

CLARKSON DUAL GLAND PORTED SLIDE GATE VALVES

FIGURE 956

A bi-directional dual gland ported slide gate valve for abrasive, corrosive and scaling applications



FEATURES

- Bi-directional sealing capabilities.
- Minimal flushing required with dual glands.
- A choice of both full bore models and reduced bore polyurethane seated versions matched to lined pipe bores.
- Dual hardness reinforced elastomer seats to minimize wear and provide energized gate seal.
- Rilsan (Nylon 11) coating on all wetted components and upstand.
- Flushing ports provided as standard.
- Semi-energized glands to minimize periodic adjustment.
- Stainless steel fasteners used throughout as standard.
- Body shrouds and spindle cover provided as standard.
- Maintenance friendly replaceable seat with integral flange gasket.
- Designed to comply with MSS SP-81.
- A range of seat options available.
- Flange drillings available AS 2129 C, D, E, ASME 125 and 150, DIN 6,10, 16 and JIS 5 and 10.

GENERAL APPLICATION

The Clarkson glanded and ported slide gate valve is designed for a wide range of applications such as:

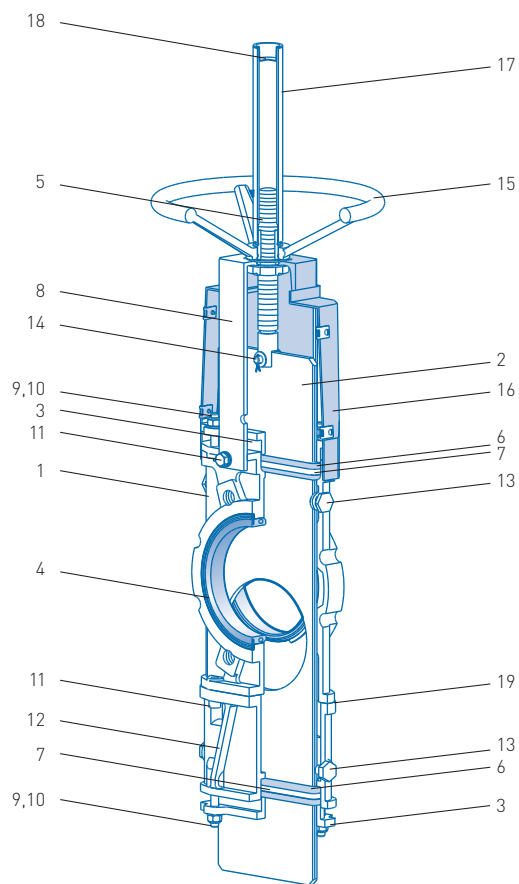
- Pulp and paper
- Mining
- Effluent handling plants
- Bulk conveying
- Slurries

TECHNICAL DATA

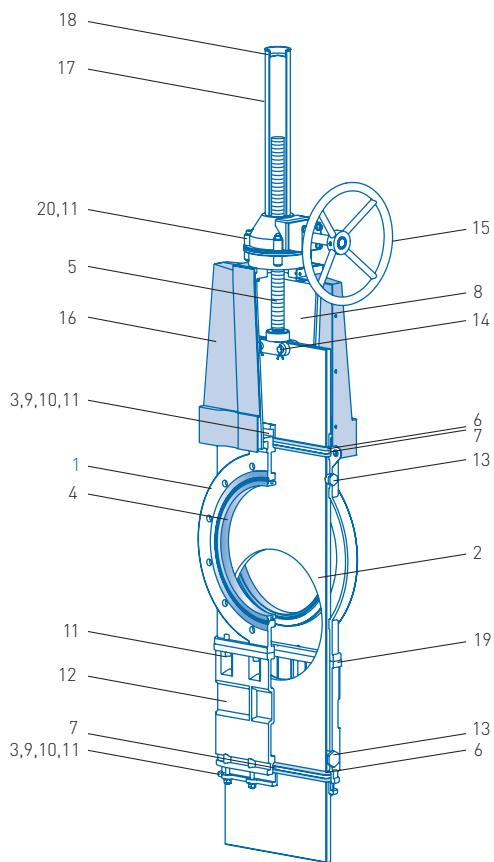
Size range: DN 50 - 750 (NPS 2 - 30)
 Temperature rating: Elastomer seats up to 120°C (250°F)
 Polyurethane seats up to 60°C (140°F)
 Consult factory for higher temperature applications
 Pressure rating: DN 50 - 200 = 1600 kPa (NPS 2 - 8 = 230 psi)
 DN 250 - 400 = 1600 kPa (NPS 10 - 16 = 230 psi)
 DN 450 - 600 = 1000 kPa (NPS 18 - 24 = 145 psi)
 DN 700 - 750 = 600 kPa (NPS 28 - 30 = 90 psi)
 Consult factory for higher pressure applications

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FIGURE 956



Note: DN 50 - 200 (NPS 2 - 8) valve illustrated.
The front half of the gate shroud has been removed for clarity.



Note: DN 250 - 750 (NPS 10 - 30) valve illustrated.
The front quarter of the gate shroud has been removed for clarity.

PARTS LIST

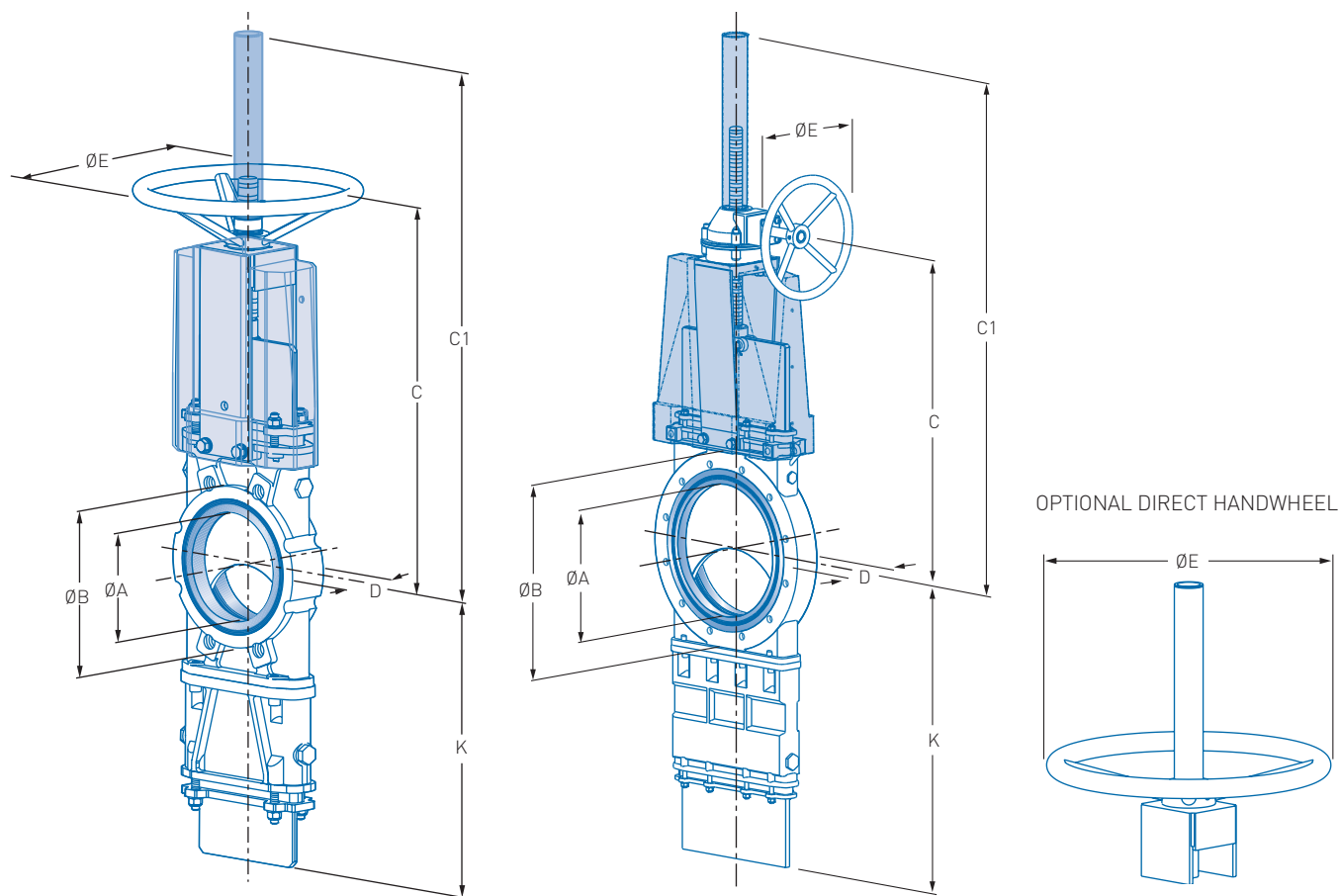
No.	Description	Material
1	Body*	S.G. Iron
2	Gate	316 S/S, SAF 2205 S/S
3	Gland follower*	S.G. Iron
4	Seat	EPDM, natural rubber, polyurethane
5	Spindle	304 S/S
6	Gland packing	K-LON
7	Cord energizer	Neoprene
8	Upstand*	Carbon steel
9	Gland stud	304 S/S
10	Gland nut	304 S/S
11	Fasteners	304 S/S
12	Extension housing*	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
20	Gearbox	Commercial

NOTES

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

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FIGURE 956



Note: DN 50 - 200 (NPS 2 - 8) valve illustrated.

Note: DN 250 - 600 (NPS 10 - 24) valve illustrated.

DIMENSIONS mm (inches)

Valve size DN (NPS)	Port ØA*	ØB	C	C1	D	ØE	K	Unit ratio	Mass❖ kg (lbs)
50 (2)	50 (2.0)	100 (3.94)	316 (12.44)	429 (16.89)	48 (1.89)	200 (7.87)	228 (8.98)	-	16 (35)
65 (2½)	65 (2.5)	122 (4.80)	339 (13.35)	452 (17.80)	48 (1.89)	200 (7.87)	275 (10.83)	-	18 (40)
80 (3)	80 (3.0)	138 (5.43)	369 (14.53)	507 (19.96)	51 (2.01)	200 (7.87)	309 (12.17)	-	20 (44)
100 (4)	100 (4.0)	160 (6.30)	439 (17.28)	587 (23.11)	51 (2.01)	300 (11.81)	360 (14.17)	-	24 (53)
125 (5)	125 (5.0)	245 (9.65)	485 (19.09)	638 (25.12)	57 (2.24)	300 (11.81)	428 (16.85)	-	34 (75)
150 (6)	150 (6.0)	220 (8.66)	521 (20.51)	719 (28.31)	57 (2.24)	300 (11.81)	490 (19.29)	-	43 (95)
200 (8)	200 (8.0)	338 (13.31)	584 (22.99)	918 (36.14)	70 (2.76)	400 (15.75)	614 (24.17)	-	72 (159)
250 (10)	250 (10.0)	406 (15.98)	715 (28.15)	1106 (43.54)	70 (2.76)	400 (15.75)	758 (29.84)	4:1	108 (238)
300 (12)	300 (12.0)	480 (18.90)	793 (31.22)	1239 (48.78)	76 (2.99)	400 (15.75)	881 (34.69)	◆ 4:1	140 (309)
350 (14)	350 (14.0)	534 (21.02)	873 (34.37)	1369 (53.90)	76 (2.99)	400 (15.75)	1013 (39.88)	◆ 4:1	195 (430)
400 (16)	400 (16.0)	600 (23.62)	979 (38.54)	1530 (60.24)	88 (3.46)	400 (15.75)	1149 (45.24)	4:1	270 (595)
450 (18)	450 (18.0)	640 (25.20)	1054 (41.50)	1660 (65.35)	88 (3.46)	600 (23.62)	1266 (49.84)	4:1	345 (761)
500 (20)	500 (20.0)	715 (28.15)	1141 (44.92)	1802 (70.94)	113 (4.45)	600 (23.62)	1393 (54.84)	4:1	462 (1019)
600 (24)	600 (24.0)	840 (33.07)	1337 (52.64)	2122 (83.54)	113 (4.45)	600 (23.62)	1648 (64.88)	4:1	640 (1411)
700 (28)	700 (28.0)	910 (35.83)	1536 (60.47)	2426 (95.51)	117 (4.61)	600 (23.62)	1903 (74.92)	6:1	820 (1808)
750 (30)	750 (30.0)	995 (39.17)	1656 (65.20)	2566 (101.02)	118 (4.65)	600 (23.62)	2029 (79.88)	6:1	1040 (2293)

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 spindle cover.
 - ◆ Optional direct handwheel configuration available on these sizes.
- Dimensions are nominal.

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FIGURE 956

TYPICAL SPECIFYING SEQUENCE - FULL BORE DUAL GLAND PORTED SLIDE GATE VALVE

150 (6)	F956	208	AE	HW
Valve size	Figure number	Trim code	End connections	Actuation (handwheel)

Size range: DN 50 - 750 (NPS 2 - 30)
 Figure No: F956 - Full bore dual gland ported slide gate valves

Trim code	Body	Gate	Seat	Gland box	Spindle	Packing
208	S.G. Iron	316 S/S	EPDM	S.G. Iron	304 S/S	K-LON
209	S.G. Iron	316 S/S	Natural rubber	S.G. Iron	304 S/S	K-LON
210	S.G. Iron	316 S/S	Polyurethane	S.G. Iron	304 S/S	K-LON
214	S.G. Iron	SAF 2205	EPDM	S.G. Iron	304 S/S	K-LON
215	S.G. Iron	SAF 2205	Natural rubber	S.G. Iron	304 S/S	K-LON
216	S.G. Iron	SAF 2205	Polyurethane	S.G. Iron	304 S/S	K-LON

TYPICAL SPECIFYING SEQUENCE - REDUCED BORE DUAL GLAND PORTED SLIDE GATE VALVE

150 (6)	F956	210	-10	AE	HW
Valve size	Figure number	Trim code	Reduced bore	End connections	Actuation (handwheel)

Size range: DN 50 - 750 (NPS 2 - 30)
 Figure No: F956 - Reduced bore dual gland ported slide gate valves for use on liquid pipes

Trim code	Body	Gate	Seat	Gland box	Spindle	Packing
210	S.G. Iron	316 S/S	Polyurethane	S.G. Iron	304 S/S	K-LON
216	S.G. Iron	SAF 2205	Polyurethane	S.G. Iron	304 S/S	K-LON

NOTE

Reduced bore valves are used on lined pipes. The reduced bore valve nominated determines the reduction in the internal diameter (i.e. -10 = 10 mm reduction in bore diameter).

End connections (to suit) (depending on Flange OD compatibility):

- AC = AS2129 C
- AD = AS2129 D
- AE = AS2129 E
- AN = ASME 150
- DIN 6 = DIN 250I PN 6
- DIN 10 = DIN 250I PN 10
- DIN 16 = DIN 250I PN 16
- JIS5 = JIS PN 6
- JIS10 = JIS PN 10

NOTE

To minimize risk to personnel, Emerson recommend the use of purpose built guards and shrouds. Refer to the Emerson data sheet or consult factory for details.

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