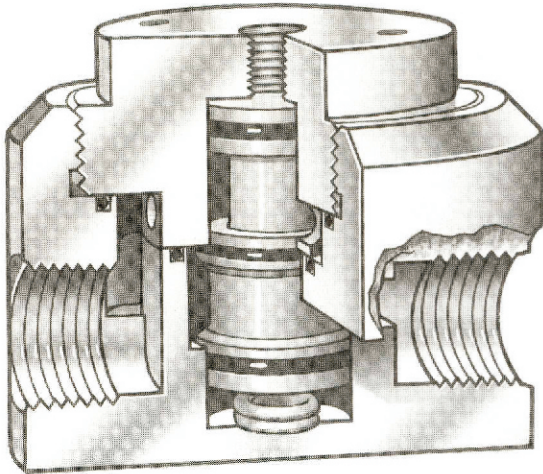


AOV



PATENT NO. 4,267,861

DESIGN FEATURES

The R-K AOV series air valve features a compact thermoplastic valve available in six models to handle a multitude of piping system functions.

This patented valve is designed so there is no metal contact with the fluid, and can be operated in any position.

Air actuated at 40 to 80 PSI.

Direct acting full flow with top entry for easy maintenance and minimum water hammer.

Suitable for most harsh chemicals, pollution control, wet processing stations, plating equipment, chemical processing and water treatment applications.

AIR OPERATED VALVE

SPECIFICATIONS

Operating Pressure Range	Vacuum to 150 PSIG
Material	Valve Body PVC Type 1, Grade 1 Polypropylene PVDF Teflon
	Seal EPDM VITON KALREZ
Temperature Range	0 F to 140 F for PVC 0 F to 180 F for POLYPRO 0 F to 280 F for PVDF 0 F to 340 F for TEFLON
Valve ports	1/4" to 1" Valve FNPT 1.5" to 2" Valve MPT All valves are fully ported

Valve Types:

- Type 1: Normally Closed
- Type 2: Normally Open
- Type 3: Air to open - Air to close (No spring action)
- Type 4: Bottom flow control (has an adjusting screw located on bottom to limit the flow, apply air to open to pre-set flow rate; air off, valve returns to normally close position)
- Type 5: Top flow control (an adjusting screw located on top to permit a constant pre-set flow, apply air to full flow, air off to return to pre-set flow)
- Type 6: Top and Bottom flow control (combination of Type 4 and Type 5)

Mounting Method (4) 1/4" -20 tapped holes for standard machined valve body. (1/4" to 1.00")
(2) cut-out slots on molded valve body (1/2" to 1.00")

ORDER INFORMATION

The chart below will specify R - K standard valves regarding valve size, valve material, and seal material. For special orders, please consult the factory for pricing and delivery information.

AOV - X X X - X X - X

VALVE SIZE

- 25 = 1/4"
- 50 = 1/2"
- 75 = 3/4"
- 100 = 1.0"
- 150 = 1.5"
- 200 = 2.0"

MATERIAL

- 1 = PVC
- 2 = POLYPRO
- 3 = PVDF
- 4 = TEFLON
- 5 = OTHER (Please specify)

SEALS

- E = EPDM
- V = VITON
- K = KALREZ
- O = OTHER (Please specify)

X = MOLDED BODY
(1/2"-3/4"-1" ONLY)

VALVE TYPE

- 1 = NORMALLY CLOSED
- 2 = NORMALLY OPEN
- 3 = AIR TO OPEN/CLOSE
- 4 = BOTTOM FLOW CONTROL
- 5 = TOP FLOW CONTROL
- 6 = TOP AND BOTTOM FLOW CONTROL

R-K INDUSTRIES

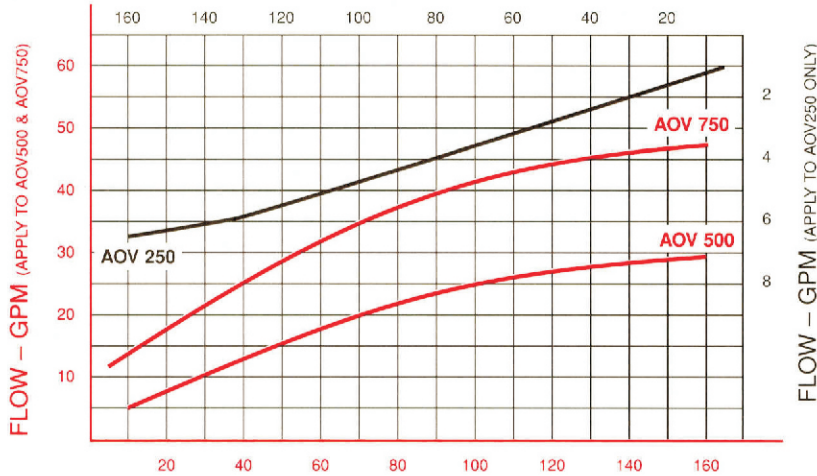


1120 E. LOCUST STREET
ONTARIO, CA 91761

(909) 947-5227 • FAX: (909) 947-3039 • <http://www.rkvalve.com>

ENGINEERING & PERFORMANCE DATA

INLET PRESSURE – PSIG (APPLY TO AOV250 ONLY)



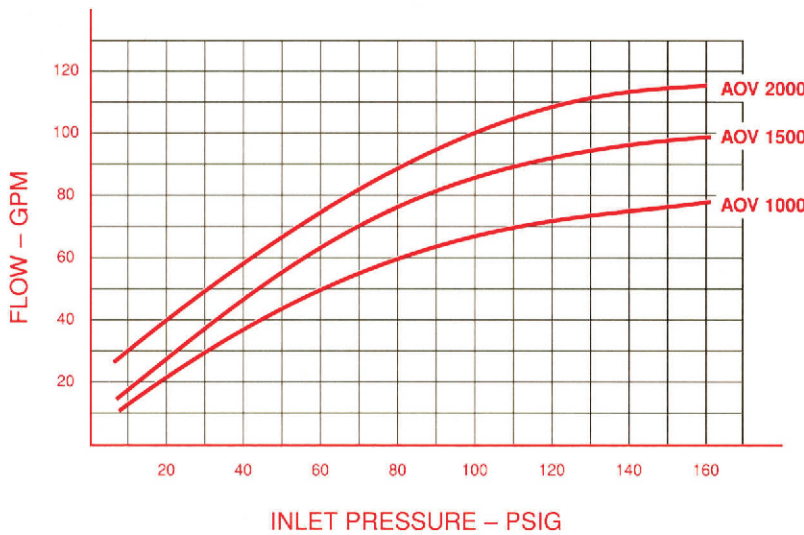
NOTES

TEST DATA WAS PERFORMED WITH 68 DEGREE F WATER, AND 160 PSIG MAXIMUM PRESSURE.

THESE PERFORMANCE CURVES WILL BE CHANGED WITH HIGHER VISCOSITY LIQUID AND/OR HIGHER TEMPERATURE.

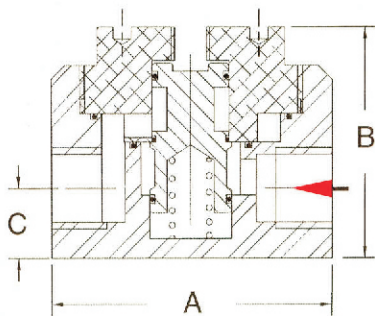
CONSULT YOUR LOCAL SALES REP OR THE MANUFACTURER DIRECTLY FOR CUSTOM PRODUCTS OR SPECIAL APPLICATIONS.

INLET PRESSURE – PSIG (APPLY TO AOV500 & AOV750)



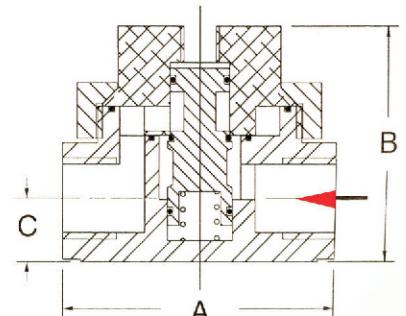
DIMENSIONAL DATA

DIMENSIONS IN INCHES () MOLDED BODY DIM



Valve size	Ports	A	B	C	Cv
1/4"	FNPT	2.00	1.80	.5	.58
1/2"	FNPT	3 (2.9)	2.5 (2.4)	.7 (.7)	2.42
3/4"	FNPT	3.5 (3.3)	3 (2.8)	.9 (.7)	3.28
1.0"	FNPT	4 (3.9)	3.5 (3.3)	1.1 (.9)	4.32
1.5"	MPT	5.0	4.7	1.5	16.1*
2.0"	MPT	6.0	5.5	1.7	21.7*

(*) Cv value @ 150 GPM



R-K INDUSTRIES



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