

tyco

Flow Control

KEYSTONE

Features

- Ported gate design for superior slurry handling capabilities.
- A choice of both full bore models and reduced bore polyurethane seated versions matched to lined pipe bores.
- Bi-directional sealing capabilities.
- Dual hardness reinforced Elastomer seats to minimise wear and provide energised gate seal.
- Rilsan (Nylon 11) coating on all wetted components and upstands.
- Flushing ports provided as standard.
- Semi-energised gland to minimise periodic adjustment.
- Stainless steel fasteners used throughout.
- Body shrouds and spindle covers provided as standard.
- Maintenance friendly replaceable seat with intergral flange gasket.
- Designed to comply with MSS SP 81.
- A range of seat options available.
- Flange Drillings available AS 2129 C, D, E, ANSI 125 & 150, DIN 6, 10, 16 & JIS 5 & 10.

A ruggedly designed bi-directional ported slidegate valve for abrasive, corrosive and scaling applications.



General applications

The Keystone ported slidegate is designed for a wide range of applications such as:

- Pulp & paper
- Mining
- Effluent handling plants
- Bulk conveying
- Slurries



Technical data

Pressure Rating:

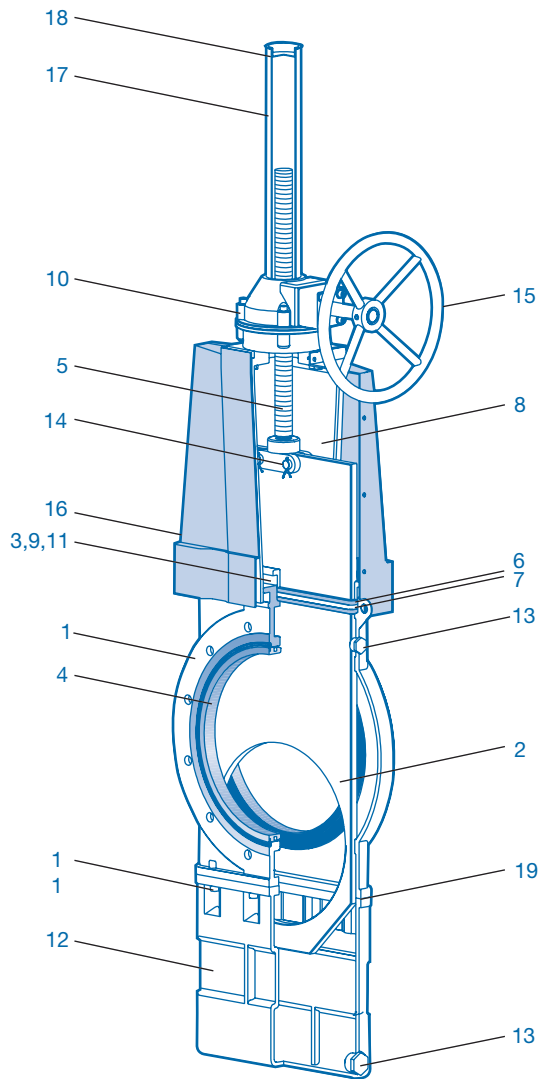
250 to 400mm = 1600 kPa
450 to 600mm = 1000 kPa
700 to 750mm = 600 kPa

Temperature Rating:

Elastomer seats = up to 120°C
Polyurethane seats = up to 60°C
Consult Factory for higher temperature applications.

Knifegate valves – Figure 955

Sizes 250 - 750mm Ported slidegate



Note:

The gate shroud has been sectioned for clarity.

Parts list

No.	Description	Material
1	Body*	S.G. Iron
2	Gate	316 S/S, SAF 2205 S/S
3	Gland follower*	S.G. Iron
4	Seat	EPDM, Natural rubber, Polyurethane
5	Spindle assembly	304 S/S
6	Gland packing	K-LON
7	Cord energizer	Neoprene
8	Upstand*	Carbon steel
9	Gland stud	304 S/S
10	Gearbox	Commercial
11	Fasteners	304 S/S
12	Bucket*	S.G. Iron
13	Flushing plug	316 S/S
14	Clevis pin/split pin	304 S/S
15	Handwheel	S.G. Iron
16	Gate shroud	ABS
17	Spindle cover	Polycarbonate
18	Cover cap	Polyethylene
19	Gasket	Neoprene

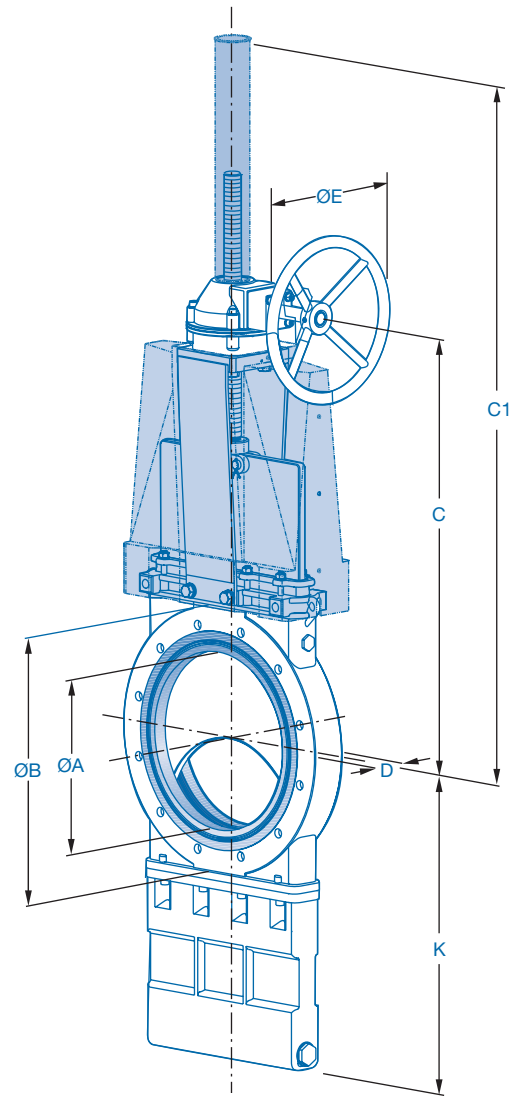
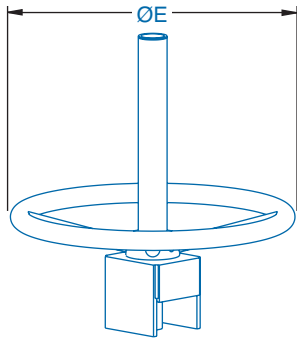
Note:

* Components coated with Rilsan (Nylon 11)
 ABS = Acrylonitrile Butadiene Styrene

Knifegate valves – Figure 955

Sizes 250 - 750mm Ported slidegate

Optional Actuation



Dimensions (mm)

Valve size	Port ØA*	ØB	C	C1	D	ØE	K	Unit ratio	Mass# (kg)
250	250	406	715	1106	70	400	500	4:1	100
300	300	480	793	1239	76	400	570	◆ 4:1	130
350	350	534	873	1369	76	400	656	◆ 4:1	170
400	400	600	979	1530	88	400	715	4:1	241
450	450	640	1054	1660	88	600	770	4:1	295
500	500	715	1141	1802	113	600	860	6:1	390
600	600	840	1337	2122	113	600	1020	6:1	560
700	700	910	1536	2426	117	600	1182	6:1	690
750	750	995	1626	2566	118	600	1280	6:1	870

Notes:

Mass is of the valve only.

* Reduced bore valves are only available in polyurethane seats (Consult factory for details).

C1 = The distance from the valve centreline to the top of the valve spindle.

Dimensions are nominal.

◆ = Denotes direct handwheel model available as option for light duty.

Knifegate valves – Figure 955

Sizes 250 - 750mm Ported slidegate

Typical specifying sequence - Full bore ported slidegate valve

Example: 450	F955	208	AE	HW
Valve size	Figure No.	Trim code	End connection.	Actuation (handwheel)

Size range: 250 - 750mm

Figure No: F955 - Full bore ported slidegate valves

Figure No.	Trim code	Body	Gate	Seat	Gland box	Spindle	Packing
F955	208	S.G. Iron	316 S/S	EPDM	S.G. Iron	304 S/S	K-LON
F955	209	S.G. Iron	316 S/S	Nat. Rubber	S.G. Iron	304 S/S	K-LON
F955	210	S.G. Iron	316 S/S	Polyurethane	S.G. Iron	304 S/S	K-LON
F955	214	S.G. Iron	SAF 2205	EPDM	S.G. Iron	304 S/S	K-LON
F955	215	S.G. Iron	SAF 2205	Nat. Rubber	S.G. Iron	304 S/S	K-LON
F955	216	S.G. Iron	SAF 2205	Polyurethane	S.G. Iron	304 S/S	K-LON

Typical specifying sequence - Reduced bore ported slidegate valve

Example: 450	F955	210	-10	AE	HW
Valve size	Figure No.	Trim code	Reduced bore	End connection	Actuation (handwheel)

Size range: 250 - 750mm

Figure No.: F955 - Reduced bore ported slidegate valve for use on lined pipes

Figure No.	Trim code	Body	Gate	Seat	Gland box	Spindle	Packing
F955	210	S.G. Iron	316 S/S	Polyurethane	S.G. Iron	304 S/S	K-LON
F955	216	S.G. Iron	SAF 2205	Polyurethane	S.G. Iron	304 S/S	K-LON

Notes:
 Reduced bore valve are used on lined pipes.
 The reduced bore value nominated determines the reduction in the internal diameter. (i.e., -10 = 10mm reduction in bore diameter -20 = 20mm I.D reduction).

End connections to suit (depending on Flange OD compatibility)

- AC = AS2129 C
- AD = AS2129 D
- AE = AS2129 E
- AN = ANSI 150
- DIN6 = DIN 250I PN6
- DIN10 = DIN 250I PN10
- DIN16 = DIN 250I PN16
- JIS5 = JIS PN6
- JIS10 = JIS PN10

Note:
 To avoid possible injury, keep clear of the valve assembly during operation. To minimise risk to personnel, Keystone recommend the use of purpose built guards and shrouds. Refer to the Keystone Data Sheet or consult factory for details.