



HIGH PRESSURE, 15000 PSIG HYDRAULIC AIR LOADED *Pressure Reducing Regulators*



PREMIER INDUSTRIES

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Minneapolis, MN 55449
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MADE IN THE USA
Minneapolis, MN

DESCRIPTION

The high pressure, hydraulic, air loaded, Premier 6023AL Series pressure reducing regulators are single stage, piston sensed, pressure reducing regulators, designed for inlet and outlet pressures up to 15000 PSIG (*1034.21 bar*) and Cv 0.06, 0.12, or 0.20.

Premier 6023AL Series Regulators are designed for compatibility with electro-pneumatic controllers, enabling piloted pressure control from an inert gas at low pressures (*100 psig / 6.89 bar max air load*).

Premier 6023AL Series regulators are used to regulate a broad range of non-corrosive and corrosive media (based on materials of construction). Captured venting is standard.

FEATURES

- Compatible with electro-pneumatic controllers
- 15000 PSIG (*1034.21 bar*) max
- Captured venting
- Cv 0.06, 0.12, 0.20
- Numerous optional features
- Economical pricing
- Machined bar stock body, bonnet and piston eliminates porosity found in castings



HIGH PRESSURE, 15000 PSIG HYDRAULIC AIR LOADED Pressure Reducing Regulators



SPECIFICATIONS

- **MAX INLET PRESSURE:**
 - REGULATOR: 15000 PSIG / 1034.21 bar (*stainless steel*)
 - AIR ACTUATOR: 100 PSIG (6.89 bar)
- **CONTROL PRESSURE RANGES:**
 - 10-1500 PSIG (0.69 - 103.42 bar)
 - Diameter: 1.000"
 - Area: 0.7854 in²
 - Ratio: 1⁶/₁ **
 - 15-2500 PSIG (1.03 - 172.37 bar)
 - Diameter: 0.750"
 - Area: 0.4418 in²
 - Ratio: 2⁸/₁ **
 - 50-6000 PSIG (3.45 - 413.69 bar)
 - Diameter: 0.500"
 - Area: 0.1964 in²
 - Ratio: 6⁴/₁ **
 - 100-10000 PSIG (6.89 - 689.5 bar)
 - Diameter: 0.375"
 - Area: 0.1104 in²
 - Ratio: 11⁴/₁ **
 - 300-15000 PSIG (20.68 - 1034.21 bar)
 - Diameter: 0.312"
 - Area: 0.0765 in²
 - Ratio: 16⁴/₁ **

** 4.0" diameter diaphragm
Diaphragm area: 12.5664 in²

- **FLOW (Cv):** 0.06, 0.12, 0.20
- **VENT VALVE Cv:** 0.06
- **OPERATING TEMPERATURE:**
 - -15°F/-26°C to 212°F/100°C (BUNA-N)
 - -4°F/-20°C to 212°F/100°C (VITON®)
 - -65°F/-54°C to 212°F/100°C (EPDM)
 - 15°F/-9°C to 212°F/100°C (AFLAS)

MATERIALS OF CONSTRUCTION

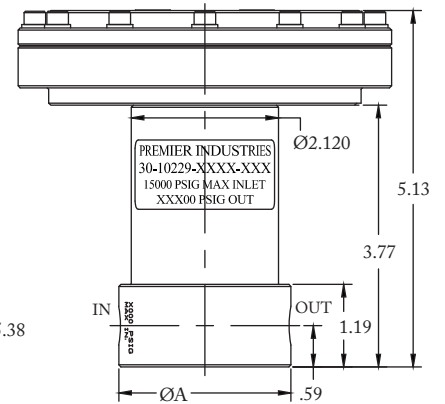
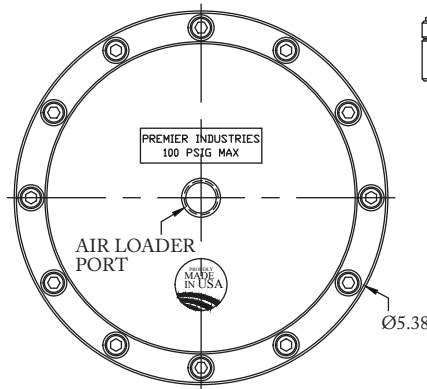
- **BODY:**
 - 316 Stainless Steel
- **HOUSING, AIR ACTUATOR:**
 - 6061-T6 Aluminum, Clear Anodized
- **DIAPHRAGM, AIR ACTUATOR:**
 - Neoprene, nylon reinforced
- **WETTED PARTS, OTHER:**
 - 316 Stainless Steel
 - 17-4 Stainless Steel
- **BACK-UP RINGS:** PTFE, PCTFE
- **MAIN VALVE SEAT/VENT VALVE SEAT OPTIONS:**
 - 17-4 Stainless Steel, hardened (*standard*)
 - Vespel®
- **MAIN/VENT VALVE STEM:**
 - 17-4 Stainless Steel, hardened

PORTING

- **INLET/OUTLET PORTING OPTIONS:**
 - 1/4", 3/8" FNPT (*standard*)
 - 1/4", 3/8", 9/16" Medium Pressure
 - 1/4", 3/8" High Pressure
- **VENT PORT:** 1/4" inlet/outlet port type
- **LOAD PORT:**
 - 1/4" NPT (*standard*)
 - 1/4" SAE AS5202
 - 1/4" SAE J1926
 - 1/8" NPT

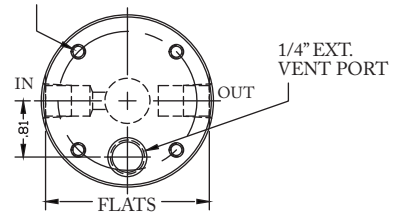
OPTIONS

- Gauges
- Private label
- Panel mounting bracket: P/N: 30-10059 (Ø2.15 panel hole)



#10-32 UNF X .38 DP
SURFACE MOUNT
(OPTIONAL)

Surface mounting holes:
Pattern dependent on
port size, type, and
configuration.



(Part number: 30-10229 shown above)

PORT TYPE	ØA	FLATS
NPT	Ø2.48	—
1/4" OTHER	Ø2.48	2.36
3/8" M.P.	Ø2.98	2.81
1/2" H.P.	Ø3.23	2.98
9/16" M.P.	Ø3.23	2.98



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PART #	-	1	2	3	4	-	5 6	7	-	MODS
30-10229	-					-			-	

1	OUTLET PRESSURE	
3	10-1500 PSIG 0.69-103.4 Bar	Diameter: 1.000" Area: 0.7854 in ² Ratio: 1 ⁶ / ₁ **
4	15-2500 PSIG 1.0-172.4 Bar	Diameter: 0.750" Area: 0.4418 in ² Ratio: 2 ⁸ / ₁ **
6	50-6000 PSIG 3.4-413.7 Bar	Diameter: 0.500" Area: 0.1964 in ² Ratio: 6 ⁴ / ₁ **
7	100-10000 PSIG 6.9-689.5 Bar (stainless steel only)	Diameter: 0.375" Area: 0.1104 in ² Ratio: 1 ¹⁴ / ₁ **
8	300-15000 PSIG 20.68-1034.21 Bar (stainless steel only)	Diameter: 0.312" Area: 0.0765 in ² Ratio: 1 ⁶⁴ / ₁ **
** 4.0" diameter diaphragm Diaphragm area: 12.5664 in ²		

2	PORTING CONFIGURATION
A	
L	
C	
S	
E	
3	PORT SIZE
4	1/4"
6	3/8"
9	9/16" ^{**} (Only available in medium pressure)
4	PORT TYPE (1/4" vent port)
1	FNPT
4	Medium Pressure
5	High Pressure

5 6	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON-A®
05	EPDM
11	KALREZ® (contact factory for pricing)
7	Cv MAIN VALVE (Valve seat material)
0	Cv 0.06 (VESPEL®)
1	Cv 0.12 (VESPEL®)
5	Cv 0.06 (17-4 STAINLESS STEEL)
6	Cv 0.12 (17-4 STAINLESS STEEL)
7	Cv 0.20 (17-4 STAINLESS STEEL)
MODIFICATIONS Separate multiple mods with a dash	
BLANK	None
AS	1/4" SAE AS5202 LOADER PORT
E	1/8" NPT AIR LOADER PORT
J	1/4" SAE J1926 LOADERPORT
SM	SURFACE MOUNT

15000 PSIG MAX INLET

The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing.

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Contact factory for material certifications. Fees may apply.