KEYSTONE K-LOK SERIES 36 AND 37

HIGH PERFORMANCE BUTTERFLY VALVES

Recommended Specifications - Commercial Trim

GENERAL SPECIFICATIONS

- Valves shall be Keystone Series 36 and 37 as manufactured by Emerson Automation Solutions. Valves 6 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:
  - ASME Class 150
  - ASME Class 300
- Valves shall be suitable for use with all flange gasket types, including spiral wound metallic gaskets.
- Lug style valves shall be capable of bi-directional full rated end of line service.
- Laying length shall conform to the current MSS SP 68 or API 609 standards.

FLANGE MATING

- Lugged style valves should be drilled and tapped to ASME Class 150 and 300.

BODY

- Valve bodies shall meet the minimum wall thickness requirements of ANSI B16.34.
- Valve bodies shall have an internally cast travel stop to provide positive positioning of the valve disc.
- Valve body neck length shall permit for adequate clearance of insulation for valve and piping.

DISC AND SHAFT

- Valve disc and shaft shall be double-offset design to minimize cycle wear and distortion of seat.
- Valve disc shall provide for maximum flow capacity and low-pressure loss values in the open position using a two-piece shaft design.
- Valve disc shall be secured in a concentric location relative to the seat by means of non-wearing self-lubricating spacer bushings.
- The shaft design should allow a blowout-proof retention design to retain the shaft within the valve in the unlikely event of a disc to shaft failure. This should be a standard feature and shall be API 609 compliant.

SEAT

- Seat shall be of interference fit design and should not rely on line pressure to seal.
- Seat design shall bi-directionally affect tight shutoff for all differential pressures through the full pressure class rating.
- Seat shall be easily replaceable without removing disc or shaft from valve.
- Valve seats shall be located in the valve body and secured in place by means of a retaining ring.

SHAFT PACKING

- Shaft packing shall be adjustable and packing adjustment nuts shall have full 180° clearance for ease of wrench access and rotation.
- Packing leaks will be reduced by the use of a rocker shaped gland bridge which compensates for uneven adjustment of gland nuts.
- Shaft packing shall be equally suitable for vacuum and pressure service as a standard.

SHAFT SUPPORT BEARINGS

- Valve journals shall have pressed-fit upper and lower bearings located immediately adjacent to flatted body bore surface for maximum shaft support.

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.

SELECTION GUIDE

Example:	040	36	2	C	S	S	1	T	S	F	0

Size (NPS)

020	**050**	**120**	**200**
025	**060**	**140**	**240**
030	**080**	**160**	
040	**100**	**180**	

Series

36 150 ASME
37 300 ASME

Body style

2 Lug[1]

Body material

C Carbon steel

Disc material

S 316 stainless steel

Shaft

S 17-4 PH SS

Seat material

1 RTFE/SS

Packing material

T PTFE

Bearings

S Stainless steel/TFE

Body gaskets

F Fiber

Actuation

0 None
1 10 pos handle
2 Gear
3 Chainwheel

1. All lug valves have bolted seat retainers for full rated bi-directional dead end service.