

Valveco

Heavy Duty Knifegate

General Purpose Lugged Style Knifegates

Heavy Duty General Purpose Lugged Style Knifegate Valve

Features

- Compact design for easy installation and maintenance
- Both 304SS and 316SS valves available
- Available in metal & resilient seat
- Uni & bi-directional design
- One piece integral cast body, chest and lugs
- Integral cast in gate wedges minimize flow obstructions
- High flow rates with low pressure drops
- Gate guides to support gate
- Complies with AS6401 & MSS SP-81 face to face dimensions
- Every valve pressure tested
- Gate machined over full length for optimum sealing
- 50 to 1200mm sizes available, 50 to 600mm kept in stock
- 10 bar pressure rating
- Specifically formulated PTFE impregnated packing material for increased service life and lower friction
- Specialised packing for chemical resistant or abrasive applications available on request
- Available with a variety of actuators including handwheel, chain wheel, quick acting lever, geared, electric, air or hydraulic cylinder actuator

Options

- Bonneted, non-rising stem adapter, deflection cones, positioners, limit switches, solenoids, pneumatic failsafe & shrouds.

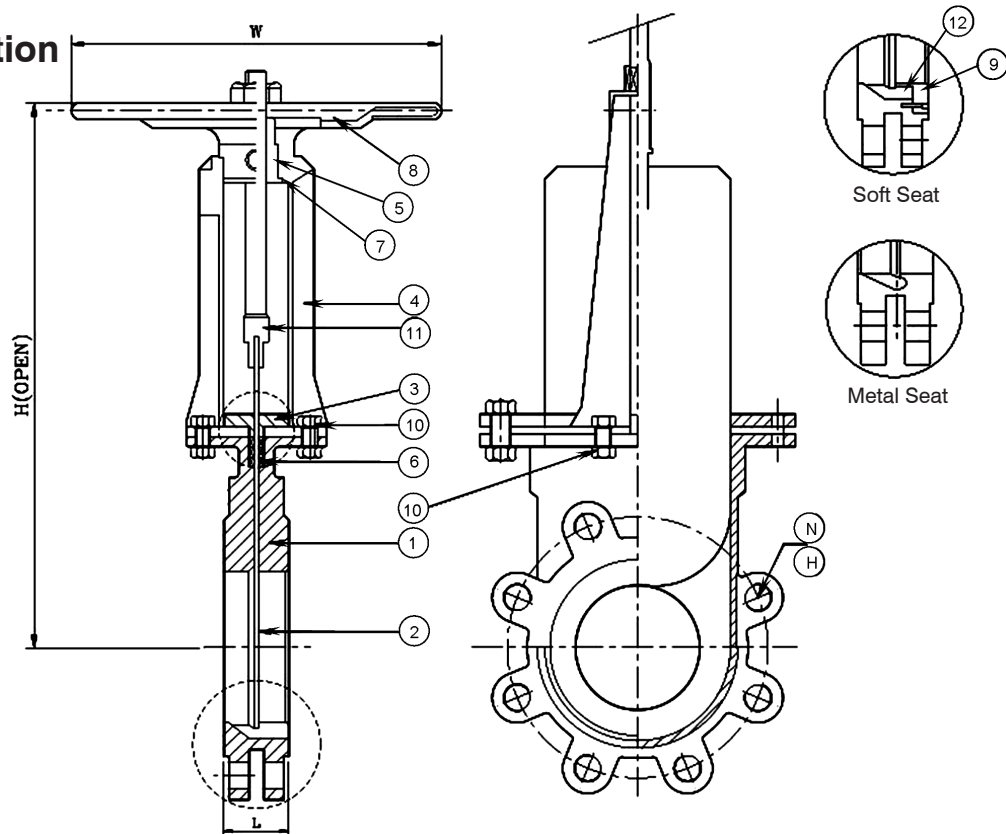


Applications

The Valveco Heavy Duty General Purpose Knifegate Valve is designed for a wide range of applications such as:

- Waste Water & Water
- Mining
- Fly Ash Handling Plants
- Bulk Conveying
- Corrosive Environments
- Pulp & Paper
- Food & Beverage
- Chemical Plants

Manual Actuation



Standard Materials

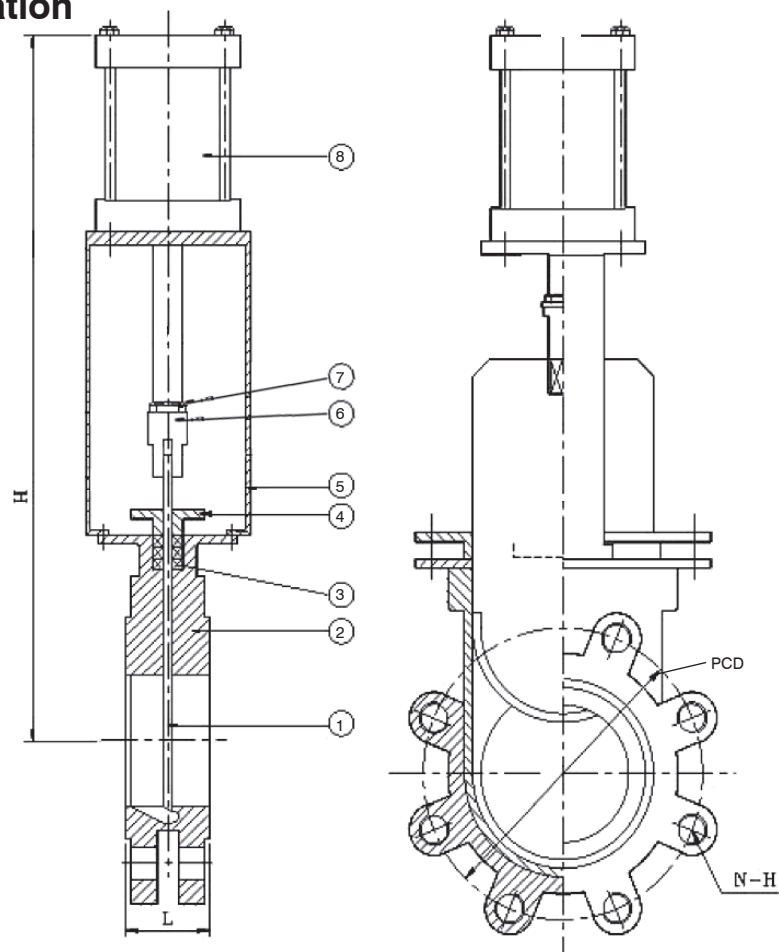
No.	Part Name	Material Code (ASTM)
1	Body	SS304, 316 or 316L (A351-CF8)
2	Gate	SS304, 316 or 316L (A351-CF8)
3	Packing Gland	SS304, 316 or 316L (A351-CF8)
4	Super Structure	SS304, 316 or 316L (A351-CF8)
5	Sleeve	Bronze Casting (C83600)
6	Packing	PTFE Impregnated Braided Fibre
7	Thrust Bearing	2"- 12": Thrust Plate (Bronze) 14"- 24": 51112
8	Hand Wheel	Cast Iron
9	Seat Ring	SS304, 316 or 316L (A351-CF8)
10	Fasteners	SS304, 316 or 316L (A351-CF8)
11	Clevis	SS304, 316 or 316L (A351-CF8)
12	Resilient Seat Replaceable Seat	Viton NBR, EPDM, PTFE, Polyamide

Dimensions

Class	Size	In mm	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
			50	65	80	100	125	150	200	250	300	350	400	450	500	600
10 Bar & 150lb	L mm		48	51	51	51	57	57	70	70	76	76	89	89	114	114
	H mm		350	410	440	520	595	660	880	1025	1190	1355	1530	1690	1880	2200
	PCD mm		114	127	146	178	210	235	292	356	406	470	521	584	641	756
	W mm		200	200	200	225	250	250	280	350	400	400	450	450	600	600
	N-H		4-M16	4-M16	4-M16	4-M16	8-M16	8-M16	8-M16	8-M20	12-M20	12-M24	12-M24	12-M24	16-M24	16-M27
	Weight (kg)		9.5	12	13	16	19	22	34	53	65	90	145	180	227	282

*other flange drilling available

Pneumatic Actuation



Standard Materials

No.	Part Name	Material Code (ASTM)
1	Body	SS304, 316 or 316L (A351-CF8)
2	Gate	SS304, 316 or 316L (A351-CF8)
3	Packing	PTFE Impregnated Braided Fibre
4	Packing Gland	SS304, 316 or 316L (A351-CF8)
5	Super Structure	SS304, 316 or 316L (A351-CF8)
6	Clevis	SS304
7	Piston Rod	SS304
8	Cylinder	Aluminium or Fibreglass

Dimensions

Class	Size	In mm	2 50	2½ 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600
10 Bar & 150lb	L mm		48	51	51	51	57	57	70	70	76	76	89	89	114	114
	H mm		500	561	574	675	750	815	966	1181	1340	1448	1648	1834	2020	2120
	PCD mm		114	127	146	178	210	235	292	356	406	470	521	584	641	756
	N-H		4-M16	4-M16	4-M16	4-M16	8-M16	8-M16	8-M16	8-M20	12-M20	12-M24	12-M24	12-M24	16-M24	16-M27
	Weight (kg)		11	13	15	21	25	31	58	103	137	158	172	202	256	494

*other flange drilling available

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