

3000AL SERIES

Air Loaded, High Pressure
Pressure Reducing Regulators



The Premier 3000AL Series air loaded, piston sensed, single stage, high pressure, pressure reducing regulators features inlet and outlet pressures up to 10000 PSIG (689.48 bar), and Cv 0.06, 0.12, 0.20, or 0.30. Premier 3000AL Series regulators are designed for increased serviceability and reliable operation with the integral 15 micron stainless steel valve cartridge filter. They are used to regulate to a broad range of non-corrosive and corrosive media (based on materials of construction).

FEATURES

- 15 micron sintered 316 stainless steel inlet filter
- Compatible with electro pneumatic controllers
- Captured venting
- Very competitive pricing
- Machined bar stock body, bonnet and piston eliminates porosity found in castings
- Numerous optional features are available.
- Hydraulic versions available

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

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - **REGULATOR:**
 - 10000 PSIG / 689.5 bar (*stainless steel*)
 - 6000 PSIG / 413.69 bar (*brass*)
 - **AIR ACTUATOR:** 100 PSIG (6.89 bar)
 - **OUTLET PRESSURE RANGES:**
 - 6-600 psig (0.41-41.37 bar)
P/N 30-11070
Diameter: 1.50"
Area: 1.77 in²
Ratio: $\frac{7}{1}$ **
 - 10-1500 PSIG (0.69 - 103.42 bar)
P/N 30-10219G
Diameter: 1.000"
Area: 0.7854 in²
Ratio: $\frac{16}{1}$ **
 - 15-2500 PSIG (1.03 - 172.37 bar)
P/N 30-10219G
Diameter: 0.750"
Area: 0.4418 in²
Ratio: $\frac{28}{1}$ **
 - 25-3000 psig (1.7 - 206.8 bar)
P/N 30-10219G
Diameter: 0.684"
Area: 0.3675 in²
Ratio: $\frac{34}{1}$ **
 - 50-6000 PSIG (3.45 - 413.69 bar)
P/N 30-10219G
Diameter: 0.500"
Area: 0.1964 in²
Ratio: $\frac{64}{1}$ **
 - 100-10000 PSIG (6.89 - 689.5 bar)
P/N 30-10219G
Diameter: 0.375"
Area: 0.1104 in²
Ratio: $\frac{114}{1}$ **
- ** 4.0" diameter diaphragm
Diaphragm area: 12.5664 in²**
- **FLOW (Cv):** 0.06, 0.12, 0.20, 0.30
 - **AMBIENT OPERATING TEMPERATURES:***
 - -4°F/-20°C to 212°F/100°C (Viton®)
 - -15°F/-26°C to 212°F/100°C (BUNA-N)

**Lower temperature compounds are available, Above temperature ranges will apply to the majority of media for which the material is recommended. Temperature ranges can vary with some media, ALWAYS TEST UNDER SERVICE CONDITIONS.*

MATERIALS OF CONSTRUCTION

- **BODY:** SAE 360 brass or 316 Stainless Steel
- **BONNET:** (*non-wetted*) 303 Stainless Steel
- **HOUSING, AIR ACTUATOR:**
 - 6061-T6 Aluminum/clear anodized
- **DIAPHRAGM, AIR ACTUATOR:**
 - Neoprene, nylon fabric-reinforced
- **MAIN VALVE STEM:** 17-4 Stainless Steel (hardened)
- **MAIN VALVE SEAT:** Vespel®
- **VENT VALVE SEAT:** Vespel®
- **ELASTOMER SEALS:**
 - BUNA-N
 - AFLAS®
 - Viton-A®
 - EPDM
 - Polyurethane
 - FFKM (*Contact Premier for pricing*)
- **OTHER WETTED PARTS:**
 - 316 Stainless Steel
 - 17-4 Stainless Steel
- **STANDARD LUBRICANT:** Krytox® GPL 206

PORTING

- **INLET/OUTLET PORT OPTIONS**
 - 1/4", 3/8", 1/2" FNPT
 - 1/4", 3/8", 1/2" SAE J1926
 - 1/4", 3/8", 1/2" SAE AS5202
 - 1/4", 3/8", 9/16" Medium Pressure
 - 1/4", 3/8", High Pressure
- **AIR ACTUATOR PORT OPTIONS:**
 - 1/8" FNPT
 - 1/4" SAE AS5202
 - 1/4" SAE J1926
- **VENT:** 1/4" (inlet/outlet port type)

OPTIONAL ITEMS

- Non-venting design
- Panel mounting bracket: P/N: 30-10059 (Ø2.15 panel hole)
- NACE MR0175 compatible design
- Private label

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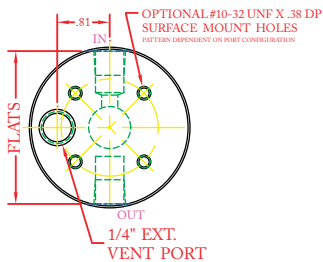
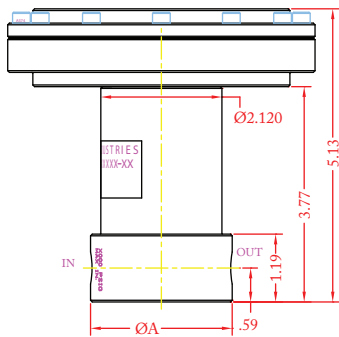
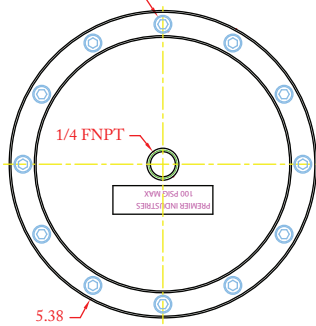
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AFLAS® is a registered trademark of the Asahi Glass Co., Ltd.

Contact factory for material certifications. Fees may apply.

PART NUMBER: 30-10219G

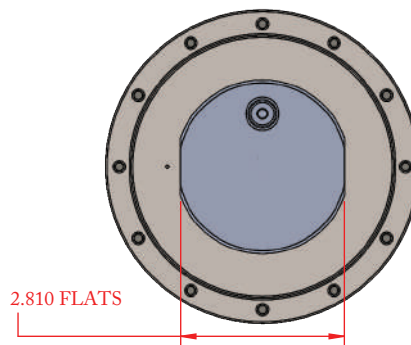
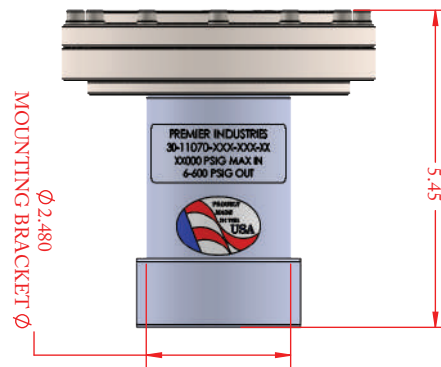
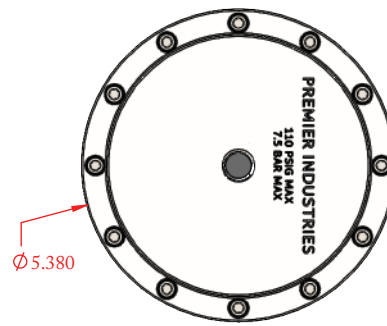
#10-32 UNF-3A X 3/4"
SHCS ASTM A574 12X



PORT TYPE	ØA	FLATS
NPT	Ø2.48	—
1/4" J1926, M.P., H.P.	Ø2.48	2.36
1/4" AS5202	Ø2.98	2.81
3/8" SAE, M.P., H.P.	Ø2.98	2.81
1/2" SAE	Ø3.23	2.98
9/16" M.P.	Ø3.23	2.98

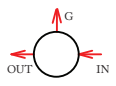
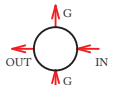
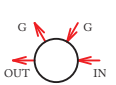
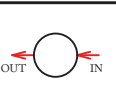
3/8" & larger 'L' configuration bodies require a larger ØA

PART NUMBER: 30-11070



SERIES	1	-	2	3	4	5	6	-	7 8	-	MODS
30-10219G		-						-		-	

1	BODY MATERIALS (MAX. INLET PRESSURE)	
B	SAE 360 Brass (6000 psig / 413.7 bar)	
BLANK	316 Stainless Steel (10000 psig / 689.5 bar)	
2	OUTLET PRESSURE	
3	10-1500 psig (0.69-103.4 bar)	Diameter: 1.000" Area: 0.7854 in ² Ratio: $\frac{16}{1}$ *
4	15-2500 psig (1.0-172.4 bar)	Diameter: 0.750" Area: 0.4418 in ² Ratio: $\frac{28}{1}$ *
6	50-6000 psig (3.4-413.7 bar)	Diameter: 0.500" Area: 0.1964 in ² Ratio: $\frac{64}{1}$ *
7	100-10000 psig (6.9-689.5 bar) (stainless steel only)	Diameter: 0.375" Area: 0.1104 in ² Ratio: $\frac{114}{1}$ *
8	25-3000 psig (1.7-206.8 bar)	Diameter: 0.684" Area: 0.3675 in ² Ratio: $\frac{34}{1}$ *
* 4.0" diameter diaphragm DIAPHRAGM AREA: 12.5664 in ²		
3	FLOW (Cv) SEAT MATERIAL	
0	Cv 0.06	Vespel SP-1
1	Cv 0.12	Vespel SP-1
2	Cv 0.20	Vespel SCP-5000
3	Cv 0.30	Vespel SCP-5000
VENT VALVE: Cv 0.06		

4	PORTING CONFIG.
A	
L	
C	
S	
5	PORT SIZE (INLET/OUTLET)
4	1/4"
6	3/8"
8	1/2"
9	9/16"
1/2" ports not available in medium pressure or high pressure *9/16" ports only available in medium pressure	
GAUGE PORTS: 1/4" FNPT VENT PORT: 1/4" inlet/outlet port type	

10000 PSIG MAX INLET (STAINLESS STEEL)
6000 PSIG MAX INLET (BRASS)
The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing.

Contact factory for material certifications.
Fees may apply.

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AFLAS® is a registered trademark of the Asahi Glass Co., Ltd.

6	PORT TYPE (INLET/OUTLET/VENT)
1	FNPT
2	SAE J1926
3	SAE AS5202
4	Medium pressure
5	High pressure
7 8	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON-A®
05	EPDM
08	POLYURETHANE
11	FFKM CONTACT PREMIER FOR PRICING
MODIFICATIONS Separate multiple mods with a dash	
Blank	None
AC	KRYTOX 240AC
AS	1/4" SAE AS5202 LOADER PORT
E	1/8" NPT AIR LOADER PORT
J	1/4" SAE J1926 LOADER PORT
N	NACE MR0175 COMPATIBLE
NV	NON-VENTING
SP1	VESPEL SP-1 SEAT (>0.12 CV)
SM	SURFACE MOUNT

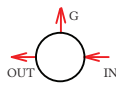
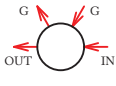
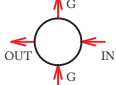
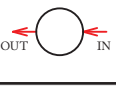
SERIES	-	1	2	3	-	4	5	6	-	7 8	-	MODS
30-11070	-				-				-		-	

1	BODY MATERIALS (MAX. INLET PRESSURE)	
1	SAE 360 Brass (6000 psig / 413.7 bar)	
2	316 Stainless Steel (10000 psig / 689.5 bar)	
2	OUTLET PRESSURE	
3	6-600 psig (0.41-41.37 bar)	Diameter: 1.50" Area: 1.77 in ² Ratio: 7/1 *
* 4.0" diameter diaphragm DIAPHRAGM AREA: 12.5664 in ²		
3	FLOW (Cv)	
0	Cv 0.06	
1	Cv 0.12	
2	Cv 0.20	
3	Cv 0.30	
VENT VALVE: Cv 0.06		

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10000 PSIG MAX INLET (Stainless Steel)
6000 PSIG MAX INLET (Brass)
The end user is responsible to ensure adequate fittings are used to connect
regulator to plumbing.

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4	PORTING CONFIG.
A	
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5	PORT SIZE (inlet/outlet)
4	1/4"
6	3/8"
8	1/2"***
9	9/16"***
1/2" ports not available in medium pressure or high pressure *9/16" ports only available in medium pressure	
GAUGE PORTS: 1/4" FNPT VENT PORT: 1/4" inlet/outlet port type	

6	PORT TYPE (inlet/outlet/vent)
1	FNPT
2	SAE J1926
3	SAE AS5202
4	MEDIUM PRESSURE
5	HIGH PRESSURE
7 8	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON-A®
05	EPDM
08	POLYURETHANE
11	FFKM CONTACT PREMIER FOR PRICING
MODIFICATIONS SEPARATE MULTIPLE MODS WITH A DASH	
BLANK	NONE
AC	KRYTOX® 240AC
AS	1/4" SAE AS5202 LOADER PORT
NV	NON-VENTING