



SINGLE STAGE DIAPHRAGM SENSED GENERAL PURPOSE *Pressure Reducing Regulators*

2500 SERIES

PREMIER INDUSTRIES

1590 99th Ln NE,
Minneapolis, MN 55449
763-786-4020



MADE IN THE USA

Minneapolis, MN

DESCRIPTION

Premier 2500 Series pressure reducing regulators are single stage, diaphragm sensed, general purpose cylinder and line regulators. Premier 2500 Series regulators are versatile, available with: multiple body diameters, materials, porting configurations, and many optional items (pressure relief valves, shut off valves etc). Models are available for both corrosive and non-corrosive service, fitted with your choice of stainless steel or neoprene diaphragm. Premier 2500 Series regulators feature a 15 micron valve cartridge filter, 3500 PSIG max inlet pressure, and Cv 0.08 or 0.20.

FEATURES

- Compact size with optional body diameters of 1.5", and 1.98"
- Optional stainless steel diaphragm minimizes inboard diffusion of air into regulator (neoprene diaphragm also available)
- Reduced particle contamination with 15 micron valve cartridge filter
- 3500 PSIG (241.3 bar) max inlet pressure
- Cv 0.08 or 0.20
- Optional integral needle style shut off valve
- Optional low profile hand knob
- Machined bar stock body, bonnet, and piston eliminates porosity found in castings

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SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:** 3500 PSIG (241.3 bar)
- **CONTROL PRESSURE RANGES:**
 - 0-10 PSIG (0 - 0.69 bar)
 - 0-25 PSIG (0 - 1.72 bar)
 - 0-50 PSIG (0 - 3.45 bar)
 - 0-100 PSIG (0 - 6.89 bar)
 - 0-250 PSIG (0 - 17.24 bar)
 - 0-500 PSIG (0 - 34.47 bar)
- **FLOW (Cv):** 0.08, or 0.20

MATERIALS OF CONSTRUCTION

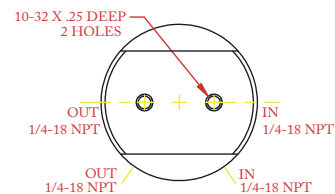
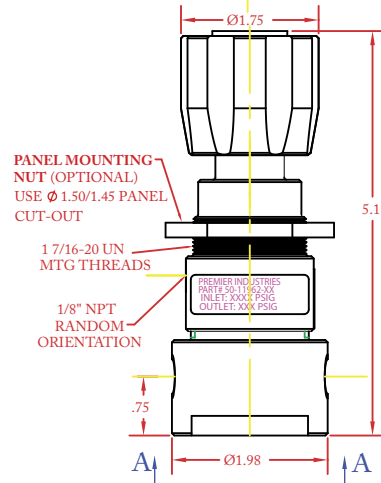
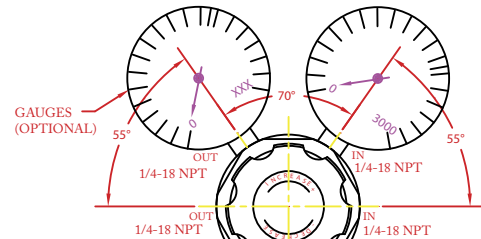
- **BODY OPTIONS:**
 - *Body diameters:* 1.5" and 1.98"
 - 316 Stainless Steel
 - SAE 360 Brass
 - SAE 360 Brass/Nickel Plated
 - 6061-T6 Aluminum
 - Monel®
- **BONNET OPTIONS:**
 - SAE 360 Brass
 - SAE 360 Brass/Nickel Plated
 - 6061-T6 Aluminum/Gold Anodize
 - Captured 6061-T6 Aluminum/Nickel Plated
- **DIAPHRAGM OPTIONS:**
 - Neoprene
 - 316 Stainless Steel
 - Elgiloy® (*Monel® body option*)
- **DIAPHRAGM SEAL:** PTFE
- **VALVE SEAT:** PTFE

PORTING

- **INLET/OUTLET OPTIONS**
 - 1/8 FNPT
 - 1/4-18 NPT (*on 1.98" diameter bodies*)
 - SAE 1926-4 (*on 1.98" diameter bodies*)

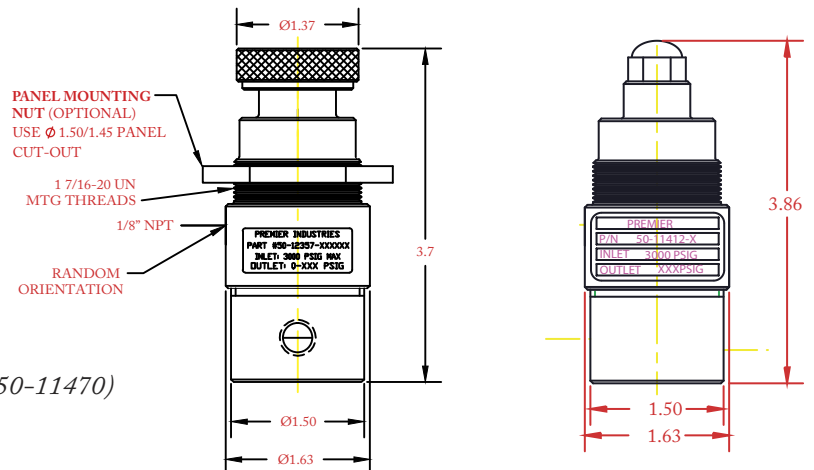
OPTIONS

- Gauges
- Integral shut off valve (P/N: 50-12619)
- Private label
- Panel mounting nut(s) (P/N: 50-10240)
- Pressure relief valves
- CGA connections
- Dome loaded design (P/N: 50-11789)
- Ø1.98 diameter body without mounting holes (P/N: 50-11470)



VIEW A-A

(Part number 50-11962 above)



(Part number 50-12357 shown above)

(Part number 50-11412 shown above w/ acorn nut)



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














Ø1.98 BODY WITH MOUNTING HOLES

PART #	-	1	2	3	4	5	6	7	8
50-11962	-								

1	BODY MATERIAL & FINISH
2	316 Stainless Steel, cleaned per spec #515
3	6061-T6 Aluminum, Clear Anodized
5	SAE 360 Brass, Nickel Plated
6	Monel®, (Elgiloy® diaphragm) cleaned per spec #515
8	SAE 360 Brass, Bright Dip
2	DIAPHRAGM MATERIAL
Blank	316 Stainless Steel Diaphragm
N	Neoprene diaphragm
3	OUTLET PRESSURE (outlet gauge range, if supplied)
0	0 - 10 PSIG / 0 - 0.69 bar (per application)
1	0 - 25 PSIG / 0 - 1.72 bar (0-60 PSIG gauge)
2	0 - 50 PSIG / 0 - 3.45 bar (0-100 PSIG gauge)
3	0 - 100 PSIG / 0 - 6.89 bar (0-160 PSIG gauge)
4	0 - 250 PSIG / 0 - 17.24 bar (0-400 PSIG gauge) (Stainless steel diaphragm only)
5	0 - 500 PSIG / 0 - 34.47 bar (Stainless steel diaphragm only)

4	GAUGES
Blank	no gauges (standard)
A	2" diameter, inlet only, stainless steel wetted gauge
B	2" diameter, outlet only, stainless steel wetted gauges
C	2" diameter, inlet & outlet, stainless steel wetted gauges
D	2" diameter, inlet only, brass wetted gauges
E	2" diameter, outlet only, brass wetted gauges
F	2" diameter, inlet & outlet, brass wetted gauges
H	2" diameter, outlet only, brass wetted/chrome plated gauges
J	2" diameter inlet & outlet brass wetted/chrome plated gauges
5	PANEL MOUNTING NUT (optional)
5	Mounting nut
8	No nut (standard)

6	PORTING OPTIONS
Blank	 (Standard)
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	

7	PORT TYPE
Blank	NPT (1/4")
2	SAE J1926-4 (1/4")
8	MAIN VALVE Cv
Blank	Cv 0.08 (Standard)
Y	Cv 0.20 without filter (Hydraulic)
Z	Cv 0.20

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Elgiloy® is a registered trademark of Elgiloy Special Metals Division, Combined Metals of Chicago L.L.C



**SINGLE STAGE
DIAPHRAGM SENSED
GENERAL PURPOSE**
Pressure Reducing Regulators



Ø1.5 BODY WITHOUT MOUNTING HOLES

PART #	-	1	2	3	4	5	6	7	8
50-12357	-								

1	BODY MATERIAL & FINISH
2	316 Stainless Steel, cleaned per spec #515
3	6061-T6 Aluminum, Clear Anodized
5	SAE 360 Brass, Nickel Plated
8	SAE 360 Brass, Bright Dip
2	DIAPHRAGM MATERIAL
Blank	316 Stainless Steel Diaphragm
N	Neoprene diaphragm
3	OUTLET PRESSURE (outlet gauge range, if supplied)
0	0 - 10 PSIG / 0 - 0.69 bar (per application)
1	0 - 25 PSIG / 0 - 1.72 bar (0-60 PSIG gauge)
2	0 - 50 PSIG / 0 - 3.45 bar (0-100 PSIG gauge)
3	0 - 100 PSIG / 0 - 6.89 bar (0-160 PSIG gauge)
4	0 - 250 PSIG / 0 - 17.24 bar (0-400 PSIG gauge) (Stainless steel diaphragm only)
5	0 - 500 PSIG / 0 - 34.47 bar (Stainless steel diaphragm only)

4	GAUGES
Blank	no gauges (standard)
A	1.5" diameter, inlet only, stainless steel wetted gauge
B	1.5" diameter, outlet only, stainless steel wetted gauges
C	1.5" diameter, inlet & outlet, stainless steel wetted gauges
D	1.5" diameter, inlet only, brass wetted gauges
E	1.5" diameter, outlet only, brass wetted gauges
F	1.5" diameter, inlet & outlet, brass wetted gauges
H	1.5" diameter, outlet only, brass wetted/ chrome plated gauges
J	1.5" diameter inlet & outlet brass wetted/ chrome plated gauges
5	PANEL MOUNTING NUT (optional)
5	Mounting nut
8	No nut (standard)

6	PORTING OPTIONS
Blank	
A	
M	
C	
7	MAIN VALVE Cv
Blank	Cv 0.08 (Standard)
Z	Cv 0.20
8	OPERATOR
Blank	Adjustable handknob (Standard)
AN	Preset outlet pressure (locked w/ acorn nut)

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Contact factory for material certifications. Fees may apply.