

PN 16 FLANGE GATE VALVE, ROW 14, 2100

WITH REPLACEABLE STEM SEAL

Purpose

- Drinking water installations.
- In industrial, sewage and other chemically neutral fluids installations (applies to DN40 and 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 $MOT=1 \times DN$ [Nm].
- Requirements and testing according to PN-EN 1074 – 1 and 2.
- Industrial valves PN-EN 1171.

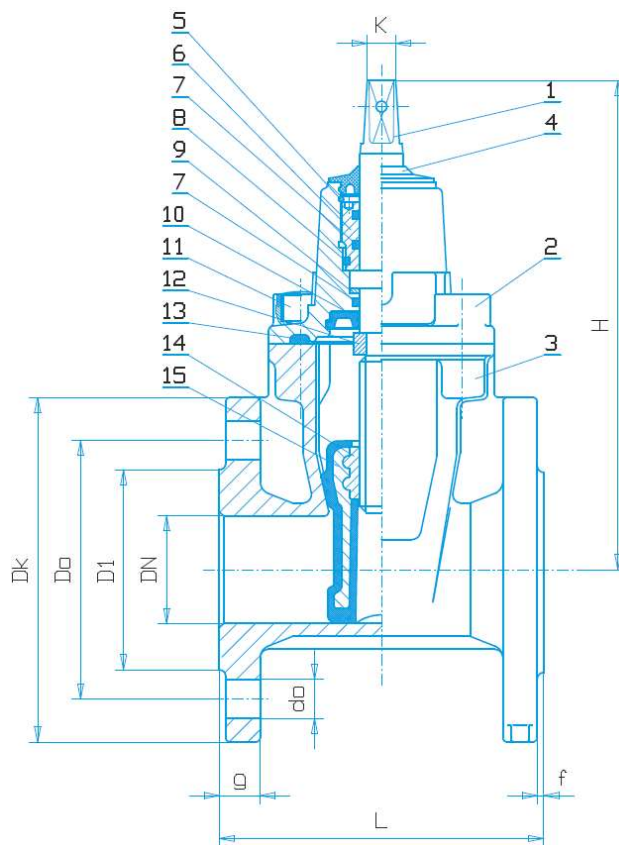
Design features

- 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 grey cast iron grade EN-GJL 250 or 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 $70 \pm 5^\circ \text{Sh}$, guided by the tongue and groove method in guides that are an integral part of the valve body.
- 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. $250 \mu\text{m}$, resistant to 3kV flashover.



No.	Part	Materials
1.	Spindle	Stainless steel 1.4021
2.	Cover	Ductile iron EN-GJS 500-7 Grey cast iron EN-GJL 250
3.	Body	Ductile iron EN-GJS 500-7 Grey cast iron EN-GJL 250
4.	Top seal	EPDM / NBR rubber*
5.	Locking ring	Stainless steel 1.4301
6.	Screw	Brass
7.	O-ring	EPDM / NBR rubber*
8.	O-ring	EPDM / NBR rubber*
9.	Bottom washer	Polyamide PA6
10.	Bottom seal	EPDM / NBR rubber*
11.	Cover screw	Galvanized or stainless steel
12.	Retaining nut	Brass
13.	Cover seal	EPDM / NBR rubber*
14.	Nut	Brass
15.	Wedge	Ductile iron EN-GJS 500-7 EPDM / NBR rubber*

*applies to DN40 and DN50



FLANGE GATE VALVE- DUCTILE IRON

DN	H	L	K	Dk	1,0MPa Do	1,6MPa Do	D1	g	f	1,0MPa n	1,6MPa n	1,0MPa do	1,6MPa do	weight (kg)	Cat. No.
40	220	140	14	150	110		83	19	3	4		19		9,2	2151
50	235	150	14	165	125		102	19	3	4		19		10,7	2155
65	270	170	17	185	145		118	19	3	4		19		15,4	2160
80	290	180	17	200	160		138	19	3	8/4		19		17,2	2165/2166
100	330	190	19	220	180		158	19	3	8		19		22,0	2170
125	365	200	19	250	210		184	19	3	8		19		28,0	2175
150	400	210	19	285	240		212	19	3	8		23		33,3	2180
200	490	230	24	340	295		268	20	3	8	12	23		60,0	2185/2186
250	580	250	27	400	350	355	320	22	3	12		23	28	98,0	2191/2190
300	655	270	27	455	400	410	370	24,5	4	12		23	28	125,0	2196/2195

FLANGE GATE VALVE- GRAY IRON

DN	H	L	K	Dk	1,0MPa Do	1,6MPa Do	D1	g	f	1,0MPa n	1,6MPa n	1,0MPa do	1,6MPa do	weight (kg)	Cat. No.
40	220	140	14	150	110		83	20	3	4		19		9,2	2101
50	235	150	14	165	125		102	20	3	4		19		10,7	2105
65	270	170	17	185	145		118	20	3	4		19		15,4	2110
80	290	180	17	200	160		138	22	3	8/4		19		17,2	2115/2116
100	330	190	19	220	180		158	24	3	8		19		23,1	2120
125	365	200	19	250	210		184	26	3	8		19		30,0	2125
150	400	210	19	285	240		212	26	3	8		23		36,0	2130
200	490	230	24	340	295		268	30	3	8	12	23*		67,6	2135/2136