V850 Gate valve

heating water

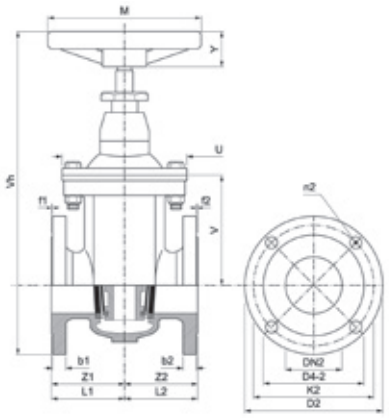


specification

- BS EN 1171:2002
- flanged to EN1092-2
- PN16 all sizes
- ductile iron gate valve
- bronze (gunmetal) seat and trim
- stainless steel stem
- non-rising
- ductile iron body

DN	Connection	Code	Total (kg)	Cv	Kv
DN50	2″	112150	13.0	269.10	230.0
DN65	2 ½″	112151	17.0	421.20	360.0
DN80	3″	112152	19.0	607.23	519.0
DN100	4″	112153	25.0	1079.91	923.0
DN125	5″	112154	34.0	1699.31	1443.0
DN150	6″	112155	40.0	2430.09	2077.0
DN200	8″	112156	68.0	4320.81	3693.0
DN250	10″	112157	101.0	6752.07	5771.0
DN300	12″	112158	137.0	9722.70	8310.0

*Cv - flow rate in US GPM at a pressure drop of 1 psi.
*Kv - flow rate in m3 per hour at a pressure drop of 1 bar.



Dimensions (mm)

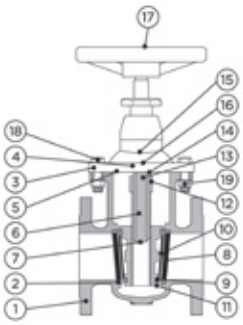
	b1/b2	d2-1/d2-2	d4-1/d4-2	D1/D2	Do1/D02	DN1/DN2	f1/f2	k1/k2	L1/L2	M	n1/n2	U	V	Vh	Y	Z1/Z2
DN50	19.0	19.0	60.0	165.0	60.0	2″	3.0	95.0	85.0	159.0	4.0	96.0	151.0	276.0	42.0	85.0
DN65	19.0	19.0	76.0	180.0	76.0	2 ½″	3.0	106.0	93.0	200.0	4.0	100.0	175.0	311.0	46.0	93.0
DN80	19.0	19.0	88.0	200.0	88.0	3″	3.0	122.0	100.0	200.0	4.0	112.0	209.0	358.0	48.0	100.0
DN100	19.0	20.0	114.0	215.0	114.0	4″	3.0	138.0	115.0	200.0	4.0	120.0	243.0	403.0	52.0	115.0
DN125	19.0	20.0	139.0	250.0	139.0	5″	3.0	188.0	120.0	250.0	4.0	125.0	280.0	465.0	59.0	120.0
DN150	10.0	20.0	168.0	285.0	168.0	6″	3.0	206.0	135.0	250.0	4.0	130.0	326.0	524.0	59.0	135.0
DN200	20.0	21.0	219.0	350.0	219.0	8″	3.0	281.0	148.0	320.0	4.0	160.0	431.0	665.0	59.0	148.0
DN250	22.0	21.0	273.0	400.0	273.0	10″	3.0	330.0	168.0	370.0	4.0	170.0	504.0	763.0	59.0	168.0
DN300	24.0	22.0	323.0	456.0	323.0	12″	3.0	368.0	178.0	390.0	4.0	190.0	565.0	866.0	73.0	178.0

Material specification

Nr	Component	Material
1	Body	Ductile iron
2	Body seat ring	Bronze (Gunmetal))
3	Bonnet	Ductile iron
4	Bonnet bush	Brass
5	Bonnet gasket	EPDM
6	Stem	Stainless steel
7	Stem nut	Brass
8	Wedge	Ductile iron / EPDM
9	Wedge seat ring	Bronze (Gunmetal))
10	Wedge trim	Bronze (Gunmetal))
11	Wedge nut	Bronze (Gunmetal))
12	Gland follower	Ductile iron
13	Gland	Ductile iron
14	Gland packing	Graphite non-asbestos
15	Stuffing box	Ductile iron
16	Stuffing box gasket	Compressed graphite
17	Handwheel	Cast iron
18	Bolt	Steel
19	Nut	Steel

Maximum pressure conditions

Size	Max Pressure (bar)	Min/Max Temperature (°C)	Test Pressure Shell (bar)	Test Pressure Seat (bar)	Max Pressure (psi)	Min/Max Temperature (°F)	Test Pressure Shell (psi)	Test Pressure Seat (psi)
DN50 to DN300	16.0	- 10°C + 180°C	24.0	17.6	232.1	14°F + 356°F	348.1	255.3



Pressure equipment directive category

All sizes classified SEP

V850 PN16 Ductile Iron gate valve with EPDM coated Ductile iron wedge.
The body and internals are epoxy painted and make this suitable for use with potable/ drinking water.

WRAS Approved Certificate Number: 1311090