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<https://rtvalves.nt-rt.ru> || rea@nt-rt.ru

Задвижки с наружной крышкой с болтовым креплением 250, 350, 350-J, 450, 450-H, 550

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 with 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 customer specifications. All valves with round body are provided by standard with chambered gasket.

Packing

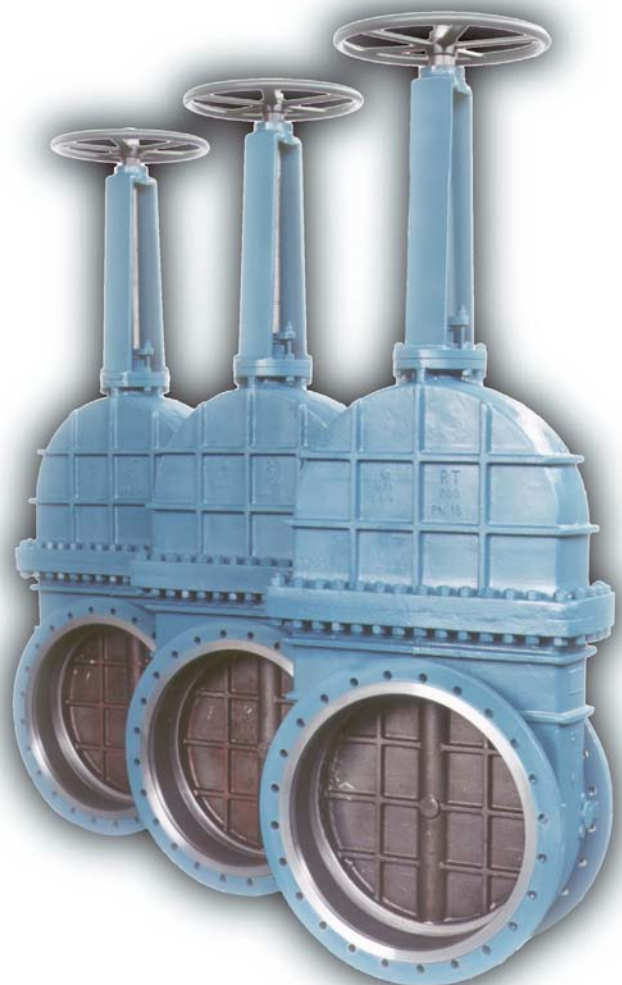
The standard packing is made of four or more pure graphite rings with square section. The first and the last ring are reinforced with stainless steel to avoid the extrusion.

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 63 DN 50 - DN 400

Flanges PN 63 or PN 40

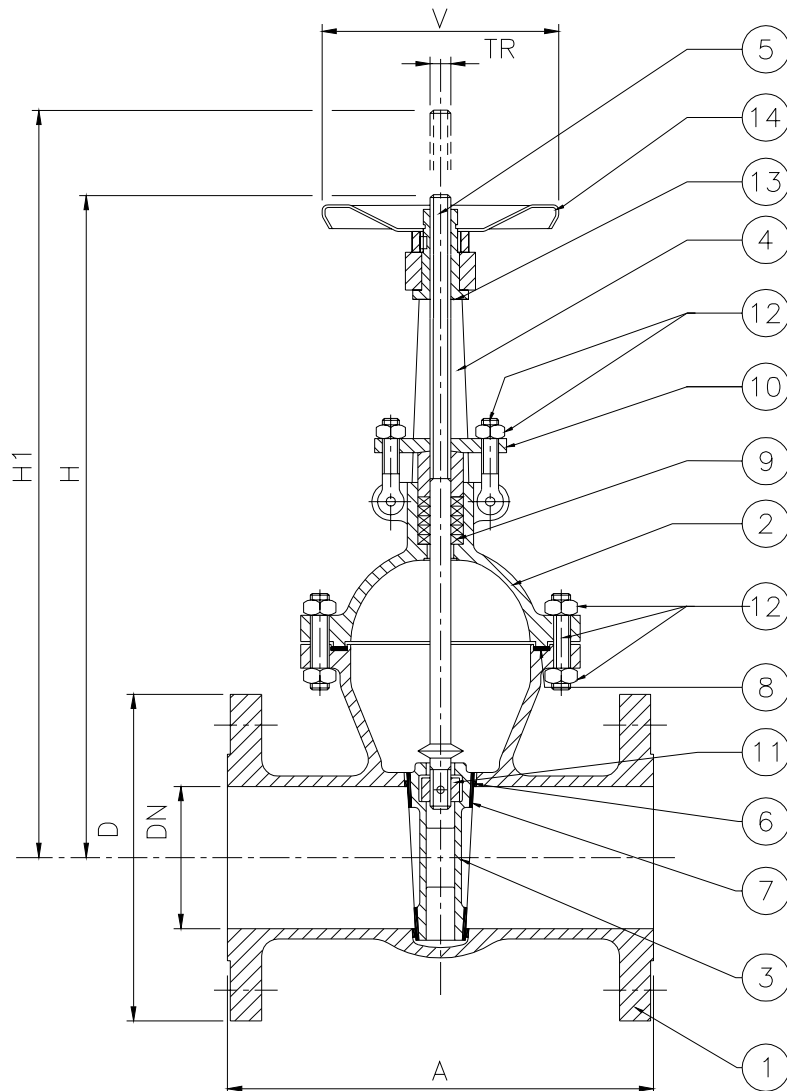
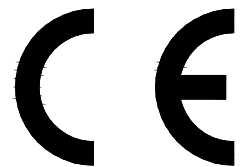


Fig. 250-550



0948

Rel. 5.0

Standard features:

- | | |
|---|----------------------------------|
| ☒ Design | EN 12516
EN 1984 |
| ☒ Face to face | EN 558 series 26
DIN 3202 F7 |
| ☒ 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 flanges PN 25 or PN 16 |
| ☐ With flanges form A, B2, C, D, E, F, G, H |
| ☐ With butt welding ends (EN 12982 / EN 12627) |
| ☐ With special devices (see pages 34 – 35) |

	DESCRIPTION	FIG. 250	FIG. 350	FIG. 350-J	FIG. 450	FIG. 450-H	FIG. 550
1	Body	1.0619	1.4581	1.4308	1.7357	1.7379	1.1138
2	Bonnet	1.0619	1.4581	1.4308	1.7357	1.7379	1.1138
3 x	Wedge	1.0619	1.4581	1.4308	1.7357	1.7379	1.1138
4	Yoke	1.0619	1.4581	1.4308	1.7357	1.7379	1.1138
5 x	Stem	1.4021 ⁽¹⁾	1.4571 ⁽¹⁾	1.4301 ⁽¹⁾	1.4021 ⁽¹⁾	1.4021 ⁽¹⁾	1.4021 ⁽¹⁾
6	Body seats	1.4502 ⁽²⁾	1.4430 ⁽²⁾	1.4316 ⁽²⁾	1.4502 ⁽²⁾	Stellite	1.4502 ⁽²⁾
7	Wedge seats	1.4502 ⁽²⁾	1.4581 ⁽²⁾	1.4308 ⁽²⁾	1.4502 ⁽²⁾	Stellite	1.4502 ⁽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	1.4301
11 x	Boss	1.4571	1.4571	1.4301	1.4571	1.4571	1.4571
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 and different desing (e.g. cam-profile).

⁽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 63	50	250	180	380	440	20 x 4	200	35	63	Split
	65	290	205	455	530	22 x 5	200	44	63	Split
	80	310	215	465	545	22 x 5	250	48	63	Split
	100	350	250	490	600	22 x 5	250	57	63	Split
	125	400	295	615	750	24 x 5	250	81	63	Split
	150	450	345	695	860	28 x 5	300	125	63	Flexible
	200	550	415	845	1060	28 x 5	300	210	51	Flexible
	250	650	470	1000	1265	36 x 6	500	400	51	Flexible
	300	750	530	1140	1455	36 x 6	500	540	39	Flexible
	350	850	600	1250	1650	40 x 7	500	850	23	Flexible
	400	950	670	1430	1850	50 x 8	600	1120	15	Flexible
	450	1050	700	1490	1910	60 x 9	600	1630	4	Flexible
	500	1150	800	1830	2350	70 x 10	600	1830	0	Flexible

⁽⁵⁾ Maximum differential pressure for manoeuvre without gear box or by-pass according to EN 12570 (if equal to 0 the gearbox is mandatory).

⁽⁶⁾ Standard wedge type. Other execution available on request.

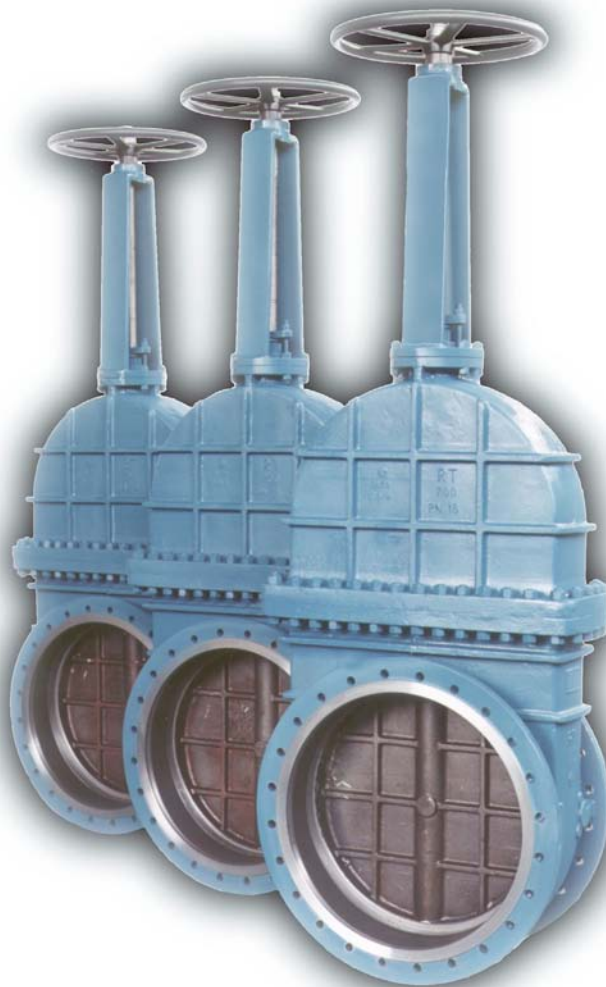
Pressure Temperature Ratings (°C / bar)

	PN	-195	-150	-100	-50	-10	0	20	100	150	200	250	300	350	400	425	450	475	500	525	550	575	600
Fig. 250	63				63,0	63,0	62,2	58,8	53,9	49,0	44,8	40,6	37,8	36,4	29,8	23,2							
Fig. 350 ⁽⁷⁾	63			63,0	63,0	63,0	63,0	60,8	51,8	48,3	44,8	42,7	40,6	38,5	36,4	35,7	35,0	34,3	33,6	32,9	32,2		
Fig. 350-J	63	63,0	63,0	63,0	63,0	63,0	59,4	44,8	39,9	35,0	32,9	30,8											
Fig. 450 ⁽⁷⁾ ⁽⁸⁾	63				63,0	63,0	63,0	63,0	63,0	63,0	63,0	63,0	60,2	56,0	54,6	53,2	43,0	32,8	24,1	15,4			
Fig. 450-H ⁽⁸⁾	63				63,0	63,0	63,0	63,0	63,0	63,0	63,0	63,0	63,0	63,0	62,0	61,0	49,6	38,1	28,3	18,5	13,2	7,8	
Fig. 550	63				63,0	63,0	63,0	61,6	56,0	53,2	50,4	49,0	47,6										

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 40 the maximum allowable pressure should be proportionally reduced.

⁽⁷⁾ Suitable over 450 °C only if provided with stellite seats. ⁽⁸⁾ Suitable over 530 °C only if provided with 1.3964 stem.



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