
SERIES 755

BIDIRECTIONAL URETHANE LINED KNIFE GATE VALVES

2" to 24" (50-600mm) | 240psi (16bar)



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FEATURES & BENEFITS

DESIGN FEATURES

The Bray Series 755 features a field replaceable polyurethane bore liner making it an economical solution for abrasive applications. Utilizing the same robust steel reinforced perimeter seat as the Series 752 enables bidirectional zero leakage shutoff.

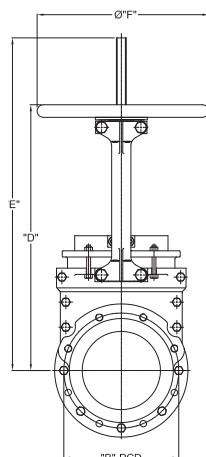
The replaceable steel reinforced perimeter seat is mechanically retained between both halves of the two-piece bolted body providing unsurpassed performance in the most demanding applications.

- 1 Designed for easy, quick conversion between manual and pneumatic actuation. Featuring a lubricant injection port for continuous, smooth operation with minimal maintenance.
- 2 Clevis design and horizontal bolting stabilizes gate ensuring proper alignment.
- 3 Standard multi-layer square packing provides exceptional gland sealing.
- 4 Unrestricted flow path with minimal pressure drop achieved through full port valve design.
- 5 Replaceable steel reinforced elastomer perimeter seat ensures bidirectional zero leakage shutoff.
- 6 Two-piece bolted body for easy maintenance and seat replacement.
- 7 Optional polyurethane liner bonded to both halves of the body (755P) completely protects the valve body from media

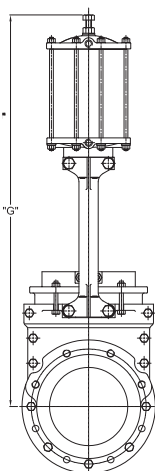
Shown with stem cover (optional).



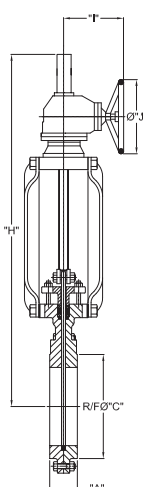
Direct Mounted Handwheel



Pneumatic Actuator



Bevel Gear



Consult factory for hydraulic and electric actuators dimensions.

STANDARD CONSTRUCTION

Body	WCB
Gate	304
Seat	Buna-N
Stem	304
Gland	WCB
Packing	PTFE - Impregnated Synthetic Fiber
Topworks	Steel

SPECIFICATIONS

Size Range	2" to 24" (50 - 600mm)
Pressure Rating	240psi (16bar)
Body Style	Two-piece bolted (Wafer)

STANDARDS

Design	MSS SP-81
Testing	MSS SP-151
Face-to-Face	MSS SP-81
Certification	Canadian CRN
Drilling*	ASME B16.5 CL150

*Additional drilling options available. Consult factory for availability.

ACTUATOR OPTIONS

Direct Mounted Handwheel Standard (2"-10")
Bevel Gear Standard (12"-24")
Pneumatic
Hydraulic
Electric

BODY OPTIONS

CF8
CF8M

GATE OPTIONS

304, 316, 317 Stainless Steel
SAF 2507 Duplex
SAF 2205 Duplex
17-4PH Stainless Steel
Hastelloy® C
Monel®

SEAT OPTIONS

Buna-N	-35°-194°F / -37°-90°C
EPDM	-65°-248°F / -54°-120°C
Viton®	-15°-392°F / -26°-200°C

PACKING OPTIONS

PTFE impregnated synthetic fiber	232°C / 450°F
PTFE w/Buna-N Quad Seal	90°C/194°F
PTFE w/Viton® Quad Seal	200°C/392°F

Additional material options may be available upon request. Consult factory for availability.

DIMENSIONS (inches)

NPS	A	B	C	D	E	F	G	H	I	J
2	1.89	4.76	3.62	13.33	15.87	7.99	18.41	--	--	--
3	2.01	6.02	5.00	15.71	18.49	7.99	21.84	--	--	--
4	2.01	7.52	6.18	17.73	22.73	10.00	25.24	--	--	--
6	2.24	9.53	8.50	22.36	28.74	11.77	33.41	--	--	--
8	2.76	11.77	10.63	24.95	35.28	15.98	40.06	--	--	--
10	2.76	14.25	12.76	31.51	40.67	15.98	50.07	44.27	12.05	20.00
12	2.99	17.01	14.76	--	--	--	55.72	51.61	12.05	20.00
14	2.99	18.74	16.26	--	--	--	59.99	56.59	12.05	20.00
16	3.50	21.26	18.50	--	--	--	70.46	62.83	12.99	20.00
18	3.50	22.76	21.00	--	--	--	77.64	69.59	12.99	20.00
20	4.49	25.00	22.99	--	--	--	86.14	81.10	13.46	20.00
24	4.49	29.53	27.24	--	--	--	99.08	94.15	13.46	20.00

DIMENSIONS (MILLIMETERS)

DN	A	B	C	D	E	F	G	H	I	J
50	48	121	92	379	403	203	510	--	--	--
80	51	153	127	419	470	203	575	--	--	--
100	51	191	157	510	577	254	701	--	--	--
150	57	242	216	622	730	299	903	--	--	--
200	70	299	270	703	896	406	1086	--	--	--
250	70	362	324	800	1033	406	1272	1125	306	508
300	76	432	375	--	--	--	1415	1311	306	508
350	76	476	413	--	--	--	1524	1437	306	508
400	89	540	470	--	--	--	1790	1596	330	508
450	89	578	534	--	--	--	1972	1768	330	508
500	114	635	584	--	--	--	2188	2060	342	508
600	114	750	692	--	--	--	2517	2392	342	508

Dimensions are approximate and subject to change. Consult factory for certified drawings.
Above table is applicable for 10-16 bar. For 20 bar consult factory.

WEIGHTS (lbs)

Size (in.)	2	3	4	6	8	10	12	14	16	18	20	24
Handwheel	37	44	53	88	139	181	--	--	--	--	--	--
Pneumatic Act.	55	73	106	128	205	247	428	721	937	1151	1318	1554
Gear Operator	--	--	--	--	194	254	309	474	664	884	1076	1305

WEIGHTS (kg)

Size (mm)	50	80	100	150	200	250	300	350	400	450	500	600
Handwheel	17	20	24	40	63	82	--	--	--	--	--	--
Pneumatic Act.	25	33	48	58	93	112	194	327	425	522	598	705
Gear Operator	--	--	--	--	88	115	140	215	301	401	488	592

*Approximate weight shown, consult factory for additional configurations

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