



ARV RESILIENT SEATED FLANGE GATE VALVE, PN 10/16

Flanged gate valve, for water and sewage to max. 80 C, designed according to EN 1074 part 1 & 2, Face to face according to EN 558 table 2 basic series 3. Standard flange drilling to EN1092-2 (ISO 7005-2) Hydraulic test according to EN 1074-1 and 2 / EN 12266.

Resilient seated gate valve to EN 1074-1 and 2 / EN 1171. Body and bonnet of GJS-500-7 (GGG-50). Wedge of ductile iron fully vulcanized with EPDM rubber and with fixed brass wedge nut. Stem of stainless steel min. 13% Cr with rolled thread and wedge stop ring. Stem sealing with 4 O-rings in a nylon bearing, an EPDM rubber manchette and a NBR wiper ring. NF approved EPDM bonnet gasket in a groove, counter sunk bonnet bolts encircled by the bonnet gasket and sealed with hot melt.

Epoxy coating to DIN 30677-2 and GSK approved – internally and externally.

RESILIENT SEATED FLANGED GATE VALVE, PN 10/16 (TH001)

A. Stem sealing

Three independent stem seals offering triple safety:

- * A NBR wiper ring protects against dirt from outside.
- * A polyamid bearing with 4 NBR O-Rings protects against galvanic corrosion.

B. Body/bonnet connection

The unique assembly of the valve body and bonnet ensures a durable tightness:

- * A round rubber bonnet gasket fits into a recess in the valve bonnet preventing it from being blown out by pressure surges.
- * The 8.8 galvanized bonnet bolts are countersunk in the valve bonnet, encircled by the bonnet gasket and sealed with hot melt. Thus there is no risk of corrosion as the bolts are not exposed to the medium or soil.

C. Wedge nut

The fixed wedge nut reduces the number of movable valve parts thus minimizing the risk of corrosion, malfunction. The wedge nut is made of dezincification resistant brass with lubricating abilities providing compatibility with the stainless steel stem.

D. Vulcanized wedge

The ductile iron core is fully vulcanized with drinking water approved EPDM rubber internally and externally. No iron parts are exposed to the medium and the excellent rubber vulcanization prevents creeping corrosion underneath the rubber. Guides in the wedge and on the valve body ensure a uniform closure regardless of high pressure.

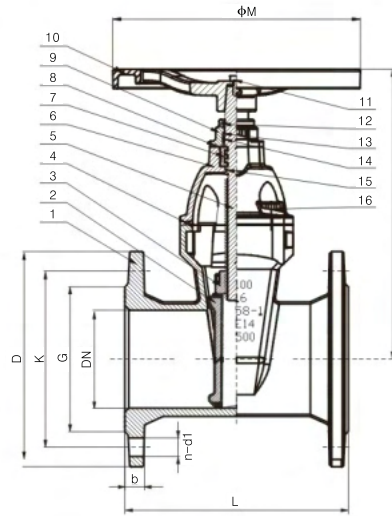
Safe operation is ensured, as the guides prevent overloading of the stem. The wedge has a large through bore and as there are no hollows in the core, stagnant water or impurities cannot collect and cause contamination.

E. Operation

Valves could be operated by hand wheel/head cap/worm gear/electric actuator etc. according to the customers' requirements.



RESILIENT SEATED GATE VALVE. PN 10/16



Specifications

Size	DN40-1000
Class	Pn10 – PN16
Design	EN 1171, EN1074-2
Face to Face	EN558-1, ASME B16.10, AS2638
End Flange	EN1092-2ASME B16.1/16.42, AS4087
Tests	EN12266

Standard Materials Of Main Parts

Item	Part Name	Material
1	Body	Ductile Iron
2	Disc	EPDM
3	Stem Nut	CZ132
4	Bonnet Gasket	NBR
5	Stem	Stainless steel SS431
6	Bonnet	Ductile Iron
7	Holding Ring	CZ132
8	O Ring	NBR

Item	Part Name	Material
9	Gland	Ductile Iron
10	Handwheel	Ductile Iron
11	Bonnet Bolts	Stainless steel SS316
12	Dust Ring	NBR
13	O Ring	NBR
14	Separated sets of nylon	Nylon 66
15	U Ring	NBR
16	Screw	Stainless steel SS304

DIMENSIONS

DN	OUTLINE mm					END FLANGE PN10/16-CL125/150 mm								
	BS 5163	DIN -F4	DIN -F5	ASME B16.10	AS 2638	EN1092-2			ASMEB16.1/B16.42			AS4087		
	L					D	K	n-d	D	K	n-d	D	K	n-d
40	165	140	240	–	40	150	110	4 x φ19	127	98.5	4 x φ16	–	–	–
50	178	150	250	178	50	165	125	4 x φ19	152	120.5	4 x φ19	–	–	–
65	190	170	270	190	–	185	145	4 x φ19	178	139.5	4 x φ19	–	–	–
80	208	180	280	203	203	200	160	8 x φ19	191	152.5	4 x φ19	185	146	4 x φ18
100	229	190	300	229	229	220	100	8 x φ19	229	190.5	8 x φ19	215	178	4 x φ18
125	254	200	325	254	–	250	210	8 x φ19	254	216	8 x φ22	–	–	–
150	267	210	350	267	150	285	240	8 x φ19	279	241.5	8 x φ22	280	235	8 x φ19
200	292	230	400	292	292	340	295	8 x φ23 / 12 x φ23	343	298.5	8 x φ22	335	292	8 x φ18
250	230	250	450	330	330	395/405	350/355	12 x φ23 / 12 x φ28	406	362	12 x φ25	405	356	8 x φ22
300	356	270	500	356	356	445/460	400/410	12 x φ23 / 12 x φ28	483	432	12 x φ25	455	406	12 x φ22