

BRONZE GATE VALVE PN16

Non-Rising Stem Wedge Gate Valve · Flanged Ends, Undrilled · VZo Fig. 102

BRAND: VZo

SKU: SW-0360

SIZE 1/2" TO 4"

PN16 / FIG. 102



FIG. 1 | BRONZE GATE VALVE PN16 UNDRILLED, VZo

PRODUCT OVERVIEW

The VZo Bronze Gate Valve is a full bore isolating valve for water, air, gas and oil service. A bronze wedge is driven onto twin seats by a non-rising stem, giving a straight through bore and negligible pressure drop when the valve is fully open. It is intended for on and off duty, not for throttling.

Body, bonnet and wedge are cast in bronze to BS 1400 LG2 with a high tensile brass stem and PTFE gland packing. The flange faces are machined to PN16 dimensions but supplied undrilled, so the drilling can be matched to PN16, CL150 or JIS on site or to order without changing the valve.

Valve type	Wedge gate valve, full bore
Operation	Manual, handwheel, non-rising stem
Body material	Bronze, BS 1400 LG2
End connection	Flanged, PN16 face, undrilled
Pressure rating	PN16, 16 bar
Size range	1/2" to 4" (DN15 to DN100)

TECHNICAL SPECIFICATION

Brand	VZo	Gland packing	PTFE
Figure number	102	Handwheel	Cast iron or aluminium, IS 210 Gr. FG 200
Body and bonnet	Bronze, BS 1400 LG2	Max. working pressure	16 bar (232 psi)
Wedge	Bronze, BS 1400 LG2	Shell test	24 bar hydraulic
Stem	High tensile brass, FLB	Seat test	16 bar hydraulic
Port	Full bore	Flange drilling	Undrilled as supplied

MANUFACTURER



BRAND MARK AS CAST OR PRINTED ON THE PRODUCT

Brand	VZo, The Valves Zone
Body material	Bronze, BS 1400 LG2 / B62
Flange standard	PN16 face, supplied undrilled
Product range	Bronze flanged valves and strainers



PRODUCT DATA SHEET

BRONZE GATE VALVE PN16

Ref. SW-0360 | Rev. 01

BILL OF MATERIALS

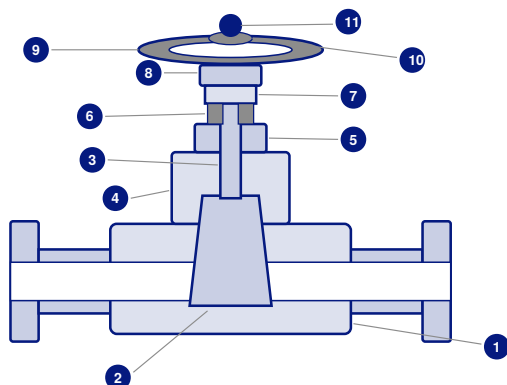


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Bronze, BS 1400 LG2
2	Wedge	Bronze, BS 1400 LG2
3	Stem	High tensile brass, FLB
4	Bonnet	Bronze, BS 1400 LG2
5	Nipple	Bronze, BS 1400 LG2
6	Gland packing	PTFE
7	Gland bush	Bronze, BS 1400 LG2
8	Gland nut	Bronze, BS 1400 LG2
9	Handwheel	Cast iron or aluminium
10	Washer	Mild steel
11	Bolt / screw	Mild steel

One off each part per valve. Materials are as published on the VZo factory drawing.
Handwheel material varies with size and production batch.

DIMENSIONS

SIZE	DN	L (MM)	ØW (MM)	H (MM)	ØD (MM)	T (MM)	K (MM)	N	ØD (MM)
1/2"	15	72	60	107	95	6	65	4	14
3/4"	20	76	60	115	105	6	75	4	14
1"	25	90	66	135	115	8	85	4	14
1.1/4"	32	100	72	145	140	8	100	4	18
1.1/2"	40	110	76	170	150	9	110	4	18
2"	50	120	96	193	165	11	125	4	18
2.1/2"	65	140	111	230	185	13	145	4	18
3"	80	150	130	247	200	13	160	8	18
4"	100	190	160	305	220	16	180	8	18

L = face to face length. ØW = handwheel diameter, H = overall height with the valve fully open, ØD = flange outside diameter, T = flange thickness. K, n and Ød are the PN16 drilling reference only: valves are supplied with undrilled flange faces so the drilling can be matched on site. Dimensions are taken from the VZo factory drawing and carry the manufacturer's tolerances. H is approximate. Weights are not published and are available on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0360
Size	1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Flange	PN16 face, undrilled. PN16, CL150, JIS 5K or JIS 10K drilling on request
Body	Bronze, BS 1400 LG2
Brand	VZo, Fig. 102
Order example	SW-0360 / 2" / PN16 UNDRILLED / VZo

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



PRESSURE AND TEMPERATURE

Nominal pressure	PN16
Max. working pressure	16 bar (232 psi)
Shell test, hydraulic	24 bar
Seat test, hydraulic	16 bar
Flange face	PN16 dimensions, undrilled

Test pressures are the manufacturer's published hydraulic figures. SWBM lists this bronze range for -10°C to +180°C, but no temperature rating is stated on the VZo drawing, so confirm the duty with SWBM before specifying at elevated temperature.

TYPICAL APPLICATIONS

- Isolation on water supply and distribution mains
- Marine and shipboard service lines
- Firefighting and hydrant systems
- Air, gas and oil service in general engineering
- HVAC and chilled water plant rooms
- Industrial process and utility piping

COMPLIANCE AND QUALITY

- Body, bonnet and internals in bronze to BS 1400 LG2 / B62
- Stem in high tensile brass
- PTFE gland packing, re-tightenable in service
- Flange faces to PN16 dimensions, supplied undrilled
- Hydraulic shell test at 24 bar, seat test at 16 bar
- Drilling to PN16, CL150, JIS 5K or JIS 10K on request
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear weld slag, sand and debris
- Drill the flanges to the required standard before the valve is fitted
- Install with the valve fully open, the wedge is vulnerable during pipe work
- Use full face gaskets and tighten flange bolts evenly in a diagonal sequence
- Operate fully open or fully closed, do not use the valve to throttle flow
- Re-tighten the gland nut lightly if weeping appears at the stem

COMPANY

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