

BRONZE ANGLE VALVE PN16

Right Angle Pattern Globe Valve · Flanged Ends, Undrilled · VZo Fig. 629FX

BRAND: VZo

SKU: SW-0353

SIZE 1/2" TO 4"

PN16 / FIG. 629FX



FIG. 1 | BRONZE ANGLE VALVE PN16 UNDRILLED, VZo

PRODUCT OVERVIEW

The VZo Bronze Angle Valve is a globe valve built on a right angle body, so it turns the line through 90 degrees and regulates flow in a single fitting. That removes an elbow from the run and gives a lower pressure drop than a straight globe valve fitted next to a bend.

Body, bonnet and disc are cast in bronze to BS 1400 LG2 / B62 with a high tensile brass stem, a separate disc nut and PTFE gland packing. Flange faces are machined to PN16 dimensions and supplied undrilled, so the drilling can be matched to PN16, CL150 or JIS without changing the valve.

Valve type	Globe valve, right angle pattern
Operation	Manual, handwheel, regulating or shut-off
Body material	Bronze, BS 1400 LG2 / B62
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	629FX	Handwheel	Cast iron or aluminium
Body and bonnet	Bronze, BS 1400 LG2 / B62	Max. working pressure	16 bar (232 psi)
Disc and disc nut	Bronze, BS 1400 LG2 / B62	Shell test	24 bar hydraulic
Stem	High tensile brass, FLB	Seat test	16 bar hydraulic
Flow path	90 degree, inlet to outlet	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

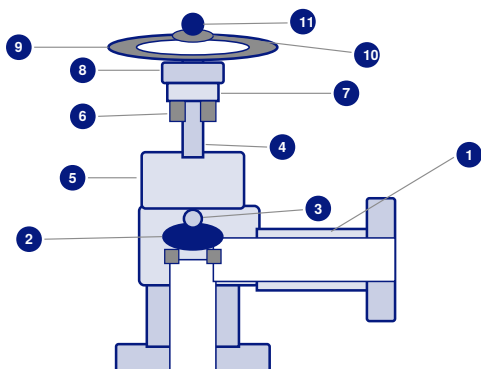
BILL OF MATERIALS


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Bronze, BS 1400 LG2 / B62
2	Disc	Bronze, BS 1400 LG2 / B62
3	Disc nut	Bronze, BS 1400 LG2 / B62
4	Stem	High tensile brass, FLB
5	Bonnet	Bronze, BS 1400 LG2 / B62
6	Gland packing	PTFE
7	Gland bush	Bronze, BS 1400 LG2 / B62
8	Gland nut	Bronze, BS 1400 LG2 / B62
9	Handwheel	Cast iron or aluminium
10	Washer	Mild steel
11	Bolt	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	CF (MM)	ØW (MM)	H (MM)	ØD (MM)	T (MM)	K (MM)	N	ØD (MM)
1/2"	15	65	60	94	95	6	65	4	14
3/4"	20	70	60	105	105	6	75	4	14
1"	25	80	66	120	115	8	85	4	14
1.1/4"	32	90	76	122	140	8	100	4	18
1.1/2"	40	95	86	132	150	9	110	4	18
2"	50	105	96	155	165	11	125	4	18
2.1/2"	65	115	111	183	185	13	145	4	18
3"	80	125	130	195	200	13	160	8	18
4"	100	135	160	232	220	16	180	8	18

CF = face to centre, measured from each flange face to the axis of the other branch. 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-0353
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 / B62
Brand	VZo, Fig. 629FX
Order example	SW-0353 / 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.



PRODUCT DATA SHEET

BRONZE ANGLE VALVE PN16

Ref. SW-0353 | Rev. 01

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

- Tank and vessel outlet connections
- Marine and shipboard service lines
- Pump suction and discharge take-offs
- Regulating duty where the line turns through 90 degrees
- Boiler and steam plant auxiliary connections
- General industrial 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 flow entering under the disc unless the duty requires otherwise
- Support the pipework either side, an angle body carries an out of line load
- Use full face gaskets and tighten flange bolts evenly in a diagonal sequence
- Re-tighten the gland nut lightly if weeping appears at the stem

COMPANY

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