

H2 AO SERIES

Hydrogen, Air Operated, Normally Open/Closed
Valves



Premier H2 AO Series air operated high pressure valves are designed for normally closed use with Hydrogen. Premier H2 AO valves are rated to 4500 PSIG / 310.26 BAR and Cv 5.0. We offer Premier H2 AO valves in a wide range of porting configurations and configurations for seamless integration into your Hydrogen application.

FEATURES

- Designed for Hydrogen Service
- 4500 PSIG/310.26 BAR max inlet pressure
- Cv 5.0
- Optional solenoid valve actuator
- 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 :**
 - 4500 PSIG / 310.26 BAR
- **ACTUATION PRESSURE RANGE:**
 - 80-125 PSIG / 5.5-8.6 BAR
- **FLOW (Cv):** 5.0

MATERIALS OF CONSTRUCTION

- **BODY/WETTED MATERIAL OPTIONS:**
 - 316 Stainless Steel
- **MAIN VALVE SEAT:**
 - Vespel SP-1®
 - PEEK® 1000
 - PCTFE (DERATES TO 3000 PSIG)
- **SEALS/WETTED BACKUP RINGS:**
 - Buna-N/Buna-N
 - Viton/Viton
 - EPDM/PTFE
 - FFKM/PTFE
 - Polyurethane/PTFE
 - Low temp nitrile/PTFE
- **LUBRICANT:**
 - Krytox 240AC (*standard*)
- **SPRING (NON-WETTED):**
 - Chrome silicon, vinyl coated

PORTING

- **INLET & OUTLET OPTIONS:**
 - 3/4" AS5202, -12 TUBE SIZE (-12 SIZE)
 - 1" AS5202, -16 TUBE SIZE (-16 SIZE)
 - 3/4" (F)NPT
 - 1" (F)NPT
 - 1" MED.PRESS.
- **AIR AND LEAK PORT OPTIONS:**
 - 1/8" (F)NPT
 - SAE J1926, SAE SIZE -2 (1/8" TUBE)

OPTIONS

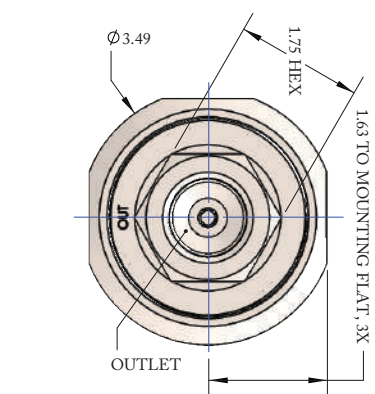
- Private label
- Solenoid valve
- Indicator switch sold separately: P/N: 70-00434
- Gauges

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PEEK® is a registered trademark of Victrex PLC

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

PART NUMBER: 70-00569

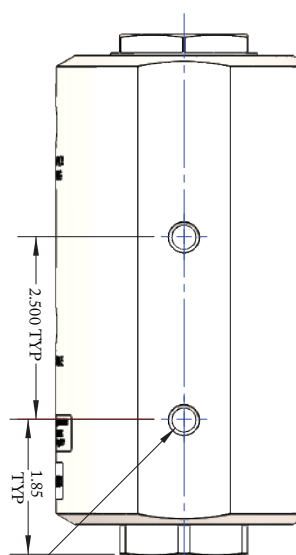
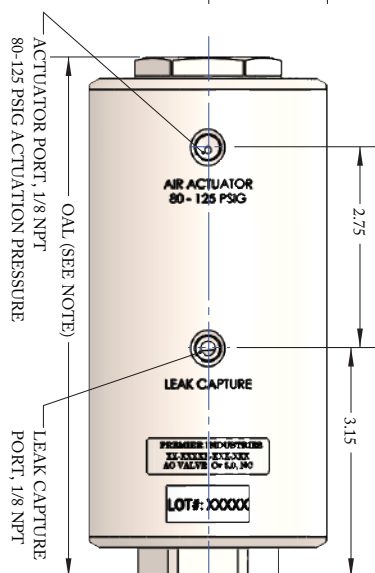


OAL NOTE:

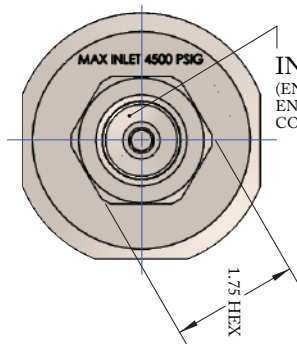
NO 1" MED. PRESS. PORTS: OAL = 7.1"

1X 1" MED.PRESS. PORTS: OAL = 7.3"

2X 1" MED.PRESS. PORTS: OAL = 7.5"



MOUNTING HOLES
3/8-24 UNF ∇ .250
2X PER FLAT, 3X FLATS



INLET, 4500 PSIG MAX
(END USER IS RESPONSIBLE FOR
ENSURING PROPERLY RATED PLUMBING
CONNECTIONS ARE USED)

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PART #	-	1	2	3	-	4	5	6	-	MODS
70-00569	-				-				-	

**Cv 5.0, 4500 PSIG MAX INLET
NORMALLY CLOSED ONLY**

1	WETTED MATERIAL / BODY MATERIAL (NON-WETTED)
3	316 STAINLESS STEEL (WETTED MATERIAL) 316 STAINLESS STEEL (BODY)
2	SEALS / WETTED BACKUP RINGS
1	BUNA-N / BUNA-N
2	VITON® / VITON®
3	EPDM / PTFE
4	FFKM / PTFE <i>Contact Premier for pricing</i>
5	POLYURETHANE / PTFE
6	LOW TEMP NITRILE / PTFE (-61°F TR-10)
3	SEAT MATERIAL
1	VESPEL® SP-1
2	PEEK 1000®
3	PCTFE (DERATES TO 3000 PSIG)

4	INLET PORT:
1	3/4" AS5202 (-12 TUBE SIZE)
2	1" AS5202 (-16 TUBE SIZE)
3	3/4" FNPT
4	1" FNPT
5	1" MEDIUM PRESSURE
5	OUTLET PORT:
1	3/4" AS5202 (-12 TUBE SIZE)
2	1" AS5202 (-16 TUBE SIZE)
3	3/4" FNPT
4	1" FNPT
5	1" MEDIUM PRESSURE

6	AIR AND LEAK PORTS:
1	1/8" FNPT
2	J1926, SAE SIZE-2 (1/8" TUBE)
MODIFICATIONS**	
BLANK	NONE
1	1X INDICATOR SWITCH PORT
2	2X INDICATOR SWITCH PORTS
4	3X INDICATOR SWITCH PORTS

CONSULT PREMIER INDUSTRIES IF
ORDERING SPECIAL MODS, OR IF
UNLISTED CONFIGURATIONS ARE
REQUIRED. ADD ALL MODS TO END
OF PART# (EX. 70-00463-312-123-1-2)

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