

# AO 2.0 QUAD PACK

Pneumatically Operated Valve Assembly  
4, Cv 2.0, High Pressure Valves



The Premier AO 2.0 quad pack integrates four air-operated high-pressure valves into a single modular assembly, rated for operating pressures up to 10000 PSIG (689.5 BAR) and Cv 2.0. This assembly is engineered to maintain continuous system operation by reducing single points of failure, while optimizing space and increasing labor efficiency.

## APPLICATIONS:

- Burst testing
- Rocket engine testing
- Pre-launch fueling and launch pad pressure control
- High-pressure oxygen systems
- Ground support hardware
- Equipment calibration and system validation

## FEATURES

- Space-saving modular assembly
- Fewer fittings = fewer leak paths
- Reduced installation labor
- Rated for 10,000 PSIG (689.5 BAR) operating pressure
- Flow coefficient (Cv): 2.0
- Robust design for long cycle life

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

## SPECIFICATIONS

- **MAXIMUM OPERATING PRESSURE :**
  - 10000 PSIG / 689.5 BAR
- **MAXIMUM ACTUATION PRESSURE:**
  - 110 PSIG / 7.6 BAR
- **FLOW (Cv):** 2.0

## PORTING

- **PROCESS PORT OPTIONS:**
  - See selection chart
- **ACTUATION PORT:**
  - 1/8" FNPT
  - AS5202-04

## MATERIALS OF CONSTRUCTION

### PROCESS SIDE WETTED:

- **BODY/INSERT/STEM/INLET ADAPTER MATERIAL OPTIONS:**
  - C693 Eco Brass
  - 316 Stainless Steel
- **VALVE SEAT OPTIONS:**
  - Vespel SP-1 (*standard*)
  - PCTFE (*optional*)
- **O-RING SEAL OPTIONS:**
  - Buna-N
  - Viton-A
  - EPDM
  - FFKM (*contact Premier for pricing*)
  - Polyurethane
  - Low temp nitrile
- **LUBRICANT:**
  - Krytox 240AC (*standard*)
  - Molykote 44 medium lubricant (*mod, recommended for water service*)

### ACTUATOR SIDE WETTED:

- **PISTON/PLUG/BONNET:**
  - 303 Stainless Steel

### NON-WETTED:

- **SCREW:** 18-8 Stainless Steel
- **SPRING:** Chrome Silicon, Vinyl Coated
- **BACKUP RINGS:** PTFE and PEEK
- **HARDWARE:** 18-8 Stainless Steel
- **PLATES:** 304 Stainless Steel
- **BODY MOUNTING ADAPTERS:**
  - 303 Stainless Steel

## OPTIONS

- Private label
- Solenoid valve (*1/8" FNPT actuation port only*)
- Switch ports
- Indicator switch sold separately (P/N: 70-00434)

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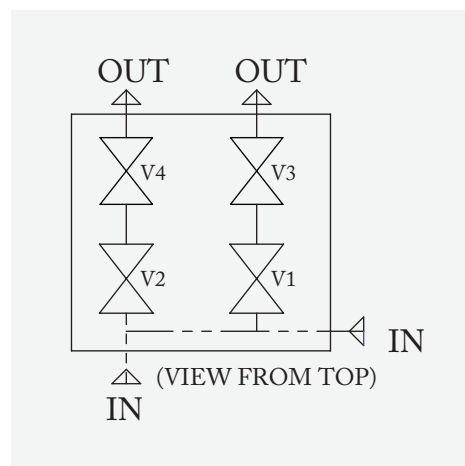
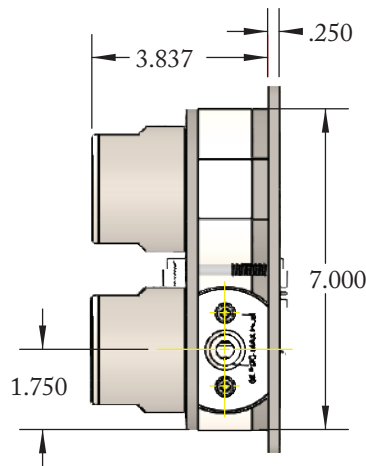
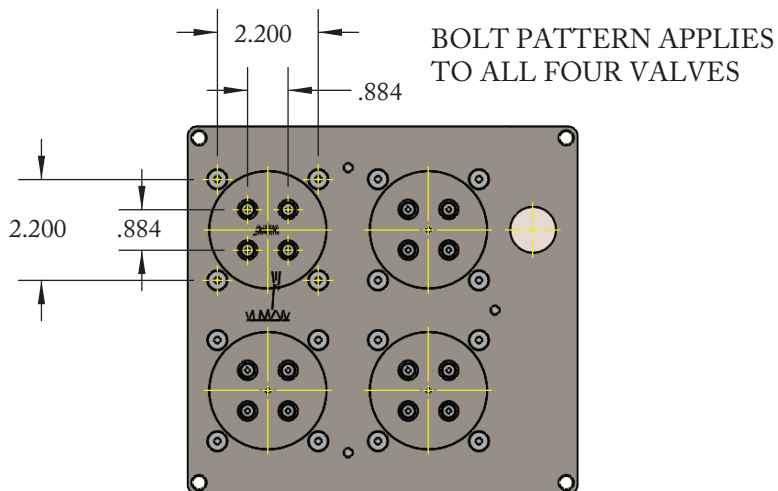
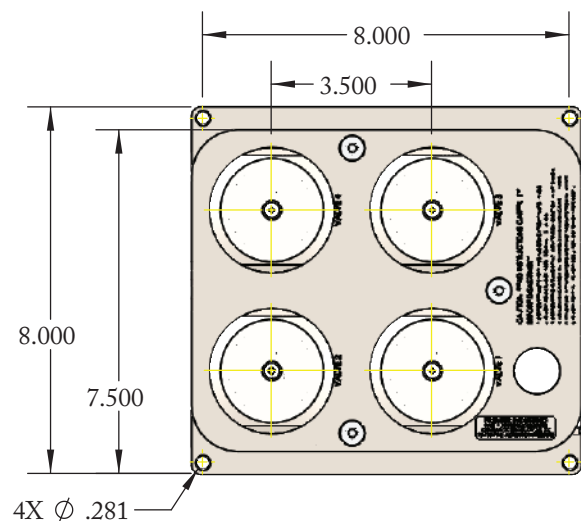
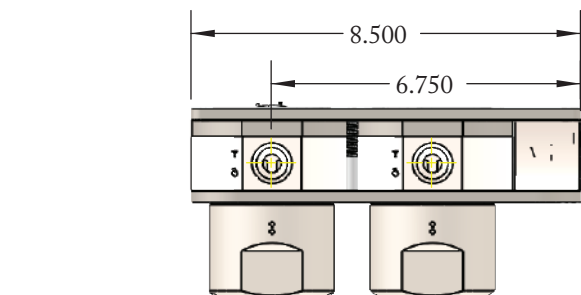
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*PEEK® is a registered trademark of Victrex PLC*

# AO 2.0 QUAD PACK

**Pneumatically Operated Valve Assembly**  
4, Cv 2.0, High Pressure Valves

**PART NUMBER: 70-00508**



# AO 2.0 QUAD PACK

Pneumatically Operated Valve Assembly  
4, Cv 2.0, High Pressure Valves

PART #	-	1	-	2	3	-	4	5	-	MODS
70-00508	-		-			-			-	

1	TYPE
1	NORMALLY OPEN
2	NORMALLY CLOSED
2	<b>BODY/INSERT/STEM MATERIAL</b>
2	316 STAINLESS STEEL
3	C693 ECO BRASS
3	<b>O-RING MATERIAL</b>
1	BUNA-N
2	VITON-A®
3	EPDM
4	FFKM (CONTACT PREMIER FOR PRICING)
5	POLYURETHANE
6	LOW TEMP NITRILE

4	PROCESS PORTS
1	1/2" FNPT
2	3/8" FNPT
3	SAE AS5202-08 (1/2" TUBE)
4	9/16" MEDIUM PRESSURE
5	SAE AS5202-06
6	9/16" MEDIUM PRESSURE INLET AND AS5202-08 OUTLET
7	SAE AS5202-16 (1" TUBE)
5	<b>ACTUATION PORT</b>
1	1/8 (F)NPT
2	AS5202-04

SPECIAL MODS**	
BLANK	NONE
1	4X INDICATOR SWITCH PORTS <span style="color: red;">△</span>
2	SOLENOID VALVE
4	MOLYKOTE 44 MEDIUM LUBRICANT
9	PTFE SEAT (DERATES VALVE TO 3000 PSIG)
P	PEEK 1000 SEAT MATERIAL
C	IEST-STD-CC1246 200R4 CLEANING
V	VESPEL SP-21 SEAT
N	PCTFE SEAT <span style="color: red;">△</span>
T	ANTI-VIBRATIONAL COLLAR (MEDIUM PRESSURE PORTS ONLY)

NOTES:  
△ VALVES ORDERED WITH BOTH NORMALLY OPEN AND PTFE SEAT MODIFIER MAY NOT HAVE SWITCH PORT MODIFIERS

CONSULT PREMIER INDUSTRIES IF ORDERING SPECIAL MODS, OR IF UNLISTED CONFIGURATIONS ARE REQUIRED.

ADD ALL MODS TO END OF PART# (EX. 70-00504-1-22-12-1)

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