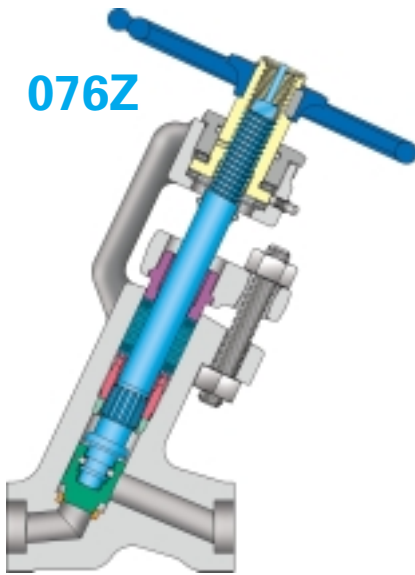




**FORGED STEEL Y-PATTERN
BONNETLESS GLOBE VALVES, 1/2–4" (15–100 mm)**
CONVENTIONAL PORT OPENING, THREADED,
SOCKET WELD OR BUTT WELD
ASME CLASSES 1690, 2680, 4500



076Z

NON-ROTATING STEM

Patented for quick serviceability,
(USA patent number 4356832).

NOTE: For more information consult
Velan's Y-Pattern Globe Valves
catalogue VEL-BG.

DESIGN FEATURES

- Designed for quick and easy maintenance – one step removal of all working parts including packing.
- All pressure containing parts within one body-bonnet forging – no joints to leak or welds to cut for servicing.
- Non rotating stem allows a non-spinning disc, ensures low torque and prevents torsional damage of the packing.
- Fully enclosed, lubricated stem drive system with needle bearings ensures low operating torque.
- Solid Stellite disc, seat ring and backseat provide excellent long service life even in severe services.
- Backseat bevel on the stem, not on the disc, satisfies both API-600 and API-602 specifications.

FIGURE NUMBERS

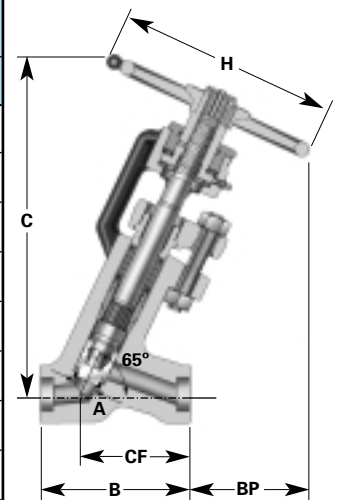
THREADED, SOCKET WELD OR BUTT WELD CONNECTIONS			
CLASS	STOP VALVE	STOP CHECK VALVE	NEEDLE VALVE
1690	8076Z	8086Z	8096Z
2680	9076Z	9086Z	9096Z
4500	5076Z	5086Z	5096Z

PART	STANDARD MATERIALS
Body	A105N
Seat (integral)	Stellite 6
Disc	Stellite 6
Stem	Gr. 410 (stainless)
Stem nut	A 439 Austenitic ductile iron Gr. D-2C
Backseat	Stellite 6
Splined bushing	Gr. 630 (stainless)
Packing washer	Gr. 304 (stainless)
Packing	Graphite
Split gland bushing	Gr. CA15 (stainless)
Packing flange	A 105
Gland stud	Gr. B7
Gland nut	Gr. 2H
Yoke bushing	Gr. 1020 steel
Thrust bearing	Steel
Stem protector	Steel
O-ring	Nitrile rubber
Handwheel	Malleable iron
Snap ring	Steel
Name plate	Gr. 304 (stainless)

For other materials, trim and engineering data, see pages 21–25.

DIMENSIONS, WEIGHTS AND CV

Size in mm	A Port		B End to End		C Center to Top		H Handwheel		BP Clearance Open		CF Center to End		Weight lb kg		CV Flow Coefficient	
	1690	2680	4500	2680	4500	1690	2680	4500	2680	4500	1690	2680	4500	2680	4500	
1/2 15	0.559 14.2	0.375 9.5	4.88 124	5.75 146	9.63 245	11.75 298	6.00 152	6.00 152	3.63 92	3.25 83	3.20 81	4.19 106	15 7	28 13	7	4
3/4 20	0.559 14.2	0.559 14.2	4.88 124	7.00 178	9.63 245	14.20 361	6.00 152	8.00 203	3.63 92	6.00 152	3.20 81	3.88 99	15 7	58 26	8	7
1 25	0.833 21.2	0.559 14.2	5.75 146	7.00 178	13.19 335	14.20 361	8.00 203	8.00 203	5.13 130	6.00 152	4.19 106	3.88 99	33 15	58 26	12	9
1 1/4 32	1.125 28.6	0.833 21.2	7.25 184	10.13 257	16.63 422	18.88 480	12.00 305	12.00 305	7.57 192	7.00 178	4.94 125	6.57 167	67 30	103 47	24	19
1 1/2 40	1.125 28.6	1.125 28.6	7.25 184	12.00 305	16.63 422	20.75 527	12.00 305	18.00 457	7.57 192	8.00 203	4.94 125	8.00 203	67 30	166 75	25	24
2 50	1.688 42.9	1.125 28.6	10.13 257	12.00 305	19.88 505	20.75 527	12.00 305	18.00 457	7.50 190	8.00 203	6.57 167	8.00 203	110 50	166 75	60	25
2 1/2 ⁽¹⁾ 65	1.688 42.9	1.50 38.1	12.00 305	12.00 305	20.69 526	20.75 527	16.00 ⁽²⁾ 406	16.00 ⁽²⁾ 406	7.25 184	7.25 184	8.00 203	8.00 203	166 ⁽³⁾ 75	166 75	60	47
3 ⁽¹⁾ 80	1.688 42.9	1.50 38.1	12.00 305	12.00 305	20.69 526	20.75 527	16.00 ⁽²⁾ 406	16.00 ⁽²⁾ 406	7.25 184	7.25 184	8.00 203	8.00 203	166 ⁽³⁾ 75	166 75	60	47
4 100	1.688 42.9	1.50 38.1	12.00 305	12.00 305	20.69 526	20.75 527	16.00 ⁽²⁾ 406	16.00 ⁽²⁾ 406	7.25 184	7.25 184	8.00 203	8.00 203	166 75	166 75	60	47



(1) For Classes 1690 & 2680, dimensions are as shown, or same as for 2" (50 mm) valve, depending on end connection.
(2) Impactor handle.
(3) For butt weld ends, weights is 110 lb (50 kg).