



NON RISING STEM RESILIENT SEAT GATE VALVE

Product Overview

The valve uses the compensation effect of micro deformation caused by the stress of the elastic gate valve plate to achieve good sealing effect. The medium temperature is not higher than 80°C when it is used. It can be widely used in construction, food, medicine, chemical energy, water supply and drainage and other industries, and it can be used for regulating and closure of pipelines and equipment.

Technical Specification

1. Design according to EN 1171, BS5163, EN 1074-1 and 2.
2. Face to face dimensions according to BS 5163, DIN3202.
3. Hydraulic test according to EN 12266, ISO5208 standard.
4. Flange drilling to EN 1092-2, ISO 7005-2.

Product Features

1. Non-toxic anti-corrosion coating: both the inside and outside surface of the valve are non-toxic epoxy powder electrostatic coating, anti-corrosion long life, can be directly used in drinking water, food and medicine industry.
2. Material: the valve body, bonnet, gate and handwheel are all made of nodular iron, with high strength and corrosion resistance. The valve seat and body are fully formed by precision casting without any machining.
3. Three O-ring seal, water pressure under the action of axial self-sealing, no packing seal adjustment trouble. The top dustproof ring prevents external impurities from entering the inside of the shaft seal.
4. When the valve is fully open, the gate is completely lifted off the flow channel and there is no groove at the bottom of the seat, which is not easy to accumulate sundries. It is equivalent to the straight pipe and has the lowest flow resistance.

Main Technical Parameters

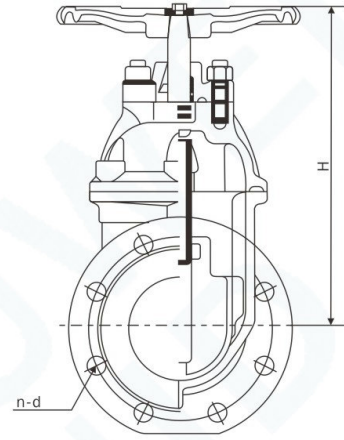
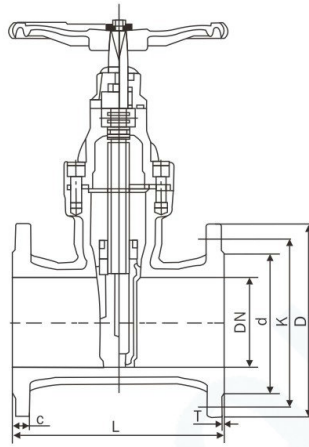
Test pressure	PN10 Shell: 1.5MPa Seal: 1.1MPa PN16 Shell: 2.4MPa Seal: 1.76MPa PN25 Shell: 3.75MPa Seal: 2.75MPa
Execution standard	DIN 1171
Drive way	Manual, Electric, Pneumatic
Applicable temperature	0°C~80°C
Connection End	Flange: BS EN1092-2
Surface treatment	Epoxy powder coating, 150-500um, according to AWWA C550 standard
Application range	Drinking water, water supply and drainage, sewage treatment, irrigation, air conditioning, fire pipe, etc.

Material of Main Parts

No.	Component	Material	No.	Component	Material
01	Body	Ductile iron GGG50	10	Flat gasket	Galvanized carbon steel
02	Elastic wedge	Ductile iron GGG50/EPDM	11	Dust ring	NBR or EPDM
03	Stem	Stainless steel Cr13,304,316	12	Hexagonal bolt	Galvanized carbon steel
04	Socket head screw	Galvanized carbon steel	13	Flat gasket	Galvanized carbon steel
05	Bonnet	Ductile iron GGG50	14	O-Ring	NBR or EPDM
06	O-Ring	NBR or EPDM	15	Thrust ring	Brass H62 or Hpb59-1
07	Gland	Ductile iron GGG50	16	Cover gasket	EPDM
08	Handwheel	Ductile iron GGG50	17	Disc nut	Bronze ZQSn5-5-5
09	Hexagonal bolt	Galvanized carbon steel			

Note: The above material list is multiple and parallel, the first one is the basic configuration, if you have other requirements, please specify in the order. Optional accessories: hand wheel drive cap, electric device, pneumatic device, 2Cr13, 304, 316 stem H62, Hpb59-1 copper thrust ring.

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Main External and Connection Dimension

PN 10/16

DN	OUTLINE(mm)			END FLANGE PN10/16		
	BS5163	DIN F4	DIN F5	EN 1092-2		
		L		D	K	n-d
40	165	140	240	150	110	4-Φ19
50	178	150	250	165	125	4-Φ19
65	901	170	270	185	145	4-Φ19
80	203	180	280	200	160	8-Φ19
100	229	190	300	220	180	8-Φ19
125	254	200	325	250	210	8-Φ19
150	267	210	350	285	240	8-Φ23
200	292	230	400	340	295	8-Φ23 12-Φ23
250	330	250	450	395/405	350/355	12-Φ23 12-Φ28
300	356	270	500	445/460	400/410	12-Φ23 12-Φ28
350	381	290	550	505/520	460/470	16-Φ23 16-Φ28
400	406	310	600	565/580	515/525	16-Φ28 16-Φ31
450	432	330	650	615/640	565/585	20-Φ28 20-Φ31
500	457	350	700	670/715	620/650	20-Φ28 20-Φ34
600	508	390	800	780/840	725/770	20-Φ31 20-Φ37