



## HIGH FLOW PISTON SENSED *Pressure Reducing Regulators*



### PREMIER INDUSTRIES

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



**MADE IN THE USA**  
*Minneapolis, MN*

### DESCRIPTION

Premier 5050 Series, single stage, high flow, piston sensed, pressure reducing regulators, designed for inlet pressures up to 1000 PSIG (68.95 bar) and Cv 5.0.

### FEATURES

- Flow capacity (Cv): 5.0
- 1000 PSIG (68.95 bar) max inlet pressure
- Balanced stem for increased outlet pressure stability
- Piston sensed
- Optional preset outlet pressure
- Non-venting & self venting designs available
- Economical pricing
- Compact size
- Machined bar stock body eliminates porosity found in castings

*The Premier 5050 Series pressure reducing regulator's design is remarkably flexible.  
Contact Premier Industries for a custom 5050 Series regulator to meet your exact needs.*

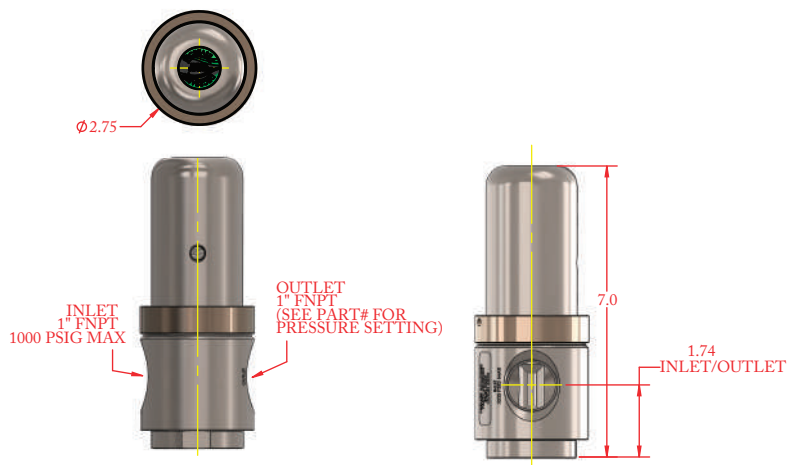
# 5050 SERIES

## HIGH FLOW PISTON SENSED Pressure Reducing Regulators



### SPECIFICATIONS

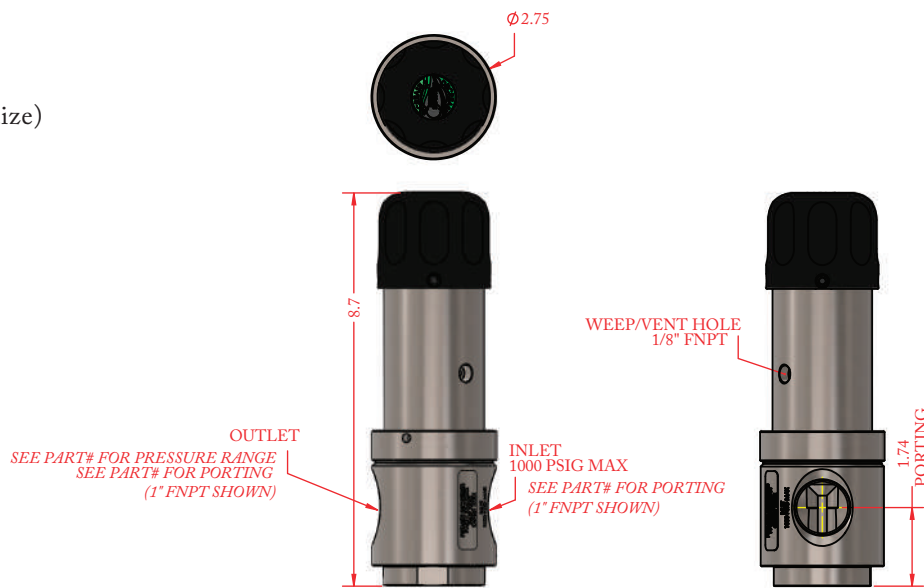
- **MAXIMUM INLET PRESSURE:** 1000 psig (68.95 bar)
- **PRESET OUTLET PRESSURE (50-12560):**
  - 100 psig (6.89 bar) max
- **OUTLET PRESSURE RANGE (50-12860 & 50-13144)**
  - 0-25 psig (0-1.72 bar)
  - 0-50 psig (0-3.45 bar)
  - 0-100 psig (0-6.89 bar)
  - 0-150 psig (0-10.34 bar)
  - 0-200 psig (0-13.79 bar)
  - 0-350 psig (0-24.13 bar) *P/N 50-12680 only*
- **FLOW (Cv):** 5.0



(Part number: 50-12560 shown above)

### MATERIALS OF CONSTRUCTION

- **BODY MATERIAL OPTIONS:**
  - 303 Stainless Steel
  - 316 Stainless Steel
  - 6061-T6 Aluminum (Clear Anodize)
  - Monel 400® (50-12560 only)
- **MAIN VALVE SEAT OPTIONS:**
  - Buna-n
  - Viton®
- **O-RING SEAL OPTIONS:**
  - Buna-n
  - Viton®



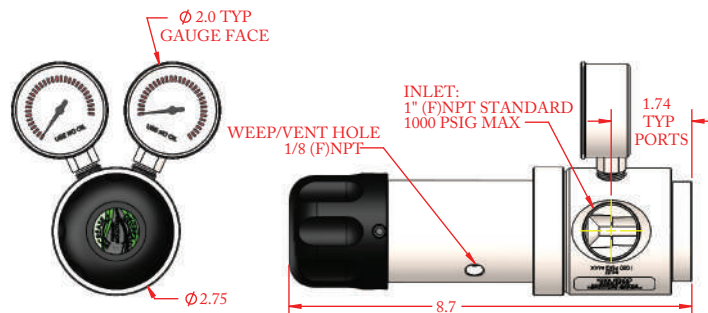
(Part numbers: 50-12860 / 50-13144 shown above)

### PORTING

- **INLET OPTIONS:**
  - 1" FNPT
  - 3/4" FNPT
- **OUTLET OPTIONS:**
  - 1" FNPT
  - 3/4" FNPT

### OPTIONS

- Private labeling



(Part numbers: 50-12860 / 50-13144 shown above)

Viton® is a registered trademark of E.I. duPont de Nemours and Company

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

Monel® is a registered trademark of Special Metals Corporation



**HIGH FLOW  
PISTON SENSED**  
*Pressure Reducing Regulators*



**PRESET OUTLET PRESSURE, NON-VENTING**

PART #	-	1	2	-	XXX	-	MODS
50-12560	-			-		-	

1	BODY / PROCESS WETTED COMPONENT MATERIALS
1	303 Stainless Steel Body / 316 Stainless Steel Valve Spring
2	316 Stainless Steel Body / 316 Stainless Steel Valve Spring
3	Monel 400® Body Elgiloy® valve & load springs*
4	Aluminum, Clear Anodize/ 316 Stainless Steel Valve Spring & 300 Series main valve components
*NON-STANDARD NON-WETTED COMPONENTS USED FOR MONEL CONFIGURATION LOAD SPRING IS ELGILOY AND ALL OTHER NON-WETTED COMPONENTS ARE 316SS	
2	SEALS / SEAT MATERIAL
1	Buna-n
2	Viton®

PRESET OUTLET PRESSURE	
Specify preset outlet pressure setting in "XXX" psig. 100 psig maximum setting.  <i>(Examples, use "025" for 25 psig outlet setting, "075" is 75 psig outlet setting)</i>	
Outlet setting will be made at maximum rated inlet pressure unless specified otherwise when ordered.	
MODIFICATIONS (Include all applicable)	
BLANK	Standard porting/ no gauges
A	3/4 FNPT process ports
B	Include gauge ports (1/4 FNPT) / no gauges
C	Include gauge ports with gauges installed

Viton® is a registered trademark of E.I.duPont de Nemours and Company  
 Elgiloy® is a registered trademark of Elgiloy Special Metals Division, Combined Metals of Chicago L.L.C  
 Monel® is a registered trademark of E.I.duPont de Nemours and Company



# HIGH FLOW PISTON SENSED *Pressure Reducing Regulators*



## HAND LOADED, NON-VENTING

PART #	-	1	2	-	3	4	-	5
50-12860	-			-			-	

1	BODY / BONNET /BACK CAP MATERIAL / FINISH
1	303 Stainless Steel, <i>Cleaned per PI #515</i>
2	316 Stainless Steel, <i>Cleaned per PI #515</i>
3	6061-T6 Aluminum, <i>Clear Anodize</i>
2	SEAT AND SEAL MATERIAL
1	Buna-n
2	Viton®
3	PORTING
1	
2	
3	

4	GAUGES
0	No gauges
1	Include gauges <i>(not available on S/S* porting)</i>
5	OUTLET PRESSURE RANGE
1	0-25 PSIG (0-1.72 bar)
2	0-50 PSIG (0-3.45 bar)
3	0-100 PSIG (0-6.89 bar)
4	0-150 PSIG (0-10.34 bar)
5	0-200 PSIG (0-13.79 bar)
6	0-350 PSIG (0-24.13 bar)

Viton® is a registered trademark of E.I.duPont de Nemours and Company  
 Elgiloy® is a registered trademark of Elgiloy Special Metals Division, Combined Metals of Chicago L.L.C  
 Monel® is a registered trademark of E.I.duPont de Nemours and Company




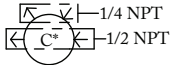


# HIGH FLOW PISTON SENSED Pressure Reducing Regulators



## HAND LOADED, SELF VENTING

PART #	-	1	2	-	3	4	-	5
50-13144	-			-			-	

1	BODY / BONNET /BACK CAP MATERIAL / FINISH
1	303 Stainless Steel, <i>Cleaned per PI #515</i>
2	316 Stainless Steel, <i>Cleaned per PI #515</i>
3	6061-T6 Aluminum, <i>Clear Anodize</i>
2	SEAT AND SEAL MATERIAL
1	Buna-n
2	Viton®
3	PORTING
1	
2	 3/4 NPT
3	 1/4 NPT
4	 1/4 NPT 1/2 NPT <i>(DERATE TO Cv 3.5)</i>

4	GAUGES
0	No gauges
1	Include gauges <i>(not available on S/S* porting)</i>
5	OUTLET PRESSURE RANGE
1	0-25 PSIG (0-1.72 bar)
2	0-50 PSIG (0-3.45 bar)
3	0-100 PSIG (0-6.89 bar)
4	0-150 PSIG (0-10.34 bar)
5	0-200 PSIG (0-13.79 bar)