

Mark 96 Series

Sanitary Pressure Regulators

The Mark 96 Sanitary Pressure Regulator is designed to regulate pressure in systems requiring the maintenance of sanitary conditions.

The Mark 96 operates by sensing pressure under the diaphragm on the downstream side of the seat. As the downstream pressure approaches the set point, the force caused by the pressure acting on the diaphragm overcomes the force of the range spring, and the plug begins to move up toward closed. This reduces the downstream pressure and maintains the set point. If the pressure underneath the diaphragm begins to fall, the spring forces the plug to move down towards open, to allow the set point to be maintained.

FEATURES

- **New!** DIN & ISO Tri-Clamp and tube weld ends - available as options
- **New!** Optional Gauge Port
- CRN Registration Number Available
- Soft seat capability for ANSI Class VI shutoff
- No guiding surfaces in the fluid below the diaphragm in the wetted area. ASME BPE compliant
- 100% 316L barstock body – no wetted parts made from castings
- Self-draining
- Best Accuracy (least droop -set point offset) in the industry. Ask your rep for a MK96 performance calculator demonstration
- Clean-in-Place, Steam-in-Place – dome lock pin to allow CIP/SIP
- Jorlon diaphragm: PTFE based material provides excellent chemical resistance and extremely long life in steam service. Far superior to other elastomer or metal diaphragm materials. *Ask your local Representative for cycle testing information.*

DOCUMENTATION

The following documentation is kept in an electronic data base, and included with each order at no charge:

- Steriflow Unicert - Certificate of Compliance for:
 - Material, including MTR's
 - Surface Finish
 - FDA/USP Class VI

Each Unicert document lists the orders individual valve Serial/Suffix numbers and wetted component Heat numbers. MTR's for each Heat number follow on attached pages. The Serial numbers and Heat numbers are directly traceable to each individual valve.

NEW!

- **Lifting Lug Option.** See Page 6.
- **Aluminum, lightweight spring housing option.** See order codes bottom page 7.

CRN Registration Number Available



APPLICATIONS

A wide variety of applications exist for the MK96 in the pharmaceutical, biotech, health-care, food & beverage and other industries.

AVAILABLE FINISHES

Body:

- *Standard:* 20 Ra µin (0,5 Ra µm) (ASME BPE SF5) mechanical finish and electropolish on inside wetted surfaces; 40 Ra µin (1 Ra µm) and electropolish on exterior.
- *Optional:* 20 Ra µin (0,5 Ra µm) SF5 mechanical finish and electropolish on external surfaces; 8 Ra µin (0,2 Ra µm) finish on internal or external finishes and electropolish (Better than SF4)

Spring Housing:

- *Standard:* machined or investment cast finished 316SST, electropolished
- *Optional:* 20 Ra µin (0,5 Ra µm) mechanical finish and electropolish on external surfaces (SF5). 8 Ra µin (0,2 Ra µm) finish on external surfaces on all sizes and electropolish. (Better than SF4)

Adjusting Screw and Handle:

- Mechanical finish standard
- *Optional:* 20 Ra µin (0,5 Ra µm) mechanical finish and electropolish finish; 8 Ra µin (0,2 Ra µm) finish.

Note: optional finishes apply to handle only, threads cannot be polished

SPECIFICATIONS

Sizes: 3/4", 1", 1-1/2" 2", 3"; DIN DN20, DN25, DN40, DN50, DN80; ISO DN20, DN25, DN40, DN50, DN80

End Connections:

- ASME Tri-Clamp
- ASME Tube Weld Ends
- DIN/ISO Tri-Clamp Conn's to DIN 32676 Row A, B
- DIN/ISO Tube Weld Ends to DIN 11866 Row A, B

Gauge Port: 3/4" ASME BPE Hygienic Tri-clamp

Body Connections: Mark 96 – Bolted – Standard for all sizes

Body & Trim Materials: ASME SA479 316L (UNS 31603) is standard. EN 10272:2000 GR 1.4435, AL-6XN®, Hastelloy®C-22 and others are optional.

Seat Materials:

- Standard hard seat – integral 316L SST seat
- Optional soft seat
 - Jorlon (for Cv 1.5, 3/4" (DN20) size and above) (FDA & USP Class VI) for steam and hot fluid service to 338°F (170°C)
 - Teflon (for Cv 1.5, 3/4" (DN20) size and above) to 252°F (122°C) continuous or 275°F (135°C) intermittent [not to exceed 15 min. in a one hour period] FDA, USP Class VI
 - PEEK (3/4" and above) (FDA & USP Class VI) for steam and hot fluid service to 350° (177°C)

Spring Housing Materials:

- 3/4" - 1" (DN15-DN25):
 - Material: A351 CF8M 316SS Investment casting, if SF5 or better finish required, fabricated 316L
- 1 1/2" - 3" (DN 40 - DN80):
 - Material: Fabricated 316L

Diaphragm Materials:

- Jorlon (to 400°F, 204°C) – FDA, USP Class VI
- 316L SST
- EPDM/Nylon (to 275°F, 135°C), FDA only
- Ultra-thin Jorlon (to 400°F, 204°C), FDA, USP Class VI (for use with 3-8 range spring only)

O-Ring Materials:

- EPDM (to 275°F, 135°C) – FDA, USP Class VI
- Buna-N (to 225°F, 107°C) – FDA
- Viton (to 400°F, 204°C) – FDA, USP Class VI*
- Silicone (to 400°F, 204°C) – FDA, USP Class VI*
- Teflon-Encapsulated Viton (to 400°F, 204°C) – FDA, USP Class VI
- Teflon-Encapsulated Silicone (to 400°F, 204°C) – FDA, USP Class VI (1" - 3" only)

*While rated to exceed normal Clean Steam operating temperatures, Steriflow does not recommend the use of non-encapsulated Viton, or Silicon for continuous clean steam service. Contact the factory if questions.

Shutoff: ANSI Class III hard seat or Class VI soft seat

Body Pressure Temperature Rating: (dependent upon construction)

| Valve Size | PSIG @ 100°F | PSIG @ 450°F |
|------------------------------|----------------|----------------|
| 3/4", 1", DN20, DN25 | 350 (24,1 bar) | 250 (17,2 bar) |
| 1-1/2", 2", 3", DN40, 50, 80 | 200 (13,8 bar) | 200 (13,8 bar) |

Pressure on 1/2", 3/4" & 1" size limited to 225 psig (15,5 bar) @ 100°F and 200 psig (13,8 bar) @ 400°F if using Ultra-thin Jorlon diaphragm.

Note: for 1/2" size, refer to our Mark 96C datasheet

Set Point Spring Ranges:

| Valve Size | Set Point Ranges, PSI (bar) |
|-----------------------|--|
| 3/4" & 1" DN20 & DN25 | 3-8* (0,2-0,5), 5-25 (0,37-1,7), 15-50 (1,0-3,4), 40-90 (2,7-6,2), or 75-135 (5,2-9,3) |
| 1-1/2", DN40 | 10-25 (0,7-1,7), 15-50 (1,0-3,4) or 35-100 (2,4-6,9) |
| 2", DN50 | 10-25 (0,7-1,7) or 15-60 (1,0-4,1) |
| 3", DN80 | 15-25 (1,0-1,7) or 15-60 (1,0-4,1) |

* Range available with elastomer or Ultra-thin Jorlon diaphragm only. Maximum pressure drop 40 psi.

Note: Consult factory for a complete ancillary list of all wetted and non-wetted material specifications

SPECIFICATIONS (CON'T)

Cv (Kv) Ratings:

| Valve Size | Available Cv (Kv) | Cv for Relief Valve Sizing |
|-----------------|---|---|
| 3/4"*** DN20 | 1.5 (1,3) | 1.8 (1,56) |
| 1"*** DN25 | 1.5, 2.5, 4.5, 5.5**, 6.1** (1,3; 2,2; 3,9; 4,7; 5,3) | 1.8, 3, 5.4, 6.6, 7.3 (1,6; 2,7; 4,67; 5,7; 6,4) |
| 1-1/2" DN40 | 4.5 or 10.0 (3,9 or 8,6) | 5.4 (4,67) 12 (10,32) |
| 2" DN50 | 10.0 or 19.0 (8,6 or 16,3) | 12 (10,32) 22.8 (19, 56) |
| 3" DN80 | 10.0 or 23.0 (8,6 or 19,8) | 12 (10,32) 27.6 (23,76) |

| | |
|-----------|---|
| Set Point | 8 |
| | 5 |
| | 3 |

| | |
|----------------------------------|-----|
| Sizing Limit (of rated capacity) | 50% |
| | 33% |
| | 25% |

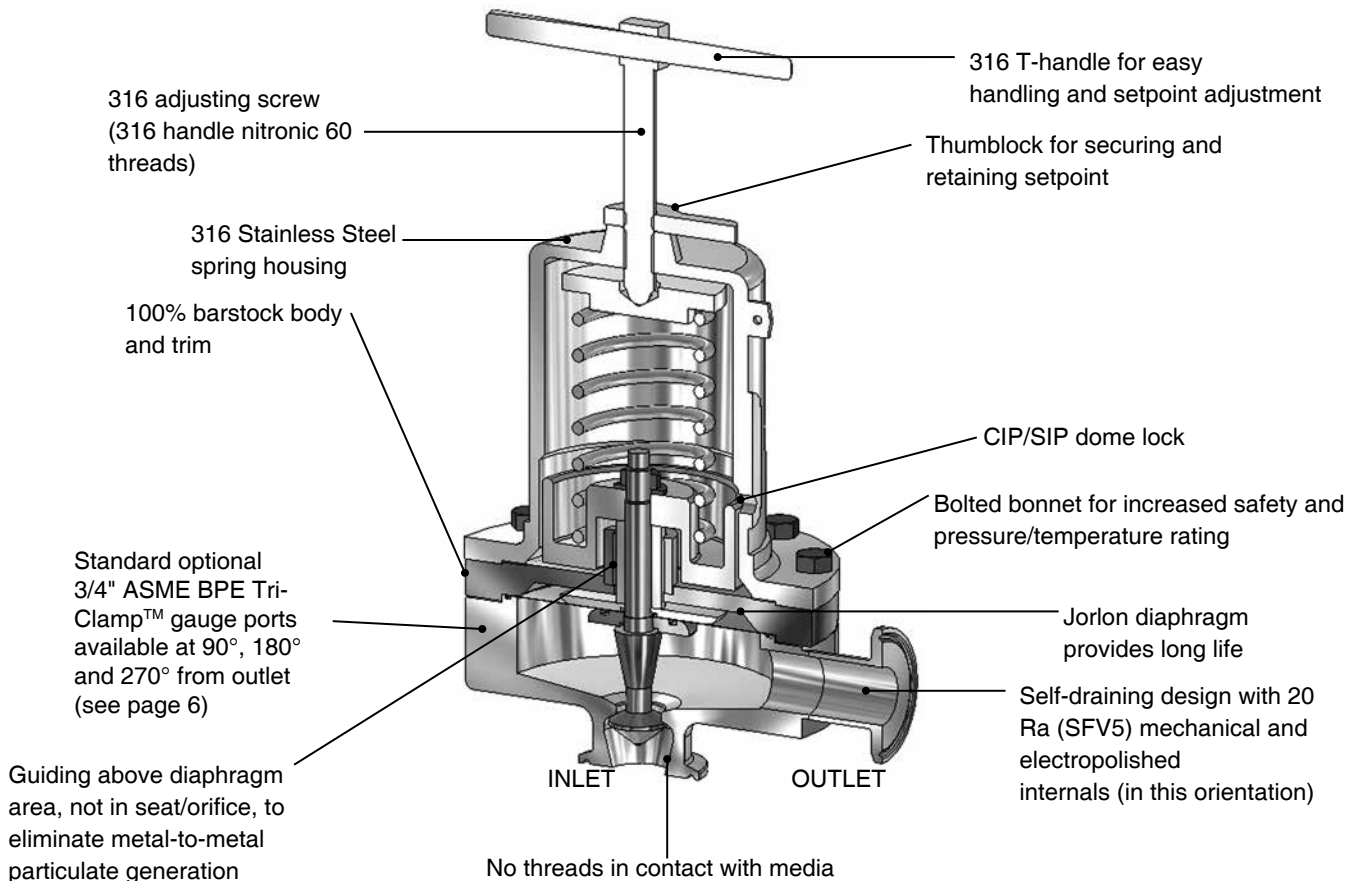
For example, a 1" (DN25) Cv5.5 valve with a 3-8 range spring, if the customer's set point is P2 = 8 psi, then the actual Cv sizing should not exceed 2.75Cv. If the customer's intended set point is P2 = 5 psi, then the actual Cv sizing should not exceed 1.8Cv and if their set point is P2 = 3 psi, then the actual Cv sizing should not exceed 1.38 Cv.

Maximum Allowable Pressure Differential: 200 psi (3-8 spring range has a max of 40 psi)

Note: Steriflow does not recommend using metal seated trim on any service where the flow will be deadheaded downstream of the pressure reducing regulator. Use an appropriate Teflon, Jorlon or Peek soft seat for the trim instead.

- ** Not available with metal diaphragms, Jorlon and other elastomers acceptable
- *** When using the 3-8 range spring the following sizing limits apply:

FEATURES & BENEFITS

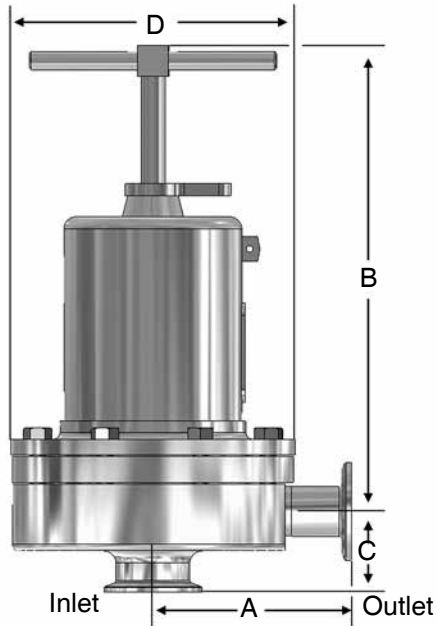


CAPACITY Cv AT VARIOUS DROOP %

| Mark 96 | Set Pressure PSIG (BAR) | Cv % @ Indicated Droop | | | | | Cv for Relief Valve Sizing |
|--|----------------------------|------------------------|-------|-------|-------|-------|-------------------------------|
| | | 5% | 10% | 15% | 20% | 30% | |
| 3/4", DN15 or DN20 1.5 Cv (1,3 Kv) 15 to 50 psi (1,0 - 3,4 bar) range | 15 (1,0) | 0.10 | 0.20 | 0.31 | 0.42 | 0.65 | 1.8 (1,56 Kv) |
| | 20 (1,4) | 0.12 | 0.26 | 0.39 | 0.54 | 0.83 | |
| | 25 (1,7) | 0.15 | 0.31 | 0.47 | 0.64 | 1.01 | |
| | 30 (2,1) | 0.18 | 0.36 | 0.55 | 0.75 | 1.17 | |
| | 35 (2,4) | 0.20 | 0.41 | 0.63 | 0.85 | 1.34 | |
| | 40 (2,8) | 0.22 | 0.46 | 0.70 | 0.96 | 1.50 | |
| | 45 (3,1) | 0.25 | 0.51 | 0.77 | 1.06 | 1.50 | |
| 1", DN25 4.5 Cv (3,9 Kv) 15 to 50 psi (1,0 - 3,4 bar) range | 15 (1,0) | 0.30 | 0.61 | 0.93 | 1.26 | 1.95 | 5.4 (4,67 Kv) |
| | 20 (1,4) | 0.37 | 0.77 | 1.18 | 1.61 | 2.50 | |
| | 25 (1,7) | 0.46 | 0.93 | 1.42 | 1.93 | 3.02 | |
| | 30 (2,1) | 0.53 | 1.08 | 1.65 | 2.25 | 3.52 | |
| | 35 (2,4) | 0.60 | 1.23 | 1.88 | 2.56 | 4.02 | |
| | 40 (2,8) | 0.67 | 1.37 | 2.10 | 2.87 | 4.50 | |
| | 45 (3,1) | 0.74 | 1.52 | 2.32 | 3.18 | 4.50 | |
| 1-1/2", DN40 10 Cv (8,6 Kv) 15 to 50 psi (1,0 - 3,4 bar) range | 15 (1,0) | 0.59 | 1.20 | 1.85 | 2.54 | 4.05 | 12 (10,32 Kv) |
| | 20 (1,4) | 0.66 | 1.36 | 2.10 | 2.91 | 4.68 | |
| | 25 (1,7) | 0.72 | 1.48 | 2.30 | 3.19 | 5.16 | |
| | 30 (2,1) | 0.77 | 1.57 | 2.45 | 3.40 | 5.55 | |
| | 35 (2,4) | 0.80 | 1.65 | 2.57 | 3.58 | 5.86 | |
| | 40 (2,8) | 0.83 | 1.71 | 2.67 | 3.73 | 6.13 | |
| | 45 (3,1) | 0.86 | 1.76 | 2.75 | 3.85 | 6.35 | |
| 2", DN50 19 Cv (16,3 Kv) 15 to 60 psi (1,0 - 4,1 bar) range | 15 (1,0) | 1.89 | 3.85 | 5.84 | 7.87 | 12.02 | 22.8 (19,56 Kv) |
| | 20 (1,4) | 2.66 | 5.40 | 8.19 | 11.04 | 16.88 | |
| | 25 (1,7) | 3.48 | 7.08 | 10.73 | 14.46 | 19.00 | |
| | 30 (2,1) | 4.41 | 8.91 | 13.47 | 18.17 | 19.00 | |
| | 35 (2,4) | 5.37 | 10.92 | 16.52 | 19.00 | | |
| | 40 (2,8) | 6.45 | 13.16 | 19.00 | | | |
| | 45 (3,1) | 7.77 | 15.68 | 19.00 | | | |
| 3", DN80 23 Cv (19,8 Kv) 15 to 60 psi (1,0 - 4,1 bar) range | 15 (1,0) | 4.09 | 6.83 | 9.40 | 11.81 | 16.20 | 27.6 (23,76 Kv) |
| | 20 (1,4) | 5.03 | 8.56 | 11.81 | 14.79 | 20.10 | |
| | 25 (1,7) | 6.31 | 10.99 | 15.23 | 19.11 | 23.00 | |
| | 30 (2,1) | 7.29 | 12.73 | 17.60 | 21.98 | 23.00 | |
| | 35 (2,4) | 8.24 | 14.42 | 19.85 | 23.00 | | |
| | 40 (2,8) | 9.17 | 16.04 | 21.98 | 23.00 | | |
| | 45 (3,1) | 10.09 | 17.60 | 23.00 | | | |
| | 50 (3,4) | 10.99 | 19.11 | 23.00 | | | |
| | 55 (3,8) | 11.87 | 20.57 | 23.00 | | | |
| 60 (4,1) | 12.73 | 21.98 | 23.00 | | | | |

Note: for capacity Cv (Kv) and performance at other conditions, please visit the Technical Library on our website at www.steriflowvalve.com

DIMENSIONS



• ASME Tri-Clamp Ends

| Valve Size | Dimensions (inches) | | | | Weight Lbs |
|------------|---------------------|-------|------|------|------------|
| | A | B | C | D | |
| 3/4" | 3.29 | 8.00 | 1.50 | 5.70 | 18 |
| 1" | 4.00 | 8.00 | 1.64 | 5.70 | 20 |
| 1-1/2" | 4.21 | 10.50 | 2.53 | 7.25 | 40/28.7* |
| 2" | 5.34 | 17.50 | 2.96 | 9.50 | 90/66** |
| 3" | 5.34 | 18.00 | 3.46 | 9.50 | 98 |

• ASME Tri-Clamp Ends, mm

| Valve Size | Dimensions (mm) | | | | Weight Kgs |
|------------|-----------------|-----|------|-------|------------|
| | A | B | C | D | |
| 3/4" | 83,6 | 203 | 38,1 | 144,8 | 8 |
| 1" | 101,6 | 203 | 41,7 | 144,8 | 9 |
| 1-1/2" | 106,9 | 267 | 64,3 | 184,2 | 18/13* |
| 2" | 135,6 | 445 | 75,2 | 241 | 41/30** |
| 3" | 135,6 | 457 | 87,9 | 241 | 44 |

• ASME Tube Weld Ends, inches

| Valve Size | Dimensions (inches) | | | | Weight Lbs |
|------------|---------------------|-------|------|------|------------|
| | A | B | C | D | |
| 3/4" | 3.32 | 8.00 | 1.88 | 5.70 | 18 |
| 1" | 3.34 | 8.00 | 2.18 | 5.70 | 20 |
| 1-1/2" | 4.68 | 10.50 | 3.67 | 7.25 | 40/28.7* |
| 2" | 5.34 | 17.50 | 2.96 | 9.50 | 90/66** |
| 3" | 5.34 | 18.00 | 3.46 | 9.50 | 98 |

• ASME Tube Weld Ends, mm

| Valve Size | Dimensions (mm) | | | | Weight Kgs |
|------------|-----------------|-----|------|-------|------------|
| | A | B | C | D | |
| 3/4" | 84,3 | 203 | 47,8 | 144,8 | 8,2 |
| 1" | 84,8 | 203 | 55,4 | 144,8 | 9,1 |
| 1-1/2" | 118,9 | 267 | 93,2 | 184,2 | 18/13* |
| 2" | 135,6 | 444 | 75,2 | 241 | 41/30** |
| 3" | 135,6 | 457 | 87,9 | 241 | 44 |

• DIN Tri-Clamp Connections to DIN 32676 Row A

| Valve Size | Dimensions (mm) | | | | Weight Kgs |
|------------|-----------------|-------|------|-------|------------|
| | A | B | C | D | |
| 15 | 100,3 | 203,2 | 63,6 | 146,1 | 8,1 |
| 20 | 99,7 | 203,2 | 70,2 | 146,1 | 8,1 |
| 25 | 99,7 | 203,2 | 72,8 | 146,1 | 9,1 |
| 40 | 118,3 | 266,7 | 83,6 | 183,4 | 18/13* |
| 50 | 145,8 | 444,5 | 93,9 | 240,5 | 41/30** |
| 80 | 146,6 | 457,2 | 105 | 240,5 | 44,4 |

• DIN Tube Weld Ends to DIN 11866 Row A

| Valve Size | Dimensions (mm) | | | | Weight Kgs |
|------------|-----------------|-------|------|-------|------------|
| | A | B | C | D | |
| 15 | 93,4 | 203,2 | 56,7 | 146,1 | 8,1 |
| 20 | 92,8 | 203,2 | 63,3 | 146,1 | 8,1 |
| 25 | 92,8 | 203,2 | 65,9 | 146,1 | 9,1 |
| 40 | 111,4 | 266,7 | 76,7 | 183,4 | 18/13* |
| 50 | 138,9 | 444,5 | 87 | 240,5 | 41/30** |
| 80 | 139,7 | 457,2 | 98,1 | 240,5 | 44,4 |

• ISO Tri-Clamp Connections to DIN 32676 Row B

| Valve Size | Dimensions (mm) | | | | Weight Kgs |
|------------|-----------------|-------|------|-------|------------|
| | A | B | C | D | |
| 15 | 92,1 | 203,2 | 62,5 | 146,1 | 8,1 |
| 20 | 92,1 | 203,2 | 62,5 | 146,1 | 8,1 |
| 25 | 92,1 | 203,2 | 65,3 | 146,1 | 9,1 |
| 40 | 110,6 | 266,7 | 76,8 | 183,4 | 18/13* |
| 50 | 138,2 | 444,5 | 93,9 | 240,5 | 41/30** |
| 80 | 138,9 | 457,2 | 96,8 | 240,5 | 44,4 |

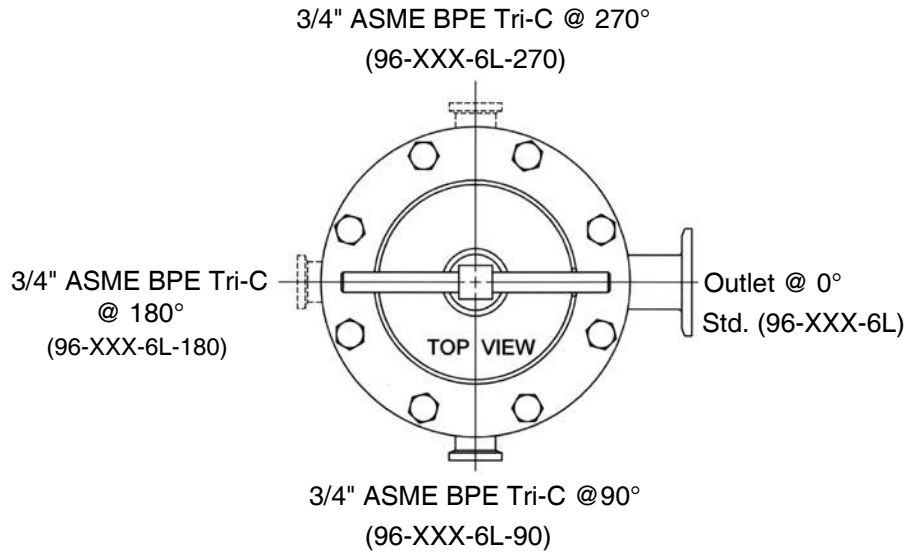
• ISO Tube Weld Ends to DIN 11866 Row B

| Valve Size | Dimensions (mm) | | | | Weight Kgs |
|------------|-----------------|-------|------|-------|------------|
| | A | B | C | D | |
| 15 | 92,1 | 203,2 | 62,5 | 146,1 | 8,1 |
| 20 | 92,1 | 203,2 | 62,5 | 146,1 | 8,1 |
| 25 | 92,2 | 203,2 | 65,3 | 146,1 | 9,1 |
| 40 | 110,6 | 266,7 | 76,8 | 183,4 | 18/13* |
| 50 | 138,2 | 444,5 | 93,9 | 240,5 | 41/30** |
| 80 | 138,9 | 457,2 | 96,8 | 240,5 | 44,4 |

* 40 lbs (18,1 kgs) std; 28.7 lbs (13 kgs) with aluminum spring housing

** 90 lbs (40,7 kgs) std; 66 lbs (33 kgs) with aluminum spring housing

GAUGE PORT CONFIGURATION OPTIONS



LIFTING LUG OPTION



Optional lifting lugs available for the 1-1/2", 2" and 3" to ease installation. See order codes for space 11 and 12 at bottom of page 7.

SAMPLE SPECIFICATION

Stainless steel sanitary pressure regulator shall be made from ASME-SA479 316L barstock material, which includes body and all wetted metal parts. Regulator shall be activated by FDA approved, USP Class VI certified Jorlon diaphragm. Guiding of valve stem/plug shall be outside of the wetted, process areas of valve internal, above the diaphragm only. Regulator shall be free of threads or crevices within wetted, process areas of valve internal and shall be self draining when installed with inlet vertical and below valve assembly.

ORDERING SCHEMATIC

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|-------|-------|-------|-------|--------|---------|---------|
| | | | | | | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 |
|--|--|--|--|--|--|--|-------|-------|-------|-------|--------|---------|---------|

| | Model |
|------|---|
| 96 | ASME BPE Tri-Clamp Connections |
| 96T | ASME BPE Tube Weld Ends |
| 96D | DIN Tri-Clamp Conn's to DIN 32676 Row A |
| 96DT | DIN Tube Weld Ends to DIN 11866 Row A |
| 96S | ISO Tri-clamp Conn's to DIN 32676 Row B |
| 96ST | ISO Tube Weld Ends to DIN 11866 Row B |

| 2 | Body Cv (Kv) See chart on page 2 | |
|---|----------------------------------|-----------|
| A | 1.5 | 1,3 |
| D | 2.5 | 2,2 |
| H | 4.5 | 3,9 |
| K | 5.5 & 6.1 | 4,7 & 5,3 |
| M | 10.0 | 8,6 |
| N | 19.0 | 16,3 |
| P | 23.0 | 19,8 |

| | Size |
|------|--|
| 075 | 3/4" |
| 100 | 1" |
| 150 | 1-1/2" |
| 200 | 2" |
| 300 | 3" |
| 15 | DN15 |
| 15N* | DN15 Non-standard Clamp Face (MK96D or MK96S only) |
| 20 | DN20 |
| 20N* | DN20 Non-standard Clamp Face (MK96D only) |
| 25 | DN25 |
| 40 | DN40 |
| 50 | DN50 |
| 80 | DN80 |

| 3 | Trim Finish |
|---|-----------------|
| A | 20Ra (Standard) |
| B | 8Ra |

* DIN or ISO tri-clamp face not conforming to DIN standard 32676. State face size as noted on P.O.

| | Material |
|----|-----------------------------|
| 6L | ASME SA479 316L (UNS 31603) |
| 6E | EN 10272:2000 GR 1.4435 |

| 4 | Trim | |
|----|--------------------|-------------------------|
| | Cv & Seat | Available in Valve Size |
| A | Cv 1.5 Hard Seat | 075 - 100 |
| 1 | Cv 1.5 Teflon Seat | 075 - 100 |
| 2 | Cv 1.5 Jorlon Seat | 075 - 100 |
| 9 | Cv 1.5 Peek Seat | 075 - 100 |
| B | Cv 2.5 Hard Seat | 100 |
| C | Cv 2.5 Teflon Seat | 100 |
| D | Cv 2.5 Jorlon Seat | 100 |
| 5 | Cv 2.5 Peek Seat | 100 |
| H | Cv 4.5 Hard Seat | 100 - 150 |
| J | Cv 4.5 Teflon Seat | 100 - 150 |
| K | Cv 4.5 Jorlon Seat | 100 - 150 |
| 6 | Cv 4.5 Peek Seat | 100 - 150 |
| L | Cv 5.5 Hard Seat | 100 |
| M | Cv 5.5 Teflon Seat | 100 |
| N | Cv 5.5 Jorlon Seat | 100 |
| 8 | Cv 5.5 Peek Seat | 100 |
| 7 | Cv 6.1 Hard Seat | 100 |
| E | Cv 6.1 Teflon Seat | 100 |
| G | Cv 6.1 Jorlon Seat | 100 |
| F | Cv 6.1 Peek Seat | 100 |
| P | Cv 10 Hard Seat | 150 - 300 |
| Q | Cv 10 Teflon Seat | 150 - 300 |
| R | Cv 10 Jorlon Seat | 150 - 300 |
| 3 | Cv 10 Peek Seat | 150 - 300 |
| S | Cv 19 Hard Seat | 200 |
| T | Cv 19 Teflon Seat | 200 |
| U | Cv 19 Jorlon Seat | 200 |
| 4 | Cv 19 Peek Seat | 200 |
| V | Cv 23 Hard Seat | 300 |
| W | Cv 23 Teflon Seat | 300 |
| X | Cv 23 Jorlon Seat | 300 |
| Y | Cv 23 Peek Seat | 300 |
| ZZ | Non-Standard | |

| | Body Configuration- Standard or Gauge Port* |
|-----|--|
| | Standard - no gauge port. Leave blank |
| 90 | 3/4" ASME BPE Tri-Clamp gauge fitting @ 90° |
| 180 | 3/4" ASME BPE Tri-Clamp gauge fitting @ 180° |
| 270 | 3/4" ASME BPE Tri-Clamp gauge fitting @ 270° |

*Note: See Page 6 for Description of Gauge Ports

| 1 | Body Finish |
|---|--|
| A | 20Ra (SFV5) Interior/40Ra Exterior (Std) |
| B | 20Ra (SFV5) Interior/20Ra Exterior |
| C | 8Ra Interior/40Ra Exterior* |
| D | 20Ra (SFV5) Interior/8Ra Exterior |
| E | 8Ra Interior/8Ra Exterior* |
| F | 8Ra Interior/20Ra Exterior* |

* Handle and all external surfaces meet spec per above. The adjusting screw is a threaded part and cannot be polished beyond 20Ra

ORDERING SCHEMATIC, CONT.

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|---|-------|-------|-------|-------|--------|---------|---------|
| | | | | | | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 |
| | | | | | | / | | | | | | | |

| 5 & 6 | O-Ring/Diaphragm |
|-------|---|
| BU | Buna-N/SST Diaphragm |
| EE | EPDM/EPDM Diaphragm |
| EP | EPDM/SST Diaphragm |
| SL | Silicone/SST Diaphragm |
| TS | Teflon Encaps. Silicone/SST Diaphragm (1" - 3" only)* |
| TY | Teflon Encaps. Viton/Jorlon Diaphragm |
| TV | Teflon Encaps. Viton/SST Diaphragm |
| VT | Viton/SST Diaphragm |

| 9 & 10 | Diaphragm |
|--------|----------------------------------|
| 6L | SST (all exterior) |
| EP | EPDM (all exterior) |
| JL | Jorlon (all exterior) |
| UJ | Ultra-thin Jorlon (all exterior) |

* See note on Page 2

| 11 & 12 | Actuator Finish/Type |
|---------|---|
| AA | Standard |
| BA | 20Ra (SFV5) exterior |
| CA | 8Ra exterior |
| DA | Electro-polished for 2" & 3" |
| EA | Aluminum Light Weight (1-1/2", 2", 3") |
| FA | Standard w/ lifting lugs (1-1/2", 2", 3") |

| 7 | Adjusting Screw Finish (Except Threads) |
|---|---|
| A | Electro-polished (Standard) |
| B | 20Ra (SFV5) |
| C | 8Ra |

| 13 & 14 | PED Compliance |
|---------|--------------------------------|
| 00 | Not required |
| 0G | SEP (3/4" - 1") |
| 0F | CE Category 1 (1-1/2", 2", 3") |

| 8 | Range PSI (Bar) Refer to chart on Pg 2. | Sizes |
|---|--|---------|
| A | 3 - 8 (0.2 - 0.6)* | 075-100 |
| C | 5 - 25 (0.3 - 1.7) | 075-100 |
| E | 10 - 25 (0.7 - 1.7) | 150-200 |
| P | 15 - 25 (1.0 - 1.7) | 300 |
| H | 15 - 50 (1.0 - 3.4) | 075-150 |
| J | 15 - 60 (1.0 - 4.1) | 200-300 |
| M | 35 - 100 (2.4 - 6.9) | 150 |
| R | 40 - 90 (2.8 - 6.2) | 075-100 |
| T | 75 - 135 (5.2 - 9.3) | 075-100 |

* Must use EPDM or Ultra-thin Jorlon diaphragm



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