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Задвижки с внешней крышкой с герметичным уплотнением 261, 361, 361-J, 461, 461-H, 461-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 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

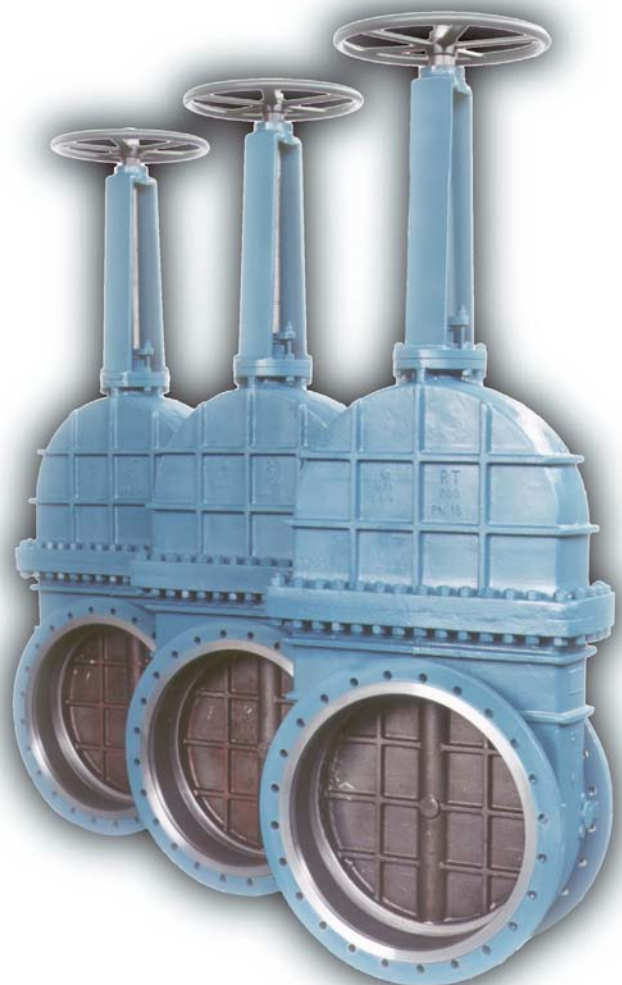
The standard packing is made of four or more pure graphite rings with square section. The first and the last ring are reinforced with stainless steel to avoid the extrusion.

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.

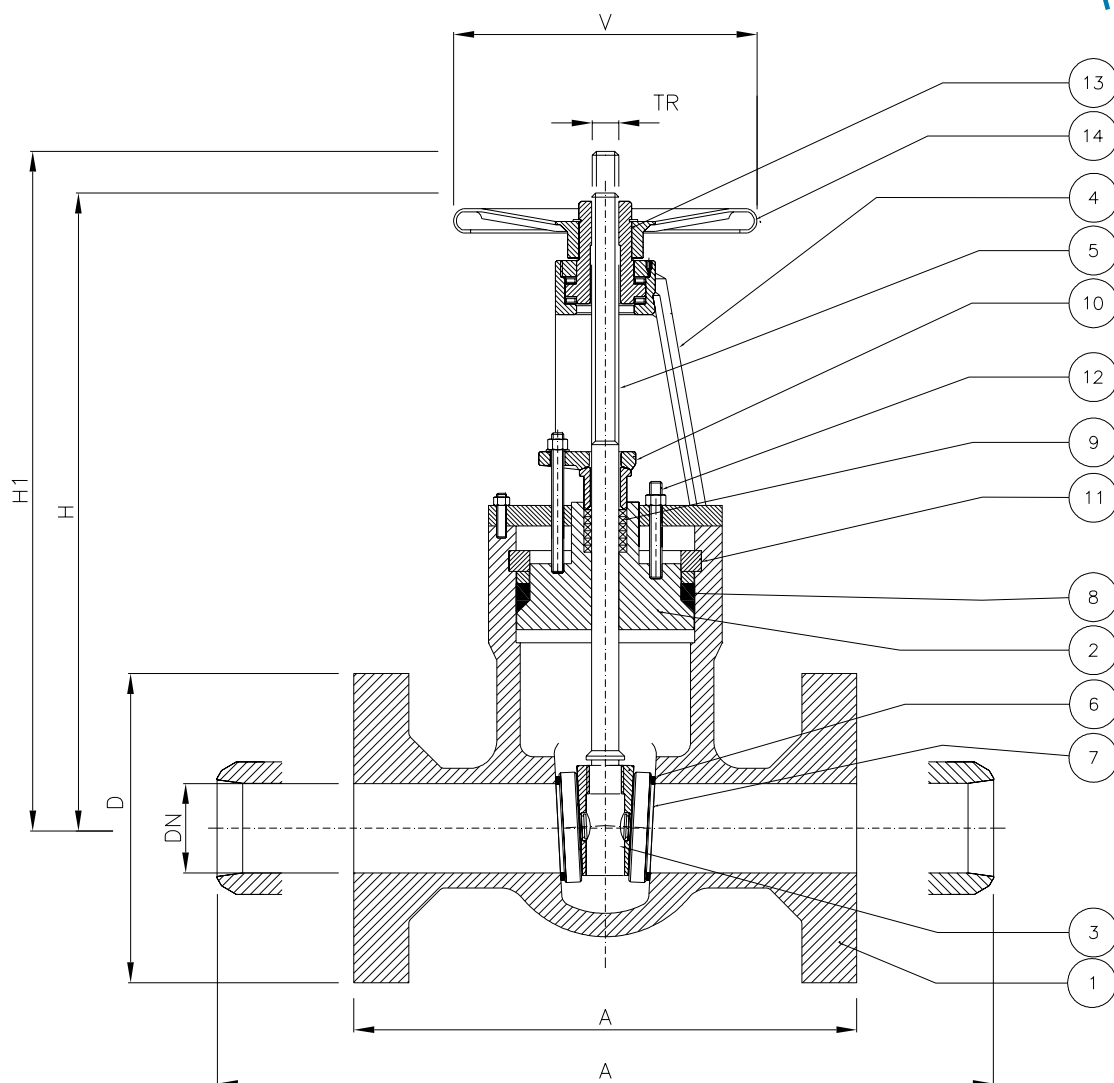


Gate Valve Outside Screw

PN 160 DN 50 - DN 300

PD special ratings for BWE version

Fig. 261-561



0948

Rel. 5.0

Standard features:

- | | |
|---|-----------------|
| ☒ Design | EN 12516 |
| | EN 1984 |
| ☒ Face to face | EN 558 serie 99 |
| | DIN 3202 F8 |
| ☒ 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 (FTF DIN 3202 S10) |
| ☐ With flanges form A, B1, B2, C, D, E, F, G, H |
| ☐ With special devices (see pages 34 – 35) |

	DESCRIPTION	FIG. 261	FIG. 361	FIG. 361-J	FIG. 461	FIG. 461-H	FIG. 461-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	$\Delta p^{(5)}$	Wedge ⁽⁶⁾
PN 160	50	300	195	530	600	20 x 4	200	35	240	Split
	65	360	220	600	690	22 x 4	200	50	160	Split
	80	390	230	640	730	24 x 5	250	100	160	Split
	100	450	265	750	870	28 x 5	300	130	160	Split
	125	525	315	800	950	36 x 6	400	150	160	Split
	150	600	355	980	1150	40 x 7	400	280	0	Split
	200	750	430	1200	1430	50 x 8	500	520	0	Split
	250	900	515	1400	1680	60 x 9	600	810	0	Split
	300	1050	585	1650	1980	70 x 10	600	1350	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. 261	160					160	160	157	149	136	124	113	103	96	92	76	59						
Fig. 361 ⁽⁷⁾	160			160	160	160	160	154	131	122	113	108	103	98	92	91	89	87	85	84	82		
Fig. 361-J	160	160	160	160	160	160	160	150	113	101	89	84	78										
Fig. 461 ⁽⁷⁾ ⁽⁸⁾	160				160	160	160	160	160	160	160	160	160	152	142	138	135	109	83	61	39		
Fig. 461-H ⁽⁸⁾	160				160	160	160	160	160	160	160	160	160	160	160	160	155	125	97	72	47	33	20
Fig. 461-K ⁽⁸⁾	160				160	160	160	160	160	160	160	160	160	160	160	160	160	160	147	115	84	59	35

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. 461-BW ⁽⁸⁾	224					224	224	224	224	201	178	171	164	153	142	139	135	109	83	61	39		
Fig. 461-H-BW ⁽⁸⁾	284					284	284	284	284	268	252	249	245	235	224	190	155	125	97	72	47	33	20
Fig. 461-K-BW ⁽⁸⁾	384					384	384	384	384	352	320	312	305	291	277	248	219	183	147	115	84	59	35

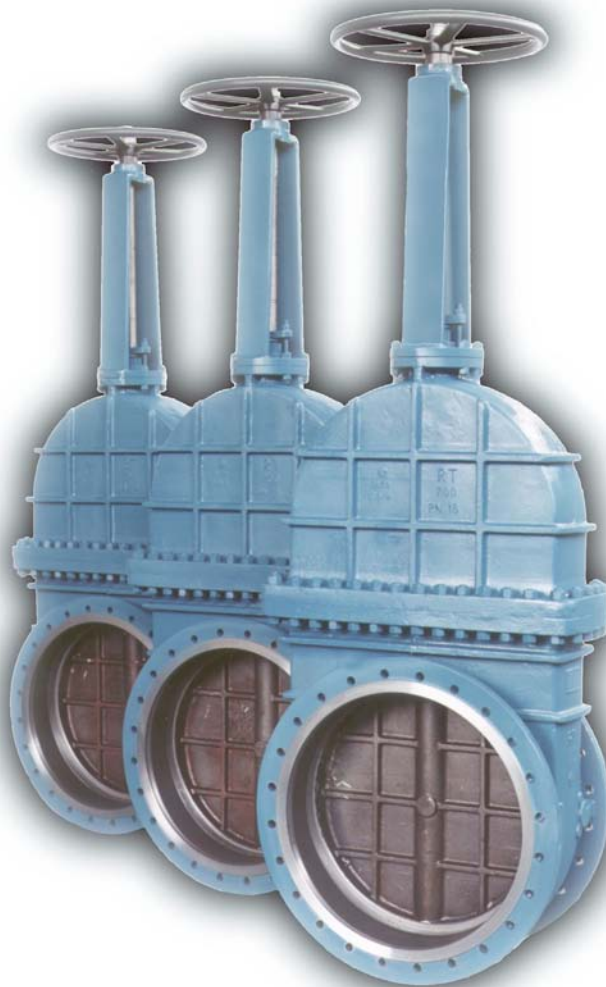
Please, in the inquiry and in the order, specify always the maximum service temperature when it's over 100 °C.

If the valves are provided with flanged connection with lower PN 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.

General sale and delivery conditions and product guarantee as specified at pages 56 and 57.

Due to constant improvement all data and details contained in this catalogue are purely indicative and they can be subjected to change without notice.



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