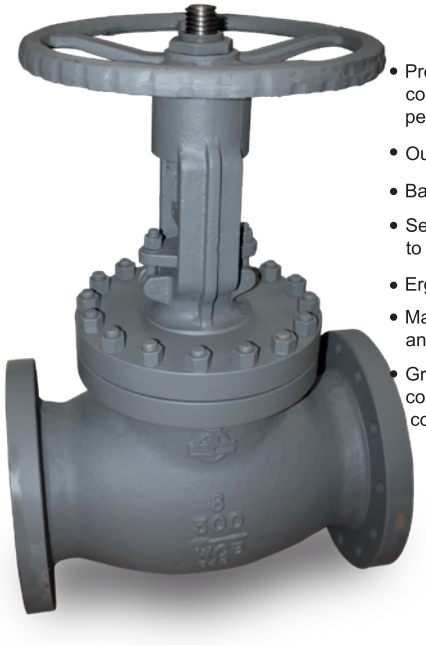
80 ANSI GLOBE VALVES SERIES 80

Uniflow®

Series 80 Globe Valves are linear motion valves devised for stopping the fl ow of the service fl uid when necessary. They are bolted bonnet, outside screw and yoke, rising handwheel, being the closure element a disc seating against a precisely machined seat thus achieving the positive closure. The atmospheric sealing is achieved by fl exible graphite rings. The fl ow comes upwards underneath the seat, being an unidirectional valve. Weir body leads to higher pressure drop compared to gate valves but operation is quicker and this feature allows to use the valve as regulating valve when arranged with throttling plug. Valves are of easy and safe operation being widely used in power, chemical and oil industry. The range is also comprehensive o a wide offer of different versions and options. The standard operation is achieved by handwheel or gear, depending on valve size and working pressure. Valves can also be arranged for automation with different kinds of actuators.



- Precise machining of components for optimal performance
- Outside screw and yoke,
- Back Seat feature
- Seat surface can be hardened to increase wear resistance
- Ergonomic rising handwheel
- Marking for identification and full traceability purpose
- Great versatility in end connections, materials and configurations

Main Features / Reference Standards

Design: BS 1873 / ASME B16.34
Pressure Rating: 150/300/600/900/1500/2500#
Face to face length: ASME B16.10
Valve end connections: Flanged RF or RTJ to ASME B16.5
Welded BW to ASME B16.25

Marking: MSS SP-25
Inspections & Tests: API 598
Unidirectional design. See the arrow on the body for normal fl ow direction
Primer painted for protection during storage and transport (carbon steel body/bonnet)
Product compliant with Directive 2014/68/EU on Pressure Equipment (PED) and Machinery Directive 2006/42/EC for European Union territory

Main Duties / Limits of use

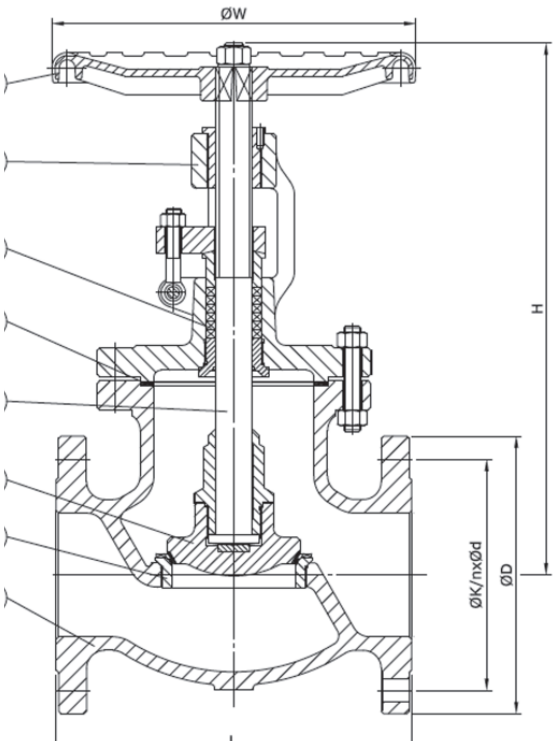
Fluids compatible with materials of construction. Questions referring to chemical resistance, please consult us
Pressure / Temperature Rating to ASME B16.34. Temperature range: -29 / 425ºC
For products compliant with Directive 2014/68/EU, observe also limits acc. to Annex II tables 6 & 8 (gases & liquids group 1*) and tables 7 & 9 (gases & liquids group 2*) up to category III
*Classifi cation of fl uids (group 1 or 2) acc. to Directive 2014/68/EU, Article 13

Options

Different body materials and trim combinations, different valve connections, angle pattern, Y-Pattern, regulating plug, extended bonnet, bellow seal, pressure seal, welded bonnet, lantern ring with double packing, live loaded packing, chained hand wheel, manual gear, pneumatic, electric or hydraulic actuation, limit switches, execution for aggressive atmosphere, etc. Please consult valcontrol.

Rev.00-08.20

Main Parts and Materials



Nº	PART	MATERIAL 80A0_	80I20	80I00
1	BODY	Cast Steel ASTM A216 WCB	St. Steel ASTM A351 CF8	St. Steel ASTM A351 CF8M
2	SEAT	13Cr or HF	Integral SS304	Integral SS316
3	DISC	13Cr or HF	St. Steel ASTM A351 CF8	St. Steel ASTM A351 CF8M
4	STEM	F6a	304	316
6	GASKET		Graphite	
9	BONNET	Cast Steel ASTM A216 WCB	St. Steel ASTM A351 CF8	St. Steel ASTM A351 CF8M
11	PACKING		Graphite	
19	HANDWHEEL		Steel	

Main parts only, rest on request

Fig. 80A0_	Seat Surface	Disc Surface	Stem
TRIM #1 (80A01)	A216 WCB+13Cr	A105+13Cr	A182 F6a
TRIM #5 (80A05)	A216 WCB+HF	A105+HF	A182 F6a
TRIM #8 (80A08)	A216 WCB+HF	A105+13Cr	A182 F6a

HF = Hard faced

Main Valve Parameters

Size		inch	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
		DN	50	80	100	150	200	250	300	350	400	450	500	600
Class 150	RF	L	203	241	292	406	495	622	698	787	914	978	978	1295
		ØD	150	190	230	280	345	405	485	535	595	635	700	815
		ØK	120,7	152,4	190,5	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3
		n-Ød	4-Ø19	4-Ø19	8-Ø19	8-Ø22	8-Ø22	12-Ø25	12-Ø25	12-Ø29	16-Ø29	16-Ø32	20-Ø32	20-Ø35
	H (open)		302	355	437	517	606	710	882	990	(1)	(1)	(1)	(1)
	Approx. Weight		15	28	47	63	115	248	365	680	880	1150	1350	1700
Class 300	RF	L	267	318	356	444	559	622	711	838	863	977	1016	1346
		ØD	165	210	255	320	380	445	520	585	650	710	775	915
		ØK	127	168,3	200	269,9	330,2	387,4	450,8	514,4	571,5	628,6	685,8	812,8
		n-Ød	8-Ø19	8-Ø22	8-Ø22	12-Ø22	12-Ø25	16-Ø29	16-Ø32	20-Ø32	20-Ø35	24-Ø35	24-Ø35	24-Ø41
	H (open)		317	384	450	538	734	875	(1)	(1)	(1)	(1)	(1)	(1)
	Approx. Weight		25	42	70	120	230	389	580	1080	1200	1550	1950	-
Class 600	RF	L	292	356	432	559	660	787	838	889	991	1092	1194	1397
		ØD	165	210	275	355	420	510	560	605	685	745	815	940
		ØK	127	168,3	215,9	292,1	349,2	431,8	489	527	603,2	654	723,9	838,2
		n-Ød	8-Ø19	8-Ø22	8-Ø25	12-Ø29	12-Ø32	16-Ø35	20-Ø35	20-Ø38	20-Ø31	20-Ø44	24-Ø44	24-Ø51
	H (open)		360	446	536	783	937	941	(1)	(1)	(1)	(1)	(1)	(1)
	Approx. Weight		30	55	100	235	410	585	1050	1280	1600	2800	3500	4600
ØW			220	350	400	500	550	600	(1)	(1)	(1)	(1)	(1)	(1)

(1) Valves with gear
Class 150: 2" to 8",the fl ow direction is normal
10" and above,the fl ow direction is opposite
Class 300: 2" to 6",the fl ow direction is normal
8" and above,the fl ow direction is opposite
Class 600: 2" to 4",the fl ow direction is normal
6" and above,the fl ow direction is opposite

Dimensions in mm subject to manufacturing tolerance / Weights in kg
Other dimensions on request

Information / restriction of technical rules need to be observed!

The engineer, designing a system or a plant, is responsable for the selection of the correct valve
Product suitability must be veri ed, contact manufacturer for information