

Series 950 Uni-directional Gate Valve

The Series 950 features a two lug, single piece cast stainless steel body for more demanding applications at a lower cost. This design is superior to others in its class. It is zero leakage with metal-to-metal seating in a uni-directional body. Like our other gate valves, there is no obstruction to flow, resulting in low friction losses. Manual or actuated valves are available for all applications.

The Series 950 is a knife gate valve, rather than a regular gate valve. Parallel gate surfaces are replaced with a wedge shape. This makes it far superior at controlling dense and dry media, as well as media with debris, such as pulp/paper. The series 950 is designed to outperform others in its class.

Specifications

Type	Uni-directional knife gate valve.
Size Range	2" - 60" (Higher sizes on application).
Pressure Rating	150psi CWP up to 24" for valves with body in SS and special alloys; 150psi CWP up to 12", 75psi on higher sizes up to 24" with body in cast iron / ductile iron.
End Style	Wafer; flangeless, two lug.
Drilling	Options include ANSI, DIN, BS, JIS and AS standards; others on request.
Body	Cast Iron, Stainless steel and special alloys.
Gate	Stainless steel and special alloys.
Seat	Integrated metal-to-metal, replaceable soft seat (EPDM, Viton etc).
Packing	Braided yarn, PTFE (different grades) and others.
Stem	304 stainless steel standard; others on request.
Superstructure	Steel yoke, epoxy coated standard; others on request.
Actuator Options	Handwheel, chainwheel, bevel gear handwheel or chainwheel, BRAY Pneumatic double-acting cylinder and electric actuators.
Accessories & Options	Various accessories and special construction options are available for this model.



Test Specifications

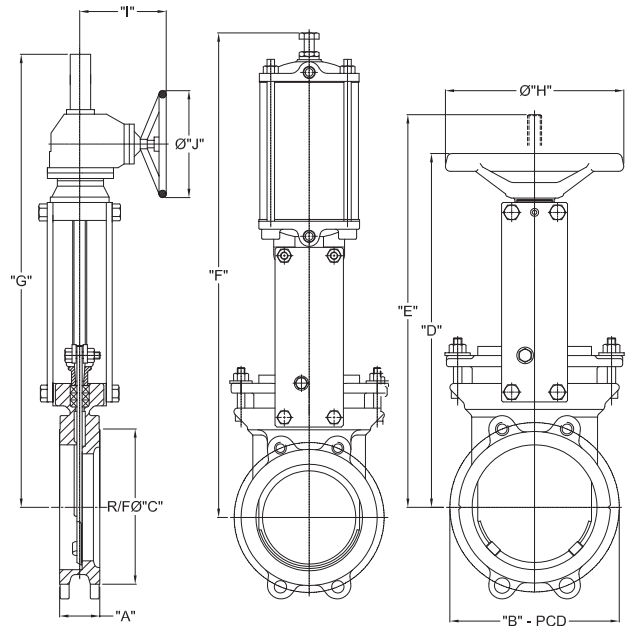
Body Shell Test	As per MSS SP-81 norms. Hydrotest at 1.5 times CWP for Cast Iron Valves.	
Seat Leakage Test	Metal Seated Valves. As per MSS SP-81 norms. Proprietary norms on larger sizes.	Resilient Seated Valves. Zero leakage.

Painting

Except for stainless steel components, all exteriors will be painted with red enamel paint.

Dimensions

Size in. (mm)	A	B-PCD	R/FØC	D	E	F	G	ØH	I	ØJ
2 (50)	1.88 (48)	4.75 (120.5)	3.62 (92)	12.99 (330)	14.17 (360)	18.11 (460)	--	7.99 (203)	--	--
2.5 (65)	2.00 (51)	5.50 (139.7)	4.65 (118)	15.55 (395)	17.72 (450)	23.03 (585)	--	7.99 (203)	--	--
3 (80)	2.00 (51)	6.00 (152.5)	5.00 (127)	15.55 (395)	17.72 (450)	23.03 (585)	--	7.99 (203)	--	--
4 (100)	2.00 (51)	7.50 (190.5)	6.18 (157)	17.52 (445)	20.67 (525)	25.59 (650)	--	7.99 (203)	--	--
5 (125)	2.25 (57)	8.50 (216)	7.32 (186)	18.70 (475)	23.62 (600)	28.54 (725)	--	10.00 (254)	--	--
6 (150)	2.25 (57)	9.50 (241.5)	8.50 (216)	22.25 (565)	25.98 (660)	31.88 (810)	--	10.00 (254)	--	--
8 (200)	2.75 (70)	11.75 (298.5)	10.63 (270)	25.00 (635)	31.89 (810)	38.97 (990)	38.77 (985)	11.75 (298.5)	9.68 (246)	19.68 (500)
10 (250)	2.75 (70)	14.25 (362)	12.76 (324)	27.56 (700)	37.40 (950)	44.48 (1130)	45.27 (1150)	15.98 (406)	9.68 (246)	19.68 (500)
12 (300)	3.00 (76)	17.00 (432)	14.76 (375)	30.51 (775)	42.72 (1085)	51.37 (1305)	52.16 (1325)	15.98 (406)	9.68 (246)	19.68 (500)
14 (350)	3.00 (76)	18.75 (476)	16.26 (413)	32.68 (830)	47.05 (1195)	54.72 (1390)	57.08 (1450)	20.00 (508)	9.68 (246)	19.68 (500)
16 (400)	3.50 (89)	21.25 (540)	18.50 (470)	36.81 (935)	52.17 (1325)	59.84 (1520)	62.99 (1600)	20.00 (508)	9.68 (246)	19.68 (500)
18 (450)	3.50 (89)	22.75 (578)	21.00 (533.5)	41.34 (1050)	59.25 (1505)	67.12 (1705)	68.89 (1750)	20.00 (508)	10.47 (266)	19.68 (500)
20 (500)	4.50 (114)	25.00 (635)	22.99 (584)	46.06 (1170)	65.35 (1660)	73.22 (1860)	75.78 (1925)	20.00 (508)	10.47 (266)	19.68 (500)
24 (600)	4.50 (114)	29.50 (749.5)	27.24 (692)	53.54 (1360)	77.17 (1960)	86.22 (2190)	82.67 (2100)	20.00 (508)	10.47 (266)	19.68 (500)



Dimensions given above are indicative. Please request certified drawings for piping layout.

Actuator Selection

Please contact Bray for complete list of actuator options.

Weights

Size	2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Weight (lbs)	20	--	29	36	47	53	84	137	183	221	313	386	629	794

Valve Flo Capacity (Cv)

Size	2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Round Port	240	--	565	1040	1670	2440	4460	6250	9400	12500	16500	21400	27000	39700
V-Orifice	89	--	210	386	610	900	1660	2320	3490	4650	6110	8000	10101	15100

Optional Construction

Series 950 valves can be offered with a variety of optional constructions.

Accessories

Series 950 valves can be offered with a variety of optional accessories.

Ordering

Please contact Bray for complete ordering information.



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