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Задвижки с внешней крышкой с герметичным уплотнением 267, 367, 367-J, 467, 467-H, 467-K

Stem

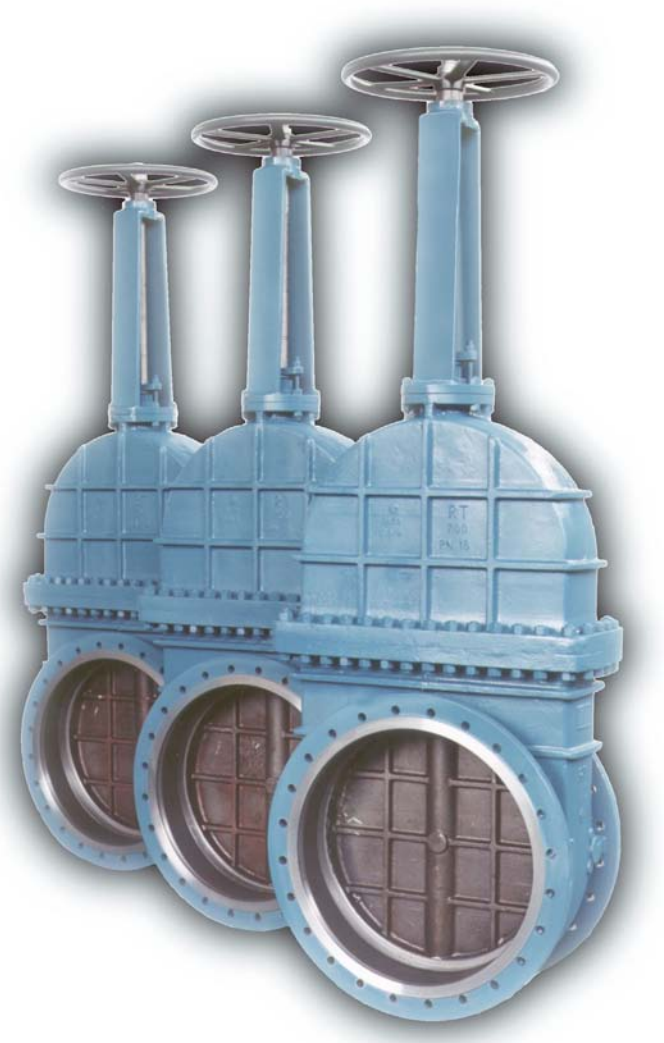
In all outside screw valves the stem is provided with integral backseat as emergency device in case of packing failure. The stem is produced whit special turning machinery for a high resistance and durability. The stem thread is metric type according to ISO 2901 with trapezoidal section. The thread is left hand type in the way that the valve opens rotating clockwise the handwheel.
To avoid any leakage the stem has a high finish degree and a strict diametrical clearance.

Gasket

The standard gasket is in pure graphite stainless steel reinforced. This type of gasket is suitable for many different applications. For special applications (cryogenic gases, high corrosion acids etc.) RT can supply special gaskets designed for the specific application or according to cus-tomer specifications. All valves with round body are provided by standard with chambered gasket.

Packing

The standard packing is made of four or more pure graphite rings with square section. The first and the last ring are reinforced with stainless steel to avoid the extrusion.
Other materials like PTFE are available on request. The graphite is always treated with special corrosion inhibitors to prevent the corrosion of ferritic stainless steel stem due to galvanic cell action.
For special applications (cryogenic gases, high corrosion acids, etc.) RT can supply special packings designed for the specific application or according to customer requirements.
To meet the TA-Luft requirements, on request, RT can supply valves with special design of stem and packing. The stuffing box housing is produced with a high finish degree and a strict clearance to guarantee a perfect tight of the packing.



INSTALLATION

The standard installation position for the gate valves is with the vertical stem and upright (operator on the top). This position avoids many adverse influences and stresses during the functioning. Only the gate valves with split wedge can be installed also in horizontal position. The gate valves close turning the handwheel clock-wise. For a correct and easy installation please refer to the installation manual and follow the instructions there contained.

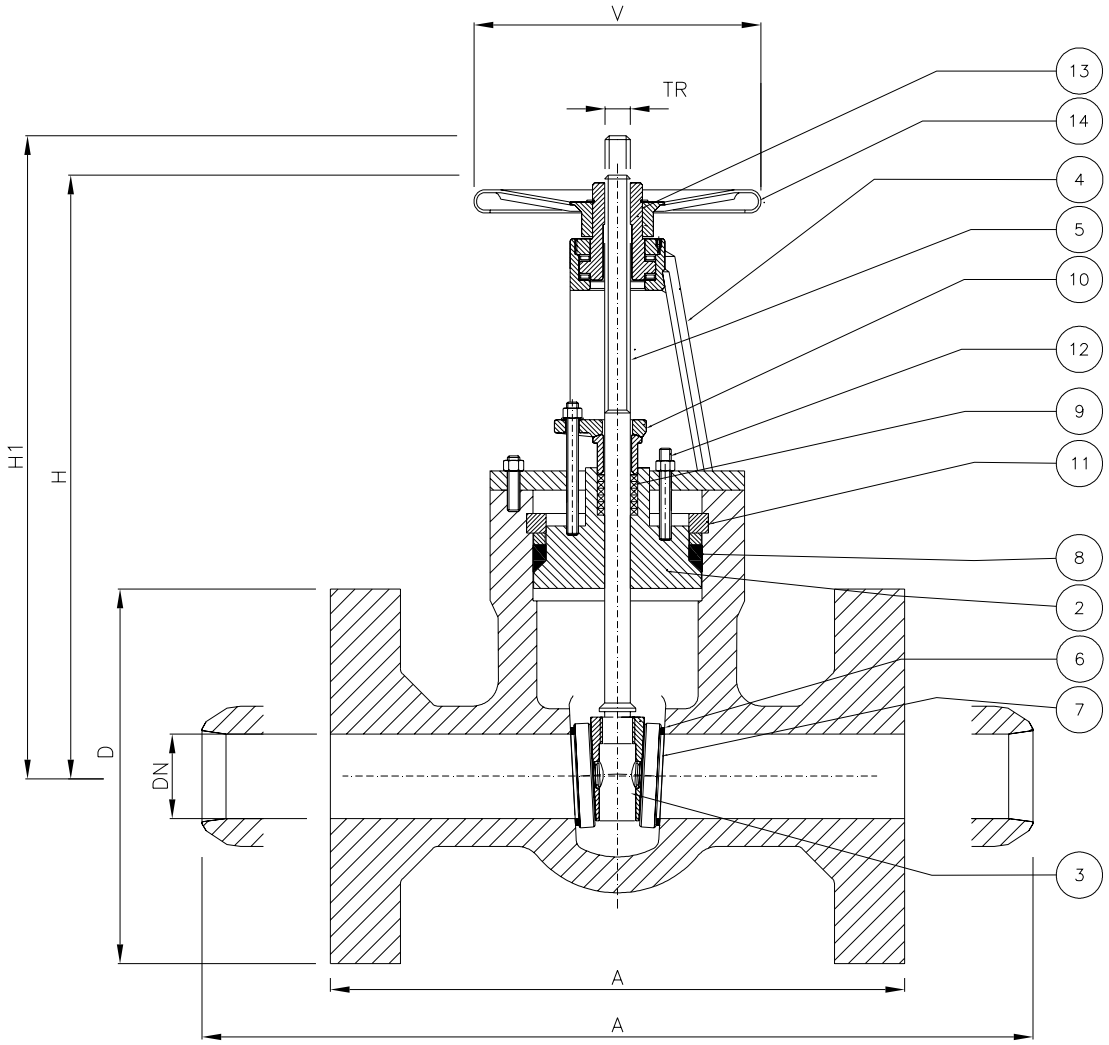
WARNINGS

- § The gate valves are not designed for throttling and regulating service. A prolonged use in partially open position would generally cause some damages.
- § The gate valves are not suitable for media which tend to produce high sedimentation or encrustation, as well as fluids containing foreign solids which, due to their hardness, present the risk to damage the seat faces.
- § In case of horizontal installation the valves shall be always provided with split wedge and, for sizes over 200 mm, the yoke shall be sustained by appropriate devices.
- § The solid wedge is always required for medium that can be subjected to solidification.
- § In case of medium that, due to temperature gradient, can change his physical phase from liquid to gas or vapour, the gate valves shall be provided by appropriate safety device.

Gate Valve Outside Screw

PN 320 DN 50 - DN 300
PD special ratings for BWE version

Fig. 267-567



0948

Rel. 5.0

Standard features:

☑ Design	EN 12516
	EN 1984
☑ Face to face	EN 558 serie 91
	DIN 3202 F9
☑ With flanges	EN 1092-1/21/B2
☑ Materials	EN 10213
	EN 10269
	EN 10088
☑ Bolts and nuts	EN 1515-1
☑ Welding overlay	AD-M HP 0
☑ Testing	EN 1984
	EN 12266
☑ Marking	EN 19
☑ Certificates	EN 10204

Optional versions:

- ☐ AD 2000 – A4
- ☐ TRD 110
- ☐ DIN 3230 Part 4
- ☐ DIN 3230 Part 5
- ☐ DIN 3230 Part 6
- ☐ TRbF 131
- ☐ TRbF 301 or 302
- ☐ ATEX
- ☐ TA-Luft
- ☐ With butt welding ends EN 12627
- ☐ With flanges form A, B1, B2, C, D, E, F, G, H
- ☐ With special devices (see pages 34 – 35)

Material Specification

		DESCRIPTION	FIG. 267	FIG. 367	FIG. 367-J	FIG. 467	FIG. 467-H	FIG. 467-K
1		Body	1.0619	1.4581	1.4308	1.7357	1.7379	1.4931
2		Bonnet	1.0619	1.4581	1.4308	1.7357	1.7379	1.4931
3	x	Wedge	1.0425	1.4571	1.4301	1.7335	1.7380	1.4903
4		Yoke	1.0425	1.4571	1.4301	1.7335	1.7380	1.4903
5	x	Stem	1.4021 (1)	1.4571 (1)	1.4301 (1)	1.4021 (1)	1.4021 (1)	1.4923 (1)
6		Body seats	1.4502 (2)	1.4430 (2)	1.4316 (2)	1.4502 (2)	Stellite (2)	Stellite (2)
7		Wedge seats	1.4502 (2)	1.4581 (2)	1.4308 (2)	1.4502 (2)	Stellite (2)	Stellite (2)
8	O	Gasket	Graphite + SS (3)	Graphite + SS (3)	PTFE (3)	Graphite + SS (3)	Graphite + SS (3)	Graphite + SS (3)
9	O	Packing	Graphite + SS (3)	Graphite + SS (3)	PTFE (3)	Graphite + SS (3)	Graphite + SS (3)	Graphite + SS (3)
10	x	Gland	1.0402	1.4571	1.4301	1.0402	1.0402	1.0402
11		Segment ring	1.0425	1.4571	1.4301	1.7335	1.7380	1.4903
12		Bolts	1.7225 (4)	1.4301 (4)	1.4301 (4)	1.7711 (4)	1.7711 (4)	1.7225 (4)
12		Nuts	1.1191 (4)	1.4301 (4)	1.4301 (4)	1.7225 (4)	1.7225 (4)	1.7225 (4)
13	x	Yoke sleeve	1.0511 NHT	1.0511 NHT	1.0511 NHT	1.0511 NHT	1.0511 NHT	1.0511 NHT
14	x	Handwheel	Pressed steel	Pressed steel	Pressed steel	Pressed steel	Pressed steel	Pressed steel

(1) Also available on request 1,4571, 1.4301, 1.3964, Hastelloy, or other materials.
(2) Also available on request stellite, 1.4462 (duplex), 1.4430, 1.4316, Hastelloy, or other materials.
(3) Also available on request PTFE, Gore-tex, graphite, or other materials.
(4) Also available on request 1.7225 / 1.1191, 1.7711 / 1.7225, 1.4401, 1.4301, A4-70 or other materials.

O recommended spare parts for 2 years standard service; x recommended spare parts for 5 years standard service.

Dimensions

	DN	A	D	H	H1	TR	V	Kg	Δp(5)	Wedge (6)
PN 320	50	350	210	560	610	24 x 5	250	80	160	Split
	65	425	255	635	705	28 x 5	300	165	80	Split
	80	470	275	680	760	40 x 7	500	170	30	Split
	100	550	335	800	910	50 x 8	500	260	0	Split
	125	650	380	855	975	60 x 9	600	480	0	Split
	150	750	425	1030	1185	70 x 10	600	670	0	Split
	200	950	525	1280	1500	80 x 10	600	1470	0	Split
	250	1150	640	1490	1740	100 x 12	600	2010	0	Split
	300	1350	780	1750	2060	120 x 14	600	2990	0	Split

(5) Maximum differential pressure for manoeuvre without gear box or by-pass according to EN 12570 (if equal to 0 the gearbox is recommended).
(6) Standard wedge type. Other execution available on request.

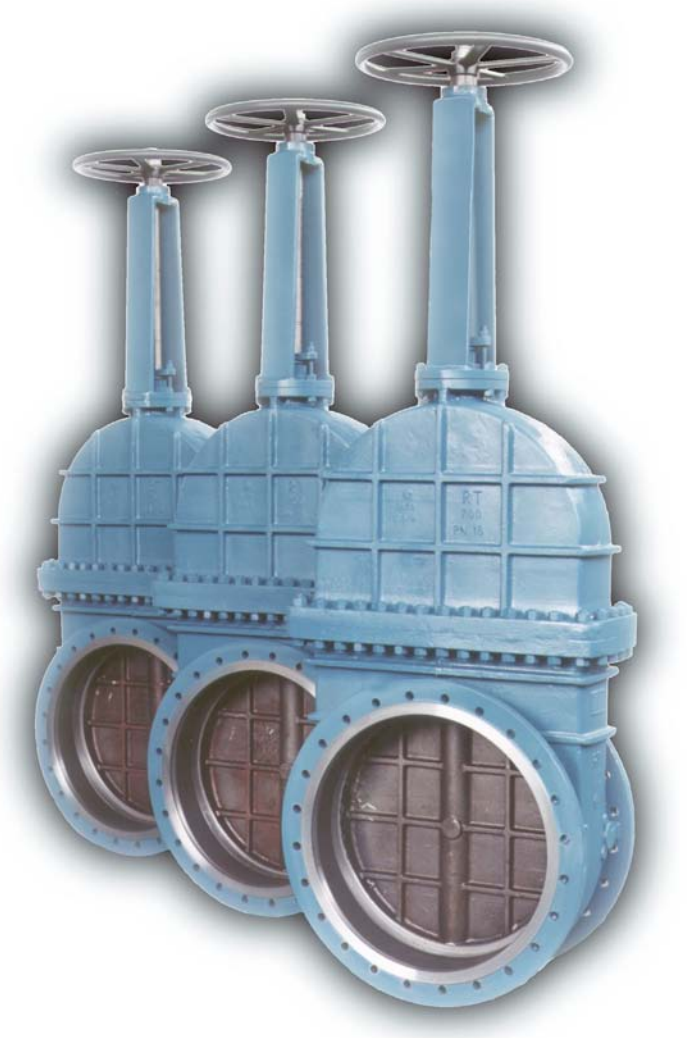
Pressure Temperature Ratings (°C / bar)

	PN	-195	-150	-100	-50	-10	0	20	100	150	200	250	300	350	400	425	450	475	500	525	550	575	600
Fig. 267	320					320	320	316	299	274	249	228	206	192	185	151	118						
Fig. 367(7)	320			320	320	320	320	309	263	245	228	217	206	196	185	181	178	174	171	167	164		
Fig. 367-J	320	320	320	320	320	320	320	302	228	203	178	167	156										
Fig. 467(7)(8)	320					320	320	320	320	320	320	320	320	306	284	277	270	218	166	122	78		
Fig. 467-H(8)	320					320	320	320	320	320	320	320	320	320	320	315	310	252	193	144	94	67	40
Fig. 467-K(8)	320					320	320	320	320	320	320	320	320	320	320	320	320	307	294	231	168	119	70

Special ratings for butt welding ends versions only (desing pressure)

	PD	-195	-150	-100	-50	-10	0	20	100	150	200	250	300	350	400	425	450	475	500	525	550	575	600
Fig. 467-BW(8)	448					448	448	448	448	402	356	341	327	306	284	277	270	218	166	122	78		
Fig. 467-H-BW(8)	569					569	569	569	569	537	505	498	491	469	448	379	310	252	193	144	94	67	40
Fig. 467-K-BW(8)	768					768	768	768	768	704	640	626	612	583	555	497	439	367	294	231	168	119	70

Please, in the inquiry and in the order, specify always the maximum service temperature when it's over 100 °C.
If the valves are provided with flanged connection PN 100 the maximum allowable pressure should be proportionally reduced.
(7) Suitable over 450 °C only if provided with stellited seats. (8) Suitable over 530 °C only if provided with 1.3964 stem.



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