Mark 908X Series

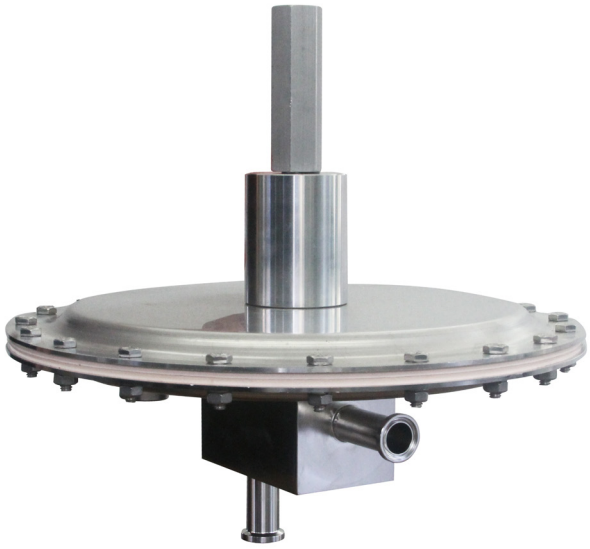
1/2" - 3/4" Low Pressure Blanketing (Gas overlay) PRV for small Stainless and SUD vessels

The Mark 908X Series regulator was designed specifically to provide accurate pressure control on very low pressure vessel blanketing in stainless steel and single use systems. The Mark 908X responds to very small changes in tank pressure by throttling open or closed to maintain the desired pressure set point.

- All 316L barstock construction
- FDA and USP Class VI Compliant elastomers and fluoropolymers
- Direct Operated
- Fully Balanced Plug
- Accurate regulation down to 1/2" wc (1.25 mbar)
- ANSI Class VI Shutoff
- Two available spring ranges and mulitple low Cv's
- 200 psi maximum inlet pressure
- Three Cv's (Kv's): 0.15, 0.2, 0.4 (0,13, 0,17, 0,35)
- Ultra Lightweight Diaphragm for Maximum Sensitivity

Optional Features

- Inlet Gauges: 0-100, 0-200
- Purge Feature
- Optional High Alloys Available
- Optional End Connections Available
- Outlet Check Valve
- O^2 or Oil Free Cleaning



Application:

Pressure reducing valves for regulating very low flow, low pressure clean compressed air and gas point of use applications in stainless steel and *single use disposable vessels* for the Biopharmaceutical, Pharmaceutical, Food & Beverage and Consumer Health & Beauty industries:

- Stainless steel bioreactor/fermenter: very low pressure sparge and purge/blanket/motive force gas regulation
- Single use disposable bioreactor/fermenter: very low pressure sparge and purge/blanket/motive force or integrity testing gas regulation
- Separation: Purge/blanket/motive force gas regulation and bag integritytesting for process vessels
- Purification: Purge/blanket/motive force gas regulation and bag integritytesting for process vessels
- Formulation: Purge/blanket/motive force gas regulation and bag integrity testing for process vessels
- F & B Consumer H & B process purge/blanket/motive force gas regulation

Pressure Regulators

Mark 908X Blanketing Regulators

STERIFLOW
a division of Jordan Valve

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SPECIFICATIONS

Sizes:
- 1/2” – 3/4” (DN15 – DN20)

End Connections:
- ASME BPE Tri-Clamp - standard
- DIN or ISO Tri-Clamp - optional
- FNPT - optional
- ANSI & DIN Flanges - optional

Body Materials:
- ASTM A479 316L Stainless Steel
- Other Materials Available on Application

Spring Housing:
- 316 Stainless Steel

Diaphragm:
- Ultra Lightweight Dupont™ Kapton® HN, Polyimide (FDA and USP Class VI compliant)

Seats, O-rings and Balance Diaphragm:
- Viton (FDA compliant), EPDM (FDA and USP Class VI compliant)

Gaskets:
- PTFE (FDA and USP Class VI)

Shutoff:
- ANSI Class VI

Available Spring Ranges
- 0.5 – 5.5 wc (1.24 - 13.69 mbar)
- 4 – 10 wc (9.95 - 24.88 mbar)

Max Operating Inlet Pressure:
- 200 psig (13,79 barg)

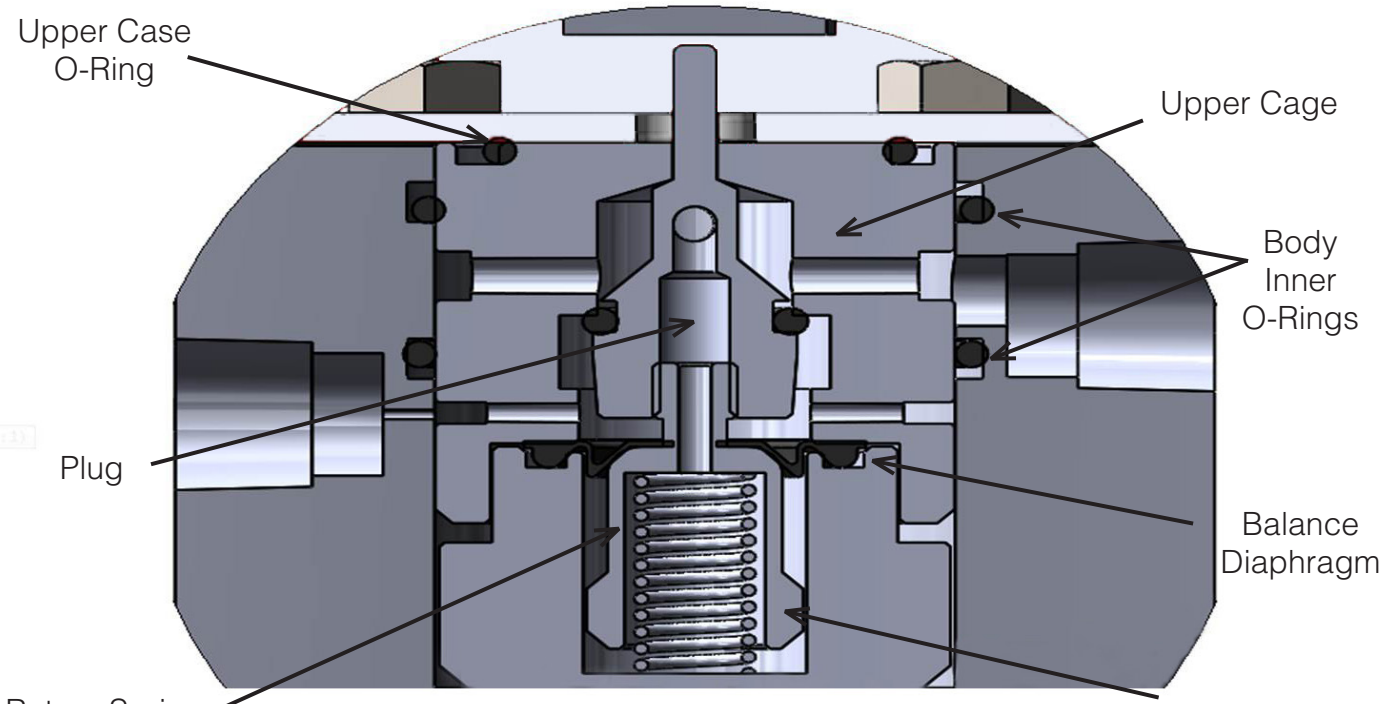
Max Differential Pressure:
- 200 psig (13,79 barg)

Max Downstream Pressure (Safety Rating):
- 20 psig (1,38 barg)

Max Operating Temperature:
- 250°F (121.1°C)

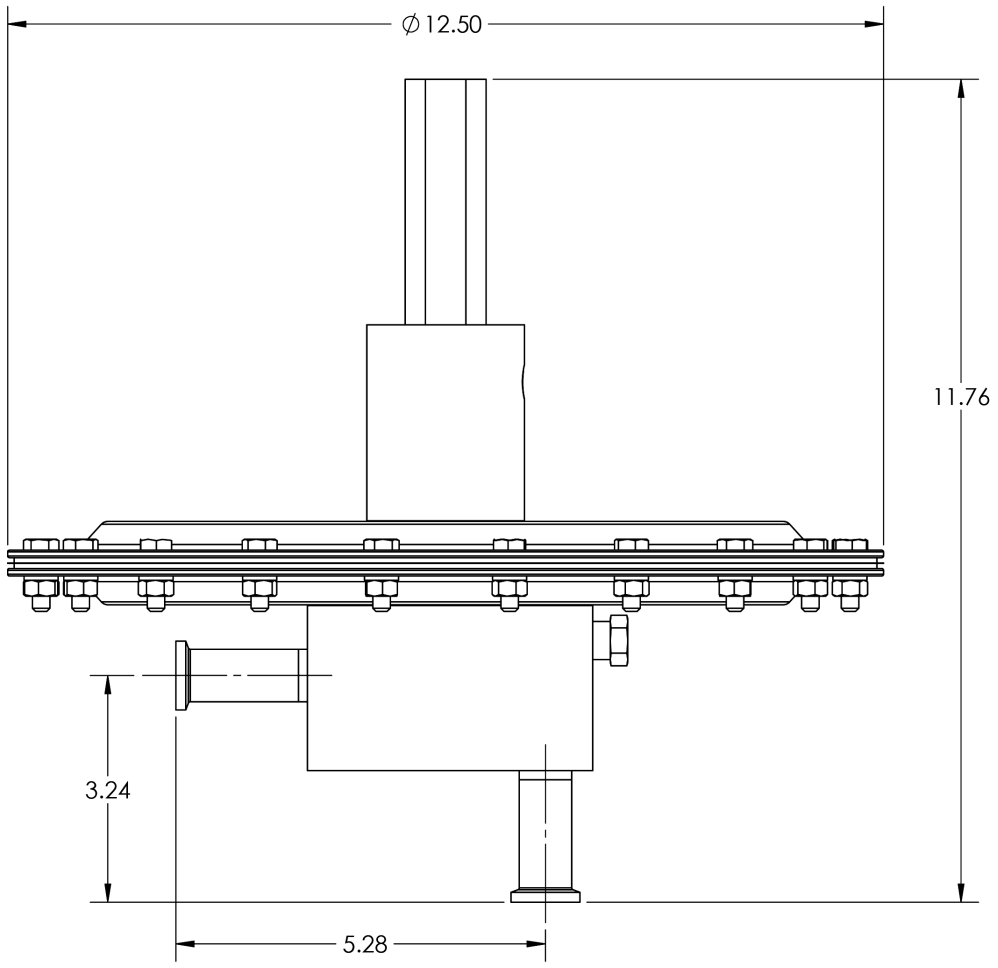
Weight (with Tri-Clamp ends):
- 20 lbs (9.1kg)

Surface Finish:
- Internal Wetted Parts 20 Raμin (.5Raμm) electropolished
- External Wetted Parts 40 Raμin (1.0 Raμm)
- Other Finishes Upon Request



Plug Assembly

DIMENSIONS



Sizing and Cv Selection Instructions

For blanketing applications:

1. Adjust the flow rate requirements given to you from the tank owner, by following the API 2000 vessel blanketing guidelines in our document I&M section (if not already completed by the owner).
2. Select a MK908X Cv (.15, .2, or.4) by using the "Globe" sizing in our SFCV sizing software for calculated Cv's ≥ .2, and the "Low Flow" sizing for calculated Cv's ≤ .2. Select a valve Cv so that the calculated Cv does not exceed 90% of that value.

For applications other than vessel blanketing (low flow/low pressure gas line regulation, Single use disposable bag inflation, sparging, etc):

1. Select the Cv by using the "Globe" sizing in our sizing software SFCV for calculated Cv's ≥ .2, and the "Low Flow" sizing for calculated Cv's ≤ 2. Select a valve Cv so that the calculated Cv does not exceed 90% of that value.

ORDERING SCHEMATIC

						1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12
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	Model
908X	ASME BPE Tri-Clamp Connections

	Size
050	1/2"
075	3/4"

	Material
SB	Stainless Steel (SA479)
ZZ	Non-Standard

1 & 2	End Connections & Cv		
C	Tri-C	A	0.15
		B	0.20
		C	0.40
ZZ	Non-Standard		

3 & 4	Seat & O-Ring
V1	Viton
EP	EPDM
ZZ	Non-Standard

5 & 6	Press Switch
AA	Not Req'd
ZZ	Non-Standard

7 & 8	Range
A7	0.5 - 5.5" W.C.
A8	4 - 10" W.C.
ZZ	Non-Standard

9 & 10	Actuator
S1	Standard
ZZ	Non-Standard

11 & 12	Accessory
G1	Inlet Gauge 0-100
G2	Inlet Gauge 0-200
P1	Purge System
ZZ	Non- Standard

Note: Integral outlet gauges are not recommended on low flow / low pressure regulators. We recommend gauge installation 6 pipe diameters minimum downstream of the valve per ISA guidelines.

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