

Knife gate valve Figure 303

Rensberg knife gate valves Figure 303 can be used as shut-off valve on sludge & mining applications. The packing of the Figure 303 is transversal and can be repacked under pressure without dismantling the valve from the pipeline. Self-flushing corners guarantee a reliable seating of the valve under severe conditions.



Features:

Face to face according to the attached drawing
 Mono-flange drilling according EN1092 PN10
 Epoxy coating 250µm - RAL8004 red brown
 Knife in SS AISI304, AISI 316 on request
 Standard with Stainless Steel bolts
 Transverse packing
 Self-flushing corners
 4 pillar topworks
 Bidirectional
 Increased reliability due to grease nipple & bellow

Article	Body	Seal	Pressure	Temp. (°C)
Figure 303/ GG-NBR	Cast iron GG25	NBR	DN50-150: 10 bar	-10°C/70°C
Figure 303 / GG-VITON	Cast iron GG25	Viton	DN200-250: 8 bar	-20°C/70°C
Figure 303 / RVS-NBR	Stainless Steel AISI316	NBR	DN300-400: 6 bar	-10°C/70°C
Figure 303 / RVS-VITON	Stainless Steel AISI316	Viton	DN450-500: 4 bar	-20°C/160°C

Extra options:



Custom RAL colors

for the body and actuators can be supplied



Rubber lined body

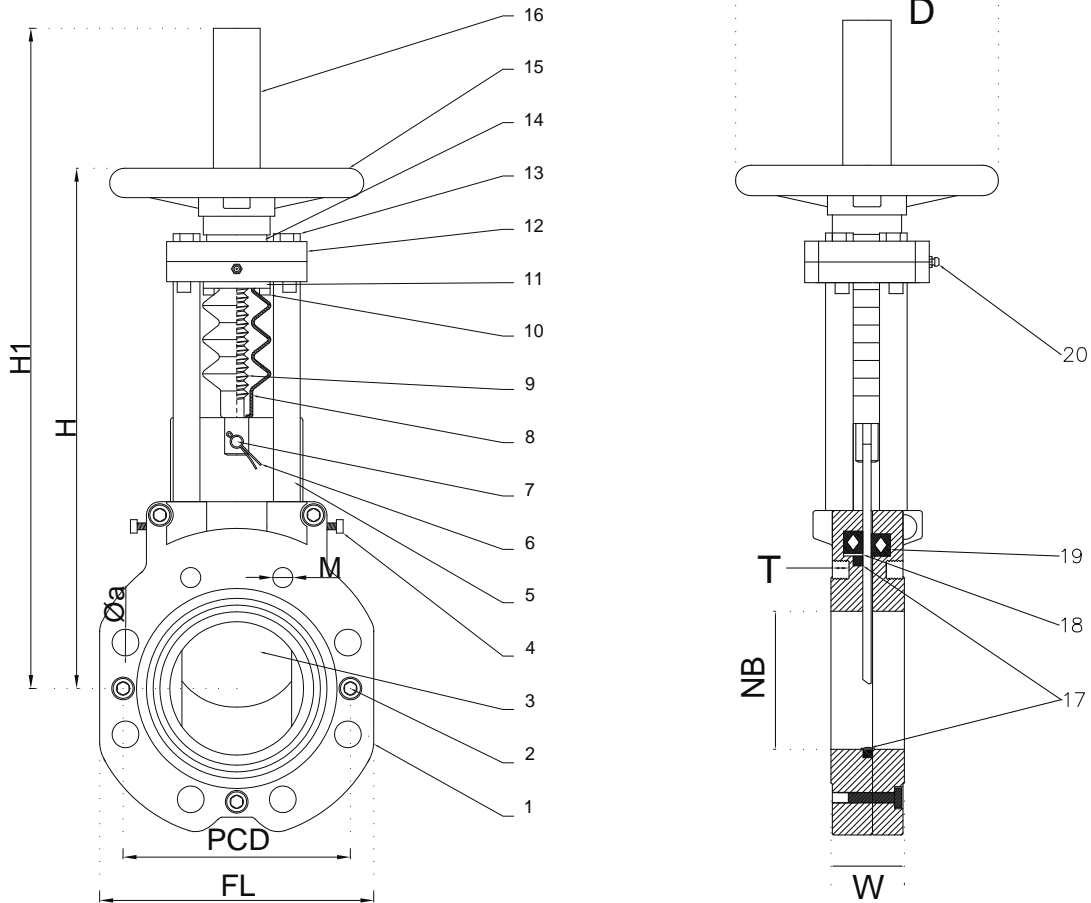
for extra protection against corrosion or abrasion



Double packing

extra transverse seal for increased tightness

Knife gate valve Figure 303



Item	Part	Material
1	Body	Cast Iron GG25 Ductile iron GGG40 Stainless steel AISI316 Rubber lined
2,10,13	Bolt	Stainless steel A2 Stainless Steel A4
3	Gate	Stainless steel AISI304 Stainless steel AISI316
4	Screw	Stainless steel A2 Stainless steel A4
5	Pillar	Stainless steel AISI304 Stainless steel AISI316
6,7	Clip pin	Stainless steel AISI304 Stainless steel AISI316

Item	Part	Material
8	Bellow	Hard rubber
9	Spindle	AISI303 AISI316
11	Clamp	Bronze Rg5
12	Bridge	Carbon steel
14	Stem nut	Bronze Rg5
15	Handwheel	Cast iron GG25
16	Spindle tube	Carbon steel
17	Seat	NBR Viton
18	Scraper	Teflon
19	Packing	NBR Viton
20	Grease nipple	Stainless steel AISI304

Knife gate valve Figure 303

DN	PN	FL	PCD	H	H1	D	W	Blind hole		Through	Weight
mm	bar	mm						depth T	n x Øa	n x M	kg
50	10 bars	165	125	240	292	200	42	11	2 x M16	2 x 18	7,0
65		185	145	270	341	200	42	11	2 x M16	2 x 18	8,0
80		200	160	316	380	200	52	11	2 x M16	2 x 18	10,0
100		220	180	356	436	200	52	11	2 x M16	6 x 18	13,0
125		250	210	396	503	200	52	11	2 x M16	6 x 18	15,0
150		285	240	464	596	300	62	11	2 x M20	6 x 22	26,0
200	8 bars	340	295	594	773	300	62	12	2 x M20	6 x 22	35,0
250		395	350	657	875	300	72	15	4 x M20	8 x 22	47,0
300	6 bars	445	400	782	1054	400	72	18	4 x M20	8 x 22	76,0
350		505	460	865	1183	400	82	20	4 x M20	12 x 22	100,0
400		565	515	970	1333	400	92	20	4 x M24	12 x 26	153,0
450	4 bars	615	565	1070	1483	500	102	24	6 x M24	14 x 26	205,0
500		670	620	1160	1617	500	112	24	6 x M24	14 x 26	260,0

Working principle:



Self-cleaning flush corners provide a good sealing of the valve. Due to the special engineered shape of the body, a vortex is deliberately created in the flow. The vortex is the most intense just before closing the knife and results in any solid deposition on the valve corners to be flushed away. This principle ensures a reliable seating, also in case of severe conditions.



Transverse sealing mechanism allows efficient repacking and adjustment. When turning on the packing screws shown on the picture above, the pressure on the packing is increased. In case of repacking, rubber granules can be inserted. The repacking can be done while the pump is working and without removing the valve from the pipeline. This way, installation downtime is avoided.