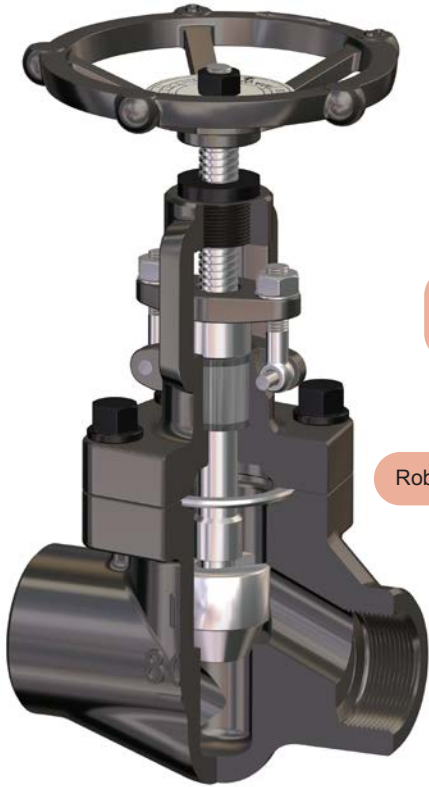


SERIES 89 ANSI RANGE

Series 89 Forged Globe Valves are linear motion valves devised for stopping the flow of the service fluid when necessary. They are of robust and compact design, bolted bonnet, outside screw and yoke, conventional port and 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 flexible graphite rings. The flow comes upwards underneath the seat, being unidirectional. Their shape 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 of a wide offer of different versions and options. The standard operation is achieved by handwheel, and they can also be arranged for automation with different kinds of actuators.



Outside screw and yoke

Ergonomic rising handwheel

Precise machining of components for optimal performance

Marking for identification and full traceability purpose

Back Seat feature

Robust and compact construction

Seat surface can be hardened to increase wear resistance

Great versatility in end connections, materials and configurations

Main Features / Reference Standards

Design: API 602
 Pressure Rating: 800/1500/2500#
 Face to face length: Manufacturer standard
 Valve end connections: Threaded NPT to ASME B1.20.1 / BSP to ISO 228-1 / BSPT to ISO 7-1
 Welded SW to ASME B16.11
 Marking: MSS SP-25
 Inspections & Tests: API 598
 Unidirectional design. See the arrow on the body for normal flow direction
 Zinc phosphated surface protection for forged steel valves
 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

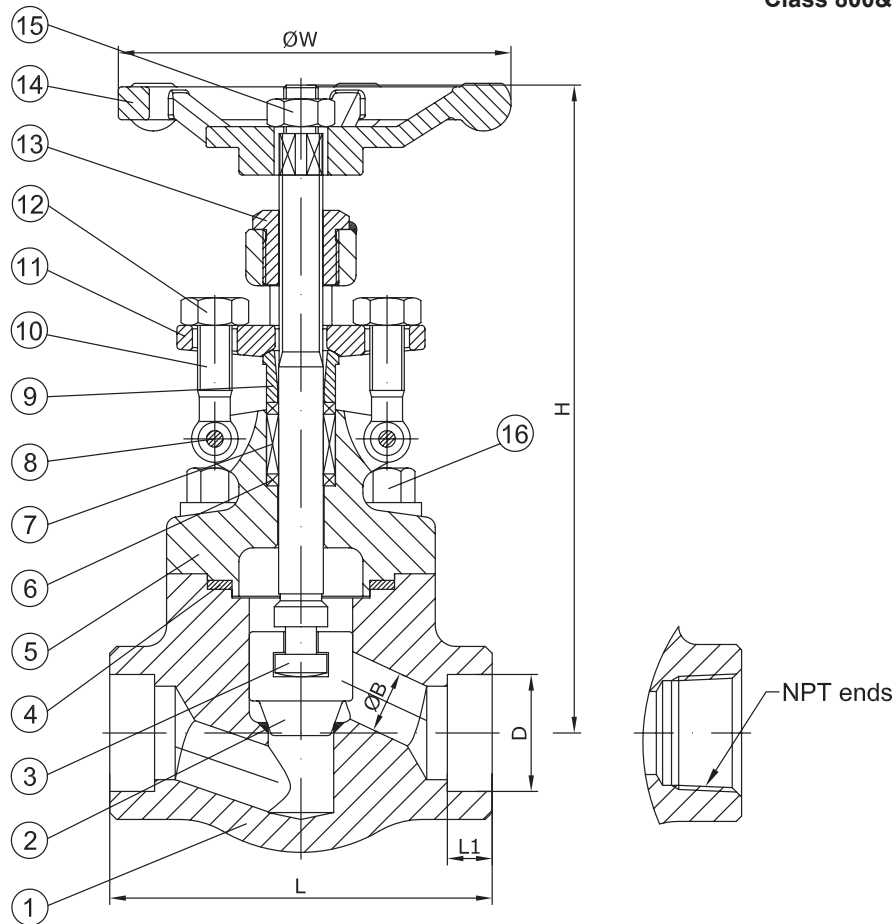
Fluids compatible with materials of construction. Questions referring to chemical resistance, please consult us
 Pressure / Temperature Rating to ASME B16.34. See section "Engineering & Performance Data"
 For products compliant with Directive 2014/68/EU, observe also limits acc. to Annex II tables 6 & 8 (gases & liquids group 1*) and tables 7 & 9 (gases & liquids group 2*) up to category III
 *Classification of fluids (group 1 or 2) acc. to Directive 2014/68/EU, Article 13

Options

Diverse body materials and trim combinations, different valve connections, Y-Pattern, regulating plug, extended bonnet, bellows seal, pressure seal, welded bonnet, different actuation, limit switches... Please consult us

Main Parts and Materials

SERIES 89 ANSI RANGE
Class 800&1500



N°		PART		MATERIAL								
				A105N			A350 LF2		A182 F11/F22	A182 F304/F304L	A182 F316/F316L	A182 F51/F53
				Trim 1 (89A01)	Trim 5 (89A05)	Trim 8 (89A08)	Trim 2 (89A12)	Trim 10 (89A1D)	Trim 5 (89B75/89B65)	(89I10/80I90)	(89I30/89J10)	(89K30/89K40)
1	Body	A105N+ 13Cr	A105N+ HF	A105N+ HF	A350 LF2 +SS304	A350 LF2 +SS316	A182 F11/ F22+HF	A182 F304(L)	A182 F316(L)	A182 F51/F53		
2	Disc	A182 F6a	A182 F6a+HF	A182 F6a	A182 F304	A182 F316	A182 F6a+HF	A182 F304(L)	A182 F316(L)	A182 F51/F53		
3	Stem	A276 410			A276 304	A276 316	A276 410	A276 304(L)	A276 316(L)	A182 F51/F53		
4	Bonnet Gasket	SS304+Graphite			SS304+ Graphite	SS316+ Graphite	SS304+ Graphite	SS304+ Graphite	SS316+ Graphite	SS316+ Graphite		
5	Bonnet	A105N			A350 LF2		A182 F11/F22	A182 F304(L)	A182 F316(L)	A182 F51/F53		
6	Packing	SS304+Graphite			SS304+Graphite		SS304+ Graphite	SS304+ Graphite	SS316+ Graphite	SS316+ Graphite		
7	Packing	Flexible Graphite			Flexible Graphite		Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite		
8	Eyebolt Pin	A276 410			A276 410		A276 410	A276 304	A276 304	A276 304		
9	Packing Gland	A276 420			A276 304		A276 420	A276 304(L)	A276 316(L)	A182 F51/F53		
10	Eyebolt	A193 B7			A320 L7		A193 B16	A193 B8(M)	A193 B8M	A193 B8M		
11	Gland Flange	A105N			A350 LF2		A182 F11/F22	A182 F304(L)	A182 F316(L)	A182 F51/F53		
12	Eyebolt Nut	A194 2H			A194 4		A194 4	A194 8(M)	A194 8M	A194 8M		
13	Stem Nut	A276 410			A276 410		A276 410	A276 410	A276 410	A276 410		
14	Handwheel	A197			A197		A197	A197	A197	A197		
15	Handwheel Nut	AISI 1035			AISI 1035		AISI 1035	AISI 1035	AISI 1035	AISI 1035		
16	Bonnet Bolt	A193 B7			A320 L7		A193 B16	A193 B8(M)	A193 B8M	A193 B8M		

HF = Hard faced

Main Valve Parameters
Class 800

Nominal Size			inch DN	3/8” 10	1/2” 15	3/4” 20	1” 25	1 1/4” 32	1 1/2” 40	2” 50
End connection	Threaded	NPT/ BSP/BSPT	L	79	79	92	111	120	152	172
			ØB	8	10,5	13,5	18	23	29	36,5
	Socket weld	SW	L	79	79	92	111	120	120	140
			L1	9,6	9,6	12,7	12,7	12,7	12,7	16
			ØB	8	10,5	13,5	18	23	29	36,5
			ØD	17,6	21,8	27,1	33,8	42,6	48,7	61,2
Top works/ Operation	Handwheel	H (open)	162	162	165	193	224	260	300	
		H (close)	153	153	154	182	213	247	287	
		ØW	80	80	80	105	130	130	155	
Kvs-value				-	1,7	3,1	4,9	7,5	12,2	18
Approx. Weight Threaded/SW				2	2	2,2	3	5,2	6,3	11

Dimensions in mm subject to manufacturing tolerance / Kvs-values in m³/h / Weights in kg

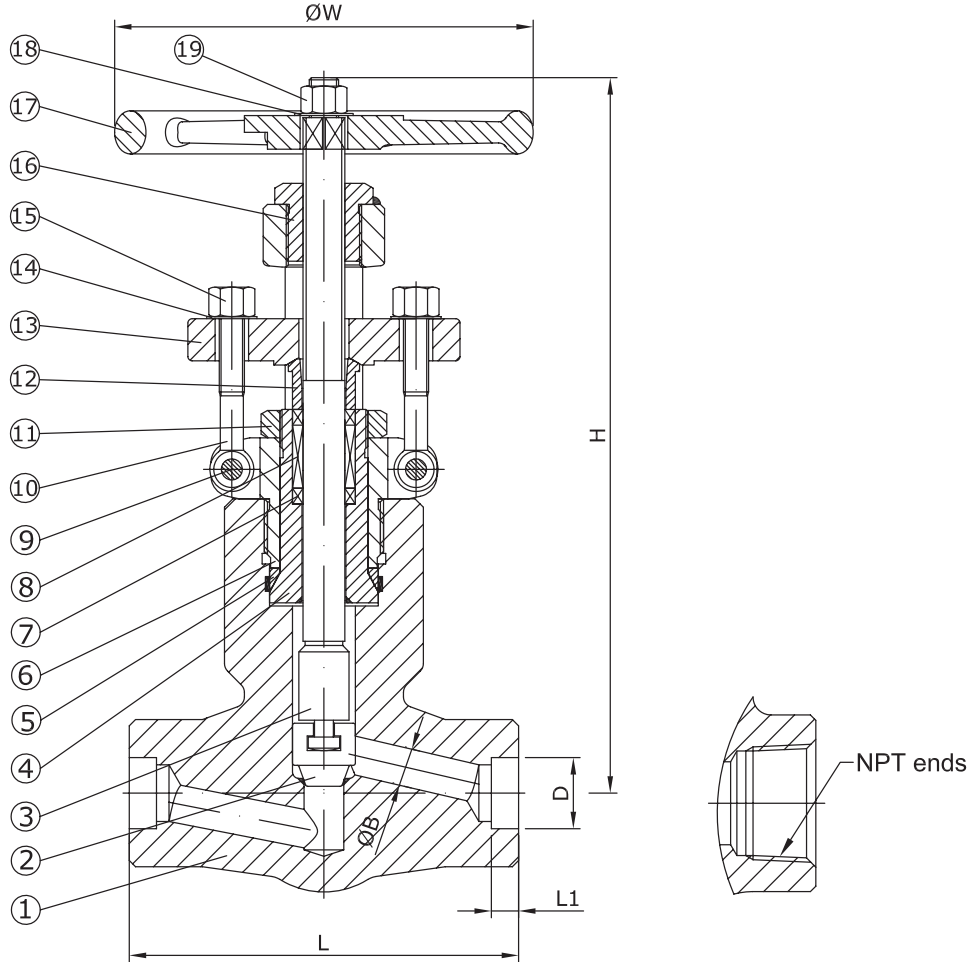
Class 1500

Nominal Size			inch	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
			DN	10	15	20	25	32	40	50
End connection	Threaded	NPT/ BSP/BSPT	L	92	111	111	120	120	140	178
			ØB	8	10,5	13,5	18	23	29	36,5
	Socket weld	SW	L	92	111	111	120	120	140	178
			L1	9,6	9,6	12,7	12,7	12,7	12,7	16
			ØB	8	10,5	13,5	18	23	29	36,5
			ØD	17,6	21,8	27,1	33,8	42,6	48,7	61,2
Top works/ Operation	Handwheel	H (open)	165	193	193	224	260	300	355	
		H (close)	154	182	182	213	247	287	340	
		ØW	105	105	105	130	130	155	200	
Kvs-value				-	1,7	3,1	4,9	7,5	12,2	18
Approx. Weight Threaded/SW				3,5	3,5	3,8	5,5	8	11	18,5

Dimensions in mm subject to manufacturing tolerance / Kvs-values in m³/h / Weights in kg

Main Parts and Materials

SERIES 87 ANSI RANGE
Class 2500



N°		MATERIAL								
		A105N			A350 LF2		A182 F11/F22	A182 F304/F304L	A182 F316/F316L	A182 F51/F53
		Trim 1 (87A01)	Trim 5 (87A05)	Trim 8 (87A08)	Trim 2 (87A12)	Trim 10 (87A1D)	Trim 5 (87B75/87B65)	(87I10/80I90)	(87I30/87J10)	(87K30/87K40)
1	Body	A105N+13Cr	A105N+HF	A105N+HF	A350 LF2+SS304	A350 LF2+SS316	A182 F11/F22+HF	A182 F304(L)	A182 F316(L)	A182 F51/F53
2	Disc	A182 F6a	A182 F6a+HF	A182 F6a	A182 F304	A182 F316	A182 F6a+HF	A182 F304(L)	A182 F316(L)	A182 F51/F53
3	Stem	A276 410			A276 304	A276 316	A276 410	A276 304(L)	A276 316(L)	A182 F51/F53
4	Seal Nut	A276 420			A276 304	A276 316	A276 420	A276 304(L)	A276 316(L)	A182 F51/F53
5	Gasket	A276 304			A276 304		A276 304	A276 304(L)	A276 316(L)	A182 F51/F53
6	Bonnet	A105N			A350 LF2		A182 F11/F22	A182 F304(L)	A182 F316(L)	A182 F51/F53
7	Packing	SS304+Graphite			SS304+Graphite	SS316+Graphite	SS304+Graphite	SS304+Graphite	SS316+Graphite	SS316+Graphite
8	Packing	Flexible Graphite			Flexible Graphite		Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
9	Eyebolt Pin	A276 410			A276 410		A276 410	A276 304	A276 304	A276 304
10	Eyebolt	A193 B7			A320 L7		A193 B16	A193 B8(M)	A193 B8M	A193 B8M
11	Lock Nut	Carbon Steel			Carbon Steel		Carbon Steel	St.Steel	St.Steel	St.Steel
12	Packing Gland	A276 420			A276 304	A276 316	A276 420	A276 304(L)	A276 316(L)	A182 F51/F53
13	Gland Flange	A105N			A350 LF2		A182 F11/F22	A182 F304(L)	A182 F316(L)	A182 F51/F53
14	Washer	Carbon Steel			Carbon Steel		Carbon Steel	St.Steel	St.Steel	St.Steel
15	Eyebolt Nut	A194 2H			A194 4		A194 4	A194 8(M)	A194 8M	A194 8M
16	Stem Nut	A276 410			A276 410		A276 410	A276 410	A276 410	A276 410
17	Handwheel	A197			A197		A197	A197	A197	A197
18	Gakset	Carbon Steel			Carbon Steel		Carbon Steel	St.Steel	St.Steel	St.Steel
19	Handwheel Nut	AISI 1035			AISI 1035		AISI 1035	AISI 1035	AISI 1035	AISI 1035

HF = Hard faced

Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

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

Main Valve Parameters
Class 2500

Nominal Size			inch DN	3/8” 10	1/2” 15	3/4” 20	1” 25	1 1/4” 32	1 1/2” 40	2” 50
End connection	Threaded	NPT/ BSP/BSPT	L	186	186	186	186	230	230	275
			ØB	8	10,5	13,5	18	23	29	36,5
	Socket weld	SW	L	186	186	186	186	230	230	275
			L1	9,6	9,6	12,7	12,7	12,7	12,7	16
			ØB	8	10,5	13,5	18	23	29	36,5
			ØD	17,6	21,8	27,1	33,8	42,6	48,7	61,2
	Top works/ Operation	Handwheel	H (open)	317	317	317	321	467	480	540
H (close)			300	300	300	300	445	458	515	
ØW			200	200	200	200	280	300	320	
Kvs-value				-	1,7	3,1	4,9	7,5	12,2	18
Approx. Weight Threaded/SW				12	12	12	12	28,4	30	50

Dimensions in mm subject to manufacturing tolerance / Kvs-values in m³/h / Weights in kg