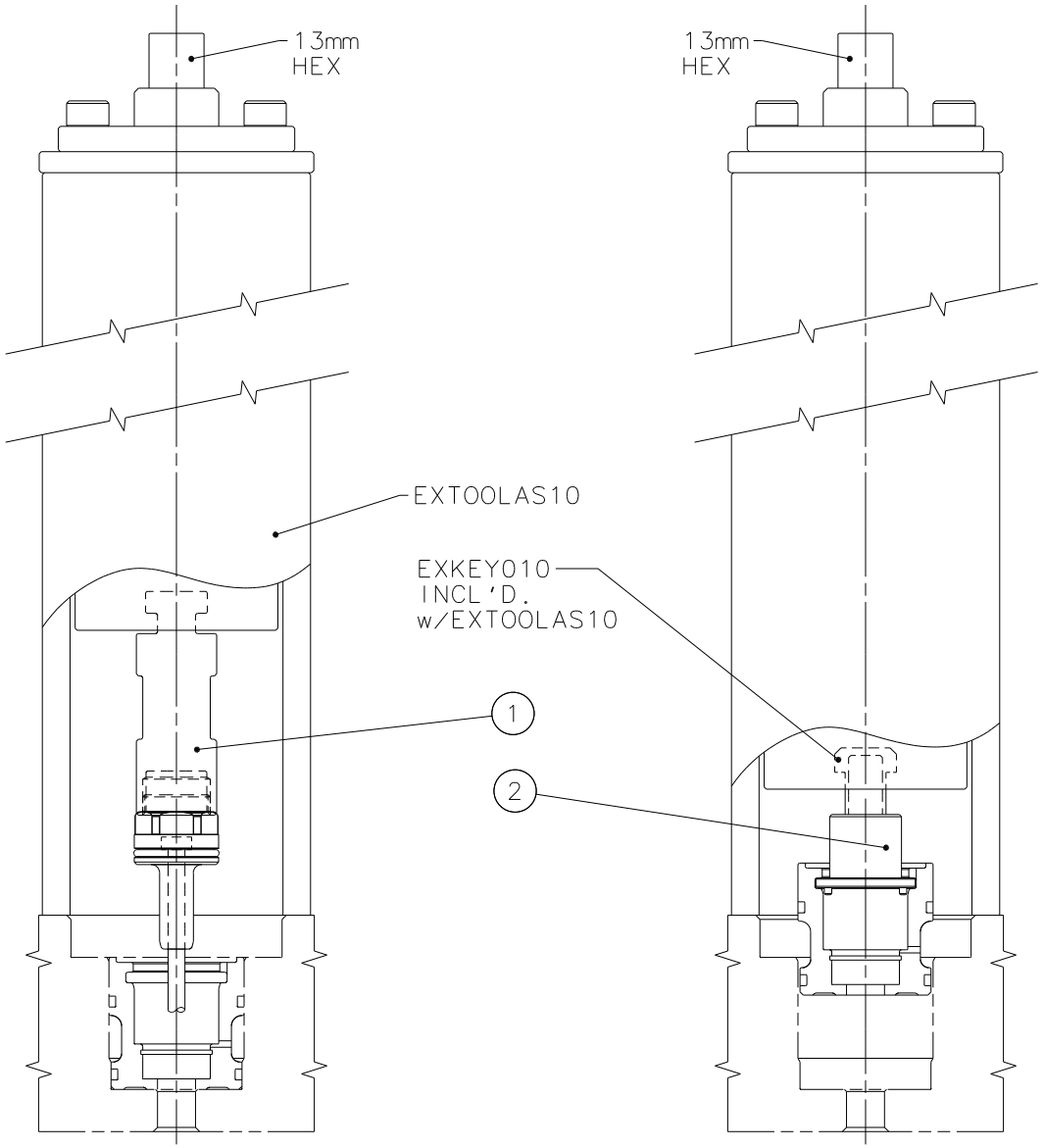
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EXTRACTION & INSTALLATION TOOL OVERVIEW (ACTUATORS)			
ACTUATOR SERIES	EXTRACTION TOOL MAIN ASSEMBLY	PISTON / CYL. BODY / LINER EXTRACTION TOOL PACKAGES (PAGE #)	PISTON / PISTON SEAL INSTALLATION PACKAGES (PAGE #)
PN2300x/PN2300xL	EXTOOLAS10	EXTOOL2300P1 (MS11.04.020)	PS0001TOOL01 (MS11.04.050)
PN2300xAR/PN2300xLAR			
HY5500x	EXTOOLAS10	EXTOOL5500P1 (MS11.04.010)	N/A
HY550Xx/HY550XxL			
HY6500x/HY6500xAR	EXTOOLAS10	EXTOOL6500P1 (MS11.01.015)	PS0003TOOLP (MS11.04.050)
HY650Xx/HY650XxAR			
HY650XxL/HY650XxLAR			
HY6600x/HY6600xAR			
HY6700x/HY6700xAR			
HY7100x/HY7100xAR			
HY710Xx/HY710XxAR			
HY710XxL/HY710XxLAR			
HY8700x			
VPAC0008/VPAC0009			
VPAC0010/VPAC0011			
HY680SA/HY680SAL	EXTOOLAS10	EXTOOL680SAP/EXTOOL681SAP (MS11.04.035)	PS0004TOOLP (MS11.04.050)
HY681SA/HY681SAL			
HY8400x	EXTOOLAS10	EXTOOL8400P1 (MS11.04.030)	PS0011TOOLP (MS11.04.050)
HY8500x			
HY8600xAR			
HY8800x			
PN6400x/PN6400xAR	EXTOOLAS10	EXTOOL6400P (MS11.04.025)	N/A
PN6410x/PN6410xAR			
PN6400SA	EXTOOLAS10	EXTOOL6400SAP (MS11.04.040)	N/A

EXTRACTION TOOL OVERVIEW (VALVE DISKS)			
EXTRACTION TOOL ASS'Y / PKG.	EXTRACTION TOOL MAIN ASSEMBLY	WHERE USED	PAGE #
EXTOOL17P	EXTOOLAS10	VALVE DISKS (2 PIECE INVERTED STYLE) REFER TO CATALOGUE PAGE FOR CORRECT EXTRACTION TOOL PACKAGE / VDSTEM	MS11.04.045
EXTOOL18P			
EXTOOL22P			
EXTOOL26P			
EXTOOL27P			
EXTOOL28	EXTOOLAS10	ø35 VALVE DISKS (BOLT DOWN STYLE)	MS11.04.045
EXTOOL29		ø39 VALVE DISKS (BOLT DOWN STYLE)	
EXTOOL30		ø42 VALVE DISKS (BOLT DOWN STYLE)	
EXTOOL31		ø49 VALVE DISKS (BOLT DOWN STYLE)	

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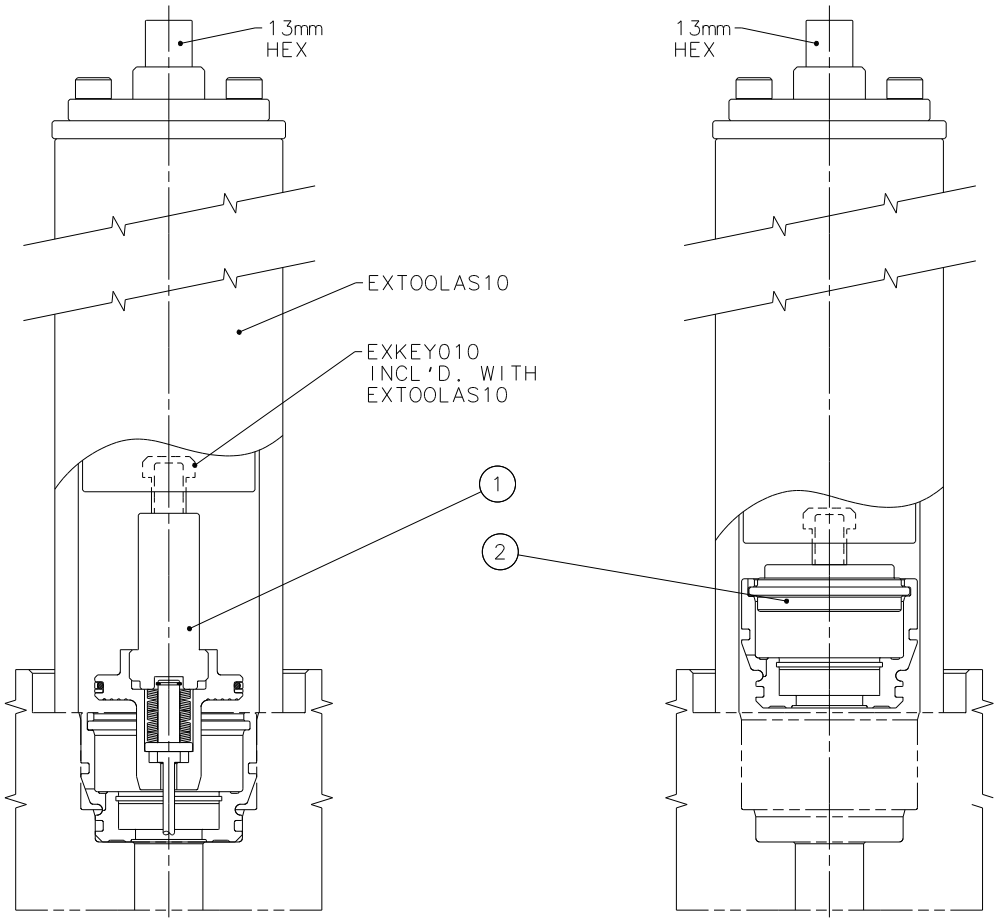
PISTON AND CYLINDER BODY EXTRACTION TOOLS
SEE PAGE MS11.04.001 FOR APPLICABLE UNITS



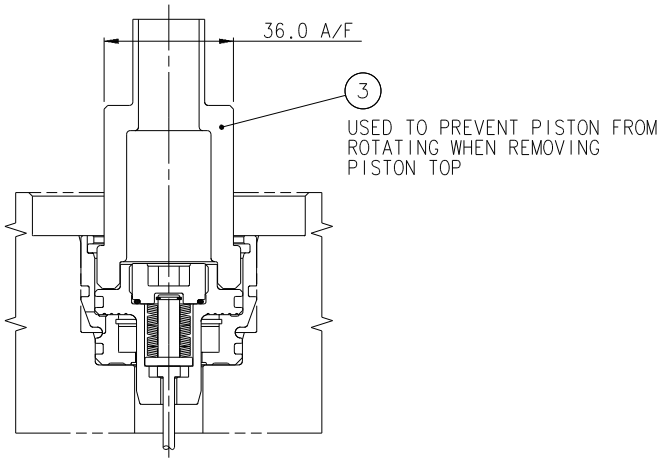
EXTRACTION TOOL P/N: EXTOOL5500P1		
ITEM	PART NO.	DESCRIPTION
1	EXTOOL06	PISTON REMOVAL TOOL HY550*
2	EXTOOL39A	HY5500 CYLINDER EXTRACTOR TOOL

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PISTON AND CYLINDER BODY EXTRACTION TOOLS
SEE PAGE MS11.04.001 FOR APPLICABLE UNITS

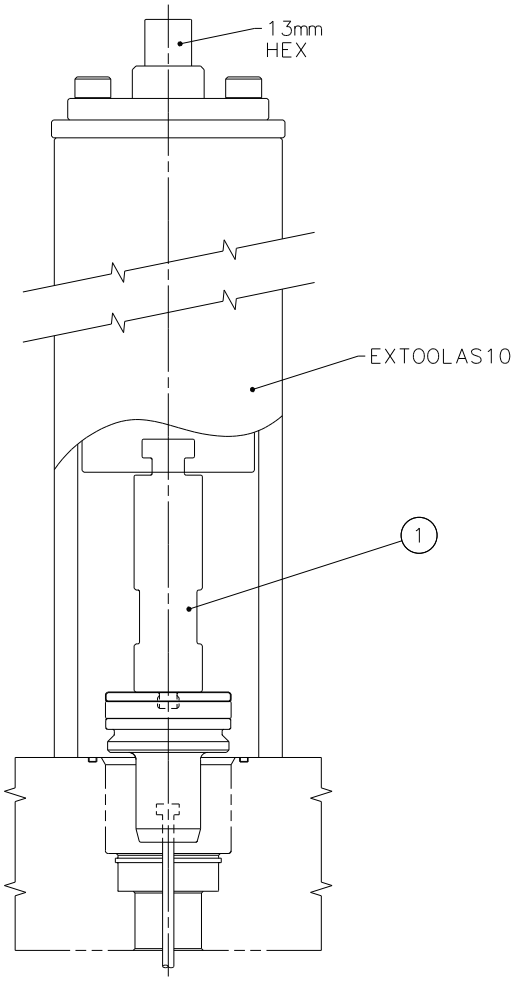


EXTRACTION TOOL P/N: EXTOOL6500P1		
ITEM	PART NO.	DESCRIPTION
1	EXTOOL32A	PISTON EXTRACTOR TOOL
2	EXTOOL38A	HY6500 CYLINDER EXTRACTOR TOOL
3	EXTOOL01	PISTON TOP REMOVAL TOOL (27mm HEX.)

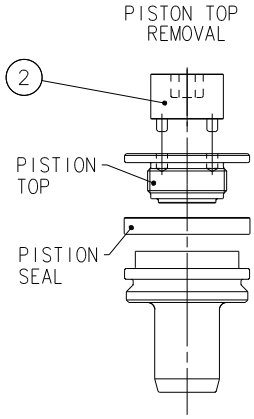


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PISTON EXTRACTION TOOLS
SEE PAGE MS11.04.001 FOR APPLICAPLE UNITS



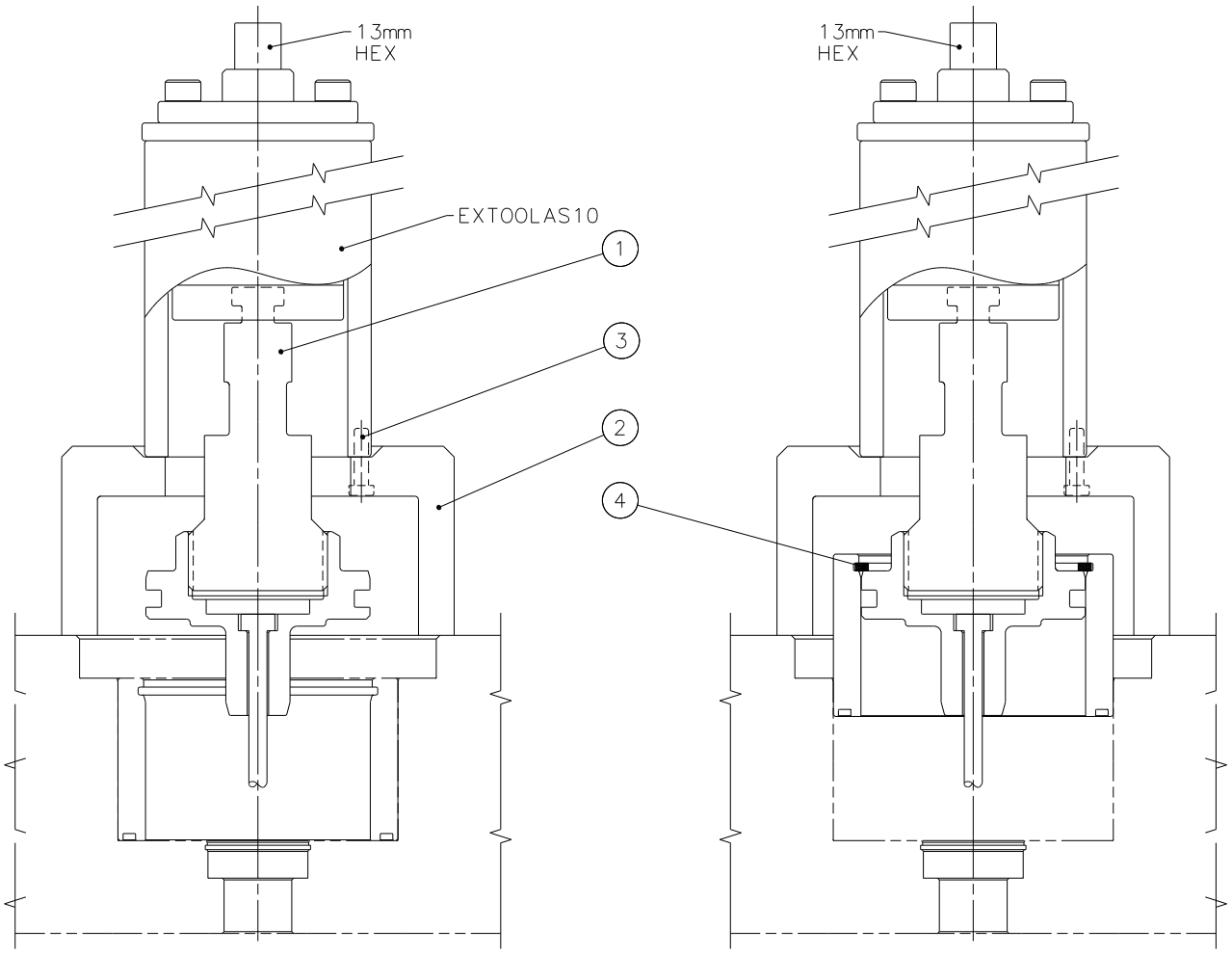
PISTON EXTRACTION



EXTRACTION TOOL P/N: EXTOOL2300P1		
ITEM	PART NO.	DESCRIPTION
1	EXTSTUDM6	PISTON EXTRACTOR TOOL
2	EXTOOL04	PISTON TOP REMOVAL TOOL

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PISTON AND CYLINDER LINER EXTRACTION TOOLS
SEE PAGE MS11.04.001 FOR APPLICABLE UNITS

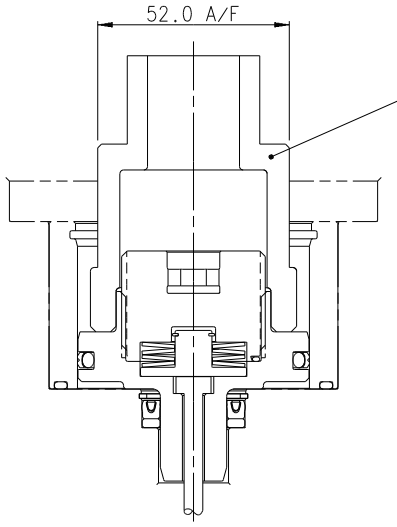


PISTON EXTRACTION TOOL

CYLINDER BORE LINER EXTRACTION

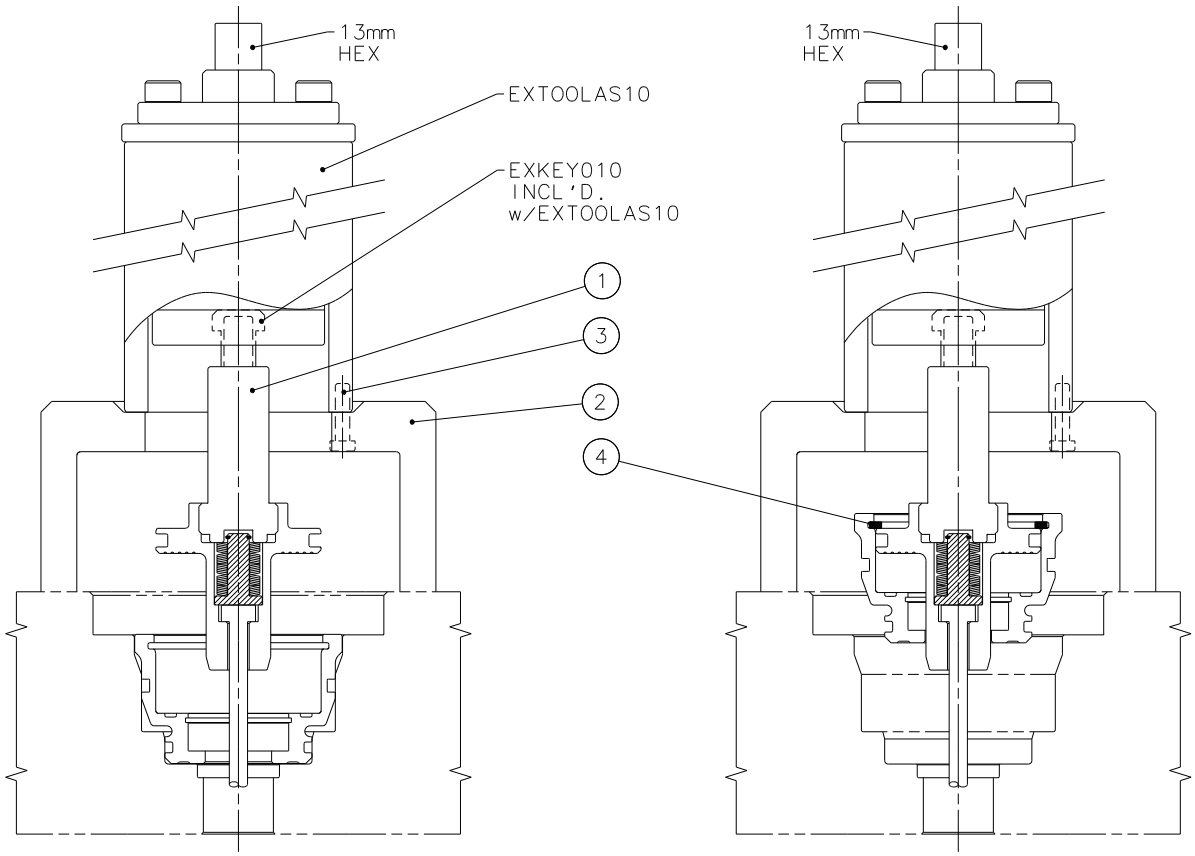
INSTALL RGNR3000-X250
& REMOVE PNLINER05
USING PISTON

EXTRACTION TOOL P/N: EXTOOL6400P		
ITEM	PART NO.	DESCRIPTION
1	EXTOOL25	PISTON EXTRACTION TOOL
2	SPACER88	EXTRACTION TOOL SPACER
3	LHCSM4X16 (2x)	LOW HEAD CAP SCREW M4X16 LG.
4	RGNR3000-X250	RETAINING RING FOR LINER EXTRACTION
5	EXTOOL24	PISTON TOP REMOVAL TOOL (42mm HEX.)



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PISTON AND CYLINDER BODY EXTRACTION TOOLS
SEE PAGE MS11.04.001 FOR APPLICABLE UNITS

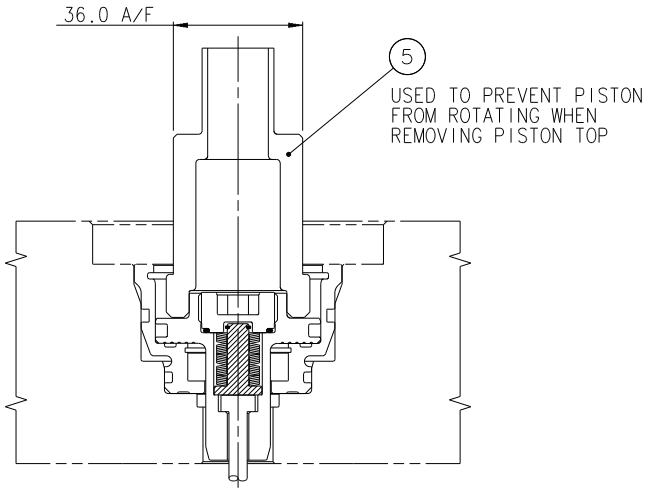


PISTON EXTRACTION

CYLINDER BODY EXTRACTION

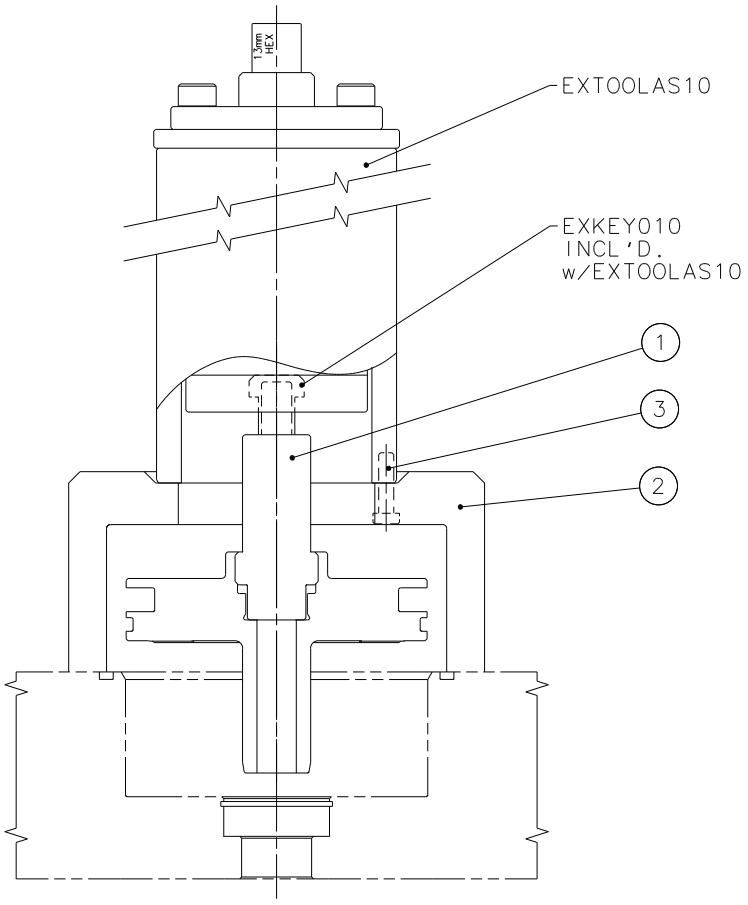
INSTALL RGNR3000-X187
& REMOVE CYL. BODY
USING PISTON

EXTRACTION TOOL P/N: EXTOOL8400P1		
ITEM	PART NO.	DESCRIPTION
1	EXTOOL32A	PISTON EXTRACTION TOOL
2	SPACER88	EXTRACTION TOOL SPACER
3	LHCSM4X16 (2x)	LOW HEAD CAP SCREW M4X16 LG.
4	RGNR3000-X187	RETAINING RING
5	EXTOOL01	PISTON TOP REMOVAL TOOL (27mm HEX.)



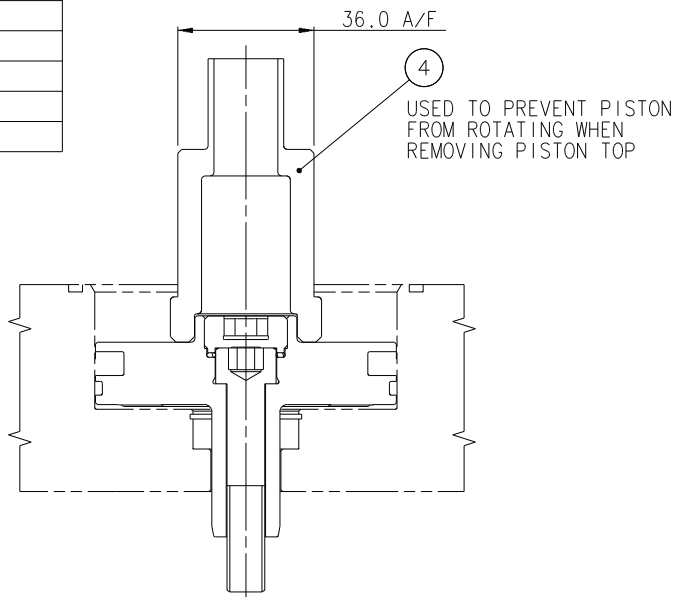
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PISTON EXTRACTION TOOLS
HY680xSA / HY681xSA UNITS



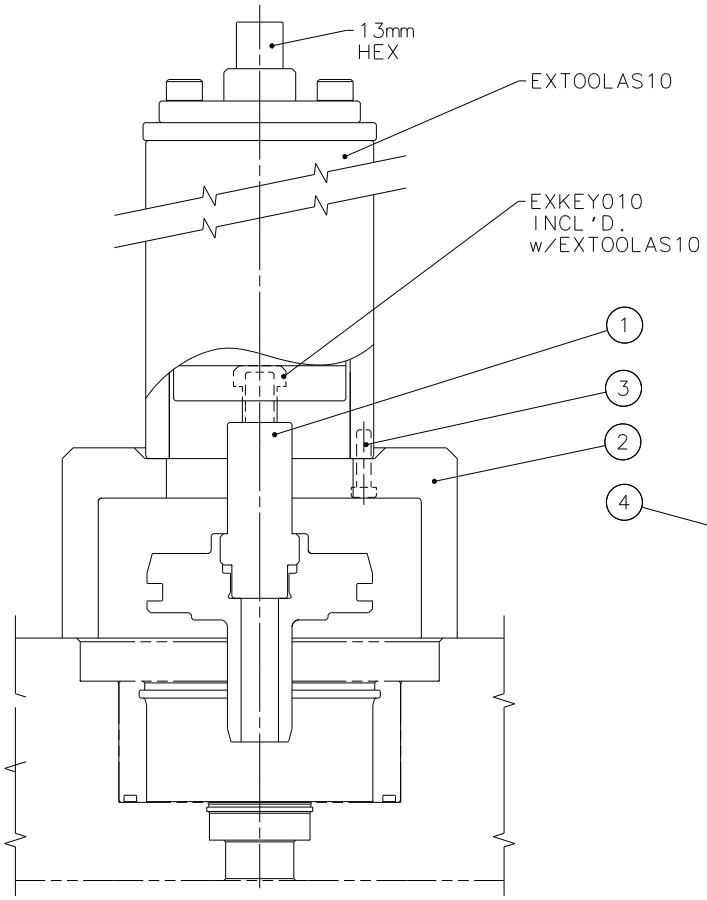
PISTON EXTRACTION TOOL

EXTRACTION TOOL P/N: EXTOOL680SAP & EXTOOL681SAP		
ITEM	PART NUMBER	
	EXTOOL680SAP	EXTOOL681SAP
1	EXTOOL33A	EXTOOL46A
2	SPACER88	SPACER88
3	LHCSM4X16 (2x)	LHCSM4X16 (2x)
4	EXTOOL01 (HEX 27 MM)	EXTOOL47 (HEX 29 MM)

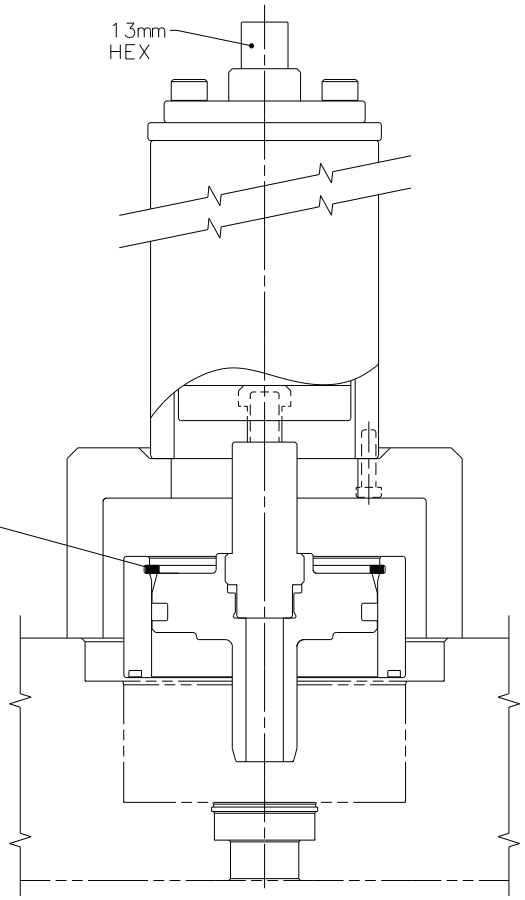


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PISTON AND CYLINDER LINER EXTRACTION TOOLS
SEE PAGE MS11.04.001 FOR APPLICABLE UNITS



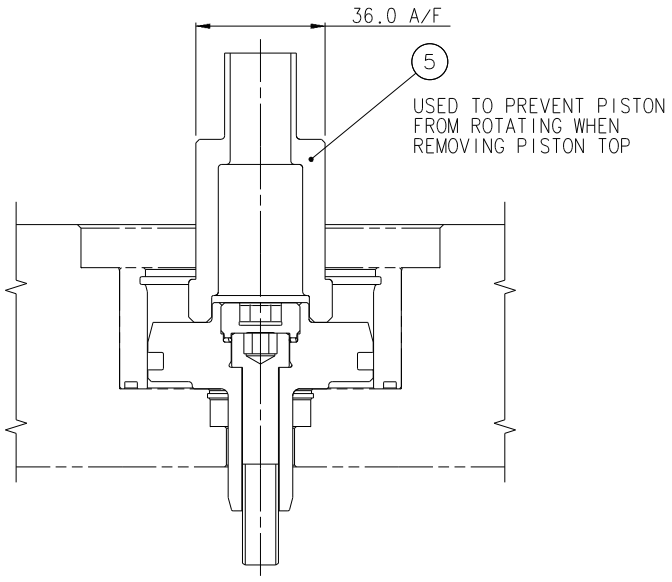
PISTON EXTRACTION TOOL



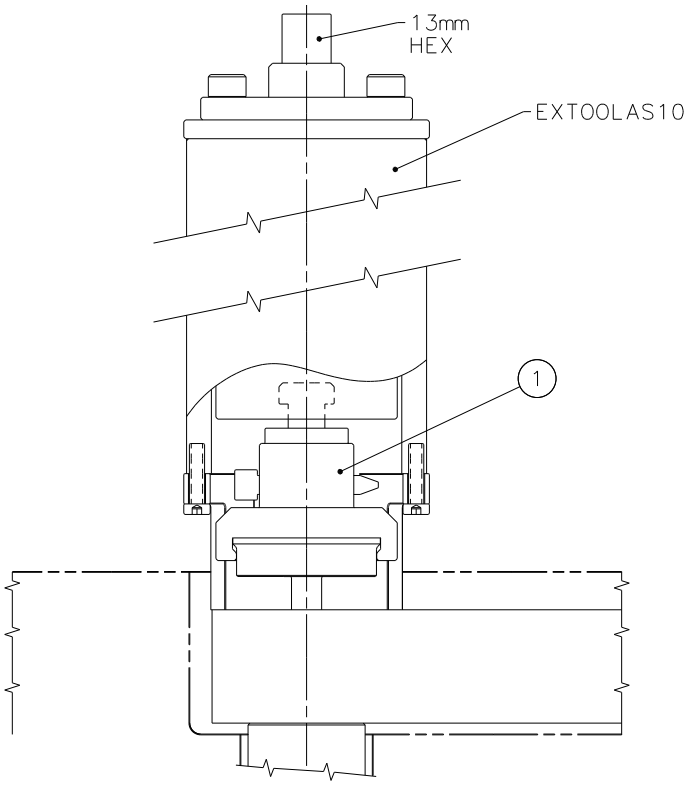
CYLINDER BORE LINER EXTRACTION

INSTALL RGNR3000-X250
& REMOVE PNLINER06
USING PISTON

EXTRACTION TOOL P/N: EXTOOL6400SAP		
ITEM	PART NO.	DESCRIPTION
1	EXTOOL33A	PISTON EXTRACTION TOOL
2	SPACER88	EXTRACTION TOOL SPACER
3	LHCSM4X16 (2x)	LOW HEAD CAP SCREW M4X16 LG.
4	RGNR3000-X250	RETAINING RING FOR LINER EXTRACTION
5	EXTOOL01	PISTON TOP REMOVAL TOOL (27mm HEX.)



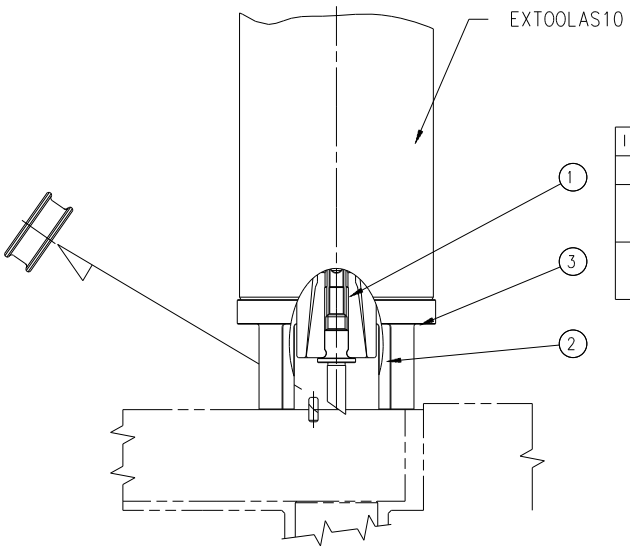
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VALVE DISK EXTRACTION
TOOLS FOR USE ON
BOLT DOWN STYLE
(see pg. ms11.01.020)

EXTRACTION TOOL P/N: EXTOOL**			
ITEM	PART NO.	DESCRIPTION	
1	EXTOOL**	VALVE DISK EXTG.TOOL (SEE BELOW)	
		EXTOOL**	COMPATIBILITY
		EXTOOL28	VALVE DISK WITH OD 35.00mm
		EXTOOL29	VALVE DISK WITH OD 39.00mm
		EXTOOL30	VALVE DISK WITH OD 42.00mm
		EXTOOL31	VALVE DISK WITH OD 49.00mm

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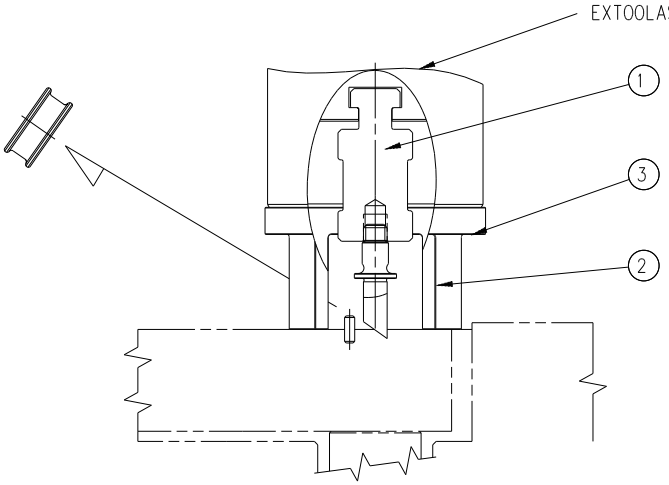
VALVE DISK EXTRACTION
TOOLS FOR USE ON
2 PIECE INVERTED STYLE USING GROOVE
(see pg. ms11.01.021)

ITEM	PART NO.	DESCRIPTION
1	EXTOOL**	VALVE DISK EXTRACTION TOOL (SEE BELOW)
2	SPACER86	SPACER FOR EXTOOL28/29/30 OD=65 L=36 (OPTIONAL TO USE DURING CLOSE PITCH CONDITION)
3	LHCSM4X16 (2X)	LOW HEAD CAP SCREW M4X16 LG. (OPTIONAL TO MOUNT SPACER86 TO EXTOOLAS10)

EXTOOL**P	COMPATIBILITY
EXTOOL35P	VDSTEM048* (FEMTO) VDSTEM052* (FEMTO) VDSTEM060*/65* (FEMTO) VDSTEM049* (PICO) VDSTEM053* (PICO) VDSTEM050* (CENTI) VDSTEM054* (CENTI)
EXTOOL36P	VDSTEM051* (DECI) VDSTEM055* (DECI)
EXTOOL37P	VDSTEM056*-59* (HECTO) VDSTEM061*-64* (HECTO)

VALVE DISK EXTRACTION TOOLS
FOR USE ON 2 PIECE INVERTED STYLE
USING THREAD

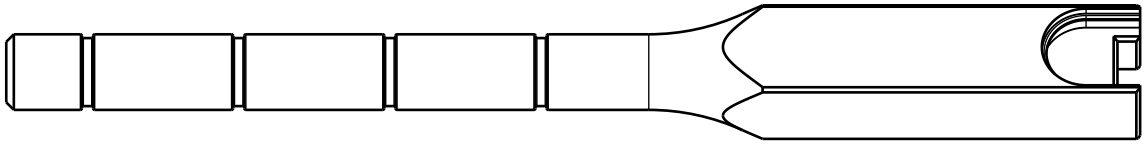
ITEM	PART NO.	DESCRIPTION
1	EXTOOL**	VALVE DISK EXTRACTION TOOL (SEE BELOW)
2	SPACER86	SPACER FOR EXTOOL28/29/30 OD=65 L=36 (OPTIONAL TO USE DURING CLOSE PITCH CONDITION)
3	LHCSM4X16 (2X)	LOW HEAD CAP SCREW M4X16 LG. (OPTIONAL TO MOUNT SPACER86 TO EXTOOLAS10)



EXTOOL**	COMPATIBILITY
EXTOOL41	VDSTEM048* (FEMTO) VDSTEM052* (FEMTO) VDSTEM060*/65* (FEMTO) VDSTEM049* (PICO) VDSTEM053* (PICO) VDSTEM050* (CENTI) VDSTEM054* (CENTI)
EXTOOL42	VDSTEM051* (DECI) VDSTEM055* (DECI)
EXTOOL43	VDSTEM056*-59* (HECTO) VDSTEM061*-64* (HECTO)

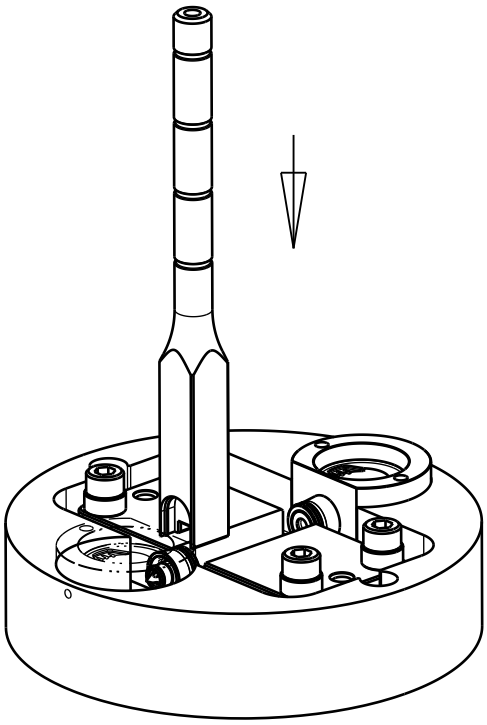
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MELT-CUBE GATE SEAL EXTRACTION TOOL



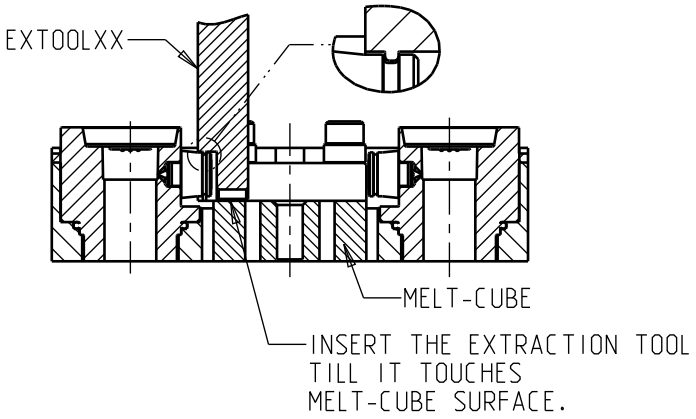
ITEM	PART NO.	DESCRIPTION
1	EXTOOL44	MELT-CUBE EXTRACTION TOOL TSM269

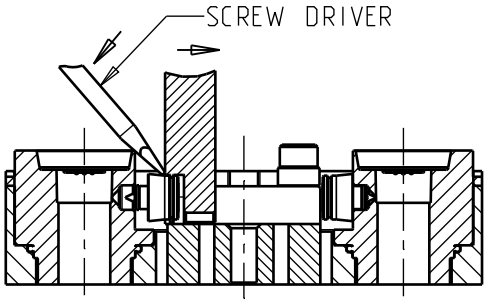
MELT-CUBE GATE SEAL EXTRACTION PROCEDURE



(1)
REMOVE THE BOLTING SCREW AND
MELT WEDGE/MELT-LINK,
INSERT EXTRACTION TOOL ON GATE SEAL

(2)
ALIGN THE LIP ON THE
EXTRACTION TOOL TO GROOVE ON GATE SEAL
AS SHOWN IN DETAILED VIEW

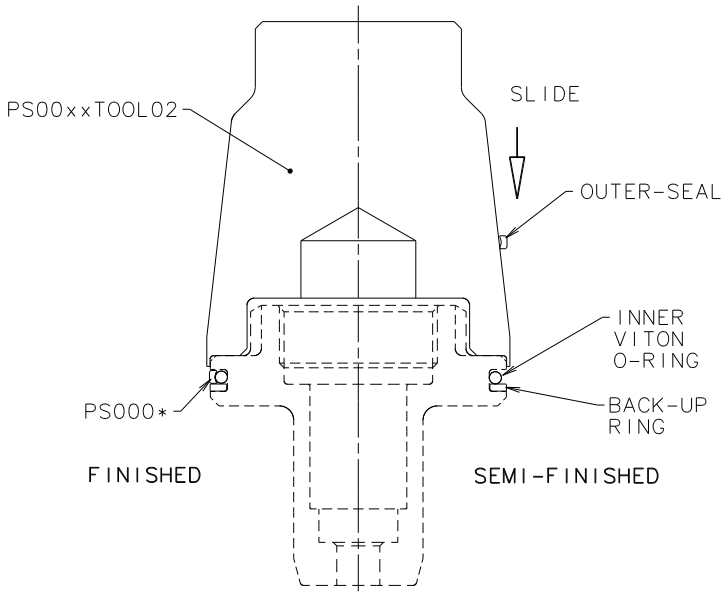




(3)
ONCE THE EXTRACTION TOOL LOCK ON
THE GATE SEAL USE A SCREW DRIVER
TO GENTLY PRY THE GATE SEAL OUT.

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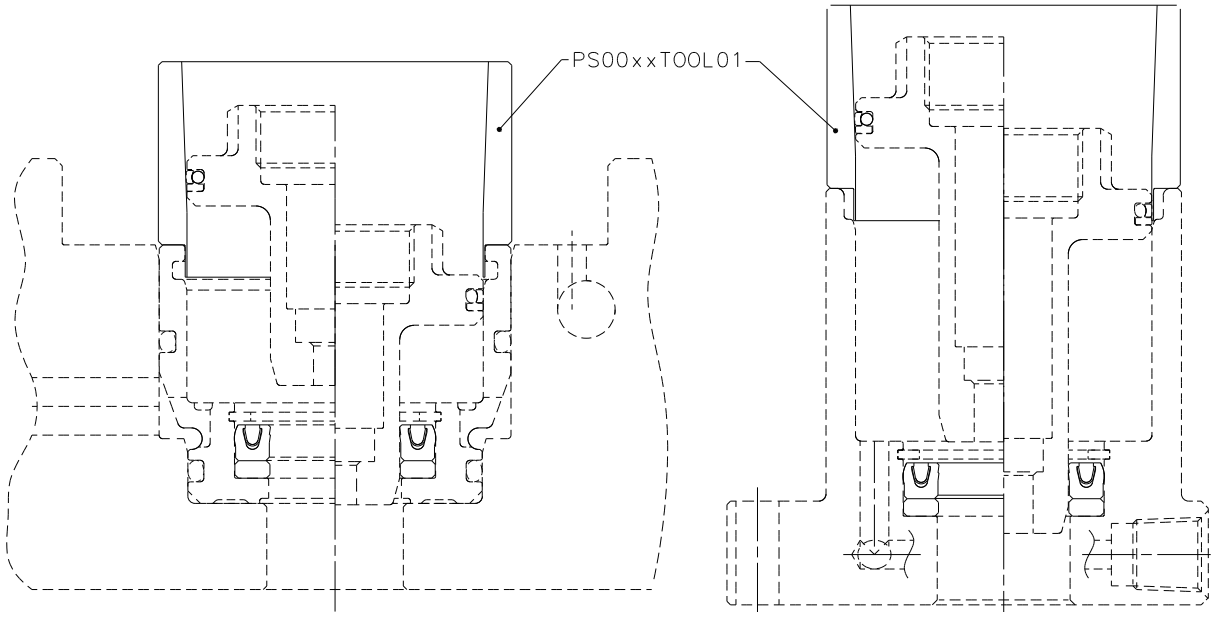
SEAL INSTALLATION GUIDE:
1. O-RING GROOVE MUST BE CAREFULLY CLEANED AND DEBURRED.
2. INSTALL THE INNER O-RING IN GROOVE AS PER NORMAL PRACTICE.
3. OUTER-SEAL SHOULD BE SLOWLY EXPANDED BY USING THE EXPANDING MANDREL.



HY/PN#	EXPANDING MANDREL#
HY65/6600*	PS0003TOOL02
HY67/7100*	
HY8700*	
VPAC0008	
VPAC0009	
VPAC0010	
VPAC0011	
HY680*SA	PS0004TOOL02
HY681*SA	
HY84/8500*	PS0011TOOL02
HY86/8800*	

PISTON INSTALLATION GUIDE:
1. CYLINDER BORE MUST BE CLEANED AND ROD SEAL HAS BEEN INSTALLED.
2. LUBRICATE CYLINDER BORE AND SEAL COMPONENTS.
3. PUT GUIDED SLEEVE - PS000*TOOL01 & COVER CYLINDER TOP AS SHOWN.
4. CAREFULLY PRESS THE PISTON INTO THE CYLINDER BORE ENSURING THAT THE PISTON REMAINS STRAIGHT.

HY/PN#	GUIDING SLEEVE#
PN2300*	PS0001TOOL01
HY65/6600*	PS0003TOOL01
HY67/7100*	
HY8700*	
VPAC0008	
VPAC0009	
VPAC0010	
VPAC0011	
HY680*SA	PS0004TOOL01
HY681*SA	
HY84/8500*	PS0011TOOL01
HY86/8800*	



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*WATTAGE (@ 200V)	WATTAGE (@ 220V)	*WATTAGE (@ 230V)
205	250	275
225	275	300
250	300	330
270	325	355
290	350	380
310	375	410
330	400	435
350	425	465
370	450	490
395	475	520
415	500	545
435	525	575
455	550	600
475	575	630
495	600	655
515	625	685
535	650	710
560	675	740
580	700	765
600	725	790
620	750	820
640	775	845
660	800	875
680	825	900
700	850	930
725	875	955
745	900	985
765	925	1010
785	950	1040
805	975	1065
825	1000	1095

* WATTAGES FOR 200V & 230V
ROUNDED TO THE NEAREST 5W

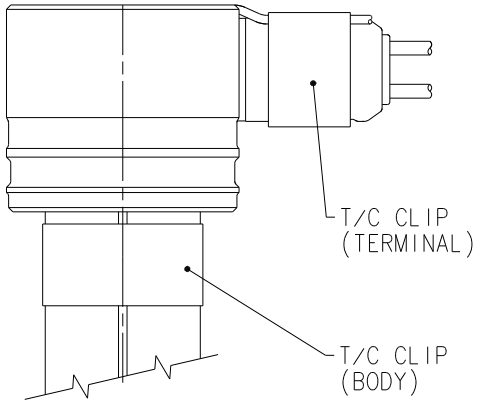
OHM'S LAW EQUATION FOR WATTAGE
AND VOLTAGE CONVERSIONS:

$R = V^2 / P$
R = OHMS (220V)
P = WATTS (220V)
V = VOLTS (220V)

$P1 = V1^2 / R$
P1 = WATTS (***V)
V1 = VOLTS (***V)

*WATTAGE (@ 200V)	WATTAGE (@ 220V)	*WATTAGE (@ 230V)
870	1050	1150
910	1100	1200
950	1150	1255
990	1200	1310
1035	1250	1365
1075	1300	1420
1115	1350	1475
1155	1400	1530
1200	1450	1585
1240	1500	1640
1280	1550	1695
1320	1600	1750
1365	1650	1805
1405	1700	1860
1445	1750	1915
1490	1800	1965
1530	1850	2020
1570	1900	2075
1610	1950	2130
1655	2000	2185
1695	2050	2240
1735	2100	2295
1775	2150	2350
1820	2200	2405
1860	2250	2460
1900	2300	2515
1940	2350	2570
1985	2400	2625
2025	2450	2680
2065	2500	2730
2105	2550	2785
2150	2600	2840
2190	2650	2895
2230	2700	2950
2275	2750	3005
2315	2800	3060
2355	2850	3115
2395	2900	3170
2440	2950	3225
2480	3000	3280

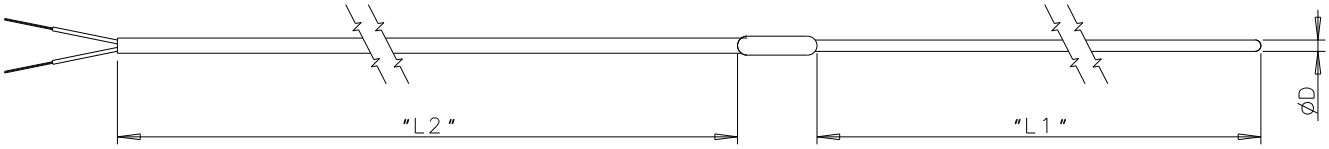
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	NOZZLE #	T/C CLIP (BODY)	*QTY.	T/C CLIP (TERMINAL)	*QTY.
FEMTO-LITE	NZMSLB*A037*	TCRC25	1	TCRC19	1
	NZMSLB*A067* THRU TO NZMSLB*A187*		2		
FEMTO	NZMSFB*A037* THRU TO NZMSFB*A198*	TCRC26	1	TCRC19	1
PICO	NZMSPB*A027* & NZMSPB*A037*	TCRC21	1	TCRC19	1
	NZMSPB*A067* THRU TO NZMSPB*A187*		2		
CENTI	NZMSCB*A020* & NZMSCB*A030*	TCRC22	1	TCRC19	1
	NZMSCB*A045* THRU TO NZMSCB*A180*		2		
DECI	NZMSDB*A028*	TCRC28	1	TCRC21	1
	NZMSDB*A048*	TCRC23	1		
	NZMSDB*A068* THRU TO NZMSDB*A208*		2		
HECTO	NZMSHB*A040*	TCRC24	1	TCRC21	1
	NZMSHB*A065*		1		
	NZMSHB*A090* THRU TO NZMSHB*A440*		2		

*PART NUMBER AND QTY. OF T/C CLIPS (BODY & TERMINAL) SHOWN IN CHART ARE FOR REFERENCE ONLY AND MAY DIFFER TO WHAT IS SUPPLIED WITH SYSTEM DEPENDING UPON WIRE CHANNEL LAYOUT.

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THE THERMOCOUPLES ARE TYPE 'J' UNGROUNDED AND ARE COLOUR CODED TO ASA STANDARDS. (WHITE '+' / RED '-')

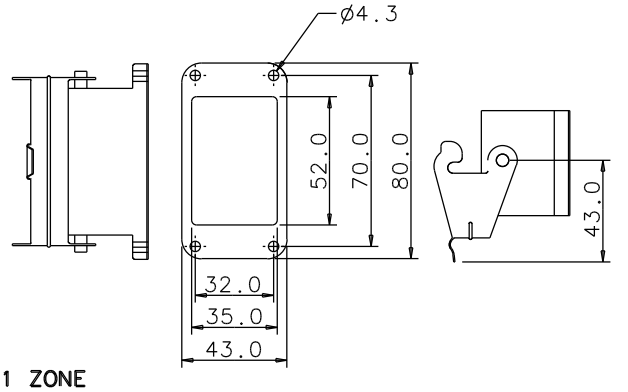
THE TIP MUST NOT BE CUT OR CRIMPED,AND MUST TOUCH THE BOTTOM OF THE BORE IN ORDER TO MEASURE THE CORRECT TEMPERATURE.

EACH HEAT SOURCE SHOULD HAVE ITS OWN CLOSED LOOP TEMPERATURE CONTROL IN ORDER TO ACHIEVE ACCURATE CONTROL. IF THERE ARE NOT ENOUGH CONTROL ZONES, THEN HEAT SOURCES WHICH HAVE THE SAME WATTAGE AND AFFECT THE SAME ENVIRONMENT, MAY BE GROUPED TOGETHER.

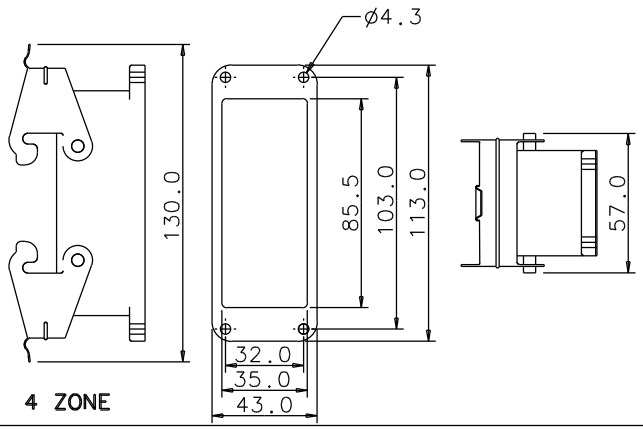
THERMOCOUPLE# L2 = 2000mm	THERMOCOUPLE# L2 = 3000mm	ØD	L1	WHERE USED : (NOTE: "L" IS THE LENGTH IN THE NOZZLE PART NUMBER)
TCD1.0X150-1A	TCG1.0X150-1A	1.0	150.0	MASTER-SERIES FEMTO-LITE NOZZLES L ≦ 97mm
				MASTER-SERIES FEMTO NOZZLES L ≦ 67mm
				MASTER-SERIES PICO NOZZLES L ≦ 67mm
				MASTER-SERIES CENTI NOZZLES L ≦ 30mm
				IE06* & IE07* INL. EXT. L ≦ 88mm
				IABD01
TCD1.0X250-1A	TCG1.0X250-1A	1.0	250.0	MASTER-SERIES FEMTO-LITE NOZZLES L ≧ 127mm
				MASTER-SERIES FEMTO NOZZLES L ≧ 97mm
				MASTER-SERIES PICO NOZZLES L ≧ 97mm
				MASTER-SERIES CENTI NOZZLES L ≧ 45mm
				IE06* & IE07* INL. EXT. L ≧ 108mm
TCD1.5X110-1A	TCG1.5X110-1A	1.5	110.0	HEATED BACKPLATES
				CENTER HEATERS CH0040*
				HEATER PLATES HPxxxx
				MANIFOLDS & MAIN MANIFOLDS
				IE08* & IE09* INL. EXT. L ≦ 70mm
TCD1.5X250-1A	TCG1.5X250-1A	1.5	250.0	IE01*, IE02* & IE03* INL. EXT. L ≦ 200mm
				IE08* & IE09* INL. EXT. L ≧ 90mm
				MASTER-SERIES DECI NOZZLES L ≦ 128mm
				MASTER-SERIES HECTO NOZZLES L ≦ 115mm
TCD1.5X500-1A	TCG1.5X500-1A	1.5	500.0	IE01*, IE02* & IE03* INL. EXT. L ≧ 250mm
				MASTER-SERIES DECI NOZZLES L ≧ 148mm
				MASTER-SERIES HECTO NOZZLES L ≧ 140mm

*PART NUMBER AND WHERE USED OF THERMOCOUPLES SHOWN IN CHART ARE FOR REFERENCE ONLY AND MAY DIFFER TO WHAT IS SUPPLIED WITH SYSTEM DEPENDING UPON WIRE CHANNEL LAYOUT.

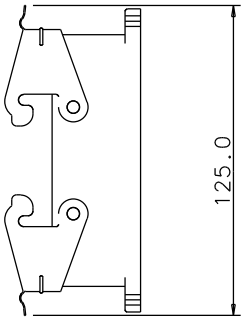
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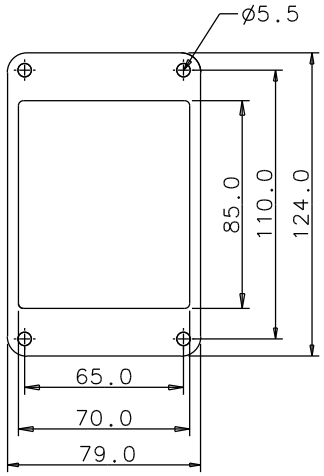
1 ZONE

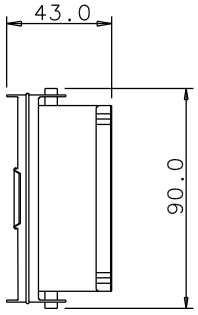


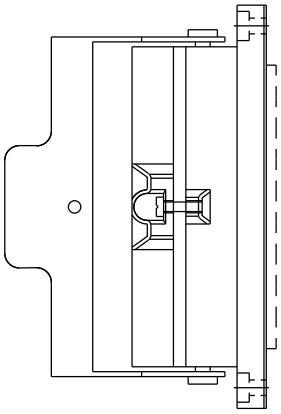
4 ZONE



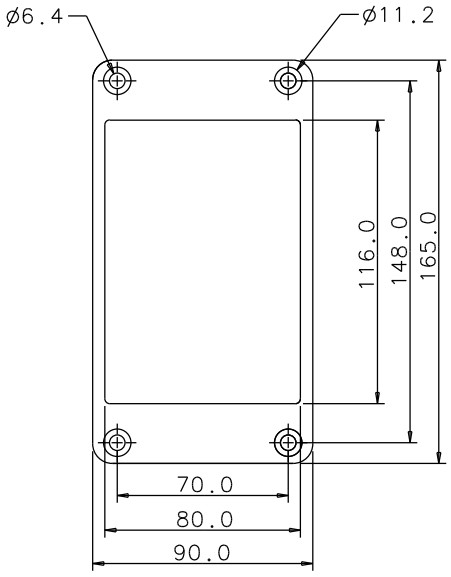
8 ZONE

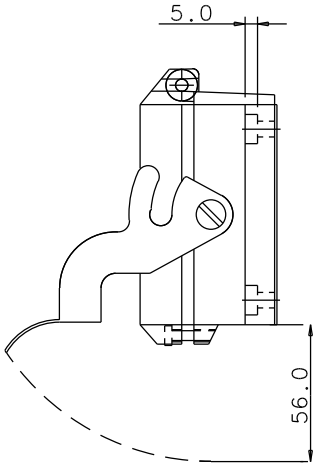






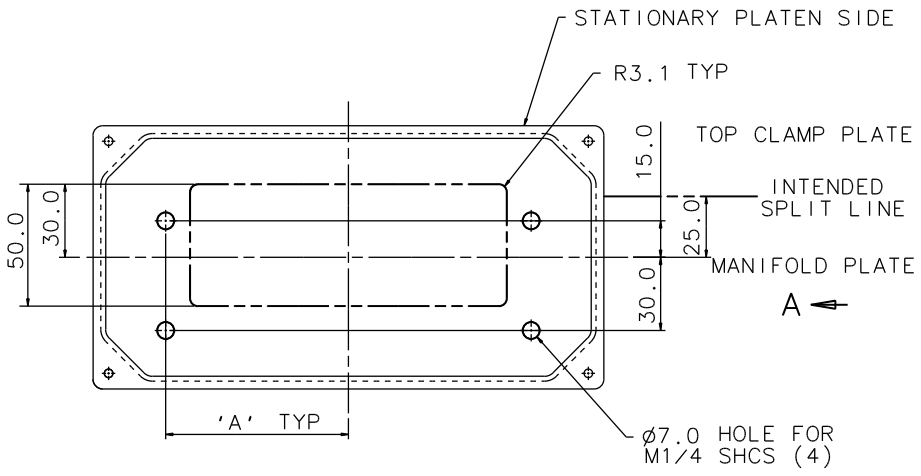
12 ZONE



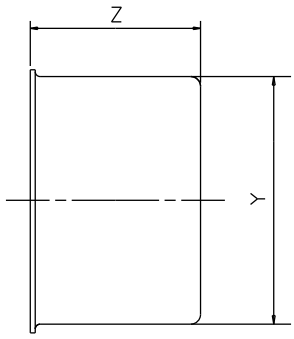


PART NUMBER	DESCRIPTION	NUMBER OF ZONES
902-72000	THERMOCOUPLE & POWER MOLD PLUG	1
MPLUG.04	THERMOCOUPLE & POWER MOLD PLUG	4
MPLUG.08	THERMOCOUPLE & POWER MOLD PLUG	8
MPLUG.12	THERMOCOUPLE & POWER MOLD PLUG	12

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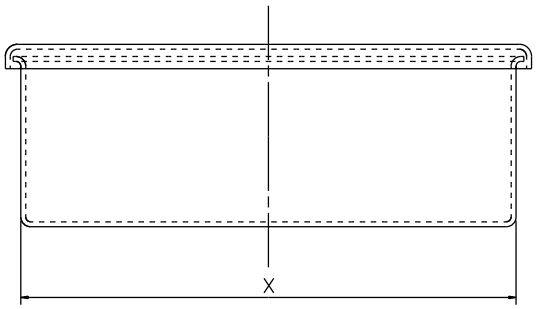


PLAN VIEW OF BOX WITH LID NOT SHOWN



VIEW A
(LID NOT SHOWN)

B



VIEW B

NOTES:
-REMOVE ALL BURS AND SHARP EDGES
-CENTRE POSITIONS NOT DIMENSIONED ARE SYMMETRICAL
-PRIME & PAINT ALL MODIFIED AREAS

ELB008B SHOWN

ELECTRICAL BOX OPTIONS					
ELECTRICAL BOX #	A	X	Y	Z	FOR USE WITH ELECTRICAL CONNECTOR(S)
ELB004B	50.0	146.0	101.6	69.9	MPLUG.04
ELB006B	50.0	146.0	101.6	69.9	MPLUG.08
ELB008B	75.0	203.2	101.6	69.9	MPLUG.12

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CERTIFICATE OF REGISTRATION

This is to certify that

Mold-Masters (2007) Limited

233 Armstrong Avenue Georgetown, Ontario L7G 4X5 Canada

Refer to Attachment to Certificate of Registration dated March 26, 2018 for additional certified sites

operates a

Quality Management System

which complies with the requirements of

ISO 9001:2015

for the following scope of certification

Design and manufacture of processing systems (hot runners), temperature controllers, full mold or hot half solutions, PET systems, and related auxiliary components used in plastic injection molds.

Certificate No.:	CERT-0116319	Original Certification Date:	September 3, 1993
File No.:	002260	Certification Effective Date:	March 25, 2018
Issue Date:	March 26, 2018	Certification Expiry Date:	March 24, 2021

Nicole Grantham
General Manager SAI Global Certification Services

ISO 9001

Registered by:
QMI-SAI Canada Limited (SAI Global), 20 Carlson Court, Suite 200, Toronto, Ontario M9W 7K6 Canada. This registration is subject to the **SAI Global** Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, **SAI Global** accepts responsibility only for proven negligence. This certificate remains the property of **SAI Global** and must be returned to them upon request.
To verify that this certificate is current, please refer to the **SAI Global** On-Line Certification Register: www.qmi-saiglobal.com/qmi_companies/

SAI GLOBAL INFORM. INSPIRE. IMPROVE.

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ZERTIFIKAT ■ CERTIFICATE ■ 認證證書 ■ СЕРТИФИКАТ ■ CERTIFICADO ■ CERTIFICAT

Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that

MILACRON Mold Masters

Mold-Masters Europa GmbH

Neumattring 1 • 76532 Baden-Baden
Germany

has established and applies
a Quality Management System for

Production and Sales of Standard/ Custom Hot Runner Systems, Temperature Controllers, Hot Halves, and Related Auxiliary Components for Use in the Plastic Injection Molding Process.

An audit was performed, Report No. **70045133**.

Proof has been furnished that the requirements
according to

ISO 9001:2015

are fulfilled.

The certificate is valid from **2017-04-13** until **2020-04-12**.

Certificate Registration No.: **12 100 28325 TMS**.

Product Compliance Management
Munich, 2017-04-13

IAF DAkkS

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany
www.tuev-sued.de/certificate-validity-check

TÜV®

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CERTIFICATE OF REGISTRATION

This is to certify that:

MOLD-MASTERS KUNSHAN LIMITED

2# ZhaoTian Rd. East Jing Yang Rd., Lu Jia Town, Kunshan, Jiangsu, 215300, China

operates a

QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

ISO 9001:2015

For the following scope

Designing and Manufacturing of processing systems (hot runners) temperature controllers hot halves and nozzle sprue technology.

Certificate No: QEC26152

Issued: 10 January 2017
Expires: 9 January 2020

Originally Certified: 5 February 2007
Current Certification: 10 January 2017

Nicole Grantham
General Manager Certification Services

Certified System ISO 9001

JAS-ANZ
WWW.JAS-ANZ.ORG/REGISTER

Registered by:
SAI Global Certification Services Pty Ltd (ACN 108 716 669) 680 George Street Sydney NSW 2000 Australia with SAI Global Limited 680 George Street Sydney NSW 2000 Australia ("SAI Global") and subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. To verify that this certificate is current please refer to SAI Global On-Line Certification register at http://www.saiglobal.com

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Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 1837578**

Certificate Holder:

MILACRON

Mold Masters performance delivered

MILACRON India Private Limited
(Mold-Masters Division)
Site 1 : Design Office
No.6, Mettupalayam Road, Kavundampalayam,
Coimbatore – 641 030.

Site 2: Plant 1
No: 3b, Gandhiji Salai, Nallampalayam, Rathinapuri Post,
Coimbatore – 641 027.

Site 3: Plant 2
No.7/2, Athipalayam Road, Chinnavedampatti,
Coimbatore – 641 006.

Scope: **Design and Manufacture of Processing Systems (Hot Runners), Hot half Solutions, Temperature Controllers and Related Auxiliary Components used in Plastic Injection Molds.**

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2019-03-07 until 2022-03-06.

2019-03-07

IAF

DAkkS Deutsche Akkreditierungsstelle D-ZM-16031-01-00

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