PREMIER INDUSTRIES

H2 3016SL SERIES

Stacked Air Load, High Pressure, Hydrogen
Pressure Reducing Regulators

Hydrogen regulators from the Premier H2 3016SL Series are piston sensed, pressure reducing regulators rated for inlet and outlet pressures up to 15000 PSIG (1034.21 bar) and Cv 0.5, or 1.0. Premier H2 3016SL Series regulators feature a four-tier air loader for compatibility with electro-pneumatic controllers, enabling piloted pressure control from an inert gas at low pressures (110 psig / 7.5 bar max air load). H2 3016SL Series regulators are designed for use in Hydrogen applications; they are available with a wide range of outlet and inlet configurations. Captured venting is standard.

FEATURES

- Compatible with electro-pneumatic controllers
- Designed for use with Hydrogen
- 15000 PSIG *(1034.21 bar)* MAX
- Captured venting standard, *a non-venting modification is available*
- Cv 0.5 or 1.0
- Numerous optional features
- Economical 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.

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SPECIFICATIONS

- **MAX INLET PRESSURE:**
  - REGULATOR: 15000 PSIG *(1034.21 bar)*
  - AIR ACTUATOR: 110 PSIG *(7.5 bar)*
- **OUTLET PRESSURE @ 1500 PSIG INLET & Cv 0.5:**
  - 200-2000 PSIG *(13.8 - 138 bar)*
  - 350-4000 PSIG *(24.1 - 276 bar)*
  - 550-6000 PSIG *(37.9 - 414 bar)*
  - 850-10000 PSIG *(58.6 - 689 bar)*
  - 1400-15000 PSIG *(96.5 - 1034 bar)*
- **FLOW (Cv):** 0.5, 1.0
- **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)

MATERIALS OF CONSTRUCTION

- **BODY**:
  - 316 Stainless Steel
- **MAIN VALVE**:
  - 316 Stainless Steel
- **HOUSING, AIR LOADER**:
  - 6061-T6 Aluminum
- **WETTED PARTS, OTHER**:
  - 316 Stainless Steel
- **O-RING OPTIONS**:
  - Buna-N
  - Viton®
  - EPDM
  - Polyurethane
- **BACK-UP RINGS**: PCTFE
- **MAIN VALVE SEAT/VENT VALVE SEAT**:
  - Vespel®

PORTING

- **INLET/OUTLET PORTING OPTIONS**:
  - 1/2", 3/8" FNPT
  - 3/8", 9/16" Medium Pressure
  - 3/8" High Pressure
- **VENT PORT:** 1/4" inlet/outlet port type
- **GAUGE PORTS:** 1/4" FNPT
- **LOAD PORT:**
  - 1/4" NPT *(standard)*
  - 1/4" SAE AS5202
  - 1/4" SAE J1926
  - 1/8" NPT

OPTIONS

- Surface mount
- Port type uniform *(gauge ports 1/4" IN/OUT/PORT TYPE)*
- Non-venting modification
- Private label
- Panel mounting bracket: *P/N: 30-10059 (Ø2.15 panel hole)*

Vespel® & Viton® are registered trademarks of E.I.duPont de Nemours and Company

Contact factory for material certifications. Fees may apply.

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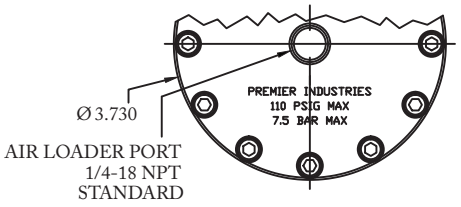
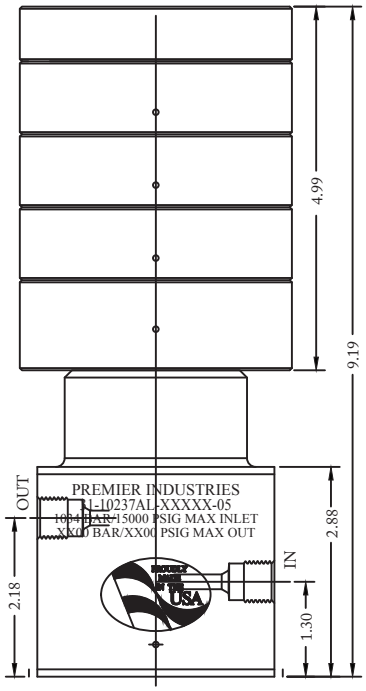
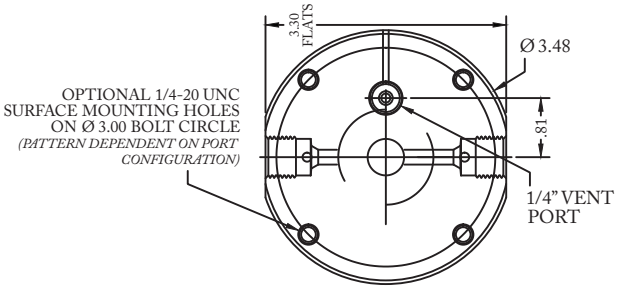
PART NUMBER: H30-10237SL

3/8 MEDIUM PRESSURE 'S' PORT CONFIGURATION SHOWN BELOW



4 TIER AIRLOADER TO SENSOR RATIOS			
		AREA	RATIO- CALCULATED
OUTLET	AIRLOADER X 4	23.1692 IN²	
15000 PSIG	SENSOR Ø.438	0.1507 IN²	154/1
10000 PSIG	SENSOR Ø.562	0.2481 IN²	93/1
6000 PSIG	SENSOR Ø.688	0.3718 IN²	62/1
4000 PSIG	SENSOR Ø.875	0.60132 IN²	38.5/1
2000 PSIG	SENSOR Ø1.129	1.0011 IN²	23/1





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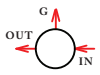
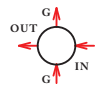
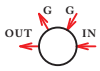
PART #	-	1	2	3	4	5	-	6 7	-	MODS
H30-10237SL	-						-		-	

1	OUTLET PRESSURE
2	200-2000 PSIG *(13.8 - 138 bar)*
4	350-4000 PSIG *(24.1 - 276 bar)*
6	550-6000 PSIG *(37.8 - 414 bar)*
7	850-10000 PSIG *(58.6 - 689 bar)*
8	1400-15000 PSIG *(96.5 - 1034 bar)*
2	**Cv RATING**
0	0.5 Cv
1	1.0 Cv

3	PORTING CONFIGURATION
A	
L	
C	
S	
4	**PORT SIZE**
6	3/8”
8	1/2”* *(Not available in medium pressure or high pressure)*
9	9/16”** *(Only available in medium pressure)*
5	**PORT TYPE** *(IN/OUT/VENT)*
1	FNPT
4	Medium Pressure
5	High Pressure

6 7	O-RINGS
00	BUNA-N
02	VITON-A®
05	EPDM
08	POLYURETHANE
MODIFICATIONS *Separate multiple mods with a dash*	
BLANK	None
AS	1/4” SAE AS5202 LOADER PORT
E	1/8” NPT LOADER PORT
J	1/4” SAE J1926 LOADERPORT
NV	NON-VENTING
PTU	PORT TYPE UNIFORM
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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