

3500DL SERIES

Dome Loaded, High Pressure, Pneumatic
Pressure Reducing Regulators



Premier 3500DL Series dome loaded, pressure reducing regulators are your affordable and compact solution for high pressure pneumatic applications. These rugged, piston sensed regulators are rated for 6000 PSIG (413.69 bar), featuring a 1:1 loader with a maximum outlet pressure of 1000 PSIG (68.95 bar) and Cv: 0.06 or 0.2. Premier 3500DL regulators feature captured venting to safely pipe away expelled media. With a variety of construction material options, porting configurations, and mounting options, you can be confident the Premier 3500DL Series dome loaded, pressure reducing regulator will integrate seamlessly into your pneumatic application.

FEATURES

- Compatible with electro-pneumatic controllers
- Piston Sensed
- Reduced particle contamination with 15 micron valve cartridge filter
- Captured venting
- Lightweight, compact design
- Machined bar stock body and piston eliminates porosity found in castings
- Bottom mount (*standard*)
- Optional threaded body & panel mounting nuts
- Two or four port designs available
- 1:1 loader with max outlet pressure of 1000 PSIG (68.9 bar)

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

3500DL SERIES

Dome Loaded, High Pressure, Pneumatic
Pressure Reducing Regulators

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 6000 PSIG (413.69 bar)
- **OUTLET PRESSURE:**
 - 1000 PSIG (68.95 bar)
- **MAX DOME LOAD:** 1000 PSIG (68.95 bar)
- **LOAD RATIO:** 1:1**

** **Cv 0.06:** an additional 10-50 psi (0.69- 3.45 bar) dome load is required to maintain a 1:1 outlet pressure to dome load ratio.

Cv 0.2: an additional 10-70 psi (0.69- 3.45 bar) dome load is required to maintain a 1:1 outlet pressure to dome load ratio.

- **Cv:** 0.06 or 0.2
- **LEAK RATE:** Bubble tight N₂

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 6061-T6 Aluminum, Clear Anodized (standard)
 - 316 Stainless Steel
- **BONNET:**
 - 6061-T6 Aluminum, Clear Anodized (standard)
 - 316 Stainless Steel
- **PISTON:**
 - 303 Stainless Steel
 - 316 Stainless Steel (316 stainless steel body option)
- **MAIN VALVE COMPONENTS:**
 - 300 Series Stainless Steel
- **MAIN VALVE SEAT:** PEEK® (standard)
(other options available)
- **O-RING SEALS:** Nitrile, PTFE (standard)
(other options available)
- **PANEL MOUNTING NUTS (OPTIONAL):**
 - 6061-T6 Aluminum (nickel plated)
- **STANDARD LUBRICANT:**
 - Krytox® GPL 206

PORTING

- **STANDARD INLETS:** 1/4" FNPT
- **STANDARD OUTLETS:** 1/4" FNPT
- **DOME PORT:** 1/4" FNPT
- **VENT PORT:** 1/4" FNPT
- **GAUGE PORTS:** 1/8" FNPT

OPTIONS

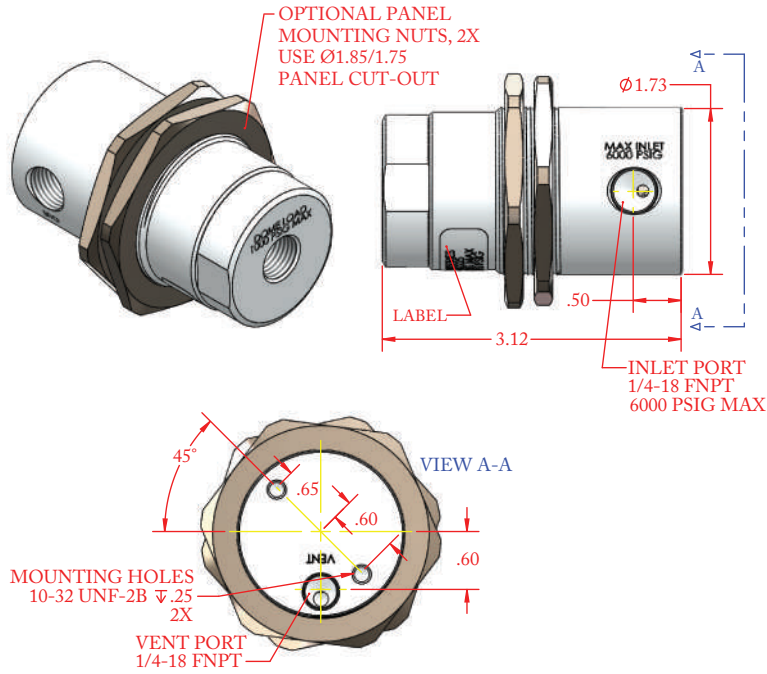
- Gauges
- Private label
- Panel mounting nuts (X2 required)
(Order Separately: P/N 50-11803)
- For custom materials of construction
(monel®, hastelloy® etc.) please contact factory.

PEEK is a registered trademark of Victrex PLC.
Monel is a registered trademark of Special Metals Corporation.
Hastelloy is a registered trademark of Haynes International, Inc.
Krytox® is a registered trademark of e Chemours Company FC, LLC.

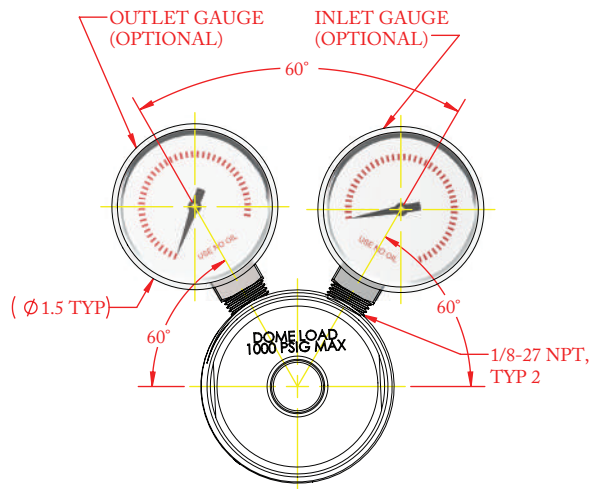
3500DL SERIES

Dome Loaded, High Pressure, Pneumatic Pressure Reducing Regulators

PART NUMBER: 50-12251-11XX1



PART NUMBER: 50-12251-12XX2



3500DL SERIES

Dome Loaded, High Pressure, Pneumatic
Pressure Reducing Regulators

SERIES	-	1	2	-	3	4	-	5	6	-	MODS
50-12251	-			-			-			-	

1	BODY MATERIALS & FINISH
1	6061-T6 Aluminum <i>Clear Anodize</i>
3	316 Stainless Steel <i>Clean per spec #515</i>
2	PORTING
1	2 port
2	4 port
3	O-RING MATERIAL
1	Nitrile
2	Viton®
3	EPDM
4	Neoprene

4	SEAT MATERIAL
1	PEEK®
2	PCTFE
3	Vespel®
5	FLOW (Cv)
1	0.06
2	0.2
6	GAUGES
1	None
2	Include gauges (4 port only)

MODIFICATIONS	
BLANK	NONE
AC	Krytox 240AC

PEEK® is a registered trademark of Victrex PLC

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

For custom materials of construction (monel®, hastelloy® etc.) please contact factory.

Krytox® is a registered trademark of e Chemours Company FC, LLC.

Contact factory for material certifications. Fees may apply.