

## 3123 SERIES

High Pressure, 15K, Pneumatic  
Back pressure regulators



High pressure Premier 3123 Series back pressure regulators are single stage, piston sensed, variable control pressure regulators, rated for inlet pressures up to 15000 PSIG (1034.21 bar) with a control pressure range of 300-15000 PSIG (20.68 - 1034.21 bar). For optimum compatibility with your desired application, we offer a choice of two seat materials: Vespel® and PEEK®. The 3123 Series regulator features a low torque hand knob for smooth adjustments.

### FEATURES

- Rated for pressures up to 15000 PSIG (1034.21 bar)
- Flow (Cv): 0.03, 0.06, 0.14, or 0.20
- Low torque ball bearing hand knob
- Very competitive pricing
- Machined bar stock body, bonnet and piston eliminates porosity found in castings
- Numerous optional features are available.

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

## SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
  - 15000 PSIG (1034.21 bar)
- **CONTROL PRESSURE RANGE:**
  - 300-15000 PSIG (20.68 - 1034.21 bar)
- **FLOW (C<sub>v</sub>):** 0.03, 0.06, 0.14, or 0.20
- **OPERATING TEMPERATURE:**
  - -15°F/-26°C to 165°F/74°C (BUNA-N)
  - -4°F/-20°C to 165°F/74°C (VITON-A®)
  - -65°F/-54°C to 165°F/74°C (EPDM)
  - 15°F/-9°C to 165°F/74°C (AFLAS)
  - -65°F/-54°C to 165°F/74°C (NITRILE)

## MATERIALS OF CONSTRUCTION

- **BODY:**
  - 316 Stainless Steel,
- **BONNET:**
  - 17-4 Stainless Steel
- **WETTED PARTS, OTHER:**
  - 316 Stainless Steel
  - 17-4 Stainless Steel
  - PH15-7Mo Stainless Steel
- **O-RINGS:**
  - BUNA-N
  - AFLAS®
  - Viton-A®
  - EPDM
  - FFKM (*Contact factory for pricing*)
  - Nitrile, Lo-temp
- **BACK-UP RINGS:** PTFE or PCTFE
- **VALVE SEAT:**
  - Vespel®
  - PEEK®
- **STANDARD LUBRICANT:**
  - Krytox® GPL 206

## PORTING

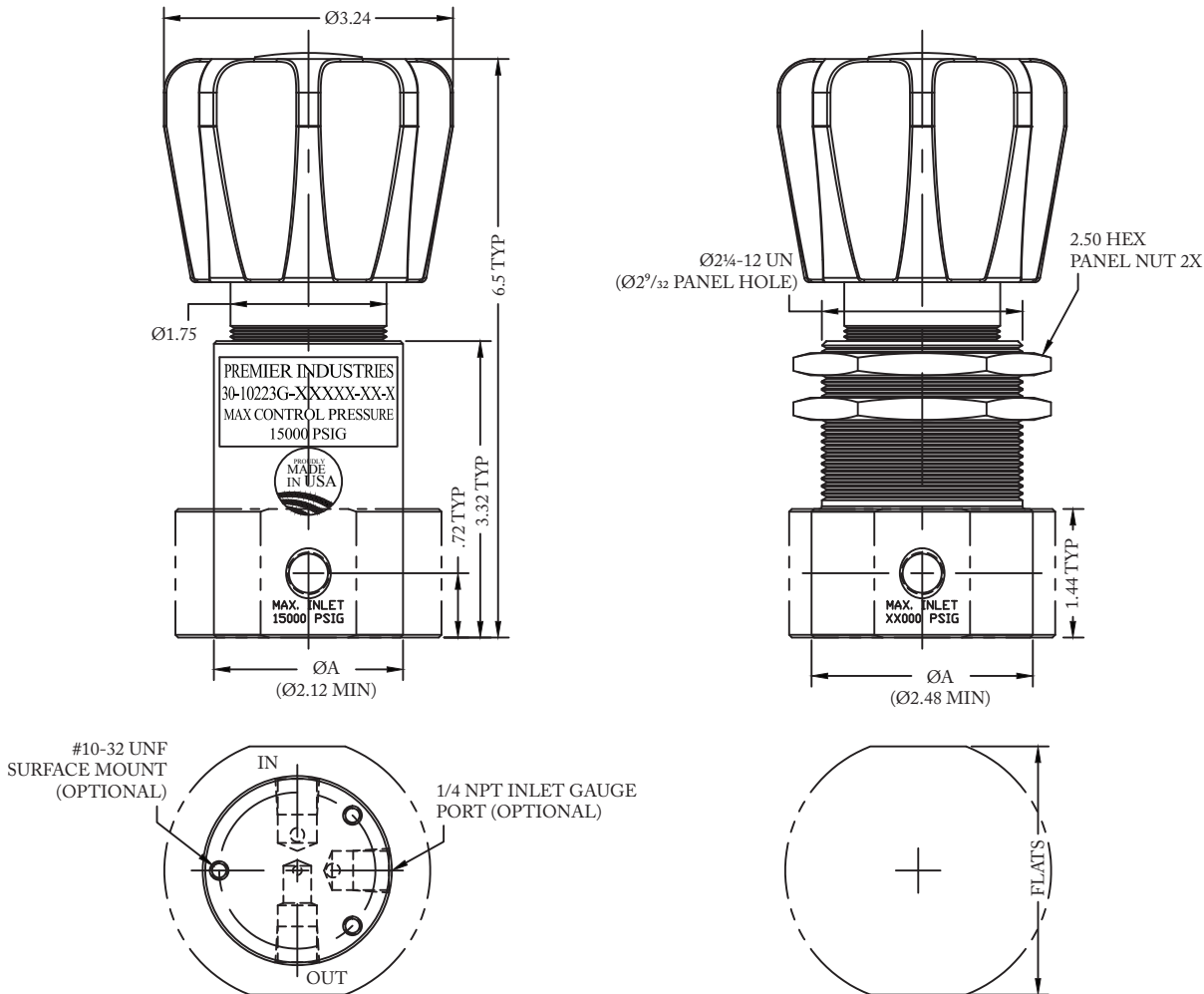
- **INLET/OUTLET PORTING OPTIONS:**
  - 1/4", 3/8" FNPT
  - 1/4", 3/8", 9/16" Medium pressure
  - 1/4", 3/8" High pressure

## OPTIONAL ITEMS

- Inlet gauge
- Private label
- Panel mounting bracket: *P/N: 30-10059*  
(Ø2.15 panel hole)

*Vespel® and Viton® are registered trademarks of E.I. duPont de Nemours and Company*  
*AFLAS® is a registered trademark of the Asahi Glass Co., Ltd.*  
*PEEK® is a registered trademark of Victrex PLC*  
*Krytox® is a registered trademark of The Chemours Company FC, LLC.*

PART NUMBER: 30-10223G



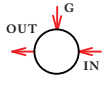
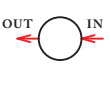
PANEL NUT BODY		
PORT TYPE	ØA	FLATS
NPT, NPTF	Ø2.48	—
1/4" M.P. & H.P.	Ø2.48	2.36
3/8" M.P.	Ø2.48	2.36
3/8" H.P.	Ø2.98	2.81
9/16" M.P.	Ø2.98	2.81

MOUNTING BRACKET BODY		
PORT TYPE	ØA	FLATS
1/4 & 3/8 NPT	Ø2.12	—
1/4" M.P. & H.P.	Ø2.12	1.98
3/8" M.P.	Ø2.48	2.36
3/8" H.P.	Ø2.98	2.81
9/16" M.P.	Ø2.98	2.81

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PART #:	1	2	-	3	4	5	6	7	-	8	9	-	10	-	MODS
30-10223G			-						-			-		-	

1 2	MOUNTING STYLE
MB	MOUNTING BRACKET STYLE BODY
PN	PANEL NUT STYLE BODY <i>(PANEL NUTS INCLUDED)</i>
3	CONTROL PRESSURE RANGE
8	300-15000 PSIG 20.68-1034.21 Bar
4	PORTING CONFIGURATION
H	
S	
5	PORT SIZE
4	1/4"
6	3/8"
9	9/16" <i>(ONLY AVAILABLE IN MEDIUM PRESSURE)</i>

6	PORT TYPE
1	FNPT
4	MEDIUM PRESSURE
5	HIGH PRESSURE
<i>OPTIONAL GAUGE PORT: 1/4" FNPT</i>	
7	VALVE SEAT
0	VESPEL®
3	PEEK®

8 9	O-RINGS
00	BUNA-N
01	AFLAS®
02	VITON®
05	EPDM
11	FFKM <i>(CONTACT PREMIER FOR PRICING)</i>
12	NITRILE, LOW-TEMP
10	Cv (FLOW)
0	0.06
1	0.14
2	0.20
A	0.03
MODIFICATIONS	
BLANK	NONE
AC	KRYTOX 240AC
N	NACE MR0175 COMPATIBLE
SM	SURFACE MOUNT

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**15000 PSIG MAX INLET**  
*The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing.*

*Contact factory for material certifications. Fees may apply.*