

6025AL SERIES

Air Loaded, High Pressure, Hydraulic, 20000 PSIG
Pressure Reducing Regulators



The Premier 6025AL Series air-loaded, single-stage, piston-sensed hydraulic pressure reducing regulators are rated for inlet and outlet pressures up to 20000 PSIG (1378.95 bar) and are available with Cv options of 0.06, 0.12, or 0.30 to meet a range of flow requirements.

A hardened stainless steel seat ensures long service life and captured venting allows any vented media to be safely routed away through external piping.

The 6025AL Series delivers reliable pressure control for demanding hydraulic and high-pressure applications.

FEATURES

- Rated for pressures up to 20000 PSIG (1378.95 bar)
- Compatible with electro-pneumatic controllers
- Flow capacity (Cv): 0.06, 0.12, or 0.30
- Durable hardened stainless steel seat provides long service life.
- Captured venting
- Very competitive pricing
- Machined bar stock body, bonnet and piston eliminates porosity found in castings

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

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 20000 PSIG (1378.95 bar)
- **MAXIMUM LOAD PRESSURE:**
 - 100 PSIG (6.89 bar)
- **OUTLET PRESSURE RANGE:**
 - 300 - 3000 psig (20.68 - 206.84 bar)
 - Diameter: 0.656"
 - Area: 0.338 in²
 - Ratio: 1²²/₁ **
 - 600 - 6000 psig (41.37 - 413.69 bar)
 - Diameter: 0.462"
 - Area: 0.1676 in²
 - Ratio: 7⁵/₁ **
 - 950-10000 PSIG (65.50 - 689.48 bar)
 - Diameter: 0.362"
 - Area: 0.1029 in²
 - Ratio: 1²²/₁ **
 - 1450-15000 PSIG (99.97 - 1034.21 bar)
 - Diameter: 0.313"
 - Area: 0.0769 in²
 - Ratio: 1⁶³/₁ **
 - 2000-20000 PSIG (137.90 - 1378.95 bar)
 - Diameter: 0.25"
 - Area: 0.0491 in²
 - Ratio: 2⁵⁶/₁ **

** 4.0" diameter diaphragm
Diaphragm area: 12.5664 in²

- **FLOW (Cv):** 0.06, 0.12, or 0.30
- **OPERATING TEMPERATURE:**
 - -15°F/-26°C to 165°F/74°C (BUNA-N)
 - -4°F/-20°C to 165°F/74°C (VITON®)
 - -65°F/-54°C to 165°F/74°C (EPDM)

**lower temperature compounds available upon request

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PEEK® is a trademark of Victrex PLC
Krytox® is a registered trademark of The Chemours Company FC, LLC.

Contact factory for material certifications. Fees may apply.

MATERIALS OF CONSTRUCTION

- **WETTED PARTS, OTHER:**
 - 316 Stainless Steel
 - 17-4 Stainless Steel
- **VALVES:**
 - 17-4 Stainless Steel, hardened
- **HOUSING, AIR ACTUATOR:**
 - 6061-T6 Aluminum, Clear Anodized
- **DIAPHRAGM, AIR ACTUATOR:**
 - Neoprene, Nylon Fabric Reinforced
- **O-RING OPTIONS:**
 - BUNA-N
 - AFLAS®
 - Viton®
 - EPDM
 - FFKM (Contact Premier for pricing)
- **BACK-UP RINGS: PCTFE & PEEK®**
- **VALVE SEAT:**
 - 17-4 Stainless Steel, hardened
- **STANDARD LUBRICATION:**
 - Krytox® GPL 206

PORTING

- **INLET / OUTLET / VENT PORTING OPTIONS :**
 - 1/4" Medium Pressure, High Pressure
 - 3/8" Medium Pressure, High Pressure
 - 9/16" Medium Pressure, High Pressure
- **LOAD PORT:** 1/4" FNPT standard
see mods on pg. 3 for other load port options

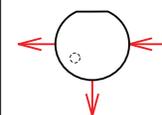
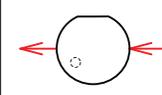
OPTIONAL ITEMS

- Private label
- Panel mounting bracket: P/N: 30-10500
(2.53 in panel hole)

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PART #:	-	1	2	3	4	5	-	6 7	-	MODS
30-10215AL	-						-		-	

1	OUTLET PRESSURE
3	300 - 3000 psig (20.68 - 206.84 bar)
6	600 - 6000 psig (41.37 - 413.69 bar)
7	950 - 10000 psig (65.50 - 689.48 bar)
8	1450 - 15000 psig (99.97-1034.21 bar)
9	2000 - 20000 psig (137.90-1378.95 bar)
2	FLOW (Cv)
0	Cv 0.06
1	Cv 0.12
3	Cv 0.30
3	PORTING CONFIG.
B	
S	

4	PORT SIZE (IN/OUT)
4	1/4"
6	3/8"
9	9/16"
<i>VENT PORT: 1/4" inlet/outlet port type</i>	
<i>LOAD PORT: 1/4" FNPT standard, see mods for additional load port options.</i>	
5	PORT TYPE (IN/OUT/VENT)
4	Medium pressure
5	High pressure
6 7	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON®
05	EPDM
11	FFKM <i>(Contact Premier for pricing)</i>

MODIFICATIONS	
BLANK	NONE
AC	KRYTOX 240AC
AS	1/4 AS5202 LOADER PORT
E	1/8 NPT LOADER PORT
J	1/4 SAE J1926 LOADER PORT
MK	H2O SERVICE W/ RESISTANT GREASE
SM	SURFACE MOUNT

**20000 PSIG MAX INLET
(STAINLESS STEEL)**

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

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