



KEYSTONE FIGURE 222 RESILIENT SEATED BUTTERFLY VALVE

Recommended Specifications - Commercial Trim



GENERAL SPECIFICATIONS

- Valves shall be Keystone Figure 222 as manufactured by Emerson Automation Solutions. Valves 8 inch and larger shall be provided with a manual gear or power actuator.

PRESSURE RATING

- The valves shall be capable of bi-directional drop tight shutoff when installed between flanges with the following pressure ratings:
 - NPS 2-12 250 psi
 - NPS 14-24 150 psi
- Lugged style valve shall be capable of holding bi-directional dead end service at the following pressure ratings:
 - NPS 2-12 250 psi
 - NPS 14-24 150 psi

FLANGE MATING

- Valve body shall be lug style and be drilled and tapped to ASME Class 125/150 flange standards.

BODY

- Valve body neck length shall permit for adequate clearance of insulation for valve and piping.
- Laying length shall conform to the current MSS SP 67 and API 609 standards.

DISC AND SHAFT

- The disc edges and hubs shall be polished to reduce frictional torque and to increase cycle life.
- The shaft shall be one piece for high strength and positive disc control.

SEAT

- The seat shall be molded in (2-12) or bonded in (14-24) and ensure drop-tight, bi-directional shutoff.
- The seat shall fully isolate the valve body, stem and journal areas from the flowing media.
- A molded in O-ring shall be used on the flange face to eliminate the need for flange gaskets.

BEARING, BUSHING AND PACKING

- Upper and lower shaft bearing shall be used to reduce operating torque and increase cycle life.
- The valve shall have a heavy-duty upper stem bushing which absorbs side thrust and torque loads.
- Bi-directional stem packing shall be made of NBR and shall be self adjusting.

ACTUATOR MOUNTING

- Valve body shall have an internally cast top plate for direct-flush mounting of manual or power actuators without the use of brackets or adapters.

KEYSTONE FIGURE 222

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SELECTION GUIDE

Example:	22L	0100	10	D2	SG	E1	A1	K	00	000	00
Body style											
22L Lug											
Size											
0050 NPS 2		0250	NPS 10								
0065 NPS 2½		0300	NPS 12								
0080 NPS 3		0350	NPS 14								
0100 NPS 4		0400	NPS 16								
0125 NPS 5		0450	NPS 18								
0150 NPS 6		0500	NPS 20								
0200 NPS 8		0600	NPS 24								
Body											
I0 Cast iron (NPS 2-12)											
D0 Ductile iron ASTM A536 (NPS 14-24)											
Disc											
D2 Ductile iron - nylon coated											
Shaft											
SG 416 Stainless steel (NPS 2-12)											
S2 431 Stainless steel (NPS 14-24)											
Seat											
E1 EPDM											
Flange drilling											
A1 ASME 125/150											
Actuator mounting											
K Keystone mount											
Actuation											
00 None											
H1 10 pos handle - blue											
G1 Gear - blue											
G5 Chainwheel - blue											
Special											
000 None											
Coating											
00 Standard blue											

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