

# GATE VALVE

## 1 CHARACTERISTICS AND BENEFITS

- Soft-sealing flanged valve intended for reliable closing of the liquid flow
- Simple construction and low weight
- Low operating torque, closing clock-wise
- Stem with 3 O-rings sealing and rolled threads
- Plastic sliding guides on the wedge
- Seals in both directions
- Simple handling
- Stem nut vulcanised in wedge – no possibility of rubber damage
- High resistance to excessive handling loads
- Possible adjustment for electric actuator
- Inside and outside Epoxy powder coating in RAL 5005

## 2 STANDARDS

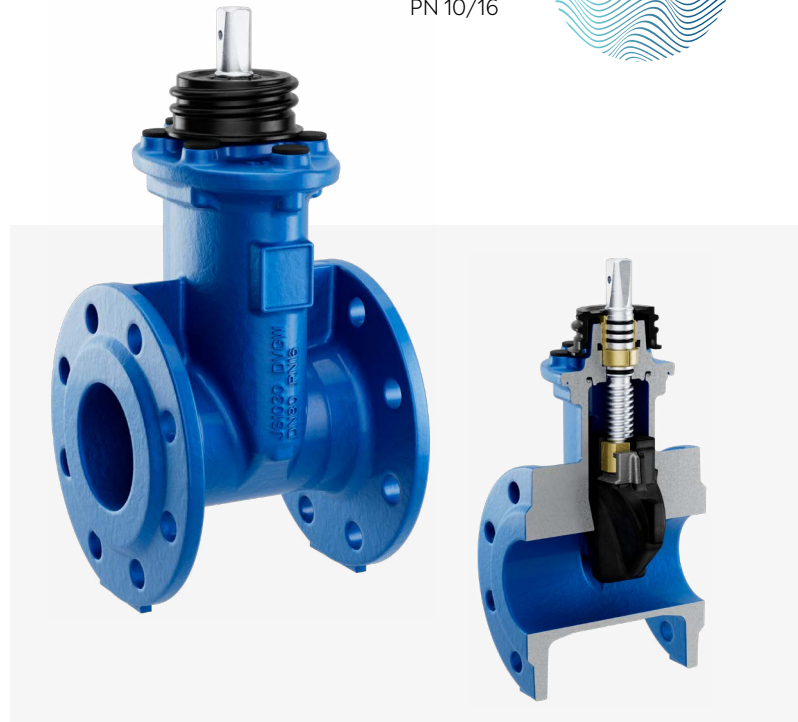
- Valves manufactured and tested in acc. to EN 1074-2 (water supply valves)
- Body material acc. to EN 1563
- Resilient seated acc. to EN 1171 (tab. 6, cat. 3)
- Flanges acc. to EN 1092-2 PN 10/16
- Installation length acc. to EN 558-1, ser. 14, 15
- Final strength and tightness test acc. to EN 12266-1
- Corrosion protection acc. to DIN 30677-2 and EN 14901
- Sealing elements for drinking water acc. to EN 681
- Microbiological suitability acc. to EN 16421 (W270)

## 3 APPROVALS

- DVGW, UBA, W270, ACS WRAS, Belgqua for EPDM sealing elements and Epoxy coating
- GSK – RAL GZ-662/2 for corrosion protection
- DVGW certificate for the German market
- ÖVGW certificate for the Austrian market
- VIK for the Croatian market
- EAC for the Russian market
- EMI for the Hungarian market
- Conformity for potable water acc. to DM 174 for the Italian market

## ART. 735–740 GAVE

DN 50–600  
PN 10/16

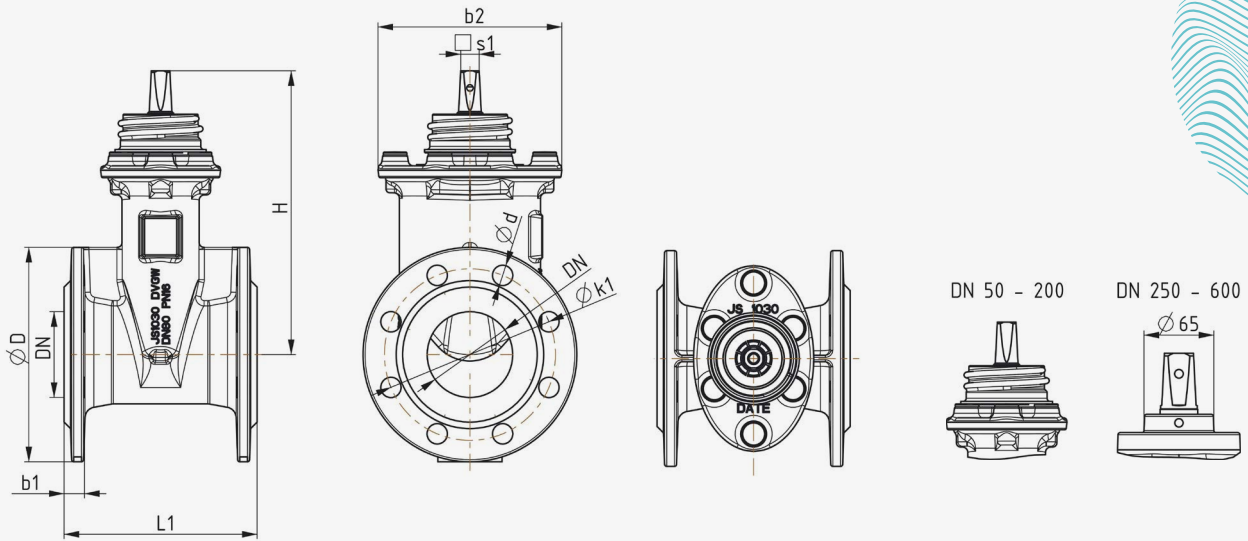


### POSSIBLE ADDITIONS ON DEMAND

- Telescopic extension spindle
- T-key (for telescopic spindle)
- Bypass DN 50 for DN 500–600
- Adjustment for constant 80% vacuum
- Hand wheel
- Chain wheel
- Flanges PN6, ANSI 150
- Position indicator
- Position sensors
- Flange for electric actuator

PN	10	16
<b>Max. operating pressure</b> [bar]	10	16
<b>Max. operating temperature for neutral liquids</b> [°C]	50	50
<b>Shell strength and tightness:</b> test with air up to DN 200; test with water DN 250–600; rate A [bar]	15	24
<b>Seat tightness:</b> test with air up to DN 200; test with water DN 250–600; rate A [bar]	11	17,6

TECHNICAL DRAWINGS



DATA

DN	50	65	80	100	125	150	200	250	300	350	400	500	600	
D [mm]	165	185	200	220	250	285	340	400	455	520	580	715	840	
L1 series 14 [mm]	150	170	180	190	200	210	230	250	270	290	310	350	390	
L1 series 15 [mm]	250	270	280	300	325	350	400	450	500	550	600	700	/	
b1 [mm]	19	19	19	19	19	19	20	22	24,50	26,50	28	31	36	
b2 [mm]	151	165	172	204	248	278	362	430	485	585	585	730	860	
d PN10/PN16 [mm]	19	19	19	19	19	23	23	23/28	23/28	23/28	28/31	28/34	31/37	
H [mm]	210	235	265	293	343	380	465	573	675	820	820	1040	1240	
k1 PN10 [mm]	125	145	160	180	210	240	295	350	400	460	515	620	725	
k1 PN16 [mm]	125	145	160	180	210	240	295	355	410	470	525	650	770	
Conoid outlet s1 [mm]	14	17	17	19	19	19	24	27	27	27	32	32	32	
Wheel diameter [mm]	200	250	250	300	300	300	400	500	500	600	600	800	800	
No. of bolts PN10/PN16	4	4	8	8	8	8	8/12	12	12	16	16	20	20	
Turns ON/OFF	10	13	16	20	25	30	40	50	60	37	37	48	60	
MOT acc. to EN 1074-2 [Nm]	50	65	80	100	125	150	200	250	300	350	400	500	600	
Max. torque for full tightness / min. actuator power [Nm]	Dp = 16 [bar]	30	30	35	40	65	65	120	140	220	280	280	320	430
	Dp = 10 [bar]	30	30	35	40	60	60	110	130	200	250	250	310	400
Weight approx. series 14 [kg]	9,00	11,20	13,80	16,60	24,00	31,00	57,00	93,20	134,10	212	226	438	637	
Weight approx. series 15 [kg]	9,50	11,90	14,80	18,20	27,00	35,00	64,00	104,5	146,5	228	243	509	/	

MATERIALS

	BASIC VERSION	SPECIAL VERSIONS ON DEMAND (differences from basic version)	
	EPDM for drinking water	NBR for waste water	Reinforced corrosion protection
Body	EN GJS-400-15 (GGG-40)		
Cover	EN GJS-400-15 (GGG-40)		
Wedge	EN-GJS-40-15 (GGG-40)/EPDM	NBR	NBR
Bonnet bolts	Stainless steel A2		
Stem	Stainless steel 1.4021		Stainless steel 1.4571
Stem nut	Brass CW 614 N		Bronze
Epoxy powder coating	Min. 250 µm		Min. 300 µm
Bypass (for DN 500-600)	EPDM	NBR	---