



How To Order 76, 82, 86 & 96 Series Manual & Actuated Valves

2 Otter Court, Raymond, New Hampshire 03077 • Tel. (603) 895-4761 • FAX (603) 895-6785 • www.geminivalve.com

Manual Valves 76, 86 & 96 Series

Specify Quantity, **Size** and **Product Code** separated by dashes. Example:

1 76-6-RT-6-L

Size	Product Code					
	Series	Body Materials	Seats & Stem Seal Material	Ball & Stem Materials	Special Features	Operator (Handle)
1/4*	76 Single Piece Bar Stock Body	1 ASTM B-16 Brass	RT Glass Filled Reinforced P.T.F.E.	6 316 Stainless Steel	A Ball Cavity Pressure Equalizing Vent 'A' Style	L Lever
3/8*	86 Two Piece Bar Stock Body - Standard Port	4 Carbon Steel		16 Alloy 20 1/2" - 1" 76 Only	B Ball Cavity Pressure Equalizing Vent 'B' Style	LL Latching Lockable
1/2	96 Two Piece Bar Stock Body - Full Port	6 316 Stainless Steel		19 Monel 1/2" - 1" 76 Only	FC NSF Listed - See Literature for Details	SL Stainless Steel Lever
3/4	* - 86 Series Only ** - 76 & 86 Series Only	16 Alloy 20 - 1/2" - 1" 76 Only			S Special - Consult Factory	C 'C' Style
1		19 Monel - 1/2" - 1" 76 Only				W Wing
1-1/4						R Round / Oval
1-1/2						Z Actuator Drive Key
2**						Z1 Actuator Drive Key 0.8 port valves to B410 Double-Acting & A510 Actuators

Note: Threads Female N.P.T. To order B.S.P.T. / J.I.S. Threads use prefix **Rc**. Example **Rc1 76-6-RT-6-L**

82 Series

Specify **Size**, **Connection**, **Port**, **Series - Materials**, **Special Features** (if required) and **Operator** Example:

1/2 TC 0.4-82-6-RT-6-R

Size	Connection	Ball Size	Series - Materials	Special Features	Operator
1/4	TC Tube Compression	0.4	82-6-RT-6 316 Stainless Steel	A Ball Cavity Pressure Equalizing Vent 'A' Style	L Lever Handle
3/8	NP NPT Threaded	0.4	82-1-RT-6 Brass	B Ball Cavity Pressure Equalizing Vent 'B' Style	SL Stainless Steel Lever
1/2	RC B.S.P.T. & J.I.S. Threaded	0.4		S Special - Consult Factory	C 'C' Style
3/4		.50			W Wing
1		.60			R Oval / Round
					LL Latching Lockable

Note: To order tube by threaded connection specify size type of each separated by an 'x'. Example: **1/2TC x 1/2NP 0.4-82-6-RT-6-L**

Actuators

Follow the same instructions for **Manual Valves** through **Special Features** of **Product Code** and add the following: **Actuator**. Example:

1 76-6-RT-6-A512D-PMK-3-A510

Valve Series & Size				Pneumatic Actuator
76	82	86	96	
1/2	1/4 - 1/2	1/4 & 3/8	-	A512D (Double-Acting)
3/4	3/4	1/2	-	
1	1	3/4	1/2	A512SR (Spring-Return)
1-1/4	-	1	3/4	
1/2	-	1/4 & 3/8	-	B411D / B412D (Double-Acting)
3/4	-	1/2	-	
1	-	3/4	1/2	B412SR (Spring-Return)
1-1/2	-	1-1/4	1	
2	-	1-1/2	1-1/4	A522D (Double-Acting)
-	-	2	1-1/2	
1-1/4	-	1	3/4	A522SR (Spring-Return)
1-1/2	-	1-1/4	1	
2	-	1-1/2	1-1/4	A421D / A422D (Double-Acting)
-	-	2	1-1/2	
Valve Series & Size <th rowspan="2">Electric Actuator</th>				Electric Actuator
76	82	86	96	
1/2	1/4 - 1/2	1/4 & 3/8		615-(Voltage)
3/4	3/4	1/2		
1	1	3/4	1/2	
1-1/4	-	1	3/4	
1-1/2	-	1-1/4	1-1/4	630-(Voltage)
2	-	1-1/2	1-1/2	
-	-	2	-	

Notes:

Actuator sizing recommendations apply to applications where the pressure differential across the valve is less than 400 psi.

To order a NAMUR style actuator interface for direct / flush mounting of Pilot Valves (double-acting models only) add suffix **N**. Example **B412DN**. A512D & A522D have an integral NAMUR interface.

For Double-Acting Pneumatic Actuators pressurization of the 'B' port causes clockwise rotation of the pinion (shaft). The 'flats' of the pinion are perpendicular to the actuator body. This is the normally closed configuration. Hence the ball valve would be mounted in the closed position.

To utilize the 'B' port to achieve a normally open configuration the designa-

tion **NO** must be included in the Product Code ex., B411NOD. Internal components of the actuator including the piston(s) and pinion would be assembled so the 'flats' of the pinion are parallel to the actuator body when the 'B' port is pressurized and subsequently the ball valve mounted in the open position