



# How To Order 89 Series Manual & Actuated Valves

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## Manual Valves

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

**1 SE F6-0.8-89-6-RTV-6-SL**

Size	Product Code							
	Pipe Connection	Flange & Pipe Connector Material	Port Size	Standard	Full	Center Section	Special Features	Operator (Handle)
1/4	<b>SE</b> Female Screwed End N.P.T. *	<b>F6</b> 316 / CF8M Stainless Steel	<b>0.5</b>	1/2	1/4 & 3/8	<b>89-6-RTV-6</b>  Body, Insert and Ball 316 / CF8M Stainless Steel. Seats & Stem Seal Glass Filled Reinforced P.T.F.E. Body Seals Viton.	<b>A</b> Ball Cavity Pressure Equalizing Vent 'A' Style	<b>SL</b> Stainless Lever
3/8	<b>SW</b> Socket Weld	<b>F4</b> 316 / CF8M Stainless Steel Pipe Flange, Carbon Steel Pipe Connector Note: Available for SW Pipe Connections Only	<b>0.6</b>	3/4	1/2	<b>89-6-RTT-6</b>  Same as above but with P.T.F.E. (Teflon) Encapsulated Viton Body Seals.  Note: Other Optional Body Seal Materials Available - Please Consult Factory	<b>B</b> Ball Cavity Pressure Equalizing Vent 'B' Style	<b>HS</b> Oval
1/2	<b>BW5</b> Butt Weld Schedule 5		<b>0.8</b>	1	3/4		<b>S</b> Special - Consult Factory	<b>Z</b> Actuator Drive Key
3/4	<b>BW10</b> Butt Weld Schedule 10		<b>1.0</b>	1-1/4	1		<b>S3</b> Assemtrical Handle Stop to Enable 3/16" Lock Hasp To Be Inserted Through Bracket Holes	
1	<b>BW40</b> Butt Weld Schedule 40		<b>1.2</b>	1-1/2	1-1/4			
1-1/4	<b>TSW</b> Tube Socket Weld		<b>1.5</b>	2	1-1/2			
1-1/2	<b>TC</b> Tube Compression							
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\* Note: Threads Female N.P.T. To order B.S.P.T. / J.I.S. Threads use prefix **Rc**. Example **Rc1SE F6-0.8-89-6-RTV-6-SL**

## Center Section Only

Follow the same instructions for Manual Valves starting with **Product Code-Port Size** through **Operator**.  
Example: **0.8 89-6-RTV-6-SL**

## Pipe Adaptor Only

Follow the same instructions for Manual Valves starting with **Size** through **Product Code Center Section** omitting RTV-6. Example: **1SE F6-0.8-89-6**. If two different Pipe Adaptors are required on the same valve, specify one then the other separated by an 'X'. Example: **1SE X 1SW F6-0.8...**

## Actuators

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

**1 SE F6-0.8-89-6-RTV-6-A512D**

Valve Port Size	Pneumatic Actuator
0.5 - 0.8	A512D (Double-Acting) A512SR (Spring-Return)
0.5 & 0.6	B411D / B412D (Double-Acting) B412SR (Spring-Return)
1.0 - 1.5	A522D (Double-Acting) A522SR (Spring-Return)
1.0 - 1.5	A421D / A422D (Double-Acting) A422SR (Spring-Return)
Valve Port Size	Electric Actuator
0.5 - 0.8	615-(Voltage)
1.0 - 1.5	630-(Voltage)

### Notes:

Optional **Limit Switch & Pilot Valves** available, see **How To Order Limit Switches & Pilot Valves**.

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. To order a 90 degree NAMUR interface i.e. for 90 degree rotation of the pilot valve, add suffix **9N**. Example **A512D9N**

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 designation 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



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LIMITED WARRANTY - Copy Available Upon Request.

Specifications subject to change without notice and without obligation on the part of the manufacturer.

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