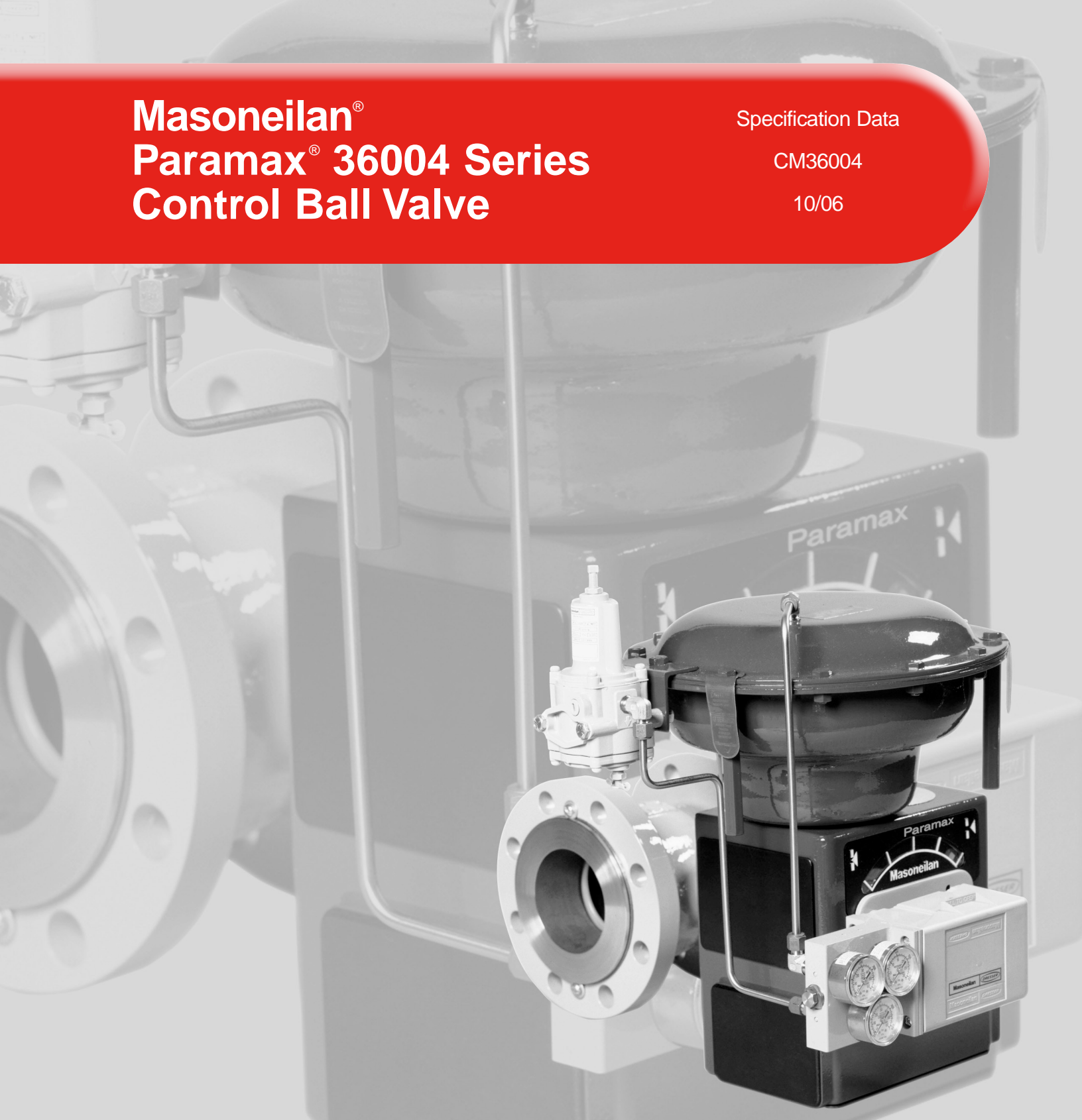


Masoneilan® Paramax® 36004 Series Control Ball Valve

Specification Data

CM36004

10/06



**Heavy-duty
Automatic Throttling
Control Ball Valve**



Table of Contents

| | |
|---------------------------------|----|
| Numbering System | 3 |
| Specifications | 4 |
| Seal Ring Limitations | 5 |
| Materials | 6 |
| Flow Coefficients - Rated C_v | 8 |
| Valve (F_L) | 8 |
| Actuator Sizes | 8 |
| Allowable Pressure Drops | 9 |
| Dimensions | 10 |
| Weights | 11 |

Foreword

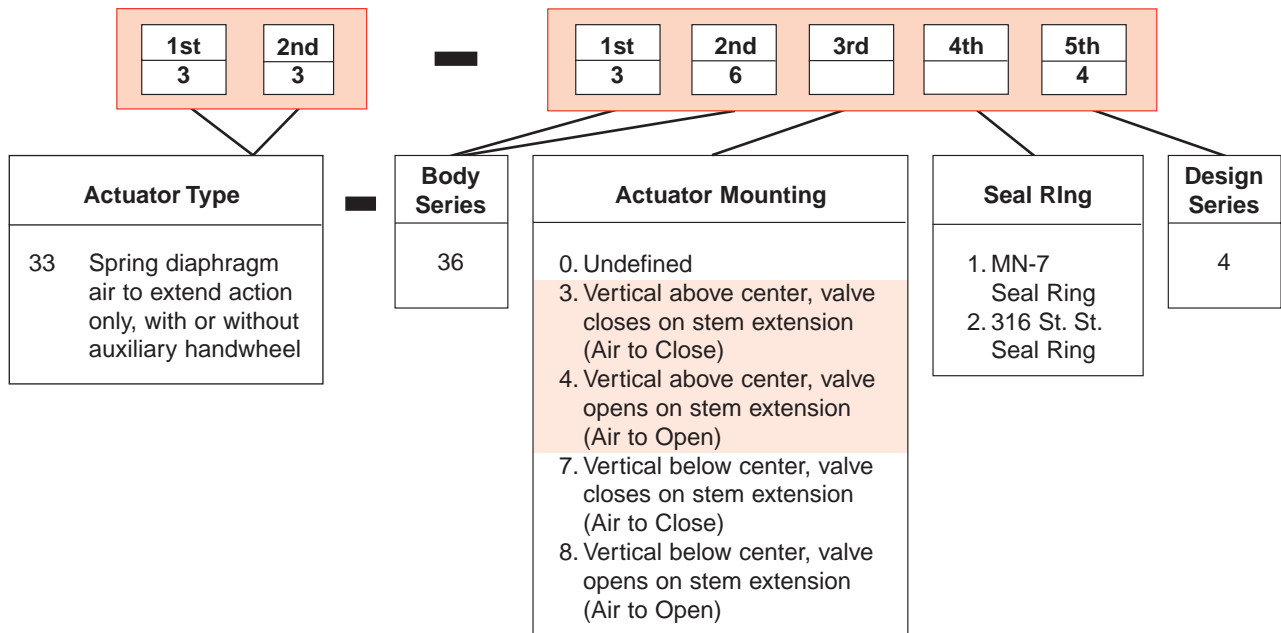
Paramax® is a heavy-duty automatic throttling control ball valve incorporating the design features listed below:

- Integrally cast raised face flanges. ANSI Class 150 or 300.
- Available in ISA S75.04 (ANSI Class 150 and 300) as well as ASME/ANSI B16.10 short pattern face-to-face dimensions (ANSI Class 150 only).
- Segmented ball provides optimum flow capacity and low torque requirements.
- Parabolic shaping of the ball's leading edge provides excellent flow characterization combined with shearing action to ensure nonclogging operation.
- MN-7 low-friction polymeric seal ring providing Class VI shutoff.
- Standard fugitive emission shaft seals.
- High temperature capabilities (600°F) (316°C) using metal seal, stellite bearings and flexible graphite packing.
- Unique seal design requires no shims, even with the metal version.

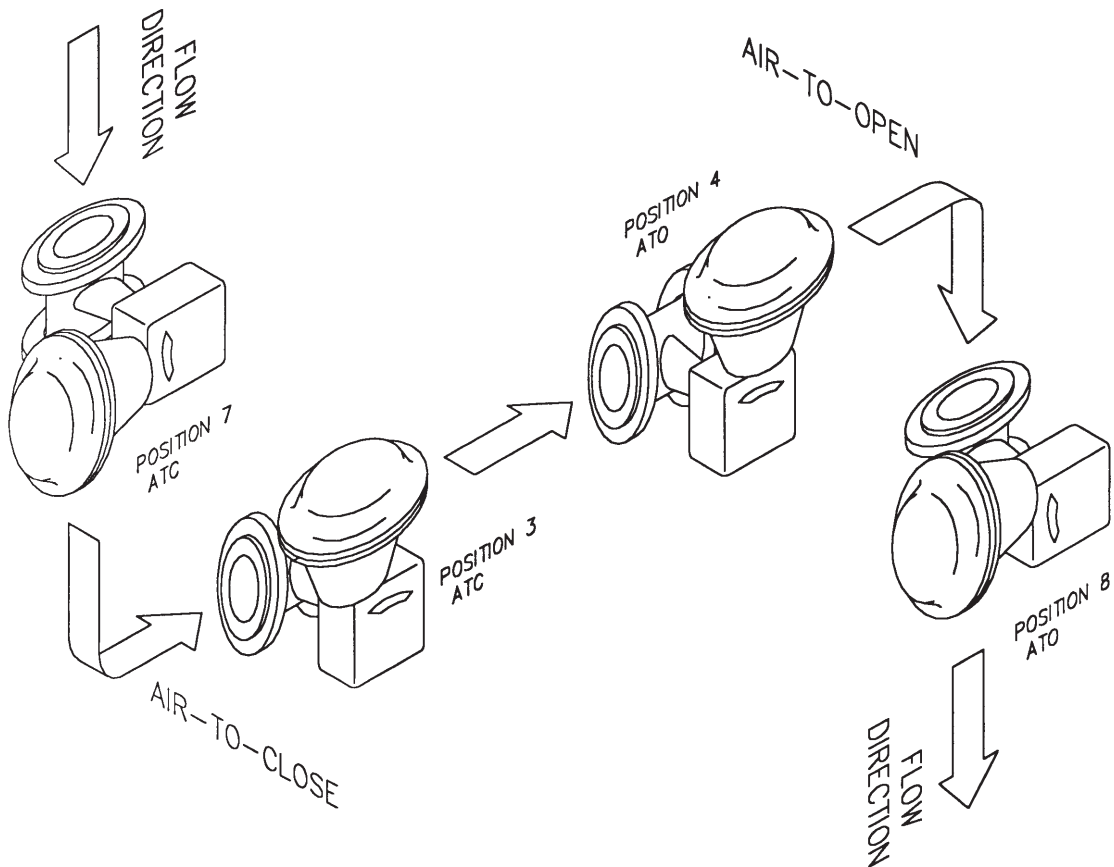
- Fully splined plug, shaft and actuator connections virtually eliminate backlash, while delivering totally reliable operation.
- Body materials of carbon steel, 316 and 317 stainless steel are standard.
- Easy maintenance. The seal ring may be changed by simply removing two machine screws on the inlet flange. Actuator removal or complete valve disassembly is not required.
- Model 33 spring return, diaphragm type.
 - Two sizes cover complete range
 - Positive fail-safe action
 - All moving parts completely enclosed
 - Highly visible position indicator
 - Field reversible with no part changes required
 - Uses all standard Masoneilan accessories

For additional information, contact your local Masoneilan Representative or Sales Office.

Numbering System



Shading indicates standard mounting positions



Specifications

Body

Type

- cast with integral bonnet

Sizes

- 2" - 12" (50mm-300mm)

Ratings

- ANSI Class 150 or 300

Materials

- ASTM A216 Gr WCB carbon steel
- ASTM A351 Gr CG8M type 317
- ASTM A351 Gr CF8M type 316

Connections

- ANSI Class 150 or 300 raised face flanges

Packing Box

- bolted, EF Seal standard

Flow Characteristics

- equal percentage

Minimum Fluid Temperature

- -20°F (-29°C) carbon steel
- -50°F (-45°C) stainless steel

Maximum Fluid Temperature

- 425°F (218°C) MN-7 seal ring (see page 5)
- 600°F (316°C) 316 stainless steel seal ring, metal bearings and flexible graphite packing

Seat Leakage

- ANSI/FCI 70.2 Class VI – MN-7 seal ring
- ANSI/FCI 70.2 Class IV – 316 stainless steel seal ring

C_v Ratio

- greater than 300:1

Trim

Plug

- segmented ball with parabolic opening

Material

- 317 stainless steel hard chromium plated

Seal Ring

- MN-7 (polymeric reinforced PTFE) or 316 St. St. (optional)

Packing

- split ring PTFE jacketed Kevlar -50°F to 450°F (-45°C to 232°C)
- flexible graphite optional -50°F to 600°F (-45°C to 316°C)

Shaft

- one-piece splined both ends 17-4 PH stainless steel condition H1075 – carbon steel construction
- Nitronic 50 – stainless steel construction

Bushings

- 316 stainless steel with low-friction liner or Stellite No. 6 (optional)

Actuator

Type

- spring opposed diaphragm

Sizes

- B and C

Spring Range

- 7-16 psi (48-110 kPa) – Size B
- 9-16 psi (62-110 kPa) – Size C

Action

- air to close or air to open

Air Connection

- ¼" NPT

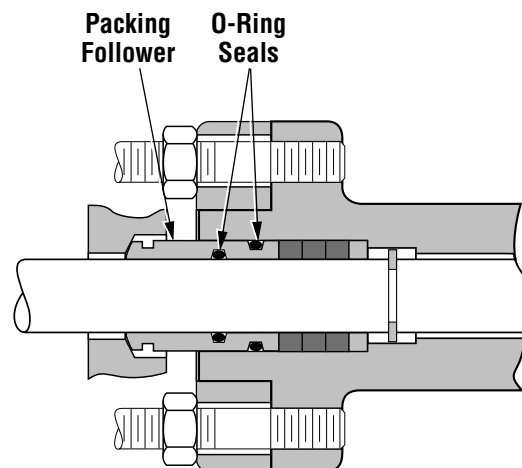
Handwheel

- (optional) rising stem push type

EF Seal® (Emission Free)

Double o-ring seal packing follower – EF Seal fugitive emission containment package.

To prevent dangerous emissions, Masoneilan provides as standard a double o-ring sealed packing box. This economical solution to fugitive emissions will not compromise control performance when it is used in environmentally sensitive applications.

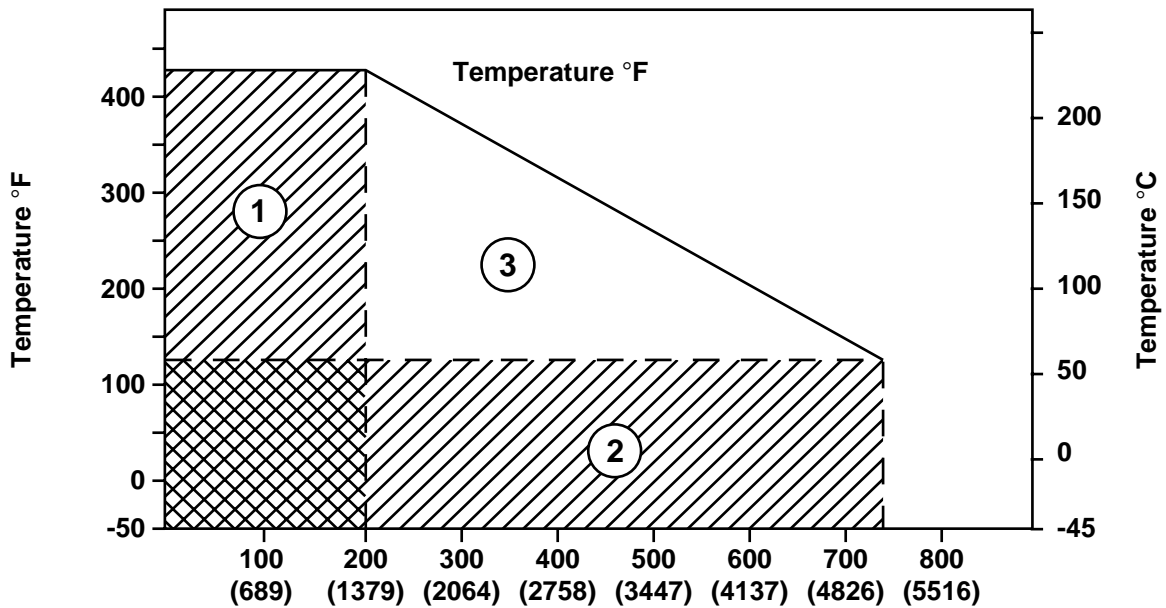


Metal Seal Ring Temperature Limitations

A strain hardened 316 stainless steel seal ring is an available option when the MN-7 Seal is not suitable. The metal seal ring can be used with either the MN-7 lined bearings or the optional solid metal bearings. The fluid temperature is limited to 425°F (218°C) when using the MN-7 lined bearings.

A high temperature package consisting of metal seal ring, bearings and flexible graphite packing elevates fluid temperature limitations to 600°F (316°C) maximum or ANSI working pressure and temperature limitations.

MN-7 Seal Ring Temperature Limitations

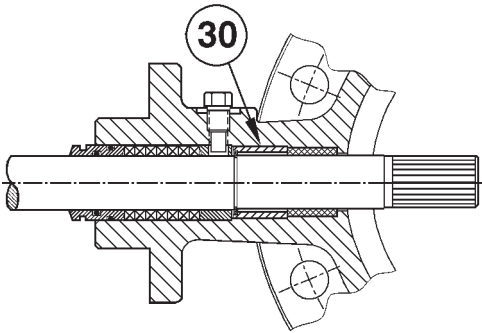


Pressure Drop psi (kPa)

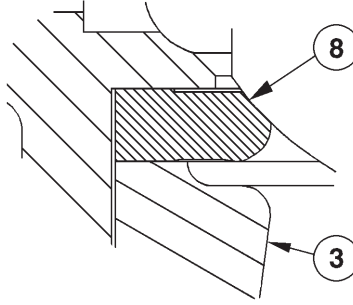
- ① Zone of maximum temperature limits
- ② Zone of maximum pressure limits
- ③ Zone of maximum interactive pressure/temperature limits

* For higher temperatures and other materials, consult Masoneilan

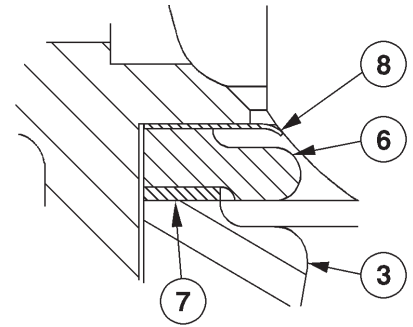
Materials



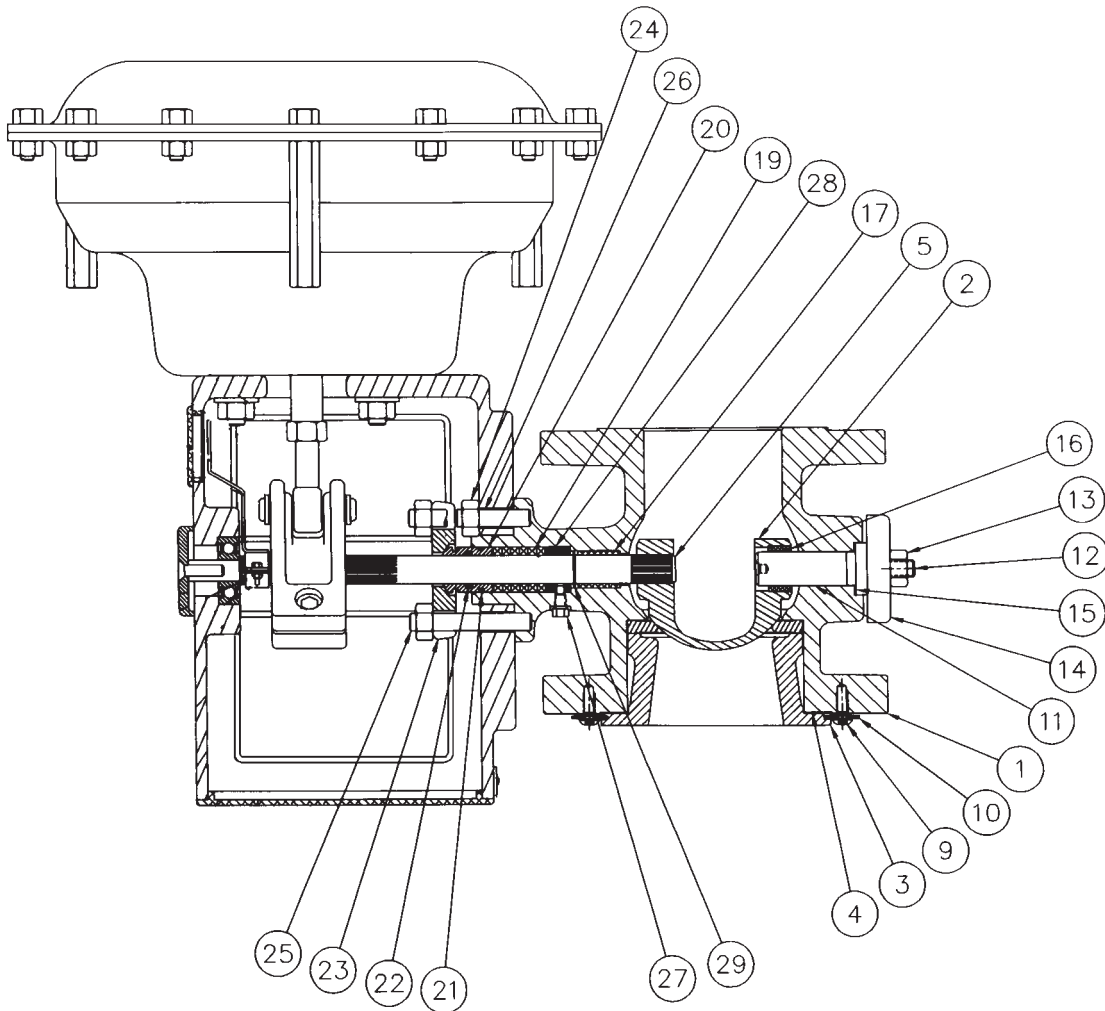
**Spacer Tube Detail
(8" [200mm] only)**



MN-7 Seal Ring



Metal Seal Ring



General Arrangement with Standard Retainer

Materials

| Ref. No. | Temperature Range | -50°F -45°C | -20°F -29°C | +425°F +218°C | +450°F +232°C | +600°F +316°C |
|----------|---------------------------------|--|----------------|------------------|------------------|------------------|
| Ref. No. | Temperature Range | -50°F -45°C | -20°F -29°C | +425°F +218°C | +450°F +232°C | +600°F +316°C |
| Ref. No. | Description | Standard Materials | | | | |
| 1 | Body Flanged | ASTM A216 Gr WCB Carbon Steel | | | | |
| | | ASTM A351 Gr CF8M Type 316 | | | | |
| | | ASTM A351 Gr CG8M Type 317 | | | | |
| 2 | Ball Plug | ASTM A351 Gr CG8M Type 317, Hard Chromium Plated | | | | |
| 3 | Retainer Standard (ISA S75.04) | ASTM A351 Gr CG8M Type 317 | | | | |
| | Retainer Extended (ANSI B16.10) | | | | | |
| 4 | Gasket (Retainer Body) | Graphite | | | | |
| 5 | Shaft | ASTM 564 Gr 630 H1075 (Carbon Steel Body) | | | | |
| | | Nitronic 50 (Stainless Steel Body) | | | | |
| 6 | Backup Ring (Metal Seal) | 317 Stainless Steel | | | | |
| 7 | Gasket (Metal Seal) | 316 Stainless Steel / Flexible Graphite | | | | |
| 8 | Seal Ring (Metal) | 316 Stainless Steel | | | | |
| | Seal Ring | MN-7 | | | | |
| 9 | Slot Button Head Screw | Carbon Steel Plated | | | | |
| 10 | Flat Washer | Carbon Steel Plated | | | | |
| 11 | Pin Shaft | ASTM A564 Gr 630 H1075 (Carbon Steel Body) | | | | |
| | | Nitronic 50 (Stainless Steel Body) | | | | |
| 12 | Stud, End Flange | ASTM A193 Gr B8 | | | | |
| 13 | Nut, End Flange | ASTM A194 Gr 8 | | | | |
| 14 | End Flange | ASTM A36 Plated | | | | |
| 15 | Gasket (Pin Shaft) | Bluegard 3000 | | | | |
| 16 | Lower Bushing | 316 Stainless Steel / MN-7 Lined | | | | |
| | | Stellite | | | | |
| 17 | Upper Bushing | 316 Stainless Steel / MN-7 Lined | | | | |
| | | Stellite | | | | |
| 19 | Packing | Crane 285K - TFE Aramid Core | | | | |
| | | Flexible Graphite | | | | |
| 20 | Packing Follower | ASTM A582 Type 303 | | | | |
| 21 | O-ring | Viton | | | | |
| 22 | O-ring | Viton | | | | |
| 23 | Packing Box Flange | ASTM A105 Plated | | | | |
| 24 | Nut | ASTM A194 Gr 8 | | | | |
| 25 | Stud Packing Flange | ASTM A193 Gr B8 | | | | |
| 26 | Stud Bonnet | ASTM A193 Gr B8 | | | | |
| 27 | Safety Pin | ASTM A479 Type 316 | | | | |
| 28 | Packing Adapter | ASTM A479 Type 316 | | | | |
| 29 | Shaft Ring | ASTM A564 Gr 632 | | | | |
| 30 | Spacer Tube (8" [200mm] only) | 316 Stainless Steel | | | | |

Flow Coefficients C_v at % Maximum Opening (90° Rotation)

| Percent (%) of Max. Opening | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|-----------------------------|-----|-------------|------|-----|------|------|------|------|------|------|------|
| Percent (%) of Max. C_v | | 1 | 5 | 8.5 | 15 | 24 | 34 | 46 | 60 | 78 | 100 |
| Valve Size | | Rated C_v | | | | | | | | | |
| inches | mm | | | | | | | | | | |
| 2 | 50 | 1.1 | 5.3 | 8.9 | 15.8 | 25 | 36 | 48 | 63 | 82 | 105 |
| 3 | 80 | 2.5 | 12.5 | 21 | 38 | 60 | 85 | 115 | 150 | 195 | 250 |
| 4 | 100 | 5.1 | 26 | 43 | 77 | 122 | 173 | 235 | 306 | 398 | 510 |
| 6 | 150 | 10.3 | 52 | 88 | 155 | 247 | 350 | 474 | 618 | 803 | 1030 |
| 8 | 200 | 18.3 | 92 | 156 | 275 | 439 | 622 | 842 | 1098 | 1427 | 1830 |
| 10 | 250 | 29 | 145 | 247 | 435 | 696 | 986 | 1334 | 1740 | 2262 | 2900 |
| 12 | 300 | 43 | 213 | 361 | 638 | 1020 | 1445 | 1955 | 2550 | 3315 | 4250 |

Valve (F_L) as a Function of Capacity

| Percent (%) of Max. C_v | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| F_L | .88 | .86 | .82 | .78 | .73 | .68 | .65 | .63 | .61 | .60 |

Actuators

| Valve Size | | Shaft Diameter | | Actuator Size | | Spring Range psig | Actuator Eff. Area | | Actuator Stroke | | Handwheel Diameter | |
|------------|-----|----------------|------|---------------|-----------|----------------------|--------------------|--------|-----------------|------|--------------------|-----|
| inches | mm | inches | mm | Standard | Oversized | | sq. in. | sq. cm | inches | mm | inches | mm |
| 2 | 50 | 0.62 | 15.7 | B | | 7-16 | 70 | 452 | 2.625 | 66.5 | 10 | 254 |
| 3 | 80 | 0.62 | 15.7 | B | | 7-16 | 70 | 452 | 2.625 | 66.5 | 10 | 254 |
| 3 | 80 | 0.62 | 15.7 | | C | 9-16 | 140 | 903 | 2.625 | 66.5 | 10 | 254 |
| 4 | 100 | 0.93 | 23.7 | B | | 7-16 | 70 | 452 | 2.625 | 66.5 | 10 | 254 |
| 4 | 100 | 0.93 | 23.7 | | C | 9-16 | 140 | 903 | 2.625 | 66.5 | 10 | 254 |
| 6 | 150 | 0.93 | 23.7 | C | | 9-16 | 140 | 903 | 2.625 | 66.5 | 10 | 254 |
| 8 | 200 | 1.20 | 30.5 | C | | 9-16 | 140 | 903 | 2.625 | 66.5 | 10 | 254 |
| 10 | 250 | 1.20 | 30.5 | C | | 9-16 | 140 | 903 | 2.625 | 66.5 | 10 | 254 |
| 12 | 300 | 1.37 | 34.8 | C | | 9-16 | 140 | 903 | 2.625 | 66.5 | 10 | 254 |

Allowable Pressure Drops (psi)

Model 33 Actuator

MN-7 Seal with Lined 316 Bearings

Flow Direction into Seal Ring Side
 Seat Leakage per ANSI /FCI 70.2 Class VI
 Required Supply Pressure: 25 psig (172 kPag)

Temperature: -50°F to +425°F
 (-45°C to +218°C)

| Valve Size | | Actuator Size | Air to Open / Air to Close | | | | | | | | | |
|------------|-----|---------------|--|----------|-----|-----|-----|-----|-----|-----|-----|--|
| | | | Allowable Pressure Drops (psi) by Temperature (°F) | | | | | | | | | |
| inches | mm | | -50 to 0 | 0 to 125 | 150 | 200 | 250 | 300 | 350 | 400 | 425 | |
| 2 | 50 | B | 750 | 750 | 700 | 600 | 510 | 420 | 340 | 250 | 200 | |
| 3 | 80 | B | 750 | 750 | 700 | 600 | 510 | 420 | 340 | 250 | 200 | |
| 4 | 100 | B | 440 | 750 | 700 | 600 | 510 | 420 | 340 | 250 | 200 | |
| 4 | 100 | C | 750 | 750 | 700 | 600 | 510 | 420 | 340 | 250 | 200 | |
| 6 | 150 | C | 530 | 720 | 700 | 600 | 510 | 420 | 340 | 250 | 200 | |
| 8 | 200 | C | 210 | 450 | 450 | 450 | 450 | 420 | 340 | 250 | 200 | |
| 10 | 250 | C | 60 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 200 | |
| 12 | 300 | C | 0 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | |

Model 33 Actuator

St. St. Seal with Metal Bearings

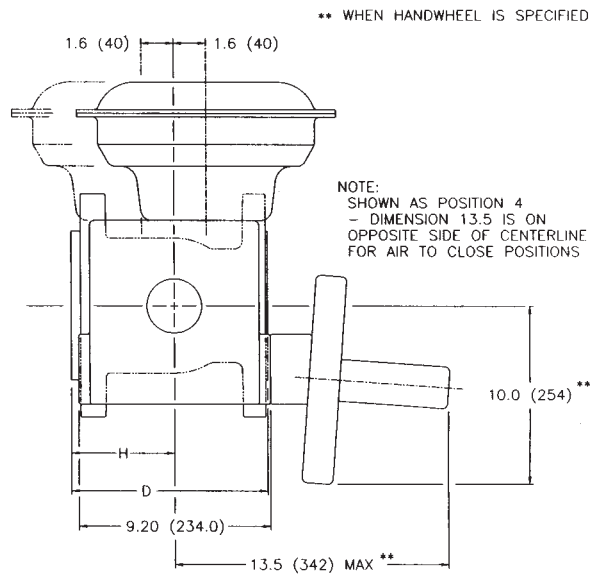
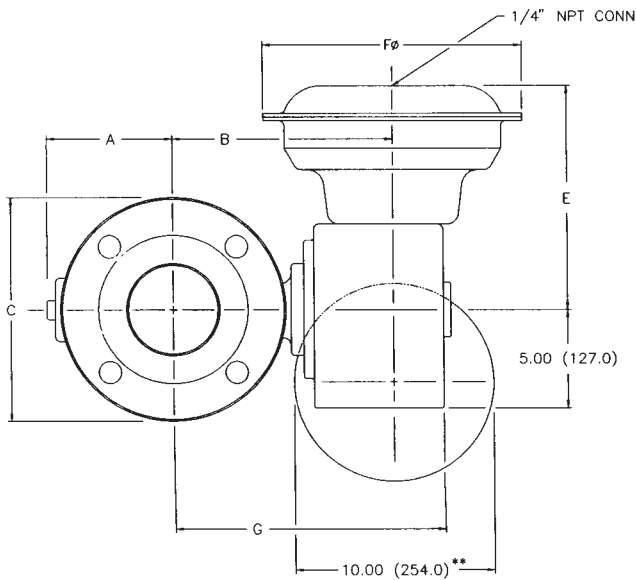
Flow Direction into Seal Ring Side
 Seat Leakage per ANSI/FCI 70.2 Class IV
 Required Supply Pressure: 25 psig (172 kPag)

Temperature: -50°F to +600°F
 (-45°C to +316°C)

| Valve Size | | Actuator Size | Air to Open / Air to Close | | | | | | | | | |
|------------|-----|---------------|--|--|--|--|--|--|--|--|--|--|
| | | | Allowable Pressure Drops (psi) by Temperature (°F) | | | | | | | | | |
| inches | mm | | | | | | | | | | | |
| 2 | 50 | B | 750 | | | | | | | | | |
| 3 | 80 | B | 660 | | | | | | | | | |
| 3 | 80 | C | 750 | | | | | | | | | |
| 4 | 100 | B | 250 | | | | | | | | | |
| 4 | 100 | C | 700 | | | | | | | | | |
| 6 | 150 | C | 290 | | | | | | | | | |
| 8 | 200 | C | 155 | | | | | | | | | |
| 10 | 250 | C | 80 | | | | | | | | | |
| 12 | 300 | C | 50 | | | | | | | | | |

NOTE: The information in these tables has been developed on the basis of testing using water and/or a dry gas. The physical characteristics of actual process fluids vary greatly and their effects should be taken into consideration. These tables are purely informational and are not a substitute for good engineering judgement.

Dimensions



| Valve Size | | A | | | | B | | C ^① | | | | D (±.06) | | | |
|------------|-----|----------|-------|----------|-------|-------|-------|----------------|-------|----------|-------|-----------------------|-------|--------------------------------|-------|
| | | ANSI 150 | | ANSI 300 | | | | ANSI 150 | | ANSI 300 | | Standard ^② | | Optional Extended ^③ | |
| inches | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| 2 | 50 | 4.03 | 102.4 | 5.33 | 135.4 | 8.19 | 208.1 | 6.00 | 152.4 | 6.50 | 165.1 | 4.88 | 124.0 | 7.00 | 177.8 |
| 3 | 80 | 4.40 | 111.8 | 4.40 | 111.8 | 8.68 | 220.5 | 7.50 | 190.5 | 8.25 | 209.6 | 6.50 | 165.1 | 8.00 | 203.2 |
| 4 | 100 | 5.17 | 131.3 | 5.17 | 131.3 | 10.70 | 271.9 | 9.00 | 228.6 | 10.00 | 254.0 | 7.62 | 193.5 | 9.00 | 228.6 |
| 6 | 150 | 6.60 | 167.6 | 6.60 | 167.6 | 11.91 | 302.6 | 11.00 | 279.4 | 12.50 | 317.5 | 9.00 | 228.6 | 10.50 | 266.7 |
| 8 | 200 | 7.48 | 189.9 | 7.48 | 189.9 | 13.43 | 341.1 | 13.5 | 342.9 | 15.00 | 381.0 | 9.56 | 242.8 | 11.50 | 292.1 |
| 10 | 250 | 9.01 | 228.7 | 9.01 | 228.7 | 14.56 | 369.8 | 16.00 | 406.4 | 17.50 | 444.5 | 11.69 | 296.9 | 13.00 | 330.2 |
| 12 | 300 | 10.52 | 267.1 | 10.52 | 267.1 | 16.25 | 412.8 | 19.00 | 482.6 | 20.50 | 520.7 | 13.31 | 338.1 | 14.00 | 355.6 |

| Valve Size | | E | | F | | G | | H | | | |
|------------|-----|-------|-------|-------|-------|-------|-------|-----------------------|-------|--------------------------------|-------|
| | | | | | | | | Standard ^② | | Optional Extended ^③ | |
| inches | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| 2 | 50 | 11.50 | 292.1 | 13.00 | 330.2 | 10.88 | 276.4 | 2.59 | 65.8 | 4.56 | 115.8 |
| 3 | 80 | 11.50 | 292.1 | 13.00 | 330.2 | 11.37 | 288.8 | 3.40 | 86.4 | 4.89 | 124.2 |
| 4 | 100 | 11.50 | 292.1 | 13.00 | 330.2 | 13.39 | 340.2 | 3.96 | 100.6 | 5.34 | 135.6 |
| 6 | 150 | 15.20 | 386.1 | 17.50 | 444.5 | 14.60 | 370.9 | 4.69 | 119.1 | 6.25 | 158.8 |
| 8 | 200 | 15.20 | 386.1 | 17.50 | 444.5 | 16.12 | 409.4 | 5.02 | 127.5 | 6.97 | 177.0 |
| 10 | 250 | 15.20 | 386.1 | 17.50 | 444.5 | 17.25 | 438.2 | 6.09 | 154.7 | 7.40 | 188.0 |
| 12 | 300 | 15.20 | 386.1 | 17.50 | 444.5 | 18.94 | 481.1 | 7.11 | 180.6 | 7.80 | 198.1 |

- ① Conforms to ASME/ANSI Standard B16.5 - 1988 "Pipe Flanges and Flanged Fittings"
- ② Conforms to ISA Standard S75.04
- ③ Conforms to ASME Standard B16.10 - 1992 (formerly ANSI Standard B16.10 - 1973)
Short pattern ball available for ANSI 150 Class valves only.

Weights (lbs.)

| Valve Size | | Standard Face to Face | | Extended Face to Face |
|------------|-----|-----------------------|----------|-----------------------|
| inches | mm | ANSI 150 | ANSI 300 | ANSI 150 |
| 2 | 50 | 92 | 96 | 94 |
| 3 | 80 | 104 | 114 | 107 |
| 4 | 100 | 126 | 144 | 130 |
| 6 | 150 | 223 | 263 | 233 |
| 8 | 200 | 290 | 346 | 304 |
| 10 | 250 | 371 | 447 | 385 |
| 12 | 300 | 483 | 585 | 505 |

Weights (Kg)

| Valve Size | | Standard Face to Face | | Extended Face to Face |
|------------|-----|-----------------------|----------|-----------------------|
| inches | mm | ANSI 150 | ANSI 300 | ANSI 150 |
| 2 | 50 | 34 | 36 | 35 |
| 3 | 80 | 39 | 43 | 40 |
| 4 | 100 | 47 | 54 | 49 |
| 6 | 150 | 83 | 98 | 87 |
| 8 | 200 | 108 | 129 | 113 |
| 10 | 250 | 138 | 167 | 144 |
| 12 | 300 | 180 | 218 | 188 |

Sales Office Locations

BELGIUM

Dresser Valves Europe
Boulevard du Souverain
207 B2 Vorstlaan,
B-1160 Brussels, Belgium
Phone: +32-2-344-0970
Fax: +32-2-344-1123

BRAZIL

Dresser Industria e Comercio Ltda
Divisao Masoneilan
Rua Funchal, 129 - Conj. 5A
04551-060 - Sao Paulo - SP Brazil
Phone: 55-11-2146-3600
Fax: 55-11-2146-3610

CANADA

Ontario
Dresser - Masoneilan
DI Canada, Inc.
835 Harrington Court, 2nd Floor
Burlington, Ontario L7N 3P3, Canada
Phone: 905-335-3529
Fax: 905-336-7628

CHINA

Dresser Flow Solutions
Beijing Rep. Office
Suite 1703, Capital Mansion
6 Xinyuannan Rd. Chaoyang District
Beijing 100004, China
Phone: +86-10-8486-4515
Fax: +86-10-8486-5305

FRANCE

Masoneilan - Dresser Produits
Industriels
Energy 5
130/190 Boulevard de Verdun
92413 Courbevoie cedex, France
Phone: +33-1-4904-9000
Fax: +33-1-4904-9010

Dresser Produits Industriels S.A.S.,
Masoneilan Customer Service Centre
55 rue de la Mouche, Zone Industrielle
69540 Irigny, France
Phone: +33-4-72-39-06-29
Fax: +33-4-72-39-21-93

GERMANY

Dresser Valves Europe GmbH
Heiligenstrasse 75
Viersen D-41751, Germany
Phone: +49-2162-8170-0
Fax: +49-2162-8170-280

Dresser Valves Europe GmbH
Uhlandstrasse 58
60314 Frankfurt, Germany
Phone: +49-69-439350
Fax: +49-69-4970802

INDIA

Dresser Valve India Pvt. Ltd.
305/306, "Midas", Sahar Plaza
Mathurdas Vasanji Road
J.B. Nagar, Andheri East
Mumbai, 400059, India
Phone: +91-22-835-4790
Fax: +91-22-835-4791

Dresser Valve India Pvt. Ltd.
205, Mohta Building
4 Bhikaiji Cama Place
New Delhi, 110 066, India
Phone: +91-11-2-616-4175
Fax: +91-11-5-165-9635

ITALY

Dresser Italia S.r.l.
Masoneilan Operations
Via Cassano, 77
80020 Casavatore, Napoli Italy
Phone: +39-081-7892-111
Fax: +39-081-7892-208

JAPAN

Niigata Masoneilan Co. Ltd. (NIMCO)
20th Floor, Marive East Tower
WBG 2-6 Nakase, Mihama-ku,
Chiba-shi, Chiba 261-7120 Japan
Phone: +81-43-297-9222
Fax: +81-43-299-1115

KOREA

Dresser Korea Inc.
2109 Kuk Dong Building
60-1, ChoongMoo-ro 3-ka
Joong-gu, Seoul, Korea 100-705
Phone: +82-2-2274-0748
Fax: +82-2-2274-0720

KUWAIT

Dresser Flow Solutions
Middle East Operations
10th Floor, Al Rashed Complex
Fahad Salem Street, P.O. Box 242
Safat, 13003, Kuwait
Phone: +965-9061157
Fax: +965-3987879

MALAYSIA

Dresser Flow Solutions
Business Suite, 19A-9-1, Level 9
UOA Centre, No. 19, Jalan Pinang
50450 Kuala Lumpur, West Malaysia
Phone: +60-3-2161-0322
Fax: +60-3-2163-3612

MEXICO

Dresser Valve de Mexico, S.A. de C.V.
Henry Ford No. 114, Esq. Fulton
Fraccionamiento Industrial
San Nicolas
54030 Tlalhepantla Estado de Mexico
Phone: 52-5-310-9863
Fax: 52-5-310-5584

THE NETHERLANDS

Dresser Valves Europe
Steenhouwerstraat 11
3194 AG Hoogvliet, The Netherlands
Phone: +31-10-438-4122
Fax: +31-10-438-4443

RUSSIA

DS Controls
Nekhinskaya Street, 61
Veliky Novgorod
Russia, 173021
Phone: +7-8162-15-7898
Fax: +7-8162-15-7921

Dresser Moscow
Derbenevskaya ulitsa 1
Building 3, Office 17 115114
Moscow, Russia
Phone: +7 495-585-1276
Fax: +7 495-585-1279

SAUDI ARABIA

Dresser AL Rushaid
Valve & Instrument Co., Ltd.
(Darvico)
P.O. Box 10145
Jubail Industrial City 31961,
Saudi Arabia
Phone: +966-3-341-0278
Fax: +966-3-341-7624

SINGAPORE

Dresser Singapore Pte Ltd.
16 Tuas Avenue 8
Singapore 639231
Phone: +65-6-6861-6100
Fax: +65-6-6861-7172

SOUTH AFRICA

Dresser Limited
P.O. Box 2234
16 Edendale Road
Eastleigh, Edenvale 1610
Republic of South Africa
Phone: +27-11-452-1550
Fax: +27-11-452-6542

SOUTH & CENTRAL AMERICA AND THE CARIBBEAN

Dresser Masoneilan
16240 Port Northwest Drive
Houston, TX 77041
Phone: 832-590-2303
Fax: 832-590-2529

SPAIN

Masoneilan S.A.
C/Murcia 39 C
08830 Sant Boi de Llobregat
Barcelona, Spain
Phone: +34-93-652-6430
Fax: +34-93-652-6444

UNITED ARAB EMIRATES

Dresser Flow Solutions
Middle East Operations
P.O. Box 61302
Roundabout 8
Units JA01 & JA02
Jebel Ali Free Zone
Dubai, U. A. E.
Phone: +971-4-8838-752
Fax: +971-4-8838-038

UNITED KINGDOM

DI U.K. Ltd.
East Gillibrands
Skelmersdale,
Lancashire WN8 9TU, England
Phone: +44-1695-52600
Fax: +44-1695-52601

DI U.K. Ltd.

Unit 4, Suite 1.1, Nobel House
Grand Union Office Park
Packet Boat Lane
Uxbridge, Middlesex UB8 2GH
Phone: +44-1895-454-900
Fax: +44-1895-454-919

UNITED STATES

Dresser - Masoneilan
85 Bodwell Street
Avon, MA 02322-1190
Phone: 508-586-4600
Fax: 508-427-8971

Dresser - Masoneilan
4841 Leopard Street
Corpus Christi, TX 78408-2621
Phone: 361-881-8182
Fax: 361-881-8246

Dresser - Masoneilan
Dresser Direct
1250 Hall Court
Deer Park, TX 77536
Phone: 281-884-1000
Fax: 281-884-1010

Dresser Flow Solutions
(Contractor Sales)
16240 Port Northwest Drive
Houston, TX 77041
Phone: 832-590-2303
Fax: 832-590-2529

Dresser - Masoneilan
12015 Mora Drive, Unit 2
Santa Fe Springs, CA 90670
Phone: 562-941-7610
Fax: 562-941-7810



CM36004 SD - 10/06
Paramax® 36004 Series
Control Ball Valve