

O2 AO 2.0

Oxygen, Air Operated, Normally Open/Closed
Valves



Premier O2 AO Series air operated high pressure valves are designed for normally closed and open use with Oxygen. Premier O2 AO valves are rated for pressures up to 10000 PSIG / 689.5 BAR and Cv 2.0.

FEATURES

- Designed for Oxygen Service
- 10000 PSIG / 689.5 BAR max inlet pressure
- Cv 2.0
- Robust design for long cycle life
- Customize and optimize to meet your unique requirement (*contact Premier*)

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

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE :**
 - 3000 PSIG / 206.8 BAR (P/N: 70-00469)
 - 10000 PSIG / 689.5 BAR (P/N: 70-00635)
- **ACTUATION PRESSURE RANGE:**
 - 90-110 PSIG / 6.2-7.6 BAR
- **FLOW (Cv):** 2.0

MATERIALS OF CONSTRUCTION

P/N: 70-00469

PROCESS SIDE WETTED:

- **BODY:**
 - SAE 360 BRASS
- **VALVE STEM AND INSERT:**
 - 693 Eco Brass
- **MAIN VALVE SEAT:**
 - PCTFE
- **O-RING SEALS:**
 - Viton-A
- **LUBRICANT:**
 - Krytox 240AC

ACTUATOR SIDE WETTED:

- **PISTON, PLUG, AND BONNET:**
 - 303 Stainless Steel

NON-WETTED:

- **SCREW:**
 - 18-8 Stainless Steel
- **SPRING (NON-WETTED):**
 - Chrome silicon, vinyl coated
- **BACKUP RINGS:**
 - PTFE

*ALL WETTED COMPONENTS CLEANED
PER PREMIER IND. WI615 (CGA G4.1
STANDARD) FOR OXYGEN SERVICE*

VITON® AND VESPEL® ARE REGISTERED TRADEMARKS
OF E.I.DUPONT DE NEMOURS AND COMPANY.

MONEL® IS A REGISTERED TRADEMARK OF SPECIAL
METALS CORPORATION

KRYTOX® IS A REGISTERED TRADEMARK OF THE
CHEMOURS COMPANY FC, LLC.

PORTING

- **INLET & OUTLET PORTING:**
 - See selection tables on pages 4 and 5
- **ACTUATION PORT:**
 - 1/4" SAE (AS5202-04)
 - 1/8" FNPT (P/N 70-00635 ONLY)

P/N: 70-00635

PROCESS SIDE WETTED:

- **BODY/INSERT/STEM:**
 - Monel
- **MAIN VALVE SEAT:**
 - Vespel SP-21
- **O-RING SEALS:**
 - Viton-A
 - Low temp Viton
- **LUBRICANT:**
 - Krytox 240AC

ACTUATOR SIDE WETTED:

- **PISTON, PLUG, AND BONNET:**
 - C693 Eco Brass

NON-WETTED:

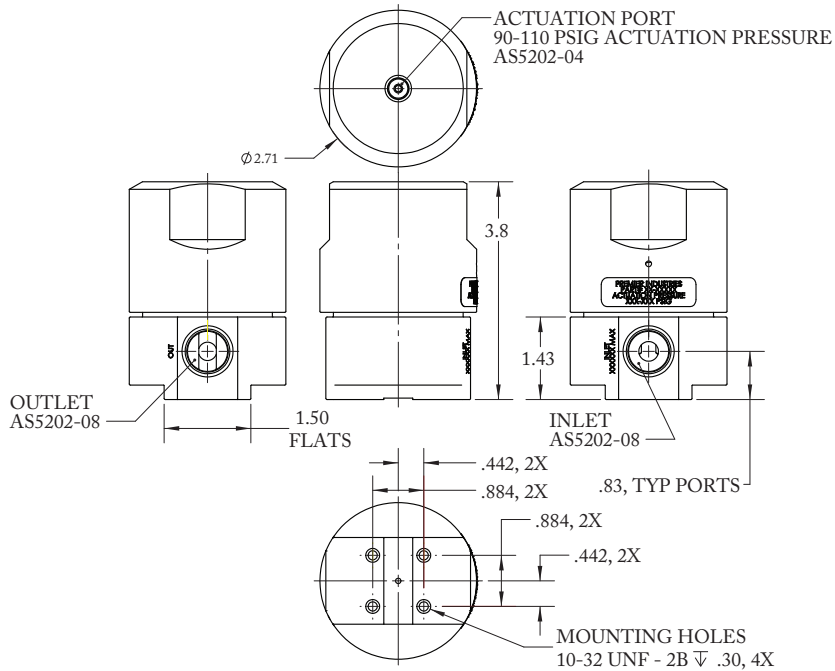
- **SCREW:**
 - 18-8 Stainless Steel
- **SPRING (NON-WETTED):**
 - Chrome silicon, vinyl coated
- **BACKUP RINGS:**
 - PTFE

*ALL WETTED COMPONENTS CLEANED
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STANDARD) FOR OXYGEN SERVICE*

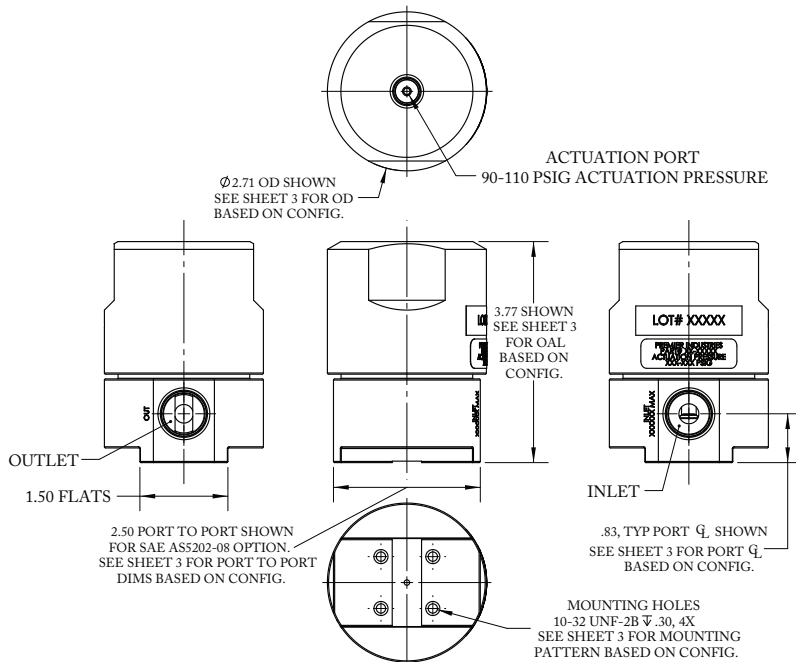
OPTIONS

- Private label

PART NUMBER: 70-00469



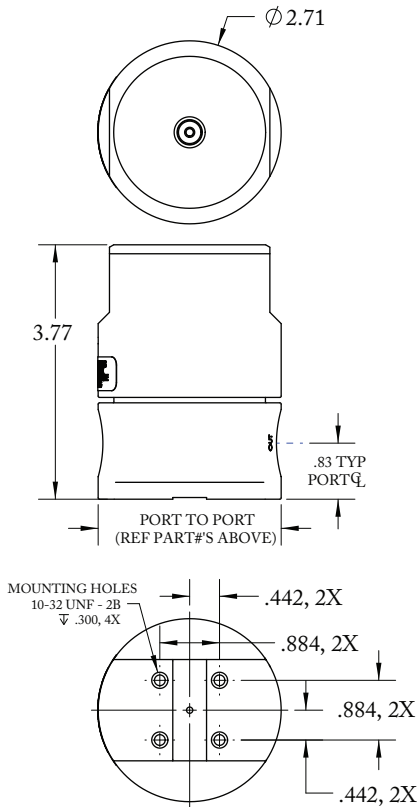
PART NUMBER: 70-00635



OD, OAL, PORT $\varnothing$, PORT TO PORT, AND
MOUNTING PATTERN REFERENCE.

CONFIGURATIONS:

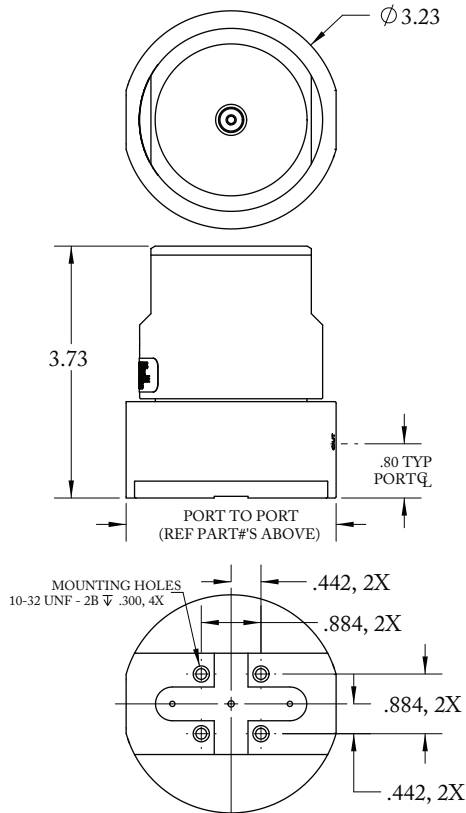
70-00635-X-XX-1X (1/2 (F)NPT) = 2.71"
70-00635-X-XX-2X (3/8 (F)NPT) = 2.71"
70-00635-X-XX-3X (SAE AS5202-08) = 2.50"
70-00635-X-XX-5X (SAE AS5202-06) = 2.50"



OD, OAL, PORT $\varnothing$, PORT TO PORT, AND
MOUNTING PATTERN REFERENCE.

CONFIGURATIONS:

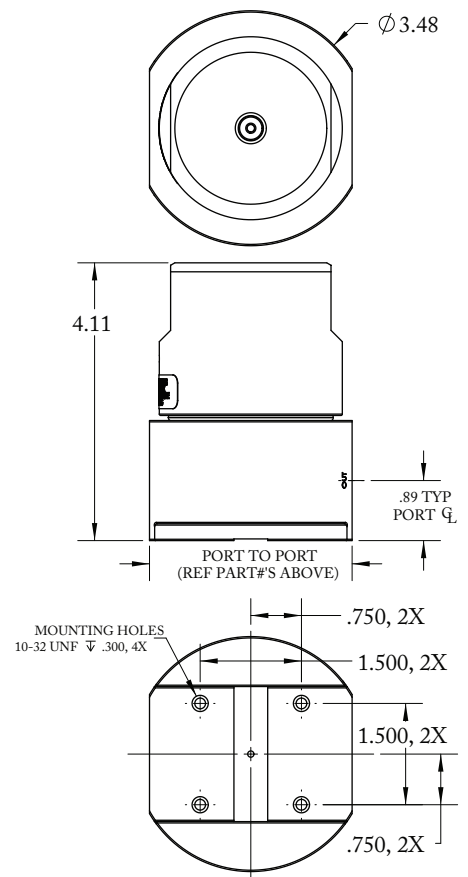
70-00635-X-XX-4X (9/16 MED. PRESS.) = 3.11"
70-00635-X-XX-6X (9/16 MED. PRESS INLET AND
SAE AS5202-08) = 3.11"



OD, OAL, PORT $\varnothing$, PORT TO PORT, AND
MOUNTING PATTERN REFERENCE.

CONFIGURATIONS:

70-00635-X-XX-7X (SAE AS5202-16) = 3.00"



PART #	-	1
70-00469	-	

**Cv 2.0, 3000 PSIG MAX INLET
PCTFE SEAT (*STANDARD*)**

1	TYPE
BLANK	NORMALLY CLOSED
1	NORMALLY OPEN

PART #	-	1	-	2	3	-	4	5	-	MODS
70-00635	-		-			-			-	

**Cv 2.0, 10000 PSIG MAX INLET
VESPEL SP-21 SEAT (STANDARD)**

1	TYPE
1	NORMALLY OPEN
2	NORMALLY CLOSED
2	BODY/INSERT/STEM MATERIAL
5	MONEL®
3	O-RING MATERIAL
2	VITON-A®
L	LOW-TEMP VITON
4	PROCESS PORTS
1	1/2" FNPT
2	3/8" FNPT
3	1/2" SAE (AS5202-08)
4	9/16" MEDIUM PRESSURE
5	3/8" SAE (AS5202-06)
6	9/16" MP INLET AND 1/2" SAE (AS5202-08) OUTLET
7	1" SAE (AS5202-16)

5	ACTUATION PORT
1	1/8" FNPT
2	1/4" SAE (AS5202-04)

SPECIAL MODS**	
BLANK	NONE
1	4X INDICATOR SWITCH PORTS SEE PAGE 4 
2	SOLENOID VALVE (FNPT ACTUATION PORT ONLY)
3	GAUGE PORTS (1/4" FNPT STANDARD) 
Q	CLEANED AND HANDLED PER PI W1617
7	2X INDICATOR SWITCH PORTS SEE PAGE 4 
8	1X INDICATOR SWITCH PORT SEE PAGE 4 
9	PTFE SEAT (DERATES VALVE TO 3000 PSIG) 
C	TEST-STD-CC1246 200R4 CLEANING
N	PCTFE SEAT (DERATES VALVE TO 6000 PSIG)
T	ANTI-VIBRATION GLAND ASSEMBLY (MEDIUM PRESSURE PORTS ONLY)
S	INDICATOR SWITCH (SWITCH SHIPS UNINSTALLED)

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VALVES ORDERED WITH BOTH
NORMALLY OPEN AND PTFE SEAT
MODIFIER MAY NOT HAVE
SWITCH/SWITCH PORT MODIFIERS.