

2800N SERIES

High Flow, Diaphragm Sensed
Pressure Reducing Regulators



Premier 2800N Series regulators are high flow, single stage, pressure reducing regulators with a balanced stem for increased outlet pressure stability. These diaphragm sensed, high flow regulators are designed for inlet pressures up to 3000 PSIG (*206.84 bar*), and Cv 1.0 or 2.0. Premier 2800N Series regulators are used to regulate to a broad range of non corrosive and corrosive media (based on materials of construction).

FEATURES

- Significantly reduced supply pressure effect / increased stability in outlet pressure
- Flow capacity (Cv): 1.0, or 2.0
- Neoprene or Viton® diaphragm (*fabric reinforced*)
- Non-venting
- Machined bar stock body eliminates porosity found in castings
- Very competitive pricing

SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.
CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION
OR A CUSTOM DESIGN.

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SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 3000 PSIG (206.84 bar)
- **CONTROL PRESSURE RANGES:**
 - 0-10 PSIG (0 - 0.69 bar)
 - 0-15 PSIG (0 - 1.03 bar)
 - 0-40 PSIG (0 - 2.76 bar)
 - 0-100 PSIG (0 - 6.89 bar)
 - 0-150 PSIG (0 - 10.34 bar)
- **FLOW (Cv):** 1.0, or 2.0

MATERIALS OF CONSTRUCTION

- **BODY:**
 - SAE 360 Brass
 - 6061-T6 Aluminum, Clear Anodize
 - 303 Stainless Steel
- **BONNET:**
 - 6061-T6 Aluminum, Clear Anodize
- **DIAPHRAGM:**
 - Neoprene (*fabric reinforced*)
 - Viton® (*fabric reinforced*)
- **DIAPHRAGM SEALS:**
 - Neoprene
 - Viton®
- **MAIN VALVE SEAT:**
 - PCTFE
- **RELIEF VALVE (OPTIONAL):**
 - Brass with silicone seal

PORTING

- **INLET:**
 - 1/2" FNPT
 - 1/2" SAE AS5202 (3.00" body diameter)
 - 3/4" FNPT
- **OUTLET: (1 or 2 outlets)**
 - 1/2" FNPT
 - 1/2" SAE AS5202 (3.00" body diameter)
 - 3/4" FNPT
- **GAUGE PORTS:**
 - 1/4 FNPT

OPTIONS

- Gauges
- Relief Valve
- Private Label
- Panel Mounting Nut(s) (1 or 2)
(P/N: 50-11355, order separately)

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Contact factory for material certifications. Fees may apply.

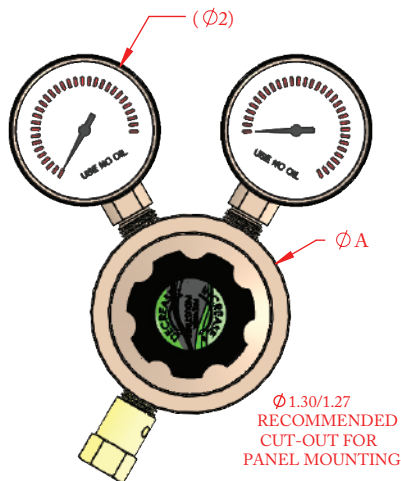
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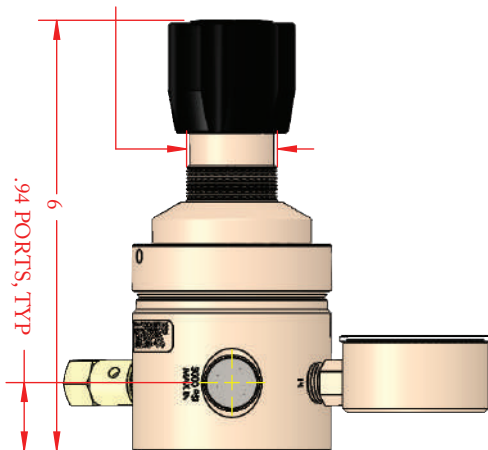
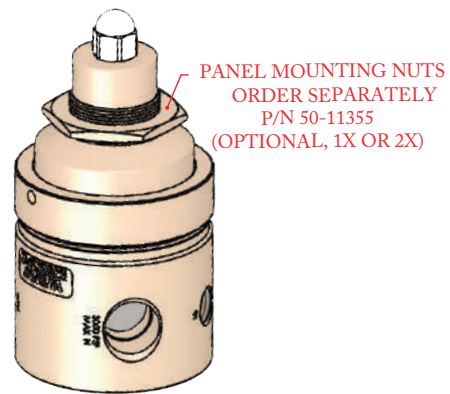
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PART NUMBER: 50-12056-3X-X2-XX-02

with tamper resistant acorn nut



OPTIONAL RELIEF
VALVE SHOWN



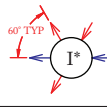
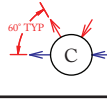

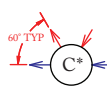
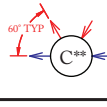


PORTING CONFIG	DIM ϕA
I*, C, C*, S	2.75"
C**	3.00"

PART #	-	1	2	-	3	4	-	5	6	-	7	8
50-12056	-			-			-			-		

1	BODY MATERIAL & FINISH
1	SAE 360 Brass, cleaned per spec #515
3	6061-T6 Aluminum, Clear Anodize
4	303 Stainless Steel, cleaned per spec #515
2	DIAPHRAGM / SEALS
1	Neoprene
2	Viton®
3	MAIN VALVE SEAT
1	PCTFE

CAUTION: NEVER EXCEED THE MAXIMUM OUTLET PRESSURE SPECIFIED BY THE PART NUMBER

Contact factory for material certifications. Fees may apply.

4	RELIEF VALVE / PORTING
1	 Relief valve included, 1/4 FNPT ports (red) 1/2 FNPT ports (blue) "I*" porting
2	 No relief valve, 1/4 FNPT ports (red) 1/2 FNPT ports (blue) "C" porting
3	 No relief valve, 3/4 FNPT ports "S" porting
4	 No relief valve, 1/4 FNPT ports (red) 3/4 FNPT ports (blue) "C*" porting
5	 No relief valve, 1/4 FNPT ports (red) 1/2 SAE AS5202 ports (blue) "C**" porting
6	 No relief valve, 1/2 SAE AS5202 ports (blue) "S*" porting
7	 No relief valve, 1/4 FNPT ports (red) 1/2 FNPT ports (blue) "L" porting
5	OUTLET PRESSURE
1	0-10 PSIG / 0-0.69 bar
2	0-15 PSIG / 0-1.03 bar
3	0-40 PSIG / 0-2.76 bar
4	0-100 PSIG / 0-6.89 bar
5	0-150 PSIG / 0-10.34 bar
6	0-25 PSIG / 1.72 bar

6	MAIN VALVE Cv
1	Cv 1.0
2	Cv 2.0
7	GAUGES
0	None
1	Include Ø2.0" gauges
8	HAND KNOB / ACORN NUT (PRESET)
1	Hand knob
2	Preset outlet ** (TAMPER RESISTANT ACORN NUT)
MODIFICATIONS	
BLANK	None
B	Stainless steel bonnet load spring and collar
1	150# flange

****TAMPER RESISTANT ACORN NUT**

THE END USER IS RESPONSIBLE TO SPECIFY A PRESET OUTLET PRESSURE. IF AN OUTLET PRESSURE IS NOT SPECIFIED, THE PRESSURE WILL BE LEFT UNSET. NEVER EXCEED THE MAXIMUM OUTLET PRESSURE SPECIFIED ON THE PART NUMBER.