

TECHNICAL DATA SHEET / EN

TRANSIT OS&Y GV-04/G

Grooved outside-screw-and-yoke gate valve

A full-bore resilient-seated isolation valve with an external rising stem and yoke. Stem movement gives a direct visual indication of valve position during fire-protection inspections.

Turning the handwheel raises or lowers the stem and wedge. This version is for handwheel operation only, without a gear operator or actuator.



01 Technical parameters

Parameter	Value / condition
Working pressure	350 psi / 24.1 bar
Connection	Grooved x grooved
Size range	DN50, DN65, DN80, DN100, DN150, DN200, DN250

Used on sprinkler and hydrant water supplies where visible valve position is important. Leave clear space above the yoke for the full rising-stem travel.

02 Dimensions and geometry

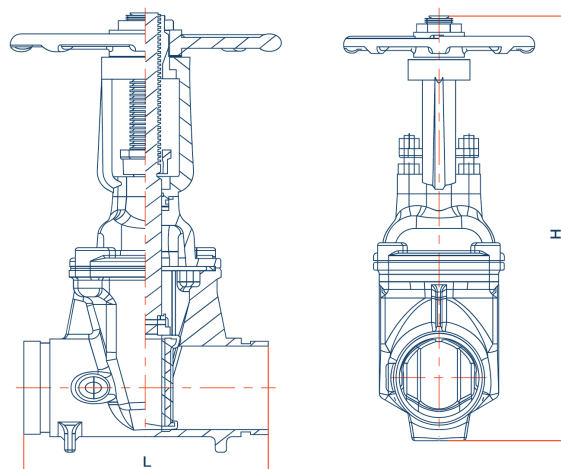


Fig. 1. Dimension symbols used in the table below.

DN	OD [mm]	NPS [in]	L [mm]	H min. [mm]	H max. [mm]
50	60.3	2	178	420	482
65	76.1	2½	190	435	505
80	88.9	3	203	500	584
100	114.3	4	229	580	687
150	168.3	6	267	770	931
200	219.1	8	292	930	1136
250	273	10	330	1125	1383

Dimensions in mm. Symbols apply only to Fig. 1 and the specified variant. Do not scale the drawing.

03 Main component materials

Component	Material / construction
1. Body	Ductile iron 65-45-12
2. Bonnet	Ductile iron 65-45-12
3. Resilient wedge	Ductile iron 65-45-12 + EPDM
4. Stem	Stainless steel 304
5. Stem nut	Bronze C95200
6. Gland	Ductile iron 65-45-12
7. Gland packing	Graphite-filled PTFE
8. Seal ring	EPDM
9. Bonnet bolt	Q235-A, hot-dip galvanised
10. Gland bolt	Stainless steel 304
11. Handwheel	Ductile iron 65-45-12
12. Handwheel retaining nut	C95200 or Q235-A, hot-dip galvanised
13. Coating	Epoxy powder, RAL 3000
14. Yoke	Ductile iron 65-45-12

04 Selection and compatibility

Select by model, nominal size, pipe outside diameter, groove geometry and working pressure. Check the operating space and the rating of every mating component; DN alone does not identify a compatible connection.

05 Installation and checks

Installation must be performed by qualified personnel. Isolate, drain and fully depressurise the affected section, applying the site's fire-protection impairment procedure. Clean and independently support the pipe, fit compatible couplings and check a full operating cycle and leak tightness.

06 Operation and maintenance

Inspect for leaks, corrosion, coating damage, clear markings and smooth full travel. Maintain the required service position and any monitoring or locking arrangement.

Application limitations

For isolation in fully open or fully closed positions, not flow regulation. Never dismantle or tighten a pressurised valve. Confirm the permitted temperature for the exact valve and protect water-filled pipework against freezing.

07 Ordering information

Variant	Mercatura code
DN50 / 60.3 mm	M-GV-04/G-060
DN65 / 76.1 mm	M-GV-04/G-076
DN80 / 88.9 mm	M-GV-04/G-089
DN100 / 114.3 mm	M-GV-04/G-114
DN150 / 168.3 mm	M-GV-04/G-168
DN200 / 219.1 mm	M-GV-04/G-219
DN250 / 273 mm	M-GV-04/G-273

Specify finish, gasket and required approval scope with the variant identifier. The identifier alone does not establish these attributes.