

50200DL SERIES

Dome Loaded, High Flow, High Pressure
Pressure Reducing Regulators



Premier 50200DL Series dome loaded, single stage, high flow, high pressure, piston sensed, pressure reducing regulators, rated for inlet and outlet pressures up to 6000 PSIG / 413.7 bar (*dependent upon configuration*), and Cv 20.0. The 50200DL features an externally loaded 1:1 dome load. Optional external sensing port for improved accuracy.

FEATURES

- Flow capacity (Cv): 20.0
- 6000 PSIG (689.5 bar) max inlet pressure
- 1:1 dome load
- Optional external sensing port
- Economical pricing
- 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.

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SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 6000 PSIG (413.7 BAR)*
**dependent upon configuration*
- **MAXIMUM OUTLET PRESSURE:**
 - 6000 PSIG (413.7 BAR)*
**dependent upon configuration*
- **FLOW (Cv):** 20.0
- **TEMPERATURE:** -20° TO 100°F (-29° TO 38°C)

NOTE: MAX PRESSURE DERATED
FROM 6000 TO 5000 PSI AND 3600 TO
3000 PSI FOR TEMPERATURES BETWEEN
100° & 200°F (38° & 93°C)

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 316 Stainless Steel
- **BONNET:**
 - 17-4 PH Stainless Steel
- **PISTON:**
 - 316 Stainless Steel
- **VALVE HOUSING:**
 - 17-4 PH Stainless Steel
- **MAIN VALVE SEAT OPTIONS:**
 - VESPEL SP-1®
 - PEEK®
 - PCTFE (3600 PSIG / 248.2 BAR)
- **O-RING OPTIONS:**
 - BUNA-N
 - Viton®
 - EPDM
- **BACK-UP RING OPTIONS:**
 - BUNA-N
 - Viton®
 - EPDM

PORTING

- **PORTING OPTIONS:**
 - 1.5" FNPT (6000 PSI MAX)
 - 2.5" GR 25 GRAYLOC HUBS (3600 PSI MAX)
 - 2.5" GR 20 GRAYLOC HUBS (6000 PSI MAX)
 - 2.5" 1500# RF FLANGES (3600 PSI MAX)
 - 2.5" 2500# RF FLANGES (6000 PSI MAX)
- **EXTERNAL SENSING PORT OPTIONS:**
 - 1/4" FNPT
 - 1/4" J1926
 - 1/4" AS5202**
- **DOMEST PORT OPTIONS:**
 - 1/4" FNPT
 - 1/4" SAE J1926
 - 1/4" SAE AS5202**

*** (SAE AS5202 supersedes MS33649)*

OPTIONS

- Private Label

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de Nemours and Company.*

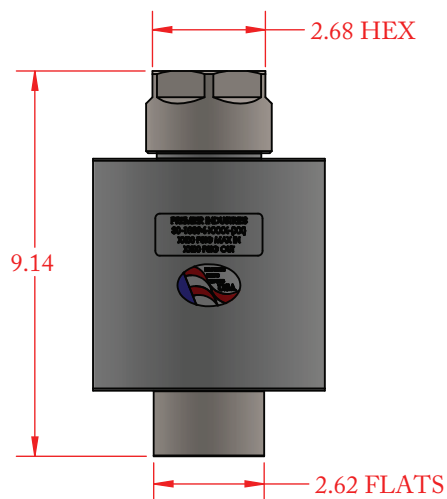
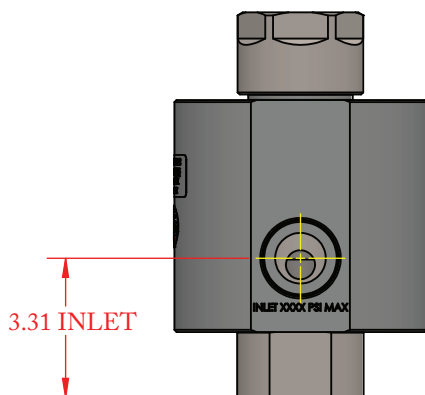
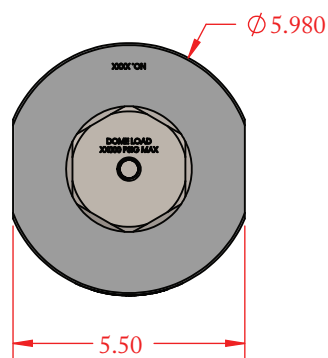
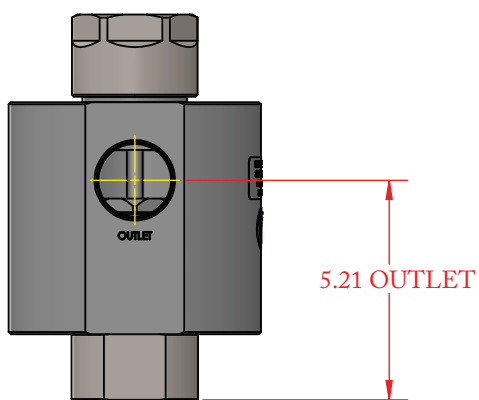
PEEK® is a registered trademark of Victrex PLC

Contact factory for material certifications. Fees may apply.

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PART NUMBER: 30-10894
(1.5" NPT PORTS SHOWN BELOW)



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PART NUMBER:	-	1	2	3	4	-	MODS
30-10894	-					-	

1	SEAT MATERIAL OPTIONS
1	VESPEL SP-1®
2	PEEK®
3	PCTFE (3600 PSI MAX)
2	O-RING/BACK-UP RING MATERIAL OPTIONS
1	Buna-N
2	Viton®
3	EPDM
3	PORT SIZE
1	2.5" GR 25 GRAYLOC HUBS (3600 PSI MAX)
2	2.5" GR 20 GRAYLOC HUBS (6000 PSI MAX)
3	2.5" 1500# RF FLANGES (3600 PSI MAX)
4	2.5" 2500# RF FLANGES (6000 PSI MAX)
5	1.5" NPT (6000 PSI MAX)

4	DOMES PORT OPTIONS
1	1/4" FNPT
2	1/4" SAE J1926
3	1/4" SAE AS5202
MODIFICATIONS	
BLANK	None
E1	1/4" NPT EXT. SENSE PORT
E2	1/4" J1926 EXT. SENSE PORT
E3	1/4" AS5202 EXT. SENSE PORT
SM	SURFACE MOUNT

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