Forged Steel Valves

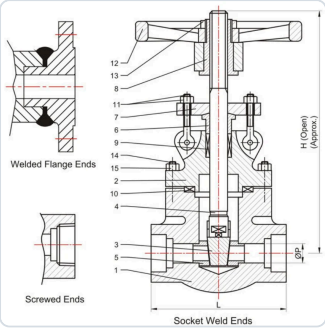
SMALL-BORE, HIGH-PRESSURE

Forged steel valves have bodies made from forgings rather than castings. Forging produces a dense grain structure, and these valves are widely used in small-bore, high-pressure piping. UTC VALVES manufactures and supplies forged steel gate, globe and check valves for instrument, vent, drain and process lines.

Forged gate valve



Body material	A105 / F11 / F22 / F304 / F316 / F51 / LF2
Pressure rating	Class 800, 1500, 2500
Design standard	API 602 / ASME B16.34
Inspection & testing	API 598 / BS EN 12266-1
End connection	Screwed (ASME B1.20.1) / socket weld (ASME B16.11) / flanged (ASME B16.5)
Size range	½" to 2"
Options	Full or reduced port; integral or welded flange; Stellite 6 overlay on wedge and seat on request



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Parameter	Class	½"	¾"	1"	1¼"	1½"	2"
Face to face (L)	**800#**	87	92	106	127	127	135
	1500#	92	106	127	135	135	–
	2500#	106	127	135	–	–	–
Port dia. (ØP)	**800#**	9	12	17.5	22.5	29.5	35
	1500#	9	12	17.5	22.5	29.5	–
	2500#	9	12	17.5	–	–	–
Height (H) approx.	**800#**	151	157	186	237	237	278
	1500#	157	186	237	278	278	–
	2500#	186	237	278	–	–	–
Weight (kg) approx.	**800#**	1.4	1.6	2.8	5.7	5.8	10.5
	1500#	1.8	3	6.3	6.5	11.5	–
	2500#	3.3	6.8	12.6	–	–	–

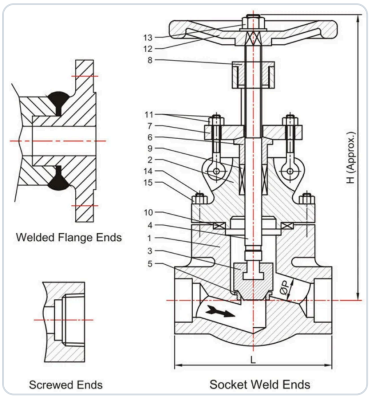
Material list

No.	Part	Material (ASTM specification)
1	Body	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
2	Bonnet	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
3	Wedge*	SS 410 / SS 316 / SS 304
4	Stem	SS 410 / SS 316 / SS 304
5	Seat ring*	F6a / A 105 / LF2 / SS 316 / SS 304
6	Gland	SS 410 / SS 316 / SS 304
7	Gland flange	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
8	Yoke sleeve	ASTM A 439 Gr. D2 / Al. Bronze
9	Gland packing	PTFE / Grafoil / Graphited Asbestos
10	Bonnet gasket	Spiral Wound SS 304 / 316 with Asbestos / Teflon or Grafoil
11	Gland eye bolt & nut	SS 410 / SS 304
12	Handwheel	Carbon Steel / M. I.
13	Handwheel nut	Carbon Steel
14	Stud	B7 / B8 / B8M / L7
15	Nut	2H / 8 / 8M / 7

Forged globe valve



Body material	A105 / F11 / F22 / F304 / F316 / F51 / LF2
Pressure rating	Class 800, 1500, 2500
Design standard	API 602 / ASME B16.34
Inspection & testing	API 598 / BS EN 12266-1
End connection	Screwed / socket weld / flanged
Size range	½" to 2"
Options	Full or reduced port; integral or welded flange; Y-type design



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Dimensions & technical details (mm)

Parameter	Class	½"	¾"	1"	1¼"	1½"	2"
Face to face (L)	**800#**	87	92	106	127	127	135
	1500#	92	106	127	135	135	–
	2500#	106	127	135	–	–	–
Port dia. (ØP)	**800#**	9.5	12.7	17.5	23.8	28.6	29.5
	1500#	8	9	14	20	25	–
	2500#	7	12.5	15.5	–	–	–
Height (H) approx.	**800#**	170	175	190	250	250	285
	1500#	175	190	250	250	255	–
	2500#	190	250	255	–	–	–
Weight (kg) approx.	**800#**	2	3	4	8	8	11
	1500#	3	4	8	8	11	–
	2500#	4.5	7.7	9	–	–	–

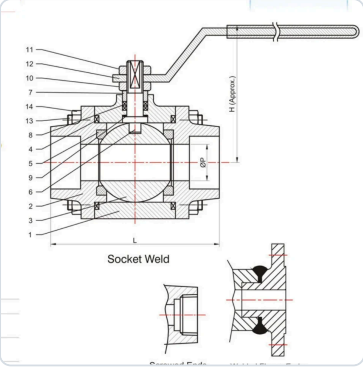
Material list

No.	Part	Material (ASTM specification)
1	Body	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
2	Bonnet	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
3	Disc*	F6a / A 105 / LF2 / SS 316 / SS 304
4	Stem	SS 410 / SS 316 / SS 304
5	Seat ring*	F6a / A 105 / LF2 / SS 316 / SS 304
6	Gland	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
7	Gland flange	ASTM A 439 Gr. D2 / Al. Bronze
8	Stem nut	PTFE / Grafoil / Graphited Asbestos
9	Gland packing	Spiral Wound SS 304 / 316 with Asbestos / Teflon or Grafoil
10	Bonnet gasket	SS 410 / SS 304
11	Gland eye bolt & nut	Carbon Steel
12	Handwheel	Carbon Steel
13	Handwheel nut	B7 / B8 / B8M / L7
14	Stud	2H / 8 / 8M / 7
15	Nut	–

Forged ball valve



Body material	A105 / F11 / F22 / F304 / F316 / F51 / LF2
Pressure rating	Class 800, 1500, 2500
Design standard	BS 5352 / API 602 / API 607
Inspection & testing	API 598 / BS EN 12266-1
End connection	Screwed / socket weld / flanged
Size range	½" to 2"
Options	Two or three piece; fire-safe or non-fire-safe; full or reduced port



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Parameter	Class	½"	¾"	1"	1¼"	1½"	2"
Face to face (L)	**800#**	75	80	100	110	120	140
	1500#	100	125	140	170	170	200
	2500#	100	125	140	–	–	–
Port dia. (ØB)	**800#**	11	14	20	25.4	32	38
	1500#	11.1	15.5	21	34	34	43
	2500#	11.1	15.5	21	–	–	–
Height (H) approx.	**800#**	73	76	108	111	125	130
	1500#	100	107	121	154	154	162
	2500#	100	107	105	–	–	–
Weight (kg) approx.	**800#**	1	1.3	2.4	3.1	4.5	6.8
	1500#	3	4.8	7.7	14	14	19.3
	2500#	3	4.8	7.7	–	–	–

Material list

No.	Part	Material (ASTM specification)
1	Body	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
2	Side piece	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
3	Ball	CF8 / CF8M / F304 / F316 / F6a
4	Body seal	PTFE / Graphoil / Spiral Wound SS 316 with Graphoil
5	Seats	PTFE / Graphite Filled PTFE
6	Stem	SS 410 / SS 304 / SS 316
7	Gland bush	SS 410 / SS 316 / SS 304
8	Gland packing	PTFE / Grafoil / Graphited Asbestos
9	Stem packing	Graphoil / Graphite
10	Gland nut	Stainless Steel
11	Stem nut	Stainless Steel
12	Lever	Carbon Steel
13	Stud	B7 / B8 / B8M / L7
14	Nut	2H / 8 / 8M / 7

UTC VALVES

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Share the valve type, size, pressure class, materials, end connections, quantity and any project specification or drawing. Our team reviews every enquiry and responds with availability and a quotation.

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