PREMIER INDUSTRIES

3000 SERIES

High Pressure, Piston Sensed
Pressure Reducing Regulators

The high pressure Premier 3000 Series pressure reducing regulators are single stage, piston sensed, variable delivery, pressure reducing regulators, rated for inlet and outlet pressures up to 10000 PSIG (689.5 bar) and Cv 0.02, 0.06, 0.12, 0.2, or 0.30.

Premier 3000 Series regulators are used to regulate a broad range of non-corrosive and corrosive media (based on materials of construction). They are designed for increased serviceability and reliable operation with the integral 15 micron stainless steel valve cartridge filter. Premier 3000 Series regulators can be supplied with a wide range of inlet and outlet configurations for smooth integration into your desired application.

FEATURES

- Self-venting with adjustable bonnet vent valve
- Non-venting and captured venting options available
- 15 micron sintered 316 stainless steel inlet filter
- Cv 0.02, 0.06, 0.12, 0.2, or 0.30
- Optional tamper resistant acorn nut
- Multiple mounting options (bracket/panel nuts/surface mount)
- Machined bar stock body, bonnet and piston eliminates porosity found in casting

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

SPECIFICATIONS

- **MAX. INLET PRESSURE (BRASS):**
  - 6000 PSIG *(413.7 bar)*
- **MAX. INLET PRESSURE (316 SS):**
  - 10000 PSIG *(689.5 bar)*
- **OUTLET PRESSURE RANGES:**
  (Dependent upon configuration. See tables on pages 4, 5, and 6)
  - 0-200 PSIG *(0-13.8 BAR)*
  - 0-300 PSIG *(0-20.7 BAR)*
  - 0-400 PSIG *(0-27.6 BAR)*
  - 0-500 PSIG *(0-34.5 BAR)*
  - 0-800 PSIG *(0-55.2 BAR)*
  - 10-1000 PSIG *(0.69-68.9 BAR)*
  - 10-1500 PSIG *(0.69-103.4 BAR)*
  - 15-2500 PSIG *(1.0-172.4 BAR)*
  - 25-4000 PSIG *(1.7-275.8 BAR)*
  - 50-6000 PSIG *(3.4-413.7 BAR)*
  - 100-10000 PSIG *(6.9-689.5 BAR)*
- **FLOW (Cv):** 0.02, 0.06, 0.12, 0.2, or 0.30
  Dependent upon configuration See tables on pages 4, 5, and 6)

MATERIALS OF CONSTRUCTION

- **BODY OPTIONS:**
  - SAE 360 brass
  - 316 Stainless Steel
- **BONNET OPTIONS:**
  - SAE 360 brass
  - 17-4 Stainless Steel
  - 316 Stainless Steel *(P/N: 30-10000 only)*
- **WETTED, OTHER:**
  - 316 Stainless Steel
  - 17-4 Stainless Steel
- **SEAL OPTIONS:**
  - Viton-A®
  - Buna-N
  - EPDM
  - FFKM *(Contact factory for pricing)*
  - *Other compounds available upon request*
- **BACK-UP RINGS:** PTFE & PCTFE
- **LUBRICANT:** Krytox® GPL 206 *(STANDARD)*
  - Krytox® 240AC *(OPTIONAL)*
- **VALVE SEAT OPTIONS:**
  - Vespel® *(10000 psig max inlet)*
  - PEEK® *(6000 psig max inlet)*
  - PCTFE *(3000 psig max inlet)*

  (Standard 30-10212 SEAT: Vespel®)

PORTING

- **INLET/OUTLET PORTING:**
  (Dependent upon configuration. See tables on pages 4, 5, and 6)
- **OPTIONAL GAUGE PORTS:**
  - 1/4" FNPT *(STANDARD)*

OPTIONS

- Gauges
- Private label
- Panel mounting bracket: *P/N: 30-10059 (Ø2.15 panel hole)*
- Panel mounting nuts: *P/N: 30-10189 (Ø2.28 panel hole)*
- Tamper resistant acorn nut *(P/N: 30-10000, or 30-10212)*
- Captured vent port model *(P/N: 30-10206)*

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

Contact factory for material certifications. Fees may apply.

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PART NUMBER: 30-10000

PART NUMBER: 30-10212

PART NUMBER: 30-10206

PORT TYPE	ØBODY	FLATS
NPT	Ø2.48	——
1/4" M.P. & H.P	Ø2.48	2.36
1/4" SAE J1926	Ø2.73	2.52
1/4" SAE AS5202	Ø2.98	2.81
3/8" SAE	Ø2.98	2.81
3/8" M.P. & H.P.	Ø2.98	2.81
1/2" SAE	Ø3.23	2.98
9/16" M.P. & H.P.	Ø3.23	3.00

PART NUMBER: 30-10059

OPTIONAL PANEL MOUNTING BRACKET
(for Ø2.12 body or mounting bracket style regulator body)

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3000 SERIES

High Pressure, Piston Sensed
Pressure Reducing Regulators

PART #	-	1	2	3	4	-	5 6	-	7	-	MODS
30-10000	-					-		-		-	

SELF-VENTING
1/4" FNPT PORTS

1	BODY/BONNET MATERIALS *(MAX. INLET PRESSURE)*
1	SAE 360 Brass Body & Bonnet *(6000 PSIG / 413.7 Bar)*
2	316SS Body, 17-4SS Bonnet *(10000 PSIG / 689.5 Bar)*
3	316SS Body & Bonnet *(10000 PSIG / 689.5 Bar)*
4	SAE 360 Brass Body & Bonnet *(3000 PSIG / 206.8 Bar)* **Rated for select CGA fittings*
5	316SS Body, 17-4SS Bonnet *(3000 PSIG / 206.8 Bar)* **Rated for select CGA fittings*

2	PORTING CONFIGURATION *(1/4 FNPT)*
A	
C	
D	
E	
L	
S	

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

Vespel® and Viton® are registered trademarks of E.I.duPont de Nemours and Company
PEEK® is a registered Tradmark of Victrex PLC
Contact Premier for material certifications. Fees may apply.

3	OUTLET PRESSURE
B	0-300 PSIG *(0-20.7 Bar)*
A	0-400 PSIG *(0-27.6 Bar)*
1	0-500 PSIG *(0-34.5 Bar)*
0	0-800 PSIG *(0-55.2 Bar)*
2	0-1000 PSIG *(0-68.9 Bar)*
3	10-1500 PSIG *(0.69-103.4 Bar)*
4	15-2500 PSIG *(1.0-172.4 Bar)*
5	25-4000 PSIG *(1.7-275.8 Bar)*
6	50-6000 PSIG *(3.4-413.7 Bar)*
7	100-10000 PSIG *(6.9-689.5 Bar)* *(stainless steel only)*

4	FLOW (Cv)
0	Cv 0.06
1	Cv 0.12
2	Cv 0.2

5 6	O-RINGS
00	BUNA-N
02	VITON-A®
05	EPDM
11	FFKM *CONTACT PREMIER FOR PRICING*
12	NITRILE, LO-TEMP
(Consult factory for other options)	

7	VALVE SEAT
0	VESPEL® *(10000 psig max inlet)*
1	PEEK® *(10000 psig max inlet)*
2	PCTFE *(3000 psig max inlet)* *CONTACT PREMIER FOR PRICING*

MODIFICATIONS *Separate multiple mods with a dash.*	
Blank	None
ANT	Acorn nut
AC	Krytox 240AC
G1	Gauges
HT	High temp
NV	Non-venting
NV-N	Non-venting/NACE MR0175 compliant
WA	Wrench adjust

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PART #	1 2	-	3	4	5	6	7	-	8 9	-	MODS
30-10212		-						-		-	

SELF-VENTING
316 STAINLESS STEEL BODY
17-4 STAINLESS STEEL BONNET
VESPEL® VALVE SEAT

1 2	MOUNTING STYLE
MB	MOUNTING BRACKET STYLE BODY
PN	PANEL NUT STYLE BODY (PANEL NUTS INCLUDED)

3	OUTLET PRESSURE
C	0-200 PSIG (0-13.8 BAR)
B	0-300 PSIG (0-20.7 BAR)
A	0-400 PSIG (0-27.6 BAR)
1	5-500 PSIG (0.34-34.5 BAR)
2	5-800 PSIG (0.34-55.2 BAR)
M	10-1000 PSIG (0.69-68.9 BAR)
3	10-1500 PSIG (0.69-103.4 BAR)
4	15-2500 PSIG (1.03-172.4 BAR)
5	25-4000 PSIG (1.7-275.8 BAR)
6	50-6000 PSIG (3.4-413.7 BAR)
7	100-10000 PSIG (6.9-689.5 BAR) STAINLESS STEEL ONLY

4	FLOW (Cv)
0	Cv 0.06
1	Cv 0.12
2	Cv 0.2
3	Cv 0.3

5	PORTING CONFIGURATION
A	
C	
D	
E	
L	
S	

6	PORT SIZE
4	1/4”
6	3/8”
8	1/2”*
9	9/16”**

*1/2” PORTS NOT AVAILABLE IN MEDIUM/HIGH PRESSURE
**9/16” PORTS ONLY AVAILABLE IN MEDIUM/HIGH PRESSURE

7	PORT TYPE *(IN/OUT)*
1	FNPT
2	SAE J1926
3	SAE AS5202
4	MEDIUM PRESSURE
5	HIGH PRESSURE
7	MS33649

GAUGE PORTS: 1/4” FNPT *(STANDARD)*

8 9	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON-A®
05	EPDM
11	FFKM *CONTACT PREMIER FOR PRICING*
12	NITRILE, LO-TEMP
13	NITRILE, XLO-TEMP

MODIFICATIONS *Separate multiple mods with a dash.*	
BLANK	NONE
ANT	ACORN NUT
AC	KRYTOX 240AC LUBRICANT
B	SAE 360 BRASS BODY/BONNET *6000 PSIG MAX INLET*
KS	PCTFE SEAT (Cv 0.06)
NV	NON-VENTING
NV-N	NON-VENTING, NACE MR0175 COMPLIANT
PK	PEEK® VALVE SEAT *6000 PSIG MAX INLET*
PTU	PORT TYPE UNIFORM
SM	SURFACE MOUNT *Pattern dependent on port type, size, and config.* ***- not available on panel mount style bodies.***
TGF	PTFE 25% GLASS FILL SEAT

10000 PSIG MAX INLET (SS)
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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PART #	1 2	-	3	4	5	6	7	-	8 9	-	MODS
30-10206		-						-		-	

CAPTURED VENTING
316 STAINLESS STEEL BODY
17-4 STAINLESS STEEL BONNET
VESPEL® VALVE SEAT

1 2	MOUNTING STYLE
MB	Mounting bracket style body
PN	Panel nut style body *(panel nuts included)*

3	OUTLET PRESSURE
0	0-200 PSIG (0-13.79 Bar)
1	5-500 PSIG (0.34-34.5 Bar)
2	5-800 PSIG (0.34-55.2 Bar)
3	10-1500 PSIG (0.69-103.4 Bar)
4	15-2500 PSIG (1.0-172.4 Bar)
5	25-4000 PSIG (1.7-275.8 Bar)
6	50-6000 PSIG (3.4-413.7 Bar)
7	100-10000 PSIG (6.9-689.5 Bar) *(stainless steel only)*
8	20-3000 PSIG (1.38-206.84 Bar)

4	FLOW (Cv)
B	Cv 0.02
0	Cv 0.06
1	Cv 0.12
2	Cv 0.2
3	Cv 0.3

5	PORTING CONFIGURATION
A	
C	
D	
L	
S	

6	PORT SIZE
4	1/4”
6	3/8”
8	1/2”*
9	9/16”**

*1/2” PORTS NOT AVAILABLE IN MEDIUM/HIGH PRESSURE
**9/16” PORTS ONLY AVAILABLE IN MEDIUM/HIGH PRESSURE

7	PORT TYPE *(IN/OUT/VENT)*
1	FNPT
2	SAE J1926
3	SAE AS5202
4	MEDIUM PRESSURE

GAUGE PORTS: *1/4” FNPT unless port type uniform (PTU) modifier is specified*
VENT PORTS: *1/4” inlet/outlet port type*

8 9	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON-A®
05	EPDM
11	FFKM *CONTACT PREMIER FOR PRICING*
12	NITRILE, LO-TEMP

MODIFICATIONS *Separate multiple mods with a dash.*	
BLANK	NONE
AC	KRYTOX 240AC LUBRICANT
ANT	ACORN NUT
B	SAE 360 BRASS BODY/BONNET *6000 PSIG MAX INLET*
N	NON-VENTING, NACE MR0175 COMPLIANT
NV	NON-VENTING
PK	PEEK VALVE SEAT
PTU	PORT TYPE UNIFORM
SM	SURFACE MOUNT *Pattern dependent on port type, size, & config.* ***- not available on panel mount style bodies***
G1	GAUGES

10000 PSIG MAX INLET (SS)
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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