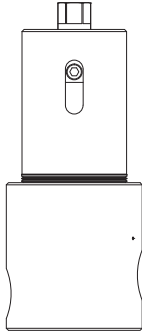


3116 SERIES

High Pressure, High Flow
Back Pressure Regulators



Premier 3116 Series regulators are high pressure, high flow, piston sensed, back pressure regulators rated for inlet pressures up to 10000 psig / 689.5 bar and (Cv) 1.0 or 2.0. Premier 3116 Series regulators are available in a variety of materials for seamless integration into your desired application.

FEATURES

- High flow capacity (Cv): 1.0 or 2.0
- Optional surface mount
- Machined bar stock body 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:**
 - 6000 PSIG / 413.7 bar
(316 stainless steel body, standard)
 - 10000 PSIG / 689.48 bar
(17-4 stainless steel body)
- **CONTROL PRESSURE RANGES:**
 - 5-500 PSIG *(0.34-34.5 bar)*
 - 5-800 PSIG *(0.34-55.16 bar)*
 - 10-1500 PSIG *(0.7-103.4 bar)*
 - 15-2500 PSIG *(1.0-172.4 bar)*
 - 25-4000 PSIG *(1.7-275.8 bar)*
 - 50-6000 PSIG *(3.5-413.7 bar)*
- **FLOW (Cv):** 1.0 or 2.0
- **OPERATING TEMPERATURE:****
 - -15°F/-26°C to 212°F/100°C (BUNA-N)
 - -4°F/-20°C to 400°F/204°C (Viton®)
 - -65°F/-54°C to 302°F/150°C (EPDM)
 - 0°F/-18°C to 620°F/327°C (KALREZ® 7075)

*** Lower temperature compounds available*

MATERIALS OF CONSTRUCTION

- **BODY OPTIONS:**
 - 316 Stainless Steel *(standard)*
 - 17-4 Stainless Steel
- **MAIN VALVE STEM:** 17-4 Stainless Steel
- **MAIN VALVE SEAT:** Vespel®
- **BACK-UP RINGS:** PTFE &/or PCTFE
- **O-RING MATERIAL OPTIONS:**
 - BUNA-N
 - Viton-A®
 - EPDM
 - Kalrez® 7075 *(contact factory for pricing)*
- **OTHER WETTED PARTS:**
 - 316 Stainless Steel
 - 17-4 Stainless Steel

SAE AS5202 supersedes MS33649

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

Contact factory for material certifications. Fees may apply.

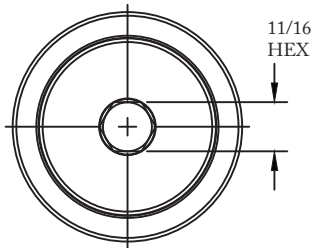
PORTING

- **INLET & OUTLET OPTIONS:**
 - 3/8" FNPT, SAE J1926, SAE AS5202, BSPP
 - 1/2" FNPT, SAE J1926, SAE AS5202, BSPP
 - 3/4" FNPT, SAE J1926, SAE AS5202, BSPP
- **GAUGE PORTS:** 1/4" FNPT

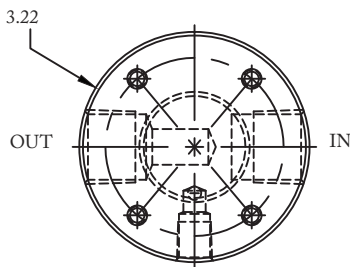
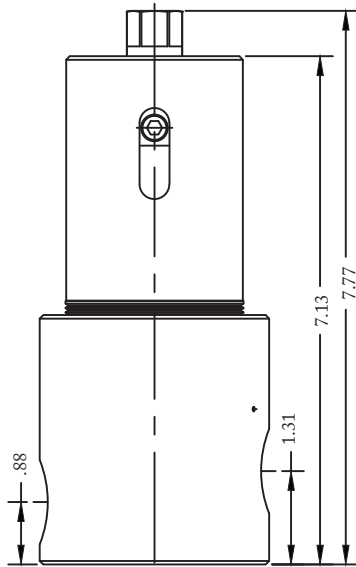
OPTIONS

- Private label

PART NUMBER: 30-10222G



PORT TYPE	ØA	FLATS
NPT	Ø3.23	—
1/2" SAE	Ø3.48	3.32
3/4" SAE	Ø3.98	3.72



*Optional Surface
mounting holes:
1/4-20 UNC X .5 DP
bolt circle subject to body size*

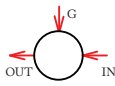

3116 SERIES

High Pressure, High Flow
Back Pressure Regulators

PART #	-	1	2	3	4	5	-	6 7	-	MODS
30-10222G	-						-		-	

Standard: 316 Stainless Steel body & 17-4 Stainless Steel Bonnet, 6000 psig max inlet

See modifications for 10000 psig max inlet option

1	CONTROL PRESSURE
1	5-500 PSIG (0.34-34.5 bar)
2	5-800 PSIG (0.34-55.16 bar)
3	10-1500 PSIG (0.7-103.4 bar)
4	15-2500 PSIG (1.0-172.4 bar)
5	25-4000 PSIG (1.7-275.8 Bar)
6	50-6000 PSIG (3.5-413.7 Bar)
2	C _v (FLOW)
1	C _v 1.0
2	C _v 2.0
3	PORT CONFIGURATIONS (from top)
H	
S	 (standard)

4	PORT SIZE (Inlet/outlet)
6	3/8"
8	1/2"
T	3/4"
<i>Gauge ports 1/4" FNPT</i>	
5	PORT TYPE (Inlet/outlet)
1	FNPT
2	SAE J1926
3	SAE AS5202*
P	BSPP
<i>*SAE AS5202 supersedes MS33649</i>	
67	O-RING MATERIAL
00	BUNA-N
02	VITON®
05	EPDM
11	KALREZ® 7075

MODIFICATIONS	
Blank	None
SM	Surface mount
T	10K 17-4 stainless steel construction

*6000 PSIG MAX INLET (316 stainless steel body)
10000 PSIG MAX INLET (17-4 stainless steel body)
The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing*

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

Contact factory for material certifications. Fees may apply