



# How To Order 309 & 98 Series Manual & Actuated Valves

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## Manual Valves

### 309 Series

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

**1/2 309-6-RTV-6-C-L**

Size	Product Code					
	Series	Body Material	Seats & Stem Seal Materials	Ball & Stem Material	Body Style	Operator (Handle)
1/2	309 Diverter Series	4 Carbon Steel	RTV Glass Filled Reinforced P.T.F.E. Seats and Stem Seal. Seats backed by Viton O-rings*	6 CF8M / 316 Stainless Steel	C Cast	L Lever
3/4		6 CF8M / 316 Stainless Steel				Z Actuator Drive Key

Notes:

Threads Female N.P.T. To order B.S.P.T. / J.I.S. Threads use prefix **Rc**. Example **Rc1/2 309-6-RTV-6-C-L**

\* - Optional O-rings available to meet special application requirements - consult factory for details

### 98 Series

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

**2.0 98-6-RTV-6-X**

Size	Product Code				
	Series	Body Material	Seats & Stem Seal Materials	Ball & Stem Material	Operator (Handle)
2.0	98 Full Port Wafer Style Series	6 CF8M / 316 Stainless Steel	RTV Glass Filled Reinforced P.T.F.E. Seats with Viton Stem Seal.	6 CF8M / 316 Stainless Steel	X Stem Nut Only
3.0					

Note:

A complete line of 98 Series accessories including handles and flanges are available through Gemini Valve Sales & Service. Please contact us for details

## Actuators

### 309 Series

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

**1/2 309-6-RTV-6-C-A512D**

<b>Pneumatic Actuator</b>
A512D (Double-Acting) A512SR (Spring-Return)
B412D3 (Double-Acting) B412SR3 (Spring-Return)
<b>Electric Actuator</b>
615-(Voltage)

#### 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 **B412D3N**. A512D has 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 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

### 98 Series

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

**2.0 98-6-RTV-6-SSD79PFN**

Valve Size	Pneumatic Actuator
2.0	SSD79PFN (Double-Acting) SSD79PFSNST (Spring-Return)
3.0	SSD57PFN (Double-Acting) SSE79PFSNST (Spring-Return)
Valve Size	Electric Actuator
2.0	SSA92-10
3.0	SSC92-25