

# 7174 RVS meskantafsluiter met handwiel

## APPLICATION

The knife gate valve is particularly suitable for the most difficult applications.

**Area of use:** water treatment networks, pulp and paper industry, chemical plants, winemaking, cement works, pneumatic transport, storage.

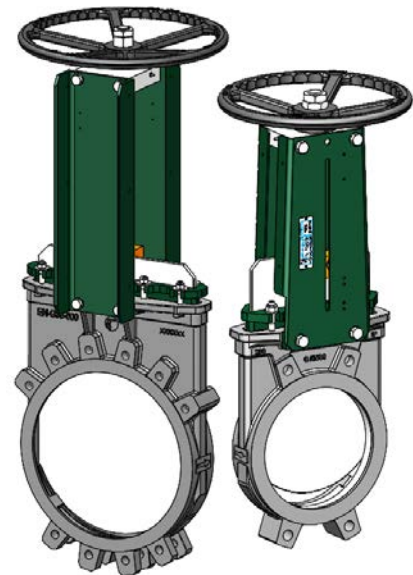


**Fluids:** water, sewage, pulp, pasty products, powdery, granular, fibrous, abrasive and crystallizing.

## GENERAL CHARACTERISTICS

**Range:** DN50 to DN600.

- Knife Gate Valve on/off or regulation with rising stem.
- Molded monobloc body
- Unidirectional water tightness: Flow direction indicated on the body with an arrow.
- Installation between flanges ISO PN10.
- Small retention zone.
- Gate with a beveled cutting edge guided in the body with little backlash.
- Guaranteed closure, without risk of blockage.
- Standard polished gate, soft contact with the gaskets.
- Very resistant stainless steel packing flange avoids risks of breaks.
- Operating force reduced thanks to the elasticity of the gaskets.
- Pre-formed profiled sheet metal support plates from DN50 to DN300 for accessory or kit mounting.
- Full flow when fully opened, ensuring a high flow rate with low head loss.
- Flow regulation possible for pasty or abrasive fluids with installation of a deflector.



## STANDARDS

<b>Design</b>	Manufacture according to the requirements of the European directive n° 2014/68/UE «Equipment under pressure» : modulate H.					
	In option: product conform to European directive ATEX «ATmosphère EXplosive» n° 2014/34/UE.					
<b>Face to face</b>	Face to face dimension according to standard					
<b>Connection</b>	Mounting between flanges in accordance with EN1092-2 and ISO 7005-1 : ISO PN10					
<b>Tests</b>	DN	Body	Seat	DN	Body	Seat
	DN50-250 :	15.4 bar	11 bar	DN300-450:	12.6 bar	7.7 bar
	DN500-600:	7.2 bar	4.4 bar			

## PRODUCT APPROVALS



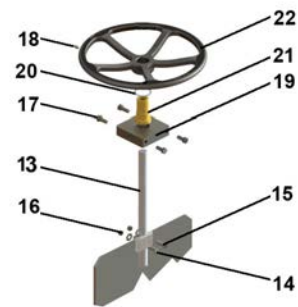
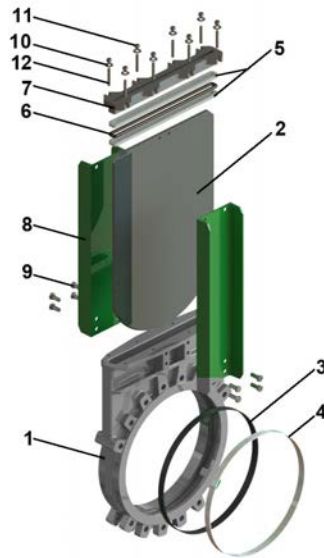


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## CONSTRUCTION

Coatings applied on the valve :

Component	Coating
Support plate (8)	Liquid epoxy RAL 6005 70 microns
Handwheel (22)	Liquid epoxy RAL 9005 70 microns
Protection tube (24)	Liquid epoxy RAL 6005 70 microns



Pos.	Q-ty	Description	Material	Equivalences		
				DIN	ASTM	BS
1	1	Body	Stainless steel GX5CrNiMo 19-11-2	G-X6CrNiMo18 10	A 351 grade CF8M	316 C16
2	1	Gate	Stainless steel X2CrNi 17-12-2	X2CrNiMo17-13-2	A 182 AISI 316L	1449-2 316 S11
3	1	Seat gasket	EPDM			
4	1	Support ring (1)	Stainless steel X5CrNiMo 17-12-2	X5CrNiMo18 10	A 182 AISI 316	1449-2 316 S16
5	2	Packing	PTFE			
6	1	O-Ring	EPDM			
7	1	Packing gland	Stainless steel GX5CrNiMo 19-11-2	G-X6CrNiMo18 10	A 351 grade CF8M	316 C16
8	2	Support plate	Steel			
9	12	Screw	Stainless steel A2-70			
10	8	Washer	Stainless steel A2-70			
11	8	Nut	Stainless steel A2-70			
12	8	Tie rod	Stainless steel A2-70			
13	1	Stem	Stainless steel 13% Cr	X12Cr13	AISI 410	
14	1	Detection screw	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
15	1	Screw	Stainless steel A2-70			
16	2	Nut	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
17	4	Screw	Stainless steel A2-70			
18	1	Screw	Stainless steel A2-70			
19	1	Nut support	Zinc plated steel			
20	1	Support washer	Bronze CuSn5Zn8Pb5-C			
21	1	Nut	Bronze CuSn5Zn8Pb5-C			
22	1	Handwheel	Cast iron EN-GJL-250	GG25	A48 class 40B	1452 Grade 250

(1) - Pièces non présentes sur étanchéité métal/métal

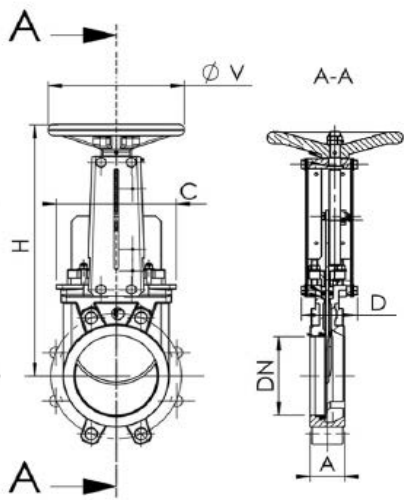
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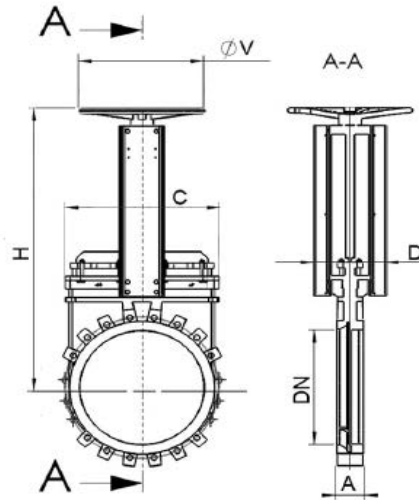


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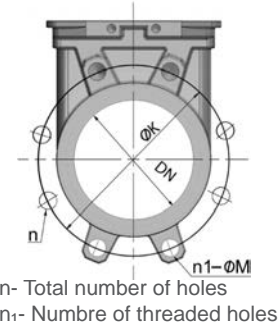
## DIMENSIONS



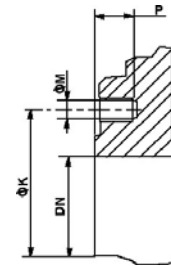
**DN50-300**



**DN350-600**



n- Total number of holes  
n1- Numbre of threaded holes



**Body details**

## MOUNTING DIMENSIONS

DN		A	H	C	D	Ø V	Pression maxi (bar)	n	n-ØM	P	ØK	Poids (kg)
mm	inch											
50	2"	40	291	124	94	200	10	4	4xM16	8	125	7,5
65	2 1/2"	40	318	139	94	200	10	4	4xM16	8	145	9
80	3"	50	342	154	94	200	10	8	4xM16	9	160	10
100	4"	50	383	174	94	200	10	8	4xM16	9	180	11,5
125	5"	50	420	189	100	250	10	8	4xM16	9	210	15,5
150	6"	60	471	220	101	250	10	8	4XM20	10	240	18,5
200	8"	60	577	275	124	310	10	8	4XM20	12	295	35
250	10"	70	677	326	126	310	10	12	8XM20	12	350	47
300	12"	70	777	380	128	310	7	12	8XM20	19	400	61
350	14"	96	939	438	290	500	7	16	10XM20	20	460	117
400	16"	100	1037	494	290	500	7	16	10XM24	24	515	151
450	18"	106	1125	547	290	500	7	20	14XM24	24	565	187
500	20"	110	1237	613	290	500	4	20	14XM24	24	620	205
600	24"	110	1432	716	290	500	4	20	14XM27	24	725	292

Face to face dimension «A» in accordance with standard



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## WORKING CONDITIONS

Maximum working pressure: DN50-250 : 10 bar  
 DN300-450 : 7 bar  
 DN500-600 : 4 bar

Maximum working temperature : -10°C / +130°C (EPDM joint in standard)

⚠ The above mentioned pressures are only valid if the direction of assembly indicated by the arrow on the valves is observed.

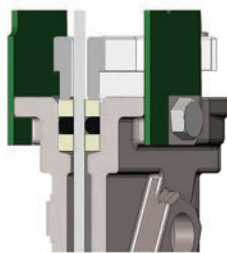
### Upstream/downstream tightness



Elastomer tightness

Metal/metal tightness

### Packing tightness



PTFE/Elastomer

### Tightness in option

Tightness	Maximum temperature
Metal/metal	Tmax : -10°C / +130°C
NBR	Tmax : -10°C / +80°C
White EPDM	Tmax : -10°C / +130°C
Silicone	Tmax : -10°C / +170°C
FPM (Type Viton®)	Tmax : -10°C / +170°C
PTFE	Tmax : +4°C / +170°C
CSM (Type Hypalon®)	Tmax : +4°C / +80°C

⚠ To ensure a satisfactory tightness, when using the PTFE gasket, the operating pressure must be at least 1 bar.

## FLOWS

### Kv of valves (m³/h)

DN		Operating stroke, %									
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
50	2"	1,41	7,57	18,4	33,27	52,61	74,78	98,45	120,81	149,53	161,66
65	2"1/2	2,41	8,58	25,4	49,32	85,77	121,51	167,85	219,67	287,45	317,77
80	3"	3	13,1	46,66	79,57	122,11	199,58	276,85	359,84	432,49	461,98
100	4"	3,86	33,06	75,62	125,01	206,17	311,72	474,43	681,36	865,17	993,21
125	5"	19,64	47,05	107,47	177,8	295,95	444,71	675,13	973,05	1231,14	1385,15
150	6"	28,88	104,25	181,37	281,61	418,76	614,83	884,79	1177,11	1482,44	1613,77
200	8"	24,04	141,73	251,71	418,72	514,76	785,11	1227,16	1982,56	2491,22	2783,27
250	10"	115,44	367,52	693,84	1141,65	1634,09	2342,79	3243,71	3960,67	5336,19	5951,8
300	12"	103,12	535,87	1023,55	1619,5	2441,26	3508,29	4553,83	6339,29	7862,36	8373,88
350	14"	218,4	725,8	1323	2173,2	3294,8	4914,3	7120,9	11415,3	19105,4	24890,7
400	16"	389,1	1150,1	2024,4	3130,9	4669,6	7009,1	10355,2	16014,2	22600,5	26497,7
450	18"	402,7	1287,3	2402,9	3803,4	5686,8	8247,3	12248,7	17298,5	26403,9	29485
500	20"	617	1611,1	2935,9	4625,8	7054,7	10438,9	15446	23582,8	35107,4	42784

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