

70AB SERIES

High Pressure
Shut Off Valves



Premier 70AB Series shut off valves are stainless steel, high pressure shut off valves rated for pressures up to 10000 PSIG. 70AB Series valves feature a metal stop that prevents stem over-travel; the metal stop also functions as a secondary metal-to-metal seat should the soft seat fail. The bleed/vent valve enables users to bleed pressures downstream down to zero.

Premier 70AB valves may be used in a wide variety of applications consistent with valve materials compatibility with media. Commonly used in purge applications.

FEATURES

- Rated up to 10000 PSIG
- A variety of port sizes and configurations
- Low torque at high pressures
- Metal stop prevents stem-over-travel
- Can be used to bleed downstream pressure to 0

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

PART NUMBER: 70-2100AB

SPECIFICATIONS

- **MAXIMUM OPERATING PRESSURE :**
 - PTFE seat, SAE 360 Brass body:
 - 3500 PSIG / 241 BAR
 - PTFE seat, 316 Stainless Steel body:
 - 3500 PSIG / 241 BAR
 - PCTFE seat, SAE 360 Brass body:
 - 6000 PSIG / 414 BAR
 - PCTFE seat, 316 Stainless Steel body:
 - 6000 PSIG / 414 BAR
 - PEEK® seat, SAE 360 Brass body:
 - 6000 PSIG / 414 BAR
 - PEEK® seat, 316 Stainless Steel body:
 - 10000 PSIG / 690 BAR
 - Vespel SP-1® seat, SAE 360 Brass body:
 - 6000 PSIG / 414 BAR
 - Vespel SP-1® seat, 316 Stainless Steel body:
 - 10000 PSIG / 690 BAR
- **LEAK RATE:** Bubble Tight

MATERIALS OF CONSTRUCTION

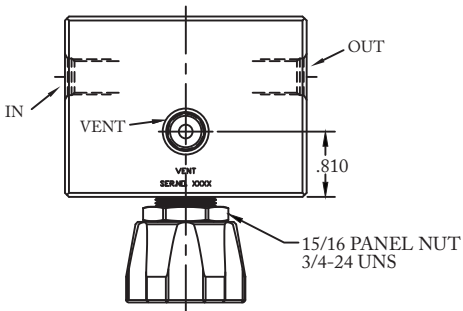
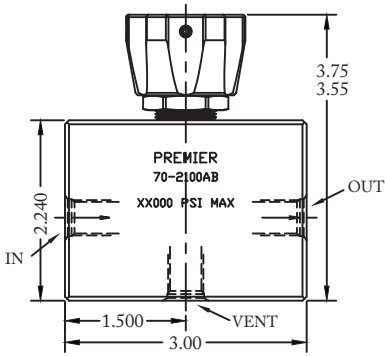
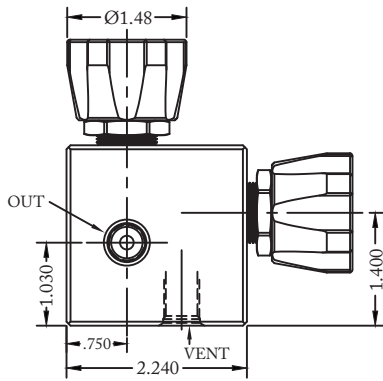
- **BODY:**
 - 316 Stainless Steel
 - SAE 360 Brass
- **VALVE SEAT:**
 - PTFE
 - PCTFE
 - PEEK®
 - Vespel SP-1®
- **VALVE STEM:**
 - 17-4 Stainless Steel (Hardened)
- **O-RING:**
 - BUNA-N
 - AFLAS®
 - Viton-A®
 - EPDM
 - FFKM
 - Nitrile, lo-temp
- **BACK-UP RING:**
 - PTFE
 - PCTFE
- **WETTED PARTS:**
 - 316 Stainless Steel
 - 17-4 Stainless Steel
 - Nitronic® 60 Stainless Steel
 - PEEK®

PORTING

- **INLET/OUTLET PORTING**
 - 1/4" NPT, SAE J1926, MS 33649
 - 1/2" NPT, SAE J1926, MS 33649

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AFLAS® is a registered trademark of the Asahi Glass Co., Ltd.*

PART NUMBER: 70-2100AB



PART #	-	1	2	3	4	-	5	6
70-2100AB	-					-		

1	MATERIALS OF CONSTRUCTION
B	SAE 360 BRASS BODY (6000 PSIG MAX OPERATING PRESSURE)
S	316 STAINLESS STEEL BODY
2	PORT SIZE
4	1/4"
8	1/2"
3	PORT TYPE
1	NPT
2	SAE J1926
3	SAE AS5202 / MS33649

4	SEAT MATERIAL
T	PTFE (3500 PSIG MAX OPERATING PRESSURE)
C	PCTFE (6000 PSIG MAX OPERATING PRESSURE)
P	PEEK®
V	VESPEL SP-1®
5 6	O-RING MATERIAL
00	BUNA-N
01	AFLAS®
02	VITON-A®
05	EPDM
11	FFKM
12	NITRILE, LO-TEMP

MAXIMUM OPERATING PRESSURE :

PTFE SEAT, SAE 360 BRASS BODY:

3500 PSIG / 241 BAR

PTFE SEAT, 316 SS BODY:

3500 PSIG / 241 BAR

PCTFE SEAT, SAE 360 BRASS BODY:

6000 PSIG / 414 BAR

PCTFE SEAT, 316 SS BODY:

6000 PSIG / 414 BAR

PEEK® SEAT, SAE 360 BRASS BODY:

6000 PSIG / 414 BAR

PEEK® SEAT, 316 SS BODY:

10000 PSIG / 690 BAR

VESPEL SP-1® SEAT, SAE 360 BRASS BODY:

6000 PSIG / 414 BAR

VESPEL SP-1® SEAT, 316 SS BODY:

10000 PSIG / 690 BAR

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