

PN 16 FLANGE GATE VALVE, ROW 14 AND 15, 2400

FOR ELECTROMECHANICAL DRIVE

Purpose

- Drinking water installations.
- In industrial, sewage and other chemically neutral fluids installations (applies to DN50).

Authorisation

- National Institute of Public Health PZH.

Technical data

- Operational pressure PN16.
- Max temp. for water- 40°C.
- Max temp for other fluids- 70°C.
- Flanged connection according to PN-EN 1092-2.
- Installation length according to PN-EN 558+A1.
- Maximum closing torque MOT=1xDN [Nm].
- Requirements and testing according to PN-EN 1074 – 1 and 2.
- Industrial valves PN-EN 1171.

Design features

- Full, smooth and cavity-free passage.
- Possibility of replacing the valve stem seal under full pressure at any wedge position.
- Brass screw plug for valve stem seal (replaceable) secured against unscrewing with a stainless steel ring placed inside the cover under the top seal.
- Stainless steel stem with cold-rolled thread, without cuts in the sealing zone, enabling cooperation with O-rings placed inside the screw.
- Body and cover made of ductile cast iron grade EN-GJS 500-7.
- Triple stem seal system: upper wiper seal, set of 3 or 4 O-rings, lower lip seal.
- Lower washer made of polyamide PA6, which is a sliding washer securing low-friction bearing of the spindle (stem).
- Wedge made of ductile cast iron vulcanized inside and outside with EPDM

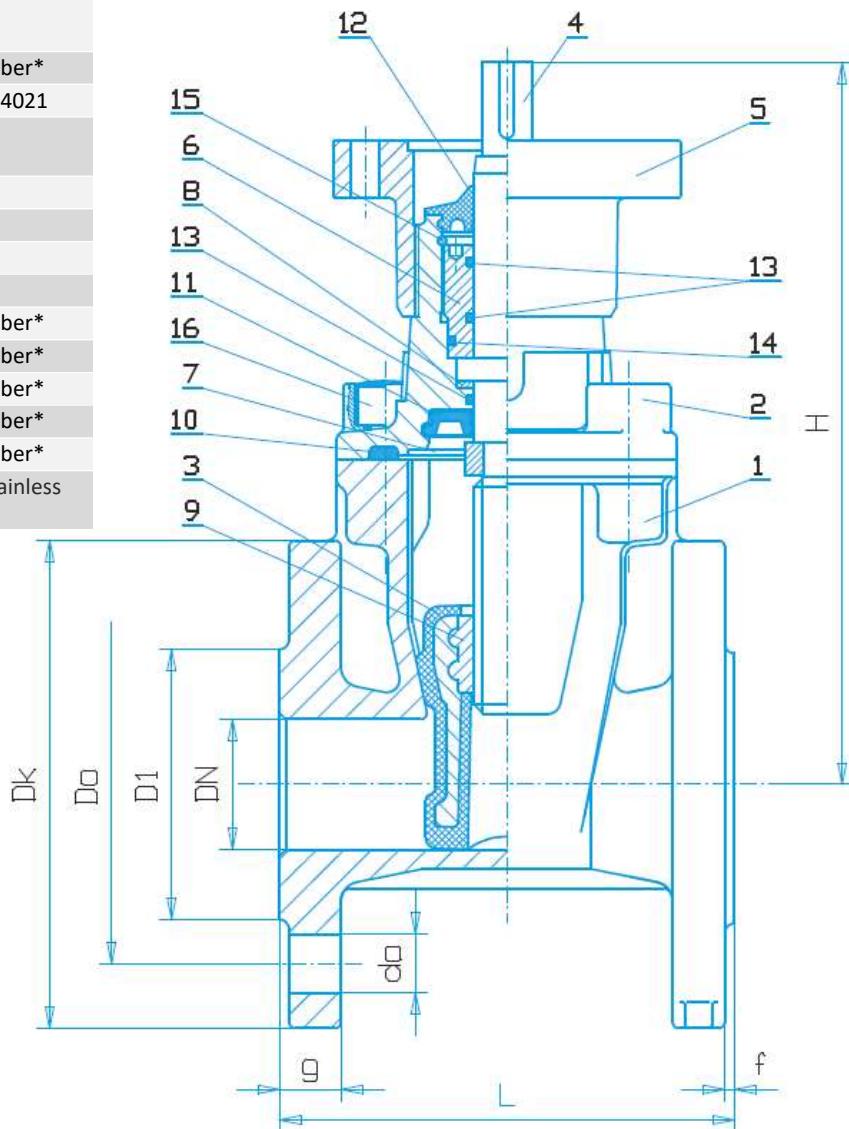


or NBR rubber with a hardness of 70 ± 5 °Sh. guided by the tongue and groove method in guides that are an integral part of the valve body.

- Static seals made of EPDM rubber, dynamic seals made of NBR rubber.
- Drive connection - F10 (DN 50 - 150), F14 (DN200 - 300) type B3 acc. ISO 5210.
- Wedge suspension nut on the stem - nonreplaceable, made of brass, hot-dipped in the wedge of the gate valve eliminates wedge vibrations.
- Bolts connecting the cover to the body - blind threads, fully protected against corrosion with paraffin-wax compound.
- Internal and external anticorrosive protection with epoxy powder paint RAL 5015 with coating thickness of min. 250 μ m, resistant to 3kV flashover.

No.	Part	Materials
1.	Body	Ductile cast iron EN-GJS 500-7
2.	Cover	Ductile cast iron EN-GJS 500-7
3.	Wedge	Ductile cast iron EN-GJS 500-7
4.	Stem	EPDM / NBR rubber*
5.	Flange	Stainless steel 1.4021
6.	Plug	Ductile cast iron EN-GJS 500-7
7.	Back nut	Brass
8.	Bottom washer	Brass
9.	Nut	Polyamide PA6
10.	Cover gasket	Brass
11.	Bottom gasket	EPDM / NBR rubber*
12.	Upper gasket	EPDM / NBR rubber*
13.	O-ring	EPDM / NBR rubber*
14.	O-ring	EPDM / NBR rubber*
15.	Lock ring	EPDM / NBR rubber*
16.	Cover screw	Galvanized or stainless steel

*applies to DN50



DN	H	L ROW 14	L ROW 15	Dk	1,0MPa 1,6MPa	D0 1,0MPa 1,6MPa	D1	g	f	1,0MPa 1,6MPa	1,0MPa 1,6MPa	do 1,0MPa 1,6MPa	weight (kg) ROW 14	weight (kg) ROW 15	A	B	Connection type	Cat. No. Row 14	Cat. No. Row 15	
50	235	150	250	165	125	102	19	3		4	19	12,5	13,5	50	13	F10	2401	2451		
65	270	170	270	185	145	118	19	3		4	19	17,0	18,0	65	13	F10	2405	2455		
80	290	180	280	200	160	138	19	3		8/4	19	19,0	20,5	80	16	F10	2410/2411	2460/2461		
100	330	190	300	220	180	158	19	3		8	19	24,0	26,5	100	21	F10	2415	2465		
125	365	200	325	250	210	184	19	3		8	19	30,0	33,5	120	25	F10	2420	2470		
150	400	210	350	285	240	212	19	3		8	23	35,5	40,0	120	31	F10	2425	2475		
200	490	230	400	340	295	268	20	3		8	12	67,0	77,0	200	34	F14	2430/2431	2480/2481		
250	580	250	450	400	350	355	320	22		12	23	28	102,0	112,0	250	42	F14	2435/2436	2485/2486	
300	655	270	500	455	400	410	370	24,5	4		12	23	28	129,0	144,0	300	50	F14	2440/2441	2490/2491

A- maximum closing torque [Nm]

B- number of stem turns until fully open