

Knife gate valve Figure 302

Rensberg knife gate valves Figure 302 are mainly being used as shut-off valve on wastewater & sludge treatment pipelines. Due to the principle of self-flushing corners, a reliable seating of the valve is guaranteed. The Figure 302 is bidirectional, has a non-rising stem and does not require any flange gaskets.



Features:

- Face to face according to the attached drawing
- Flange drilling according EN1092 PN10
- Epoxy Resicoat R4 - 310µm - RAL5005
- Knife in SS AISI304, AISI 316 on request
- Standard with Stainless Steel bolts
- Product of European origin
- Self-flushing corners
- Non-rising stem
- Bidirectional
- No flange gaskets required

Article	Body	Seal	Pressure	Temp. (°C)
Figure 302 / GGG-EPDM	Ductile iron GGG40	EPDM	DN50-400: PN10	-30°C/70°C
Figure 302 / GGG-NBR	Ductile iron GGG40	NBR	DN500-600: PN6	-10°C/70°C
Figure 302 / RVS-EPDM	Stainless Steel AISI316	EPDM	DN700-1000: PN2.5	-30°C/120°C
Figure 302 / RVS-NBR	Stainless Steel AISI316	NBR		-10°C/70°C

Extra options:



Custom RAL colors

for the body and actuators can be supplied



Actuators & accessories

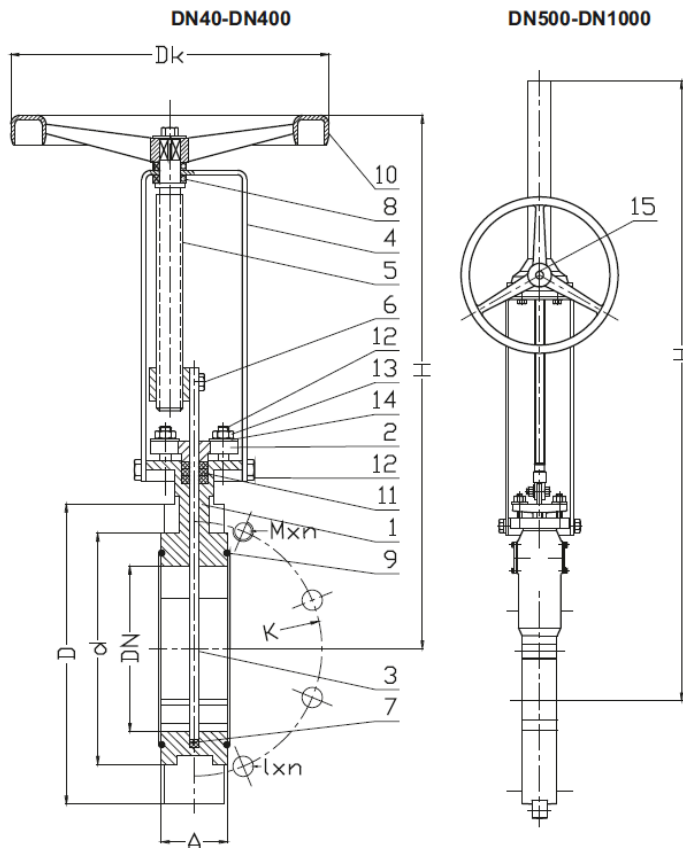
with hydraulic, pneumatic or electric drives



Underground execution

with special enclosure and custom made shaft extensions

Knife gate valve Figure 302



Item	Part	Material
1	Body	Ductile iron GGG40
		Stainless Steel AISI316
2	Gland	Ductile iron GGG40
		Stainless steel AISI316
3	Knife	Stainless steel AISI304
		Stainless steel AISI316
4	Support	Carbon steel
		Stainless steel AISI316
5	Spindle	Stainless steel X20Cr13
		Stainless steel AISI316
6	Nut	Brass
7	Seat	NBR
		EPDM
8	Bearing	Brass
9	Seal	NBR
		EPDM
10	Handwheel	Cast iron EN-GJL-250
11	Packing	NBR
		EPDM
12,13,14	Bolting	Stainless steel A2
		Stainless steel A4
15	Gearbox	Ductile iron GGG40

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 heavier applications on sludge.

Knife gate valve Figure 302

DN	PN	K	D	d	lxn	Mxn	A	H	Dk	Weight
mm	bar	mm								kg
40	PN10	110	150	84	-	M16x4	48	268	200	6,0
50		125	165	99	-	M16x4	48	286	200	8,0
65		145	185	118	-	M16x4	48	317	200	10,0
80		160	200	132	Ø19x6	M16x2	52	335	200	11,0
100		180	220	156	Ø19x6	M16x2	52	370	250	13,0
125		210	250	184	Ø19x6	M16x2	56	420	250	18,0
150		240	285	212	Ø23x6	M20x2	56	494	250	21,0
200		295	340	266	Ø23x6	M20x2	70	575	320	38,0
250		350	395	319	Ø23x8	M20x4	70	680	320	52,0
300		400	445	370	Ø23x8	M20x4	76	794	320	63,0
350		460	505	430	Ø23x10	M20x6	76	890	320	83,0
400		515	565	480	Ø28x10	M24x6	89	990	320	98,0
500	PN6	620	670	582	Ø28x12	M24x8	114	1820	630	232,0
600		725	780	682	Ø31x12	M27x8	114	2050	630	282,0
700	PN2.5	840	910	794	Ø31x14	M27x10	165	2480	630	554,0
800		950	1015	901	Ø34x14	M30x10	190	2800	630	680,0
900		1050	1115	1001	Ø34x16	M30x12	203	3070	815	850,0
1000		1160	1230	1112	Ø37x16	M33x12	216	3430	815	1150,0