

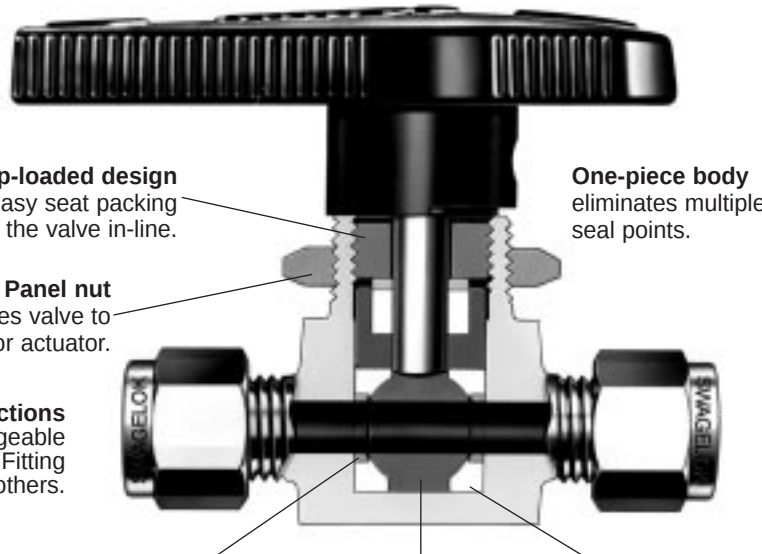
Features

Directional handle
indicates position
of valve.

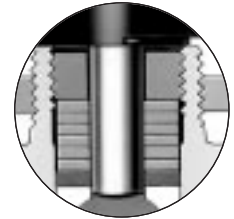
Top-loaded design
allows quick and easy seat packing
adjustment with the valve in-line.

Panel nut
secures valve to
panel or actuator.

End connections
are available in gageable
Swagelok® Tube Fitting
and a variety of others.



One-piece body
eliminates multiple
seal points.

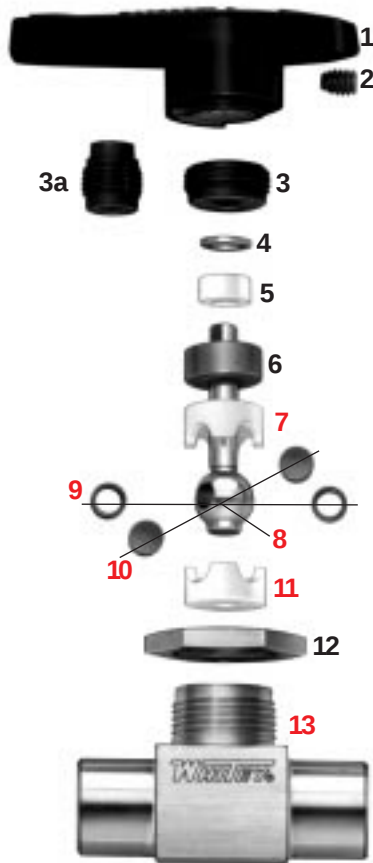


Live-loaded 40 series
available with PFA or
UHMWPE packing.
See page 6.

Metal rings and discs
prevent cold flow of
packing into orifice.

One-piece ball stem
■ eliminates backlash
to ensure alignment
of ball and orifice
■ is available with
optional stem
drillings for special
applications.

Capsule seat packing
■ does not require system pressure
to make a seal
■ allows bi-directional flow
■ has virtually no dead space
■ is easily cleaned or purged
■ is available in a choice of materials
for system compatibility.



Materials of Construction

Components	Valve Body Materials		
	316 Stainless Steel	Brass	Alloy 400
	Grade/ASTM Specification		
1 handle	black nylon (bronze insert)		
2 set screw	17-4PH/A564		
3 packing bolt (43 series)	stainless steel	brass	stainless steel
3a packing bolt (41, 42, 44, 45 series)			
4 upper gland	stainless steel		alloy 400
5 bushing	TFE/D1710		
6 lower gland	stainless steel	brass	alloy 400
7 upper packing	TFE/D1710		
8 stem	316SS/A276	brass/B16	alloy 400/B164
9 side rings	stainless steel	brass	alloy 400
10 side discs			
11 lower packing	TFE/D1710		
12 panel nut	stainless steel	brass/B16	stainless steel
13 body	316SS/A479		alloy 400/B164
Lubrication: silicone base. For valves assembled without lubrication, see Options section on page 8.			

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Note: Wetted parts are numbered in red.

Testing

Standard Production Test – Each valve is factory tested with nitrogen at 1000 psig (68 bar), or at its maximum rated pressure if less than 1000 psig (68 bar), for leakage at the packings. Each test is performed to a maximum allowable leak rate of 0.1 std cm³/min. Optional tests are available. Contact your Authorized Swagelok Sales and Service Representative.

Packing Adjustment

Packing in 40 series ball valves is factory adjusted for service at 1000 psig at 70°F (68 bar at 21°C). Packing adjustment may be needed for service at other pressures.

Packing in 43Y6, 43Z6, and vented 40 series ball valves is factory adjusted for the maximum valve rating of 500 psig at 70°F (34 bar at 21°C).

Dimensions in this catalog are shown with Swagelok nuts finger-tight, where applicable. All dimensions are for reference only, and are subject to change.