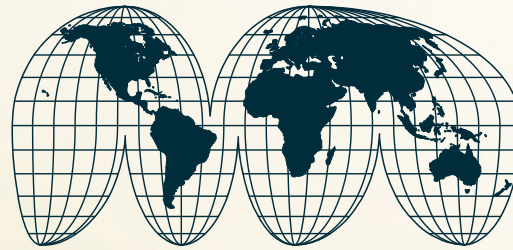


Smart Solutions. Powerful Products.



Cooper[®] Alloy Valves

Cast & Forged Stainless and Alloy
Gate, Globe, Check and Ball Valves



Manufacturer of Quality Valve Products Around the Globe

At Forum™ Energy Technologies we are committed to improving our clients' operational and financial performance by supplying the most comprehensive range of valve products in the industry through our family of trusted valve brands.



Engineering Expertise

Forum™ utilizes the latest state of the art engineering software to provide custom design services for any application. Finite element analysis is just one of many Design Verification Tools FET uses for designing valves to specific customer requirements.



CAD & NC Capabilities

With FET's fast and efficient workflow, CAD drawings can be released to the network for manufacturing and purchasing. The result is faster deliveries.



Accurate Inventories

Daily cycle counting & order picking using wireless barcode guns and automated part delivery systems results in more accurate inventories and faster product delivery.



Quality Control

All FET Companies manufacture quality products designed and tested to meet the standards of Qualifying Authorities around the world. Advanced engineering and our Quality Management System assure that our valve products continue to exceed your expectations for performance.



Customer Service

Forum™'s Customer Service Department is fully staffed with trained customer service representatives ready to help you with your ordering information, technical specifications and logistics.



Cooper® Cast & Forged Stainless, Nickel & Exotic Alloy Gate, Globe, Check & Ball Valves

Specify Cooper® Valves For All Your Extreme Service Applications

The attention to detail we put into our products ensures a higher standard of dependability which allows Cooper® valves to be installed in a wide range of extreme service applications including chemical & petrochemical, refining, mining, power and downstream oil & gas. Cooper® maintains an inventory that is ever changing based upon market conditions to meet your quick delivery or inventory needs.

Features

- Large Offering of Nickel Alloy Materials
- Wide Range of Severe Service Applications
- Material Test Reports
- Traceability & Serial Numbers
- API 591 Compliant
- API 598 Tested
- API 624 & API 641
- Extensive Engineering Capabilities
- Excellent Customer Service
- Extended Warranty Available
- Quick Deliveries & Stock
- Recognized & Proven Name for Highest Quality Industry Products Available
- Extensive NDE Availability
- Tested for Low Fugitive Emissions
- International Organization for Standardization (ISO 9001)

Typical Applications

- Corrosive & Erosive Service
- High Pressure & High Temperature
- Isolation & Manual Control
- Low Emission
- Cryogenic, Toxic & Lethal Service
- Chlorine, Oxygen & Phosgene Service
- HF and H2SO4 Alkylation
- Hydrogen Service
- Sour Gas
- Specialty Chemicals
- High Pressure Steam & Boiler Feedwater



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Specifying Cooper® Gate, Globe Check & Ball Valve Figure Numbers

How to Order

Example: GA030RF-C-162 / 00 - F H SP This number represents a special order, full port, class 300, gate valve, raised face flanged, cast A494-CW6MC Inconel® 625 body and trim with handwheel or lever.

GA	030	RF	-	C	-	162	/	00	-	F	H	SP
Valve Type	Pressure Class	End Connection		Process		Body Material		Trim Material		Port	Operation Type	Special Code
GA Gate	015 150	RF Raised Face Flanged		C Cast		See Body Material Codes Chart Below		See Trim Material Codes Chart Below		F Full	B Bevel Gear	CR Cryogenic
GL Globe	030 300	FF Flat Faced Flange		F Forged						R Reduced	C Chain Wheel	EX Stem Extension
SC Swing Check	060 600	RJ Ring Type Joint									G Bare Stem	BS Bellow Seal
PC Piston Check	090 900	BW Butt Weld									H Handwheel/Lever	WB Welded Bonnet
2B 2-Piece Ball	150 1500	SE Screwed Ends									J Mounting Pad Only	PS Pressure Seal Bonnet
3B 3-Piece Ball	169 1690	SW Socket Weld									O Other	NC NACE
TB Trunnion Ball	250 2500	TS Mixed Thrd. x SW									P Pneumatic Operation	MV Modified Valve
	268 2680										V Oval Handwheel	SP Special
	450 4500										W Worm Gear	
											X No Operator (Check)	

Body Material Codes

Code	Body Material	Cast	Forged
CAS	Carbon Steel	A216 WCB	A105-A105N
LCS	LT Carbon Steel	A352 LCC	A350 LF2
1CR	1.25 Chrome	A217 WC6	A182 F11
2CR	2.25 Chrome	A217 WC9	A182 F22
5CR	5 Chrome	A217 C5	A182 F5
9CR	9 Chrome	A217 C12	A182 F9
9CV	C12A	A217 C12A	A182 F91
304	304 SS	A351 CF8	A182 F304
34L	304L SS	A351 CF3	A182 F304L
316	316 SS	A351 CF8M	A182 F316
36L	316L SS	A351 CF3M	A182 F316L
317	317 SS	A351 CG8M	A182 F317
37L	317L SS	A351 CG3M	A182 F317L
347	347 SS	A351 CF8C	A182 F347
A20	Alloy 20	A351 CN7M	Alloy 20
M40	Monel® 400	A494 M35-1	Monel® 400
N20	Nickel 200	A494 CZ100	Nickel 200
I60	Inconel® 600	A494 CY10 CL.1	Inconel® 600
I62	Inconel® 625	A494 CW6MC	Inconel® 625
I80	Incoloy® 800	A351 CT15C	Incoloy® 800
I82	Incoloy® 825	A494 Cu5MCuC	Incoloy® 825
HB1	Hastelloy® B	A494 N 12MV	—
HC1	Hastelloy® C	A494 CW12MW	Hastelloy® C
254	Avesta 254 SMO	A351 CK3MCuN	—
AL6	Alloy AL 6XN	A744/A351 CN3MN	—

Code	Body Material	Cast	Forged
D1A	Duplex Gr. 1A	A890 CD4MCu	—
D1B	Duplex Gr. 1B	A890 CD4 MCuN	—
D4A	Duplex Gr. 4A	A890/A995 CD3MN	A182 F51
D5A	Duplex Gr. 5A	A890 CL3MN	A182 F53
D6A	Duplex Gr. 6A	A890 CD3MWCuN	—
M20	Modified Alloy 20	A990 CN3MCu	—
TR2	Titanium Gr. 2	B367 Gr. 2	—
TR3	Titanium Gr. 3	B367 Gr. 3	—
T7B	Titanium Gr. 7B	B367 Gr. 7B	—
T12	Titanium Gr. 12	UNS R53400	—
Z02	Zirconium Gr. 702C	B752 Gr. 702C	—
Z05	Zirconium Gr. 705C	B752 Gr. 705C	—

Trim Material Codes

Code	Trim Material	Code	Trim Material
00	Same as Body	14	API Trim 14
02	API Trim 2	15	API Trim 15
05	API Trim 5	16	API Trim 16
08	API Trim 8	17	API Trim 17
09	API Trim 9	18	API Trim 18
10	API Trim 10	HS	Half Stellite®
11	API Trim 11	FS	Full Stellite®
12	API Trim 12	SP	Special
13	API Trim 13		

Product Range

Valve Type	Size	Pressure Class	End Connections	Material Notes
Forged Gate, Globe, Check	.5" - 2"	150, 300, 600, 800, 1500 & 2500	RF, NPT & SW	Alloys: F304-HASTELLOY C
Forged Y-Pattern Globe	.5" - 2"	1690, 2680 & 4500	SW & BW	F22, F91
Cast Gate, Globe, Check	2" - 24"	150 - 600	RF, BW & RTJ	Alloys: WC6-CW12MW
Cast Gate, Globe, Check	2" - 16"	900 & 1500	RF, BW & RTJ	Alloys: WC6-CW12MW
Cast Gate, Globe, Check	2" - 16" PSB	1500 - 2500	BW & RTJ	WC6, WC9, C12, C12A
2-Pc. Soft Seated Floating Ball	.5" - 10"	150 & 300	RF, BW & RTJ	Alloys: WC6-CW12MW
3-Pc. Soft Seated Floating Ball	.5" - 2"	800, 1500 & 2500	NPT, SW & BW	Alloys: WC6-CW12MW
Soft Seated Trunnion Ball	2" - 48"	150, 300, 600, 900, 1500 & 2500	RF, BW & RTJ	Alloys: WC6-CW12MW

Certification



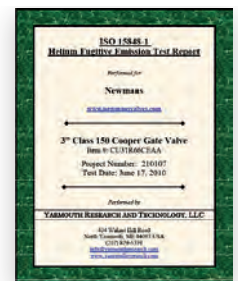
ISO 9001:2008



CE/PED



CRN



ISO 15848



Cooper® Cast & Forged Flanged Full Port Gate Valves

Features & Parts

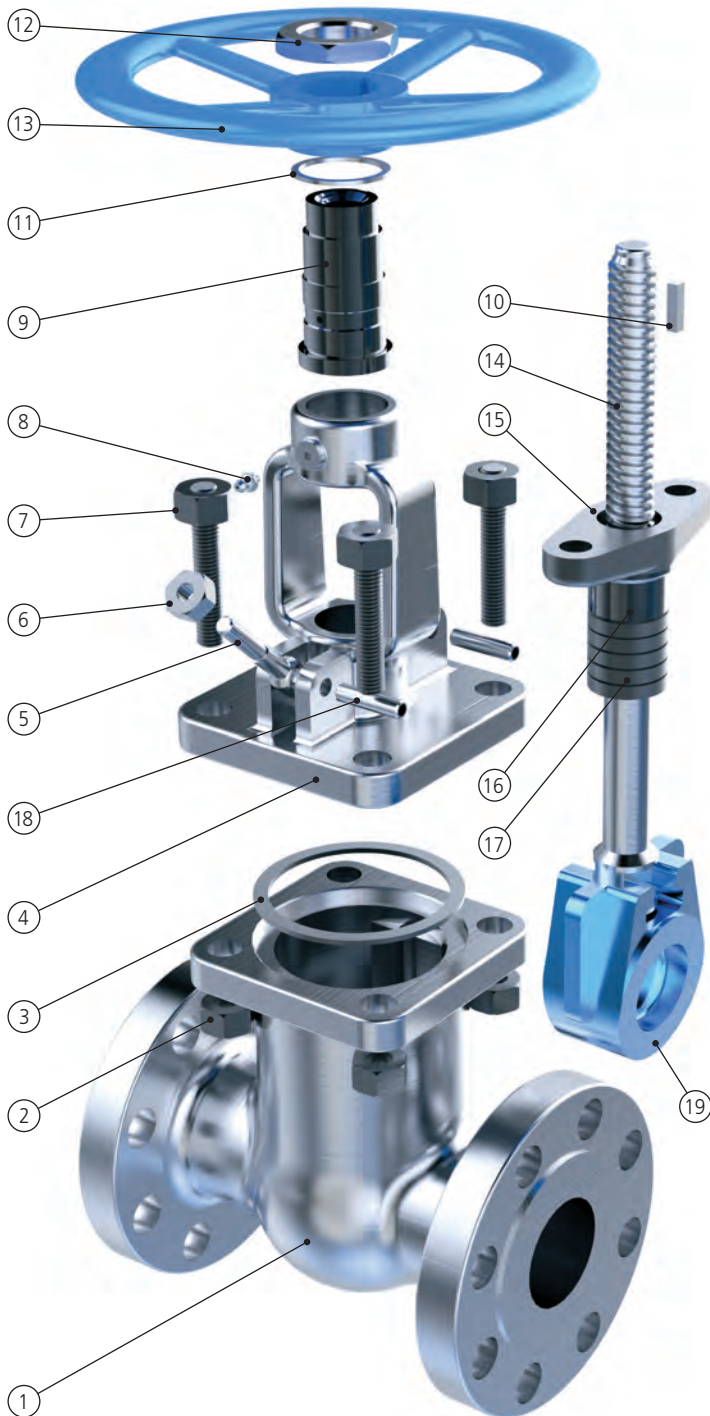
Cooper® gate valves are multi-turn valves typically used as a stop valve or isolation valve in either fully open or fully closed positions. Our gate valve design utilizes an outside screw and yoke (OS&Y) which is advantageous in that the threads are outside the fluid resulting in minimized thread damage.

Features

- Cast sizes: 2" - 42"
Forged sizes: 1/2" - 2"
- Pressure class:
150 - 1500
- End connections:
RFF, RTJ & BW

Specifications

- Flange dimensions per ASME B16.5
Face to face dimensions per ASME B16.10
- Testing in accordance with API 598 and
API 622 compliant low emission packing
- Cast: ASME B16.34, API 600 & API 603
Forged: ASME B16.34 & API 602

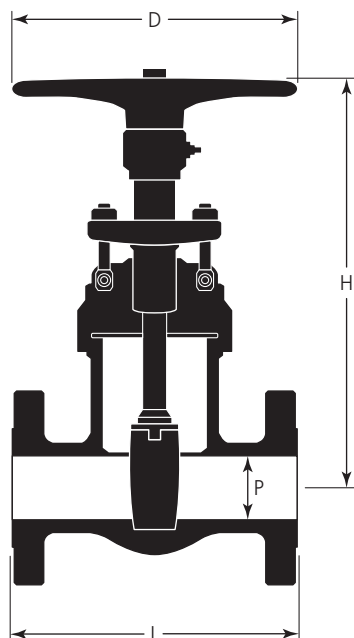


Parts

- 1. Body** of nickel alloy with integral seat provides optimum strength & corrosion resistance.
 - 2. & 7. Bonnet Bolting** bolts & nuts secure the bonnet to the body.
 - 3. Bonnet Gasket** creates a leakproof seal between bonnet & body.
 - 4. Bonnet & Yoke** assemblies are built to the same standards as the bodies. Larger sizes utilize a multi-piece bonnet design and the bonnet has integral back seat.
 - 5. & 6. Gland Bolts & Nuts** allow easy adjustment for packing compression.
 - 8. Grease Fitting** allows easy stem lubrication.
 - 9. Stem Nut** provides a precision guide for proper stem alignment.
 - 10. Key** helps prevent the handwheel from slipping.
 - 11. Thrust Bearing** prevents metal to metal wear & galling.
 - 12. Handwheel Nut** secures the handwheel to bonnet assembly.
 - 13. Handwheel** cycles the valve.
 - 14. Stem** is precision machined & inserts into the horizontal channel of the disc.
 - 15. Gland Flange** applies pressure to the gland for accurate packing adjustments.
 - 16. Gland** compresses the packing to create a stem seal above the back seat between the bonnet & stem (same as body material).
 - 17. Packing** creates a seal above the back seat between the bonnet & stem.
 - 18. Gland Bolt Pin** secures the gland bolts to the yoke & bonnet.
 - 19. Wedge** is machined to the tightest tolerances to ensure trouble free shutoff & cycling.
- Integral Back Seat** when engaged with the stem head, provides a stable shutoff to the stuffing box which isolates the packing from flow exposure (not shown).

Cooper® Cast & Forged Flanged Full Port Gate Valves

Cast Dimensional Data (in., mm)



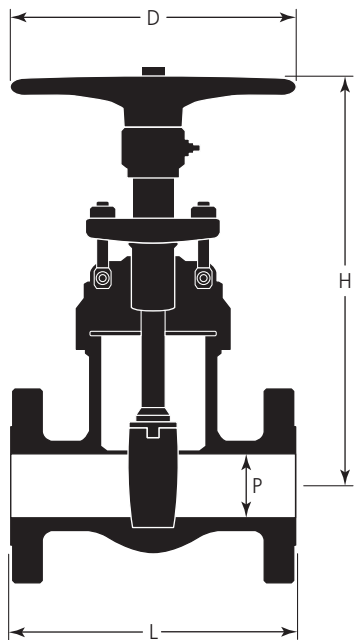
Model GA015, Class 150

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	8	15.31	7.00	2	37	50	203	389	178	51	17
2.5	8	17.28	7.50	2.5	51	65	203	439	191	63.5	23
3	10	19.69	8.00	3	64	80	254	500	203	76	29
4	10	23.43	9.00	4	104	100	254	595	229	102	47
6	14	30.59	10.50	6	176	150	356	777	267	152	80
8	14	38.39	11.50	8	284	200	356	975	292	203	129
10	16	45.67	13.00	10	423	250	406	1160	330	254	192
12	18	54.72	14.00	12	633	300	457	1390	356	305	287
14	22	61.22	15.00	14	904	350	559	1555	381	356	410
16	24	71.30	16.00	16	1259	400	610	1811	406	406	571
18	24	82.80	17.00	18	1587	450	610	2103	432	457	720
20	24	90.55	18.00	20	2579	500	610	2300	457	508	1170
24	24	102.72	20.00	24	3232	600	610	2609	508	610	1466
26	24	109.45	22.00	26	3746	650	610	2780	559	660	1699
28	24	130.98	24.00	28	4257	700	610	3327	610	711	1931
30	24	141.97	24.00	30	5247	750	610	3606	610	762	2380
32	24	145.98	28.00	32	5490	800	610	3708	711	813	2490
36	24	154.49	28.00	36	7937	900	610	3924	711	914	3600
40	24	168.50	30.00	40	10,097	1000	610	4280	762	1016	4580
42	32	175.39	31.00	42	10,384	1050	813	4455	787	1067	4710

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Gate Valves

Cast Dimensional Data (in., mm)



Model GA030, Class 300

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	8	16.93	8.50	2	66	50	203	430	216	51	30
2.5	10	19.88	9.50	2.5	99	65	254	505	241	63.5	45
3	10	20.87	11.12	3	126	80	254	530	282	76	57
4	10	24.80	12.00	4	194	100	254	630	305	102	88
6	14	31.50	15.88	6	324	150	356	800	403	152	147
8	16	39.69	16.50	8	483	200	406	1008	419	203	219
10	18	48.82	18.00	10	811	250	457	1240	457	254	368
12	20	57.87	19.75	12	1151	300	508	1470	502	305	522
14	24	64.76	30.00	14	1530	350	610	1645	762	356	694
16	24	72.48	33.00	16	2381	400	610	1841	838	406	1080
18	24	77.13	36.00	18	2723	450	610	1959	914	457	1235
20	24	86.38	39.00	20	3649	500	610	2194	991	508	1655
24	24	102.28	45.00	24	5115	600	610	2598	1143	610	2320
26	24	110.24	49.00	26	6834	650	610	2800	1245	660	3100
28	24	122.05	53.00	28	8583	700	610	3100	1346	711	3893
30	32	130.71	55.00	30	10,869	750	813	3320	1397	762	4930
32	32	140.16	60.00	32	11,530	800	813	3560	1524	813	5230
36	32	153.94	68.00	36	15,179	900	813	3910	1727	914	6885

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Gate Valves

Cast Dimensional Data (in., mm)

Model GA060, Class 600

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	10	17.91	11.50	2	99	50	254	455	292	51	45
2.5	10	23.14	13.00	2.5	121	65	254	588	330	63.5	55
3	10	21.65	14.00	3	168	80	254	550	356	76	76
4	14	27.17	17.00	4	280	100	356	690	432	102	127
6	18	35.83	22.00	6	611	150	457	910	559	152	277
8	20	41.93	26.00	8	1069	200	508	1065	660	203	485
10	24	49.49	31.00	10	1662	250	610	1257	787	254	754
12	24	57.80	33.00	12	2064	300	610	1468	838	305	936
14	24	63.90	35.00	14	2901	350	610	1623	889	356	1316
16	24	71.50	39.00	16	3686	400	610	1816	991	406	1672
18	24	88.98	43.00	18	4564	450	610	2260	1092	457	2070
20	24	106.50	47.00	20	5302	500	610	2705	1194	508	2405
24	24	110.63	55.00	24	10031	600	610	2810	1397	610	4550

Model GA090, Class 900

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	12	24.41	14.50	2	209	50	305	620	368	51	95
2.5	14	27.76	16.50	2.5	238	65	356	705	419	63.5	108
3	14	29.02	15.00	3	276	80	356	737	381	76	125
4	16	32.48	18.00	4	428	100	406	825	457	102	194
6	20	41.93	24.00	6	833	150	508	1065	610	152	378
8	24	47.99	29.00	8	1400	200	610	1219	737	203	635
10	24	52.95	33.00	10	1984	250	610	1345	838	254	900
12	24	72.44	38.00	12	3417	300	610	1840	965	305	1550

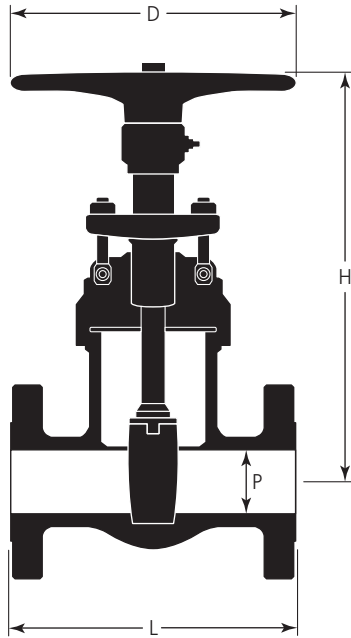
Model GA150, Class 1500

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	14	27.36	14.50	2	209	50	356	695	368	51	95
2.5	16	27.76	16.50	2.5	282	65	406	705	419	63.5	128
3	16	30.31	18.50	3	399	80	406	770	470	76	181
4	20	34.33	21.50	4	606	100	508	872	546	102	275
6	24	42.99	27.75	6	1382	150	610	1092	705	152	627
8	24	55.12	32.75	8	2205	200	610	1400	832	203	1000
10	24	62.99	39.00	10	4850	250	610	1600	991	254	2200
12	24	72.44	44.50	12	7275	300	610	1840	1130	305	3300



Cooper® Cast & Forged Flanged Full Port Gate Valves

Forged Dimensional Data (in., mm)



Model GA015, Class 150

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	3.54	7.20	4.25	0.55	7.0	15	90	183	108	14.0	3.2
.75	3.54	7.52	4.63	0.71	9.0	20	90	191	118	18.0	4.1
1	3.94	8.50	5.00	0.94	12.8	25	100	216	127	23.9	5.8
1.5	5.51	10.75	6.50	1.44	22.0	40	140	273	165	36.6	10.0
2	5.51	12.36	7.00	1.89	28.8	50	140	314	178	48.0	13.1

Model GA030, Class 300

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	3.54	7.60	5.50	0.55	9.9	15	90	193	140	14.0	4.5
.75	3.94	7.48	6.00	0.71	13.2	20	100	190	152	18.0	6.0
1	4.72	8.50	6.50	0.94	16.7	25	120	216	165	23.9	7.6
1.5	5.51	10.75	7.50	1.44	32.6	40	140	273	191	36.6	14.8
2	7.87	12.36	8.50	1.89	41.4	50	200	314	216	48.0	18.8

Model GA060, Class 600

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	3.54	6.93	6.50	0.55	8.6	15	90	176	165	14.0	3.9
.75	3.94	8.11	7.50	0.71	15.4	20	100	206	191	18.0	7.0
1	4.72	8.50	8.50	0.94	22.7	25	120	216	216	23.9	10.3
1.5	5.51	10.04	9.50	1.34	36.3	40	140	255	241	34.0	16.5
2	7.87	13.15	11.50	1.89	55.0	50	200	334	292	48.0	24.9

Model GA150, Class 1500

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	4.72	8.35	8.50	0.45	21.3	15	120	212	216	11.4	9.7
.75	6.89	10.08	9.00	0.59	34.1	20	175	256	229	15.0	15.5
1	6.89	10.71	10.00	0.77	38.5	25	175	272	254	19.6	17.5
1.5	10.24	16.18	12.00	1.26	84.7	40	260	411	305	32.0	38.4
2	10.24	16.61	14.50	1.57	123.2	50	260	422	368	39.9	55.9

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Forged Threaded Regular Port Gate Valves

Features & Dimensional Data (in., mm)

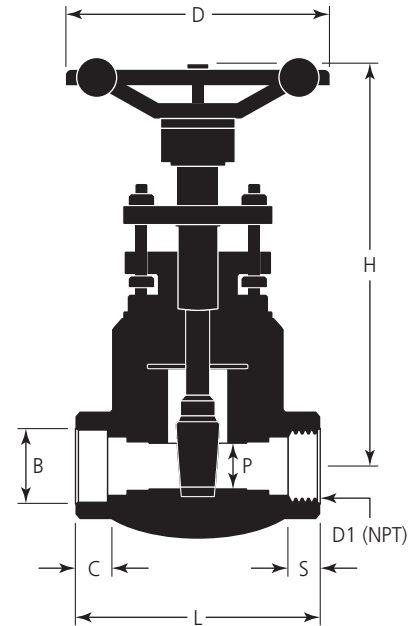


Features

- Sizes: 1/2" - 2"
- Pressure class: 800 - 2500
- End connections: SE, SW & TSW

Specifications

- ASME B16.34 & API 602
- Pipe threads per ASME B1.20.1
Socket welding & threaded per ASME B16.11
- Testing in accordance with API 598 and
API 622 compliant low emission packing



Model GA080, Class 800

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	3.54	5.70	3.15	0.39	3.74	0.86	0.38	0.54	15	90	145	80	10	1.7	21.8	9.5	13.6
.75	3.54	6.14	3.54	0.55	4.62	1.07	0.50	0.55	20	90	156	90	14	2.1	27.2	12.5	13.9
1	3.94	7.32	4.33	0.71	7.3	1.33	0.50	0.68	25	100	186	110	18	3.3	33.8	12.5	17.3
1.25	4.72	8.50	5.00	0.95	11.4	1.68	0.50	0.71	30	120	216	127	24	5.2	42.7	12.5	18.0
1.5	5.51	10.04	5.00	1.22	15.4	1.92	0.50	0.72	40	140	255	127	31	7.0	48.8	12.5	18.4
2	5.51	10.75	5.12	1.44	20.0	2.42	0.62	0.76	50	140	273	130	36.5	9.1	61.5	16.0	19.2

Model GA150, Class 1500

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	3.54	6.42	3.54	0.39	5.1	0.86	0.38	0.54	15	90	163	90	10	2.3	21.8	9.5	13.6
.75	3.94	7.09	4.33	0.55	8.1	1.07	0.50	0.55	20	100	180	110	14	3.7	27.2	12.5	13.9
1	4.72	8.35	5.00	0.71	11.9	1.33	0.50	0.68	25	120	212	127	18	5.4	33.8	12.5	17.3
1.25	5.51	9.65	5.00	0.94	16.3	1.68	0.50	0.71	30	140	245	127	24	7.4	42.7	12.5	18.0
1.5	5.51	10.47	5.18	1.22	21.1	1.92	0.50	0.72	40	140	266	132	31	9.6	48.8	12.5	18.4
2	7.87	12.52	5.91	1.44	33.2	2.42	0.62	0.76	50	200	318	150	36.5	15.1	61.5	16.0	19.2

Model GA250, Class 2500

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	5.51	8.35	4.33	0.48	13.4	0.86	0.38	0.54	15	140	212	110	12	6.1	21.8	9.5	13.6
.75	7.87	10.08	4.53	0.55	19.1	1.07	0.50	0.55	20	200	256	115	14	8.7	27.2	12.5	13.9
1	7.87	10.71	5.12	0.71	22.4	1.33	0.50	0.68	25	200	272	130	18	10.2	33.8	12.5	17.3
1.5	10.24	16.18	8.27	1.22	60.3	1.92	0.50	0.72	40	260	411	210	31	27.4	48.8	12.5	18.4
2	13.77	16.61	9.45	1.44	79.6	2.42	0.62	0.76	50	350	422	240	36.5	36.1	61.5	16.0	19.2

Note: Full port and welded bonnet available. Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Globe Valves

Features & Parts

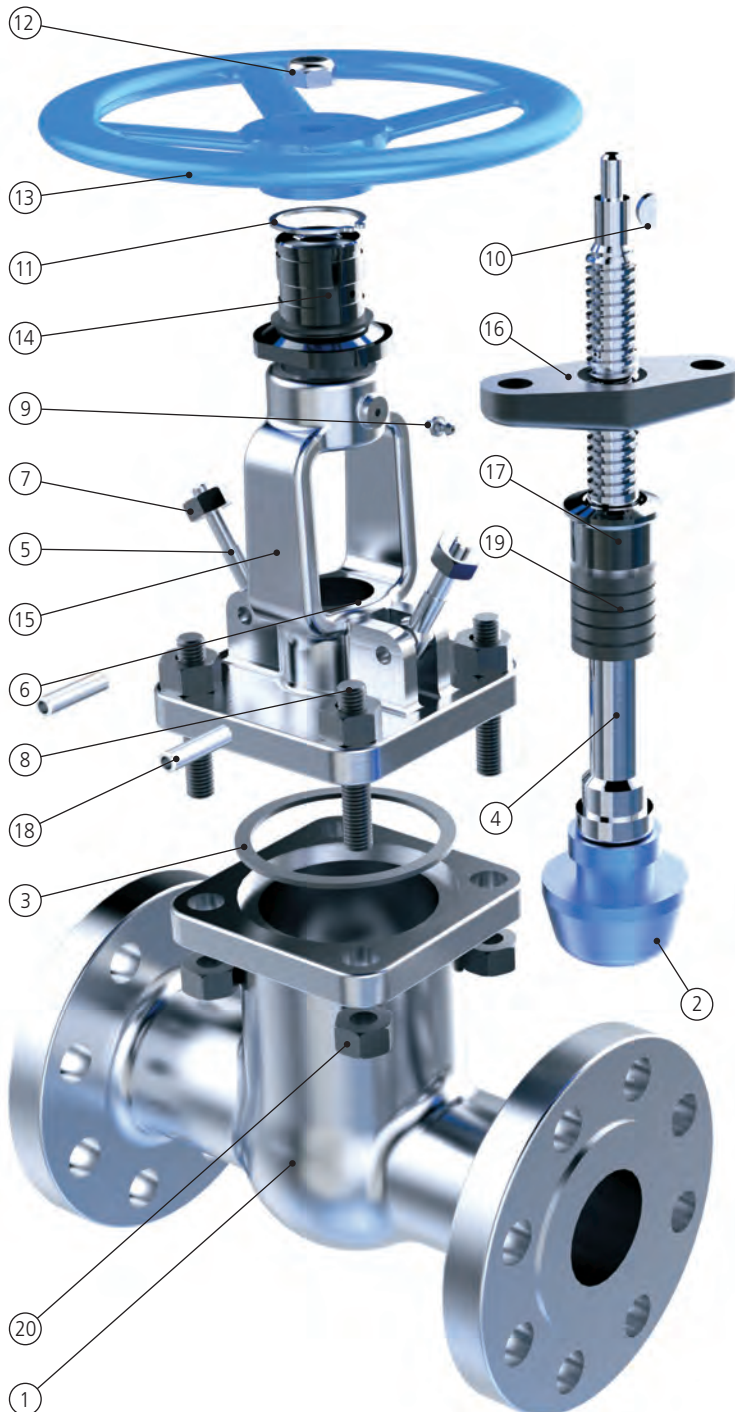
Cooper® cast globe valves are typically used for unidirectional isolation and when a pressure drop is required or preferred. Our globe valve design utilizes an outside screw and yoke (OS&Y) which is advantageous in that the threads are outside the fluid resulting in minimized thread damage.

Features

- Cast sizes: 2" - 18"
Forged sizes: 1/2" - 2"
- Pressure class:
150 - 1500
- End connections:
RFF, RTJ & BW

Specifications

- Flange dimensions per ASME B16.5
Face to face dimensions per ASME B16.10
- Testing in accordance with API 598 and
API 622 compliant low emission packing
- Cast: ASME B16.34 & API 623
Forged: ASME B16.34 & API 602

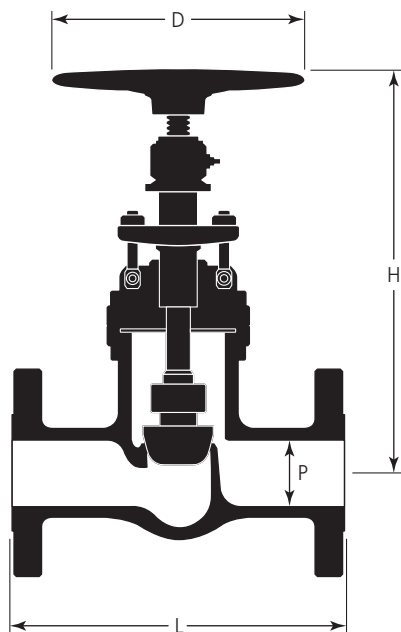


Parts

- 1. Body** of nickel alloy with integral seat provides optimum strength & corrosion resistance.
 - 2. Plug Type Disc** is machined to the tightest tolerances to ensure trouble free shutoff & cycling.
 - 3. Bonnet Gasket** creates a leakproof seal between bonnet & body.
 - 4. Stem** inserts vertically into the disc.
 - 5. & 7. Gland Bolts & Nuts** allow easy adjustment for packing compression.
 - 6. Stuffing Box** contains the packing.
 - 8. & 20. Bonnet Bolting** bolts & nuts secure the bonnet to the body.
 - 9. Grease Fitting** allows easy stem lubrication.
 - 10. Key** helps prevent the handwheel from slipping.
 - 11. Snap Ring** helps prevent loosening & distributes pressure evenly.
 - 12. Handwheel Nut** secures the handwheel to the bonnet assembly.
 - 13. Handwheel** cycles the valve.
 - 14. Stem Nut** provides a precision guide for proper stem alignment.
 - 15. Bonnet** assemblies are built to the same standards as the bodies.
 - 16. Gland Flange** applies pressure to the gland for accurate packing adjustments.
 - 17. Gland** compresses the packing to create a stem seal above the back seat between the bonnet & stem (same as body material).
 - 18. Gland Bolt Pin** secures the gland bolts to the yoke & bonnet.
 - 19. Packing** creates a seal above the back seat between the bonnet & stem.
- Integral Back Seat** when engaged with the stem head, provides a stable shutoff to the stuffing box which isolates the packing from flow exposure (not shown).

Cooper® Cast & Forged Flanged Full Port Globe Valves

Cast Dimensional Data (in., mm)



Model GL015, Class 150

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	8	13.58	8.00	2	49	50	203	345	203	51	22
2.5	8	16.34	8.50	2.5	71	65	203	415	216	63.5	32
3	10	15.94	9.50	3	84	80	254	405	241	76	38
4	12	19.09	11.50	4	137	100	305	485	292	102	62
6	14	20.47	16.00	6	229	150	356	520	406	152	104
8	18	23.62	19.50	8	351	200	457	600	495	203	159
10	20	30.00	24.50	10	679	250	508	762	622	254	308
12	24	33.94	27.50	12	1188	300	610	862	699	305	539
14	24	38.58	31.00	14	1345	350	610	980	787	356	610
16	24	47.05	36.00	16	1940	400	610	1195	914	406	880
18	24	51.18	38.50	18	2535	450	610	1300	978	457	1150

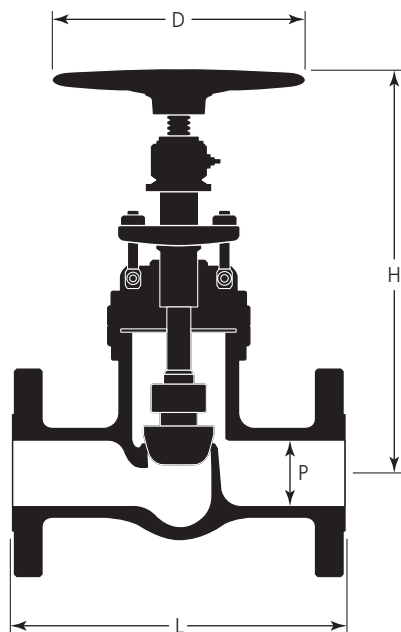
Model GL030, Class 300

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	8	14.57	10.50	2	62	50	203	370	267	51	28
2.5	10	18.66	11.50	2.5	106	65	254	474	292	63.5	48
3	10	17.32	12.50	3	123	80	254	440	318	76	56
4	14	20.67	14.00	4	181	100	356	525	356	102	82
6	18	24.41	17.50	6	340	150	457	620	445	152	154
8	22	35.83	22.00	8	529	200	559	910	559	203	240
10	24	37.36	24.50	10	703	250	610	949	622	254	319
12	24	40.63	28.00	12	1393	300	610	1032	711	305	632
14	24	42.91	33.00	14	2150	350	610	1090	838	356	975

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Globe Valves

Cast Dimensional Data (in., mm)



Model GL060, Class 600

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	10	18.19	11.50	2	79	50	254	462	292	51	36
2.5	10	21.26	13.00	2.5	154	65	254	540	330	63.5	70
3	12	23.03	14.00	3	187	80	305	585	356	76	85
4	18	26.38	17.00	4	271	100	457	670	432	102	123
6	20	34.88	22.00	6	891	150	508	886	559	152	404
8	24	36.69	26.00	8	992	200	610	932	660	203	450
10	24	40.94	31.00	10	1543	250	610	1040	787	254	700
12	24	50.39	33.00	12	1984	300	610	1280	838	305	900
14	24	42.91	33.00	14	2150	350	610	1090	838	356	975

Model GL090, Class 900

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	14	23.62	14.50	2	209	50	356	600	368	51	95
2.5	14	25.98	16.50	2.5	304	65	356	660	419	63.5	138
3	18	26.18	15.00	3	269	80	457	665	381	76	122
4	20	31.50	18.00	4	430	100	508	800	457	102	195
6	24	43.62	24.00	6	959	150	610	1108	610	152	435
8	24	46.61	29.00	8	1609	200	610	1184	737	203	730

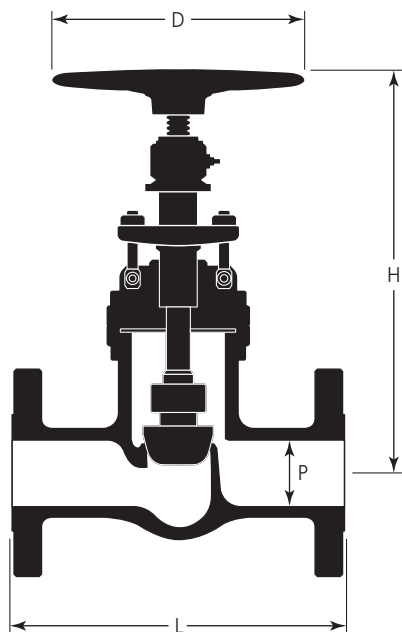
Model GL150, Class 1500

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
2	14	25.98	14.50	2	209	50	356	660	368	51	95
2.5	14	25.98	16.50	2.5	304	65	356	660	419	63.5	138
3	20	30.31	18.50	3	551	80	508	770	470	76	250
4	22	33.46	21.50	4	959	100	559	850	546	102	435
6	24	45.08	27.75	6	1190	150	610	1145	705	152	540
8	24	52.95	32.75	8	2138	200	610	1345	832	203	970

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Globe Valves

Forged Dimensional Data (in., mm)



Model GL015, Class 150

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	3.54	7.40	4.25	0.49	6.6	15	90	188	108	12.4	3.0
.75	3.94	7.56	4.63	0.69	8.6	20	100	192	118	17.5	3.9
1	4.72	8.15	5.00	0.89	12.3	25	120	207	127	22.6	5.6
1.5	5.51	11.14	6.50	1.26	23.3	40	140	283	165	32.0	10.6
2	7.87	12.36	8.00	1.57	34.8	50	200	314	203	39.9	15.8

Model GL030, Class 300

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	3.54	5.98	5.98	0.51	7.5	15	90	152	152	13.0	3.4
.75	3.94	6.26	7.00	0.69	10.6	20	100	159	178	17.5	4.8
1	4.72	7.18	8.00	0.89	15.4	25	120	182	203	22.6	7.0
1.5	5.51	11.14	9.00	1.34	31.2	40	140	283	229	34.0	14.2
2	7.87	12.05	10.50	1.77	38.3	50	200	306	267	45.0	17.4

Model GL060, Class 600

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	3.54	6.26	6.50	0.47	8.4	15	90	159	165	11.9	3.8
.75	3.94	7.17	7.50	0.69	15.0	20	100	182	191	17.5	6.8
1	4.72	8.43	8.50	0.89	22.7	25	120	214	216	22.6	10.3
1.5	5.51	12.05	9.50	1.34	39.2	40	140	306	241	34.0	17.8
2	7.87	12.87	11.50	1.77	59.0	50	200	327	292	45.0	26.8

Model GL150, Class 1500

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	4.72	8.58	8.49	0.43	20.7	15	120	218	216	10.9	9.4
.75	6.89	10.79	9.00	0.57	33.4	20	175	274	229	14.5	15.2
1	6.89	11.26	10.00	0.75	38.1	25	175	286	254	19.1	17.3
1.5	10.24	16.81	12.00	1.22	83.4	40	260	427	305	31.0	37.8
2	10.24	17.05	14.50	1.48	121.4	50	260	433	368	37.6	55.1

Cooper® Forged Threaded Regular Port Globe Valves

Features & Dimensional Data (in., mm)

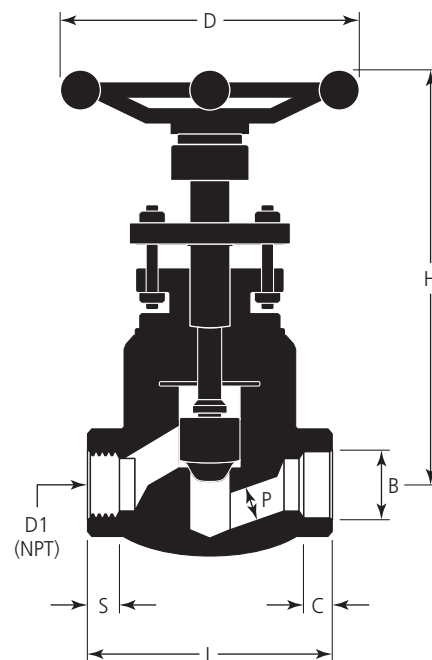


Features

- Sizes: 1/2" - 2"
- Pressure class: 800 - 2500
- End connections: SE, SW & TSW

Specifications

- ASME B16.34 & API 602
- Pipe threads per ASME B1.20.1
Socket welding & threaded per ASME B16.11
- Testing in accordance with API 598 and
API 622 compliant low emission packing



Model GL080, Class 800

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	3.54	5.98	3.15	0.39	3.7	0.86	0.38	0.54	15	90	152	80	10.0	5.3	21.8	9.5	13.6
.75	3.94	6.26	3.54	0.53	4.4	1.07	0.50	0.55	20	100	159	90	13.5	8.1	27.2	12.5	13.9
1	4.72	7.17	4.33	0.71	7.0	1.33	0.50	0.68	25	120	182	110	18.0	12.1	33.8	12.5	17.3
1.25	5.51	5.43	5.00	0.94	11.7	1.68	0.50	0.71	30	140	138	127	24.0	18.3	42.7	12.5	18.0
1.5	5.51	11.14	6.10	1.14	17.2	1.92	0.50	0.72	40	140	283	155	29.0	25.1	48.8	12.5	18.4
2	7.87	12.05	6.69	1.38	23.3	2.42	0.62	0.76	50	200	307	170	35.0	37.0	61.5	16.0	19.2

Model GL150, Class 1500

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	3.54	6.65	3.54	0.39	5.3	0.86	0.38	0.54	15	90	169	90	10.0	2.4	21.8	9.5	13.6
.75	3.94	7.13	4.33	0.53	8.1	1.07	0.50	0.55	20	100	181	110	13.5	3.7	27.2	12.5	13.9
1	4.72	8.27	5.00	0.71	12.1	1.33	0.50	0.68	25	120	210	127	18.0	5.5	33.8	12.5	17.3
1.25	5.51	9.69	6.10	0.94	18.3	1.68	0.50	0.71	30	140	246	155	24.0	8.3	42.7	12.5	18.0
1.5	5.51	10.04	6.69	1.14	25.1	1.92	0.50	0.72	40	140	255	170	29.0	11.4	48.8	12.5	18.4
2	7.87	12.09	8.27	1.38	37.0	2.42	0.62	0.76	50	200	307	210	35.0	16.8	61.5	16.0	19.2

Model GL250, Class 2500

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	5.51	8.58	4.33	0.39	12.8	0.86	0.38	0.54	15	140	218	110	10.0	5.8	21.8	9.5	13.6
.75	7.87	10.24	4.52	0.51	18.3	1.07	0.50	0.55	20	200	260	115	13.0	8.3	27.2	12.5	13.9
1	7.87	10.55	5.12	0.71	21.3	1.33	0.50	0.68	25	200	268	130	18.0	9.7	33.8	12.5	17.3
1.25	10.24	16.81	8.27	0.98	59.0	1.92	0.50	0.72	30	260	427	210	25.0	26.8	48.8	12.5	18.4
1.5	13.77	17.05	9.45	1.33	77.7	2.42	0.62	0.76	40	350	433	240	34.0	35.2	61.5	16.0	19.2
2	7.87	12.09	8.27	1.38	37.0	2.42	0.62	0.76	50	200	307	210	35.0	16.8	61.5	16.0	19.2

Note: Full port and welded bonnet available. Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Forged Full Port Welded Bonnet Y-Pattern Globe Valves

Features & Dimensional Data (in., mm)

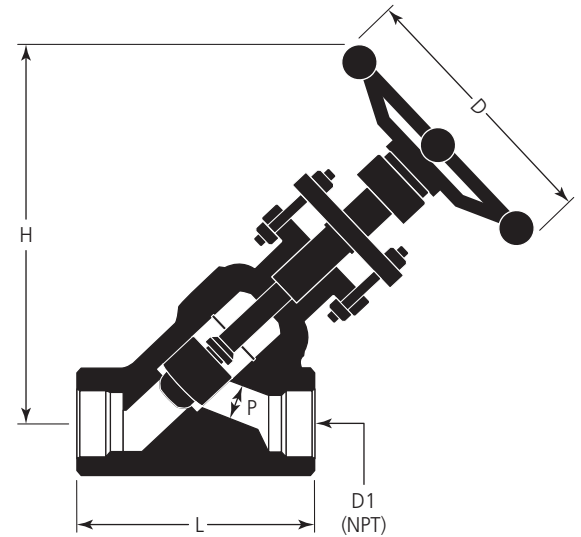
Features

- Sizes: 1/2" - 2"
- Pressure class: 1690 - 4500
- End connections: SE, SW & TSW



Specifications

- ASME B16.34
- Pipe threads per ASME B1.20.1
Socket welding & threaded per ASME B16.11
- Testing in accordance with API 598 and
API 622 compliant low emission packing



Model YL169, Class 1690

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	3.94	7.32	3.94	0.47	6.6	0.86	0.38	0.54	15	100	186	100	11.9	3.0	21.8	9.5	13.6
.75	4.72	8.66	4.33	0.63	8.8	1.07	0.50	0.55	20	120	220	110	16.0	4.0	27.2	12.5	13.9
1	5.51	9.02	4.72	0.79	10.6	1.33	0.50	0.68	25	140	229	120	20.1	4.8	33.8	12.5	17.3
1.25	7.87	12.01	6.30	1.10	23.2	1.68	0.50	0.71	30	200	305	160	27.9	10.5	42.7	12.5	18.0
1.5	7.87	13.70	7.48	1.26	33.1	1.92	0.50	0.72	40	200	348	190	32.0	15.0	48.8	12.5	18.4
2	10.24	15.31	7.48	1.69	41.9	2.42	0.62	0.76	50	260	389	190	42.9	19.0	61.5	16.0	19.2

Model YL268, Class 2680

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	5.51	8.54	4.33	0.39	8.8	0.86	0.38	0.54	15	140	217	110	9.9	4.0	21.8	9.5	13.6
.75	7.87	10.87	4.72	0.51	15.4	1.07	0.50	0.55	20	200	276	120	13.0	7.0	27.2	12.5	13.9
1	7.87	10.87	4.72	0.71	17.6	1.33	0.50	0.68	25	200	276	120	18.0	8.0	33.8	12.5	17.3
1.25	9.84	15.27	7.48	0.94	37.5	1.68	0.50	0.71	30	250	388	190	23.9	17.0	42.7	12.5	18.0
1.5	9.84	15.27	7.48	1.10	39.7	1.92	0.50	0.72	40	250	388	190	27.9	18.0	48.8	12.5	18.4
2	13.78	17.32	8.27	1.38	52.9	2.42	0.62	0.76	50	350	440	210	35.1	24.0	61.5	16.0	19.2

Model YL450, Class 4500

Size (in.) D1 (NPT)	D	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	D	H	L	P	Wt. (kg)	End Connection		
						B	C	S							B	C	S
.5	7.87	9.57	4.72	0.28	15.4	0.86	0.38	0.54	15	200	243	120	7.1	7.0	21.8	9.5	13.6
.75	7.87	12.67	6.30	0.43	18.5	1.07	0.50	0.55	20	200	322	160	10.9	8.4	27.2	12.5	13.9
1	10.24	14.88	7.48	0.55	37.1	1.33	0.50	0.68	25	260	378	190	14.0	16.8	33.8	12.5	17.3
1.25	13.78	17.79	8.27	0.98	50.6	1.92	0.50	0.72	30	350	452	210	24.9	23.0	48.8	12.5	18.4
1.5*	13.78	20.47	9.06	1.18	97.4	2.42	0.62	0.76	40*	350	520	230	30.0	44.2	61.5	16.0	19.2
2	7.87	12.09	8.27	1.38	37.0	2.42	0.62	0.76	50	200	307	210	35.0	16.8	61.5	16.0	19.2

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings. *Cl. 4500 D1 (NPT) dimension is 2"/50mm.

Cooper® Cast & Forged Flanged Full Port Swing Check Valves

Features & Parts

Cooper® check valves have a simple yet reliable design that allows them to perform with low pressure drop and excellent seat tightness. We manufacture both swing check and lift check designs. Our lift check valves are generally used in applications where faster closing speeds are required to prevent surges.

Features

- Cast sizes: 2" - 30"
Forged sizes: 1/2" - 2"
- Pressure class:
150 - 1500
- End connections:
RFF, RTJ & BW

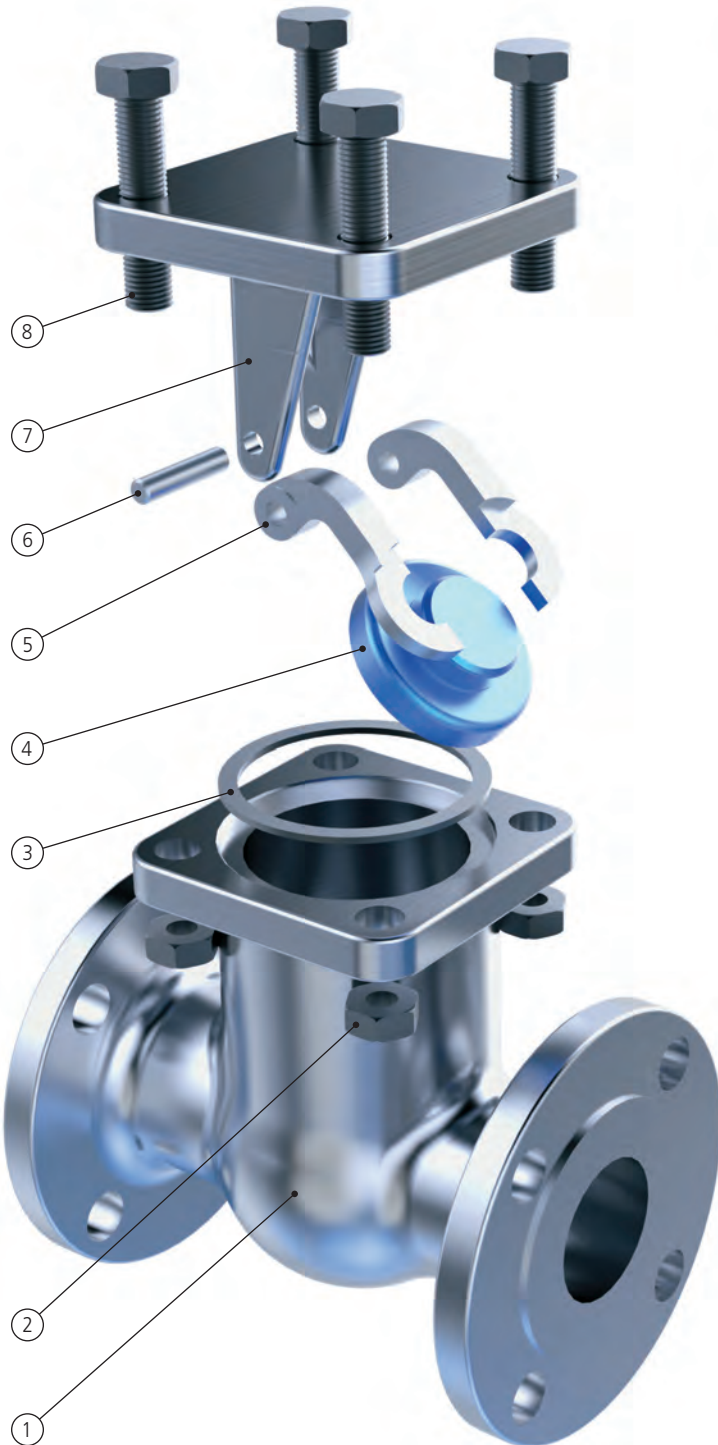
Specifications

- Flange dimensions per ASME B16.5
Face to face dimensions per ASME B16.10
- Testing in accordance with API 598
- Cast: ASME B16.34 & API 594
Forged: ASME B16.34 & API 602



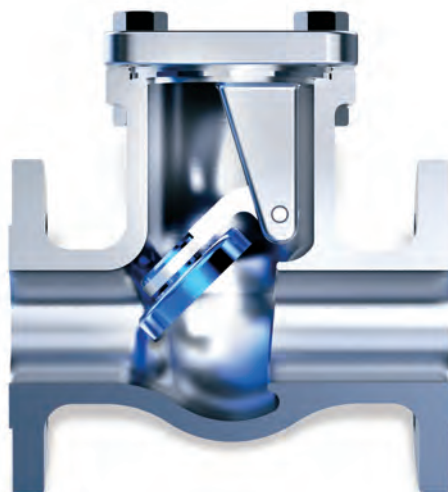
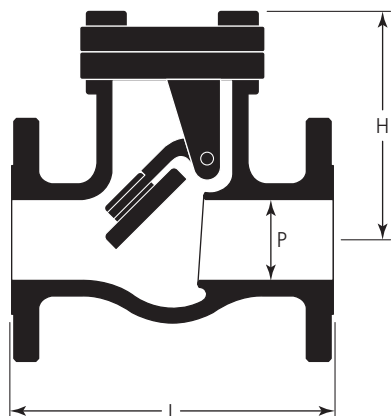
Parts

- 1. Body** of nickel alloy with integral seat provides optimum strength & corrosion resistance.
 - 2. & 8. Bonnet Bolting** bolts & nuts secure the bonnet to the body.
 - 3. Cover Gasket** creates a leakproof seal between the cover & body.
 - 4. Disc** allows unidirectional flow & restricts back flow with trouble free shutoff.
 - 5. Swing Arms** allow the disc to open & close.
 - 6. Hinge Pin** provides a stable mechanism for the swing arms to function.
 - 7. Cover** seals the valve & allows access to the internal components.
- Integral Seat** is precision machined for optimal seating to ensure a stable shutoff (not shown).



Cooper® Cast & Forged Flanged Full Port Swing Check Valves

Cast Dimensional Data (in., mm)



Model SC015, Class 150

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
2	6.10	8.00	2	42	50	155	203	51	19
2.5	6.70	8.50	2.5	57	65	170	216	63.5	26
3	7.09	9.50	3	64	80	180	241	76	29
4	8.66	11.50	4	101	100	220	292	102	46
6	10.50	14.00	6	170	150	267	356	152	77
8	12.20	19.50	8	359	200	310	495	203	163
10	14.57	24.50	10	485	250	370	622	254	220
12	16.73	27.50	12	807	300	425	699	305	366
14	18.70	31.00	14	944	350	475	787	356	428
16	20.67	34.00	16	1224	400	525	864	406	555
18	22.83	38.50	18	1709	450	580	978	457	775
20	24.72	38.50	20	1841	500	628	978	508	835
24	34.72	51.00	24	2601	600	882	1295	610	1180
30	38.27	60.00	30	4321	750	972	1524	762	1960

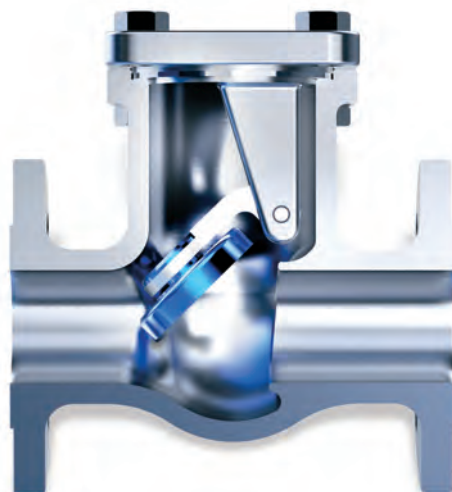
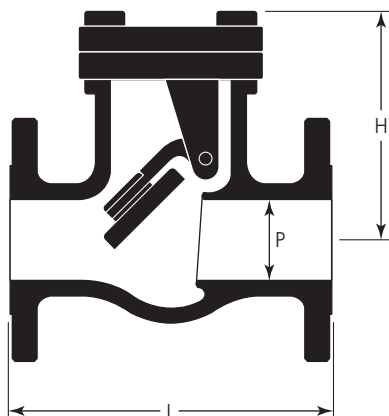
Model SC030, Class 300

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
2	6.89	10.50	2	46	50	175	267	51	21
2.5	7.28	11.50	2.5	66	65	185	292	63.5	30
3	7.80	12.50	3	86	80	198	318	76	39
4	9.25	14.00	4	152	100	235	356	102	69
6	11.10	17.50	6	276	150	282	445	152	125
8	13.19	21.00	8	463	200	335	533	203	210
10	15.15	24.50	10	677	250	385	622	254	307
12	18.11	28.00	12	992	300	460	711	305	450
14	20.47	33.00	14	1499	350	520	838	356	680
16	21.81	34.00	16	1852	400	554	864	406	840
18	23.62	38.50	18	2260	450	600	978	457	1025
20	26.38	40.00	20	2910	500	670	1016	508	1320
24	29.53	53.00	24	4321	600	750	1346	610	1960

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Swing Check Valves

Cast Dimensional Data (in., mm)



Model SC060, Class 600

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
2	7.16	11.50	2	79	50	182	292	51	36
2.5	7.87	13.00	2.5	108	65	200	330	63.5	49
3	8.94	14.00	3	154	80	227	356	76	70
4	10.24	17.00	4	269	100	260	432	102	122
6	12.80	22.00	6	593	150	325	559	152	269
8	15.35	26.00	8	1025	200	390	660	203	465
10	19.29	31.00	10	1484	250	490	787	254	673
12	20.79	33.00	12	1929	300	528	838	305	875
14	22.56	35.00	14	2081	350	573	889	356	944
16	25.98	39.00	16	2690	400	660	991	406	1220
18	28.35	43.00	18	3571	450	720	1092	457	1620
20	29.37	47.00	20	4674	500	746	1194	508	2120
24	37.80	55.00	24	6834	600	960	1397	610	3100

Model SC090, Class 900

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
2	11.65	14.50	2	154	50	296	368	51	70
2.5	11.81	16.50	2.5	220	65	300	419	63.5	100
3	11.81	15.00	3	201	80	300	381	76	91
4	12.87	18.00	4	331	100	327	457	102	150
6	17.36	24.00	6	672	150	441	610	152	305
8	19.76	29.00	8	1124	200	502	737	203	510
10	26.14	33.00	10	1786	250	664	838	254	810
12	30.51	38.00	12	2469	300	775	965	305	1120

Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast & Forged Flanged Full Port Swing Check Valves

Cast Dimensional Data (in., mm)

Model SC150, Class 1500

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
2	11.65	14.50	2	154	50	296	368	51	70
2.5	11.81	16.50	2.5	220	65	300	419	63.5	100
3	13.43	18.50	3	331	80	341	470	76	150
4	16.22	21.50	4	540	100	412	546	102	245
6	20.12	27.75	6	1213	150	511	705	152	550
8	26.77	32.75	8	2227	200	680	832	203	1010
10	29.76	39.00	10	3417	250	756	991	254	1550
12	33.74	44.50	12	5027	300	857	1130	305	2280

Forged Dimensional Data (in., mm)

Model SC015, Class 150

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
.5	3.31	4.25	0.49	5.7	15	84	108	12.5	2.6
.75	3.43	4.63	0.69	8.4	20	87	118	17.5	3.8
1	3.62	5.00	0.89	11.2	25	92	127	22.5	5.1
1.5	4.33	6.50	1.38	18.5	40	110	165	35.0	8.4
2	4.88	8.00	1.50	31.2	50	124	203	38.0	14.2

Model SC030, Class 300

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
.5	1.97	6.00	0.49	5.5	15	50	152	12.5	2.5
.75	2.20	7.00	0.69	9.2	20	56	178	17.5	4.2
1	3.62	8.00	0.89	12.5	25	92	203	22.5	5.7
1.5	4.33	9.00	1.38	24.6	40	110	229	35.0	11.2
2	5.51	10.50	1.77	31.7	50	140	267	45.0	14.4

Model SC060, Class 600

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
.5	1.97	6.50	0.49	6.8	15	50	165	12.4	3.1
.75	2.20	7.50	0.69	11.0	20	56	191	17.5	5.0
1	3.62	8.50	0.89	16.1	25	92	216	22.6	7.3
1.5	4.33	9.50	1.38	26.4	40	110	241	35.1	12.0
2	5.51	11.50	1.77	36.5	50	140	292	45.0	16.6

Model SC150, Class 1500

Size (in.)	H	L	P	Wt. (lbs.)	Size (mm)	H	L	P	Wt. (kg)
.5	3.66	8.50	0.43	16.5	15	93	216	10.9	7.5
.75	4.29	9.00	0.57	24.0	20	109	229	14.5	10.9
1	4.80	10.00	0.75	31.7	25	122	254	19.1	14.4
1.5	6.22	12.00	1.22	67.0	40	158	305	31.0	30.4
2	6.73	14.50	1.48	96.8	50	171	368	37.6	43.9

Cooper® Forged Threaded Regular Port Swing Check Valves

Features & Dimensional Data (in., mm)

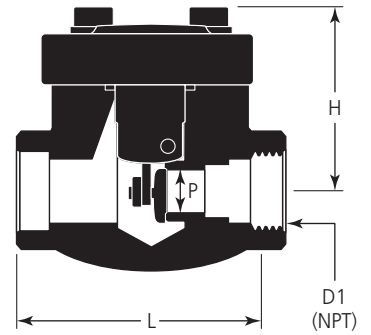


Features

- Sizes: 1/2" - 2"
- Pressure class: 800 - 2500
- End connections: SE, SW & TSW

Specifications

- ASME B16.34 & API 602
- Pipe threads per ASME B1.20.1
Socket welding & threaded per ASME B16.11
- Testing in accordance with API 598



Model PC080, Class 800

Size (in.) D1 (NPT)	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	H	L	P	Wt. (kg)	End Connection		
					B	C	S						B	C	S
.5	1.97	3.15	0.35	2.4	0.86	0.38	0.54	15	50	80	9	1.1	21.8	9.5	13.6
.75	2.20	3.54	0.49	4.0	1.07	0.50	0.55	20	56	90	12	1.8	27.2	12.5	13.9
1	2.91	4.33	0.69	5.7	1.33	0.50	0.68	25	74	110	18	2.6	33.8	12.5	17.3
1.25	3.11	5.00	0.89	7.9	1.68	0.50	0.71	30	79	127	23	3.6	42.7	12.5	18.0
1.5	3.94	6.10	1.10	12.1	1.92	0.50	0.72	40	100	155	28	5.5	48.8	12.5	18.4
2	4.29	6.69	1.26	18.5	2.42	0.62	0.76	50	109	170	32	8.4	61.5	16.0	19.2

Model PC150, Class 1500

Size (in.) D1 (NPT)	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	H	L	P	Wt. (kg)	End Connection		
					B	C	S						B	C	S
.5	2.20	3.54	0.39	4.8	0.86	0.38	0.54	15	56	90	10	2.2	21.8	9.5	13.6
.75	2.91	4.33	0.53	6.6	1.07	0.50	0.55	20	74	110	13	3.0	27.2	12.5	13.9
1	3.11	5.00	0.71	9.0	1.33	0.50	0.68	25	79	127	18	4.1	33.8	12.5	17.3
1.25	3.94	6.10	0.94	13.6	1.68	0.50	0.71	30	100	155	24	6.2	42.7	12.5	18.0
1.5	4.29	6.69	1.10	20.7	1.92	0.50	0.72	40	109	170	28	9.4	48.8	12.5	18.4
2	5.31	8.27	1.38	29.3	2.42	0.62	0.76	50	135	210	35	13.3	61.5	16.0	19.2

Model PC250, Class 2500

Size (in.) D1 (NPT)	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	H	L	P	Wt. (kg)	End Connection		
					B	C	S						B	C	S
.5	3.66	4.33	0.39	8.8	0.86	0.38	0.54	15	93	110	10	4.0	21.8	9.5	13.6
.75	4.29	4.53	0.51	13.6	1.07	0.50	0.55	20	109	115	13	6.2	27.2	12.5	13.9
1	4.80	5.12	0.71	15.8	1.33	0.50	0.68	25	122	130	18	7.2	33.8	12.5	17.3
1.5	6.22	8.27	0.98	42.7	1.92	0.50	0.72	40	158	210	25	19.4	48.8	12.5	18.4
2	6.73	9.45	1.33	53.9	2.42	0.62	0.76	50	171	240	34	24.4	61.5	16.0	19.2

Note: Full port and welded bonnet available. Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Forged Threaded Regular Port Piston Check Valves

Features & Dimensional Data (in., mm)

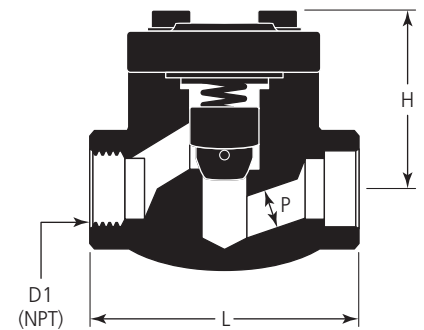


Features

- Sizes: 1/2" - 2"
- Pressure class: 150 - 2500
- End connections: SE, SW & TSW

Specifications

- ASME B16.34 & API 602
- Pipe threads per ASME B1.20.1
Socket welding & threaded per ASME B16.11
- Testing in accordance with API 598



Model PC080, Class 800

Size (in.) D1 (NPT)	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	H	L	P	Wt. (kg)	End Connection		
					B	C	S						B	C	S
.5	1.97	3.15	0.35	2.4	0.86	0.38	0.54	15	50	80	9	1.1	21.8	9.5	13.6
.75	2.20	3.54	0.49	4.0	1.07	0.50	0.55	20	56	90	12	1.8	27.2	12.5	13.9
1	2.91	4.33	0.69	5.7	1.33	0.50	0.68	25	74	110	18	2.6	33.8	12.5	17.3
1.25	3.11	5.00	0.89	7.9	1.68	0.50	0.71	30	79	127	23	3.6	42.7	12.5	18.0
1.5	3.94	6.10	1.10	12.1	1.92	0.50	0.72	40	100	155	28	5.5	48.8	12.5	18.4
2	4.29	6.69	1.26	18.5	2.42	0.62	0.76	50	109	170	32	8.4	61.5	16.0	19.2

Model PC150, Class 1500

Size (in.) D1 (NPT)	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	H	L	P	Wt. (kg)	End Connection		
					B	C	S						B	C	S
.5	2.20	3.54	0.39	4.8	0.86	0.38	0.54	15	56	90	10	2.2	21.8	9.5	13.6
.75	2.91	4.33	0.53	6.6	1.07	0.50	0.55	20	74	110	13	3.0	27.2	12.5	13.9
1	3.11	5.00	0.71	9.0	1.33	0.50	0.68	25	79	127	18	4.1	33.8	12.5	17.3
1.25	3.94	6.10	0.94	13.6	1.68	0.50	0.71	30	100	155	24	6.2	42.7	12.5	18.0
1.5	4.29	6.69	1.10	20.7	1.92	0.50	0.72	40	109	170	28	9.4	48.8	12.5	18.4
2	5.31	8.27	1.38	29.3	2.42	0.62	0.76	50	135	210	35	13.3	61.5	16.0	19.2

Model PC250, Class 2500

Size (in.) D1 (NPT)	H	L	P	Wt. (lbs.)	End Connection			Size (mm) D1 (NPT)	H	L	P	Wt. (kg)	End Connection		
					B	C	S						B	C	S
.5	3.66	4.33	0.39	8.8	0.86	0.38	0.54	15	93	110	10	4.0	21.8	9.5	13.6
.75	4.29	4.53	0.51	13.6	1.07	0.50	0.55	20	109	115	13	6.2	27.2	12.5	13.9
1	4.80	5.12	0.71	15.8	1.33	0.50	0.68	25	122	130	18	7.2	33.8	12.5	17.3
1.5	6.22	8.27	0.98	42.7	1.92	0.50	0.72	40	158	210	25	19.4	48.8	12.5	18.4
2	6.73	9.45	1.33	53.9	2.42	0.62	0.76	50	171	240	34	24.4	61.5	16.0	19.2

Note: Full port and welded bonnet available. Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast Full Port 2-Piece Flanged End Ball Valves

Features & Parts

Cooper® soft seated ball valves have a floating ball design for bubble tight operation in clean services and low temperature settings. They feature blowout proof stems, are API 607 Firesafe and have an ISO 5211 mounting pad. Additionally, with special configuration our soft seated ball valves are capable of cryogenic service.

Features

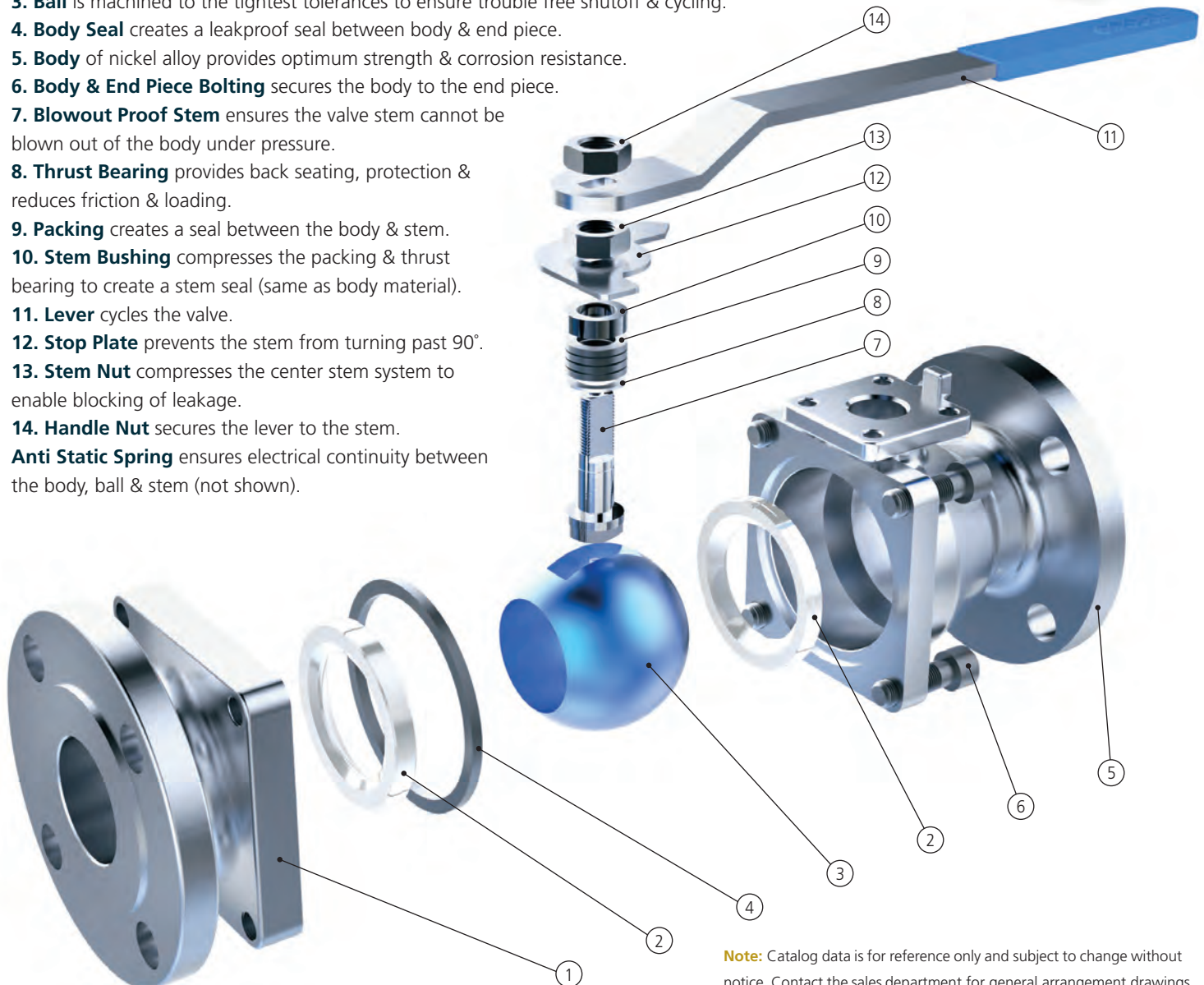
- Sizes: 1/2" - 12"
- Pressure class: 150 - 600
- End connections: RFF, RTJ & BW

Specifications

- ASME B16.34 & API 608
- Flange dimensions per ASME B16.5
Face to face dimensions per ASME B16.10
- Testing in accordance with API 598

Parts

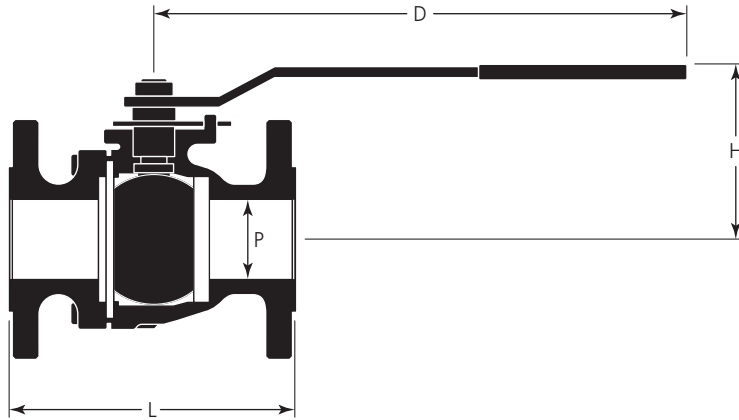
- 1. End Piece** is built to the same standards as the bodies.
 - 2. Seat** ensures positive shutoff for pressure or vacuum services.
 - 3. Ball** is machined to the tightest tolerances to ensure trouble free shutoff & cycling.
 - 4. Body Seal** creates a leakproof seal between body & end piece.
 - 5. Body** of nickel alloy provides optimum strength & corrosion resistance.
 - 6. Body & End Piece Bolting** secures the body to the end piece.
 - 7. Blowout Proof Stem** ensures the valve stem cannot be blown out of the body under pressure.
 - 8. Thrust Bearing** provides back seating, protection & reduces friction & loading.
 - 9. Packing** creates a seal between the body & stem.
 - 10. Stem Bushing** compresses the packing & thrust bearing to create a stem seal (same as body material).
 - 11. Lever** cycles the valve.
 - 12. Stop Plate** prevents the stem from turning past 90°.
 - 13. Stem Nut** compresses the center stem system to enable blocking of leakage.
 - 14. Handle Nut** secures the lever to the stem.
- Anti Static Spring** ensures electrical continuity between the body, ball & stem (not shown).



Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast Full Port 2-Piece Flanged End Ball Valves

Dimensional Data (in., mm)



Model 2B015, Class 150

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	7.28	3.11	4.25	0.50	4	15	185	79	108	13	1.8
.75	7.28	3.30	4.60	0.75	8	20	185	84	117	19	3.6
1	7.28	4.18	5.00	1.00	11	25	185	106	127	25	5.0
1.5	9.84	5.35	6.50	1.50	15	40	250	136	165	38	6.8
2	9.84	5.51	7.00	2.00	24	50	250	140	178	51	10.9
3	15.75	6.50	8.00	3.00	48	80	400	165	203	76	21.8
4	18.11	8.19	9.00	4.00	88	100	460	208	229	102	39.9
6	33.46	9.76	15.50	6.00	200	150	850	248	394	152	90.7
8	18.11	13.72	17.99	8.00	437	200	460	348	457	203	198.2
10	23.62	23.62	21.00	10.00	709	250	600	600	533	254	321.6
12	23.62	27.56	24.00	12.00	1130	300	600	700	610	305	512.6

Model 2B030, Class 300

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	7.28	2.50	5.50	0.50	5	15	185	64	140	13	2.3
.75	7.28	3.30	6.00	0.75	8	20	185	84	152	19	3.6
1	7.28	4.30	6.50	1.00	11	25	185	109	165	25	5.0
1.5	9.84	5.35	7.50	1.50	15	40	250	136	191	38	6.8
2	9.84	5.66	8.50	2.00	30	50	250	144	216	51	13.6
3	18.11	6.93	11.14	3.00	73	80	460	176	283	76	33.1
4	25.59	8.25	12.01	4.00	115	100	650	210	305	102	52.2
6	41.34	11.20	18.00	6.00	268	150	1050	284	457	152	121.6
8	19.69	13.72	19.76	8.00	474	200	500	349	502	203	215.0
10	27.56	23.62	22.36	10.00	890	250	700	600	568	254	403.7
12	27.56	27.56	25.51	12.00	1426	300	700	700	648	305	646.8

Model 2B060, Class 600

Size (in.)	D	H	L	P	Wt. (lbs.)	Size (mm)	D	H	L	P	Wt. (kg)
.5	7.08	3.18	6.50	0.50	7	15	180	81	165	13	3.2
.75	7.08	3.42	7.50	0.75	9	20	180	87	191	19	4.1
1	7.08	4.00	8.50	1.00	11	25	180	102	216	25	5.0
1.5	15.00	5.35	9.50	1.50	30	40	381	136	241	38	13.6
2	15.75	6.14	11.50	2.00	39	50	400	156	292	51	17.7
3	31.50	7.28	14.00	3.00	65	80	800	185	356	76	29.5
4	35.43	9.06	17.00	4.00	139	100	900	230	432	102	63.0
6	35.43	12.83	22.00	6.00	270	150	900	326	559	152	122.5

Cooper® Cast Full Port 3-Piece Threaded End Ball Valves

Features & Parts

Cooper® soft seated ball valves have a floating ball design for bubble tight operation in clean services and low temperature settings. They feature blowout proof stems, are API 607 Firesafe and have an ISO 5211 mounting pad. Additionally, with special configuration our soft seated ball valves are capable of cryogenic service.

Features

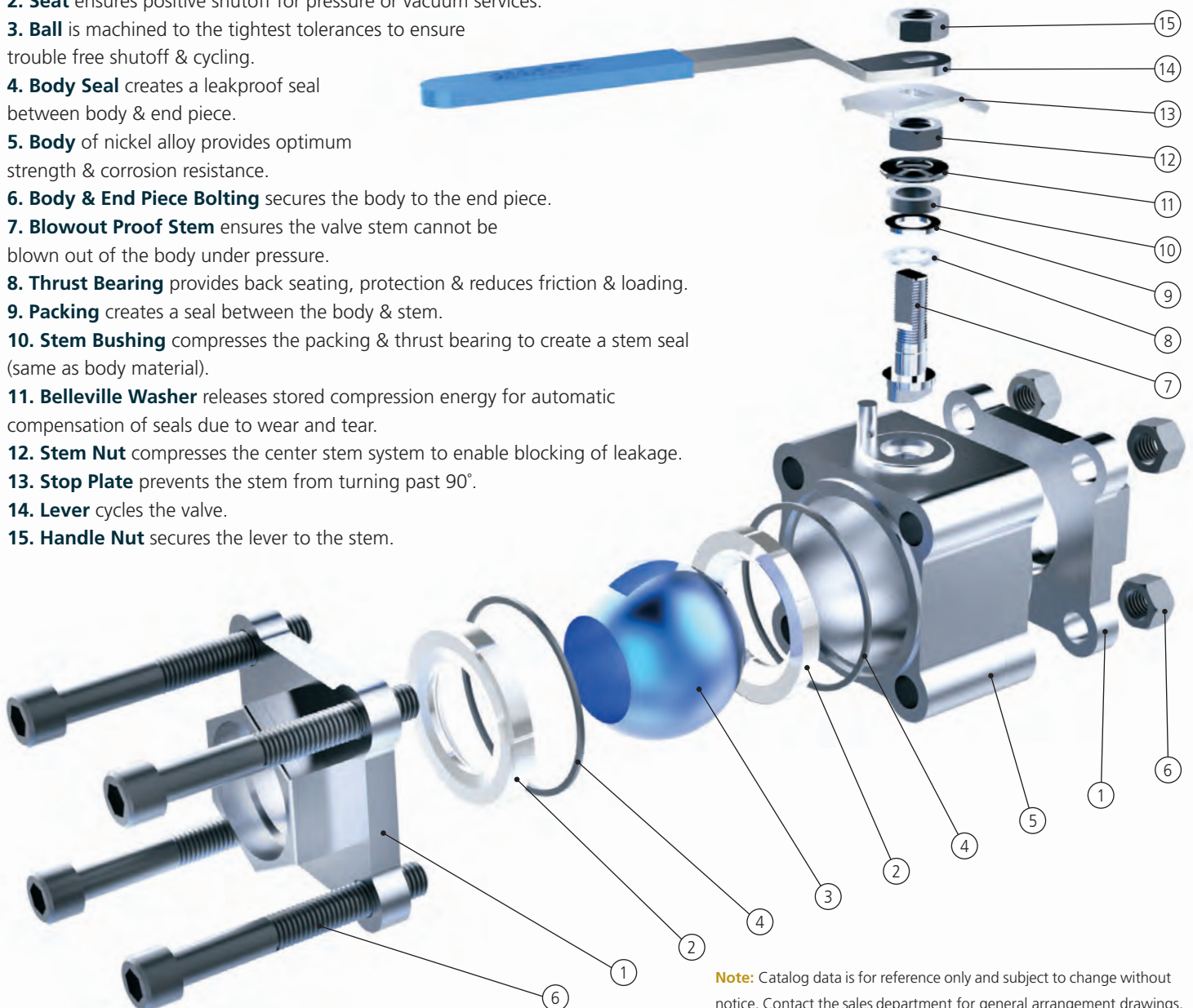
- Sizes: 1/2" - 2"
- Pressure class: 800 - 2500
- End connections: SE, SW & TSW

Specifications

- ASME B16.34 & API 608
- Pipe threads per ASME B1.20.1
Socket welding & threaded per ASME B16.11
- Testing in accordance with API 598

Parts

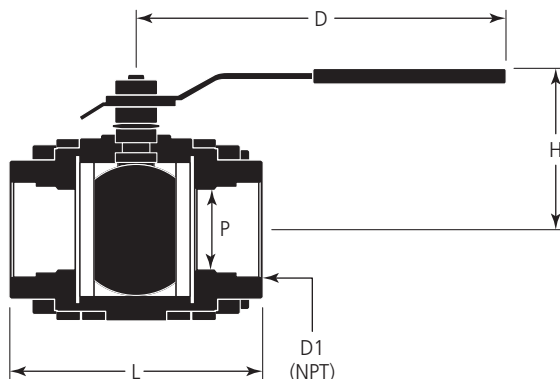
- 1. End Pieces** are built to the same high standards as the bodies.
- 2. Seat** ensures positive shutoff for pressure or vacuum services.
- 3. Ball** is machined to the tightest tolerances to ensure trouble free shutoff & cycling.
- 4. Body Seal** creates a leakproof seal between body & end piece.
- 5. Body** of nickel alloy provides optimum strength & corrosion resistance.
- 6. Body & End Piece Bolting** secures the body to the end piece.
- 7. Blowout Proof Stem** ensures the valve stem cannot be blown out of the body under pressure.
- 8. Thrust Bearing** provides back seating, protection & reduces friction & loading.
- 9. Packing** creates a seal between the body & stem.
- 10. Stem Bushing** compresses the packing & thrust bearing to create a stem seal (same as body material).
- 11. Belleville Washer** releases stored compression energy for automatic compensation of seals due to wear and tear.
- 12. Stem Nut** compresses the center stem system to enable blocking of leakage.
- 13. Stop Plate** prevents the stem from turning past 90°.
- 14. Lever** cycles the valve.
- 15. Handle Nut** secures the lever to the stem.



Note: Catalog data is for reference only and subject to change without notice. Contact the sales department for general arrangement drawings.

Cooper® Cast Full Port 3-Piece Threaded End Ball Valves

Dimensional Data (in., mm)



Model 3B080, Class 800

Size (in.) D1 (NPT)	D	H	NPT x NPT		NPT x SW			SW x SW		P	Wt. (lbs.)	End Connection		
			L	L1 & L2	L	L1	L2	L	L1 & L2			B	C	S
.5	6.30	3.07	4.49	1.57	6.85	1.57	3.94	9.21	3.94	0.50	5.51	0.86	0.38	0.54
.75	6.69	3.23	4.61	1.57	6.97	1.57	3.94	9.33	3.94	0.75	7.05	1.07	0.50	0.55
1	8.27	3.54	4.84	1.57	7.20	1.57	3.94	9.57	3.94	1.00	10.58	1.33	0.50	0.68
1.5	9.45	4.72	6.14	1.97	8.11	1.97	3.94	10.08	3.94	1.50	18.96	1.92	0.50	0.72
2	11.02	5.51	6.89	2.17	8.66	2.17	3.94	10.43	3.94	2.00	33.51	2.42	0.62	0.76

Size (mm) D1 (NPT)	D	H	NPT x NPT		NPT x SW			SW x SW		P	Wt. (kg)	End Connection		
			L	L1 & L2	L	L1	L2	L	L1 & L2			B	C	S
15	160	78	114	40	174	40	100	234	100	12.7	2.5	21.8	9.5	13.6
20	170	82	117	40	177	40	100	237	100	19.1	3.2	27.2	12.5	13.9
25	210	90	123	40	183	40	100	243	100	25.4	4.8	33.8	12.5	17.3
40	240	120	156	50	206	50	100	256	100	38.1	8.6	48.8	12.5	18.4
50	280	140	175	55	220	55	100	265	100	50.8	15.2	61.5	16.0	19.2

Model 3B150, Class 1500

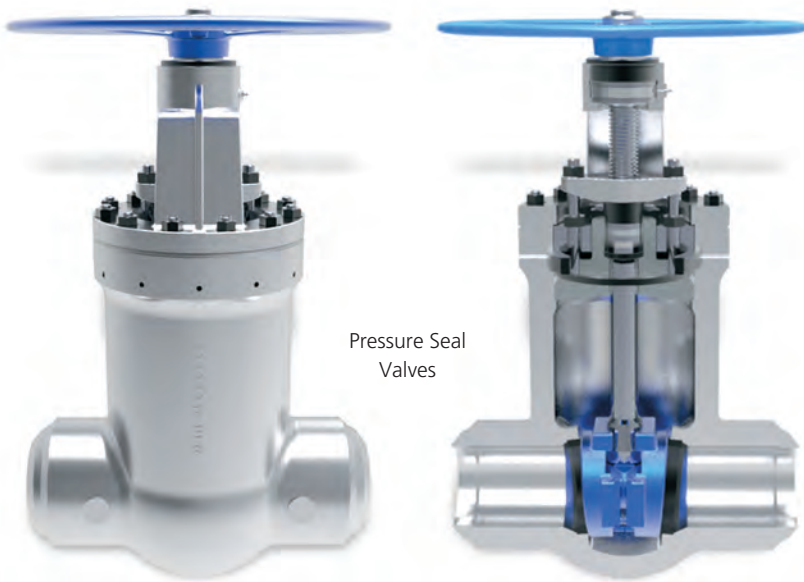
Size (in.) D1 (NPT)	D	H	NPT x NPT		NPT x SW			SW x SW		P	Wt. (lbs.)	End Connection		
			L	L1 & L2	L	L1	L2	L	L1 & L2			B	C	S
.5	6.69	3.23	4.61	1.57	6.97	1.57	6.69	9.33	3.94	0.50	8.38	0.86	0.38	0.54
.75	8.27	3.54	4.84	1.57	7.20	1.57	8.27	9.57	3.94	0.75	10.58	1.07	0.50	0.55
1	9.45	4.02	6.14	1.97	8.11	1.97	9.45	10.08	3.94	1.00	13.67	1.33	0.50	0.68
1.5	11.02	5.00	8.66	2.76	9.84	2.76	9.84	11.02	3.94	1.50	29.10	1.92	0.50	0.72

Size (mm) D1 (NPT)	D	H	NPT x NPT		NPT x SW			SW x SW		P	Wt. (kg)	End Connection		
			L	L1 & L2	L	L1	L2	L	L1 & L2			B	C	S
15	170	82	117	40	177	40	170	237	100	12.7	3.8	21.8	9.5	13.6
20	210	90	123	40	183	40	210	243	100	19.1	4.8	27.2	12.5	13.9
25	240	102	156	50	206	50	240	256	100	25.4	6.2	33.8	12.5	17.3
40	280	127	220	70	250	70	250	280	100	38.1	13.2	48.8	12.5	18.4

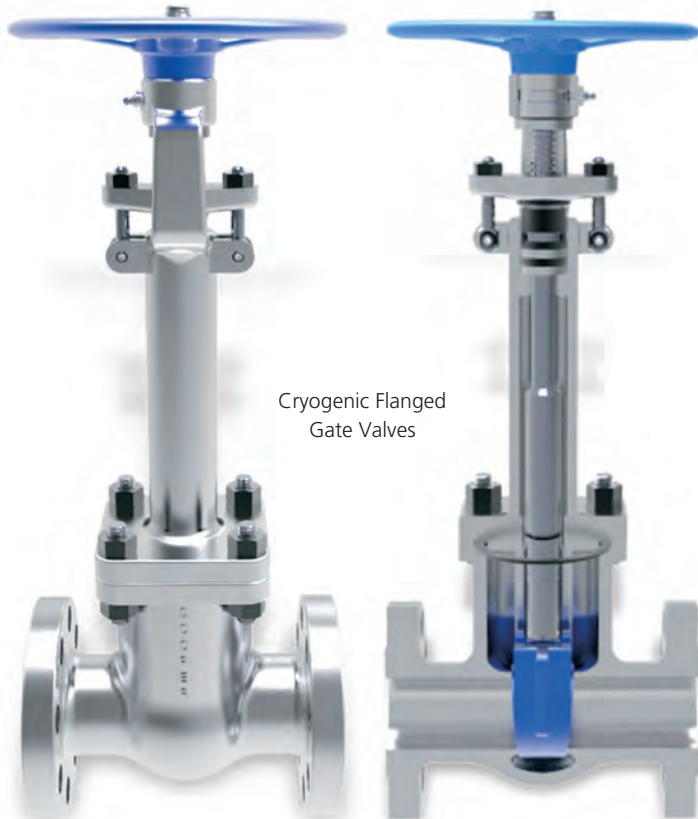


Cooper® Specialty Valves Offered Upon Request

- Pressure Seal Valves
- Cast & Forged Cryogenic Valves
- Tilt Disc Check Valves
- Stop Check Valves



Pressure Seal
Valves



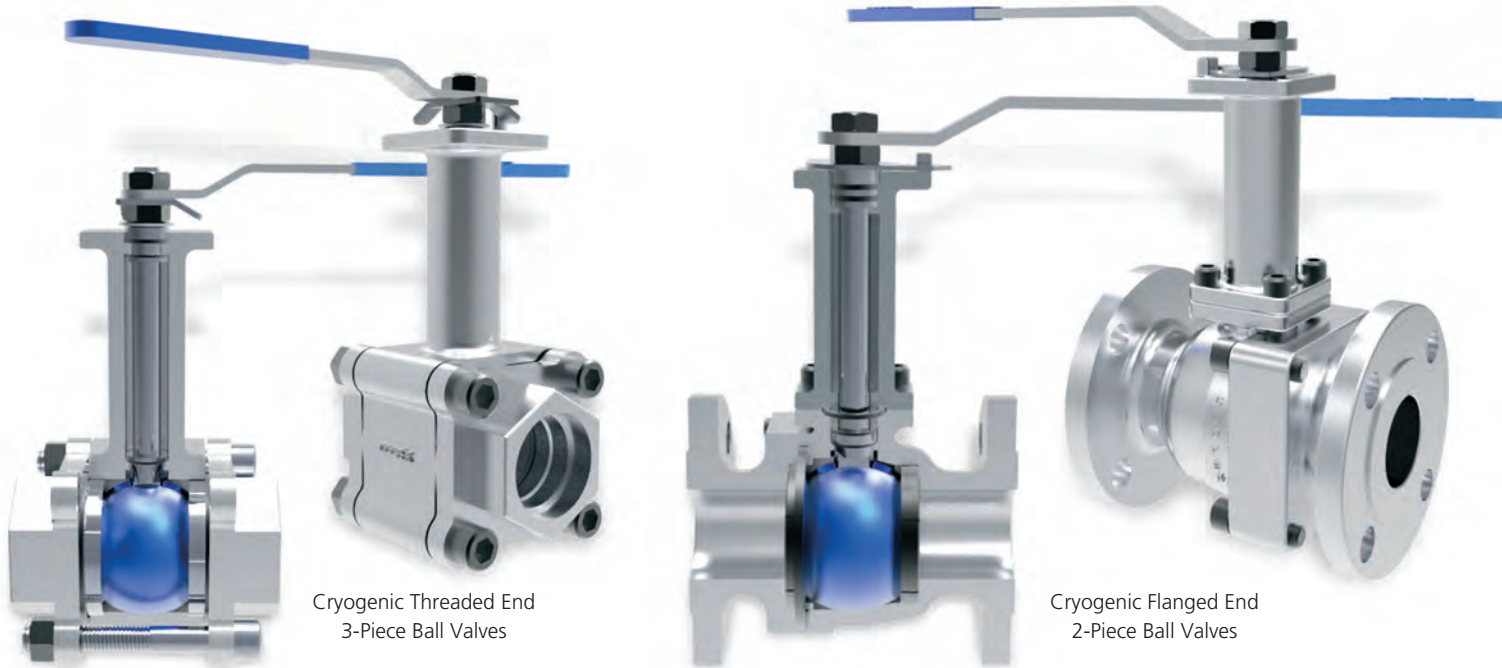
Cryogenic Flanged
Gate Valves



Cryogenic Flanged
Globe Valves

Cooper® Specialty Valves

Products & Services to Maximize Your Systems Efficiency



Our Services

Valve Services

- Field Service Available
- Bypasses
- Mounting Plates
- Stem Extensions
- Trim Changes
- Chlorine Cleaning
- Oxygen Cleaning
- Phosgene Cleaning
- Locking Devices
- Gear Operators

Testing

- Radiography Testing (RT)
- Dye Penetrant Testing (PT)
- Magnetic Partical Testing (MT)
- Ultrasonic Testing (UT)
- Casting Simulation
- Ferrite Content Testing
- Hardness Testing
- Corrosion Evaluation Testing
- Cryogenic/Cold Box Testing
- Positive Material Identification (PMI)

Automation Services

- Electric, Hydraulic & Pneumatic Automation
- Multi-turn, Quarter-turn & Linear
- Limit switches



Cooper® Cast & Forged Stainless, Nickel & Exotic Alloy Gate, Globe, Check & Ball Valves

Material Reference

Common Name	Castings		Forging	Bar	Forging / Bar	Elements
	ASTM	UNS	ASTM	ASTM	UNS	
Carbon Steel	A216 WCB	J03002	A105	A105	K03504	C-Mn-Fe
Carbon Steel	A216 WCC	J02503	—	—	—	C-Mn-Fe
Low Temp Carbon Steel	A352 LCB	J03003	—	—	—	C-Mn-Fe
Low Temp Carbon Steel	A352 LCC	J2505	A350 LF2	A350 LF2	K03011	C-Mn-Fe
1.25 Chrome	A217 WC6	J12072	A182 F11	A182 F11	K11572	1.25Cr-.5Mo Chrome
2.25 Chrome	A217 WC9	J21890	A182 F22	A182 F22	K21590	2.25Cr-.5Mo-Vd Chrome
5 Chrome	A217 C5	J42045	A182 F5	A182 F5	K41545	5Cr-.5Mo Chrome
9 Chrome	A217 C12	J82090	A182 F9	A182 F9	K90941	9Cr-1Mo Chrome
C 12A	A217 C12A	J84090	A182 F91	A182 F91	K90901	9Cr-1Mo-V Chrome
304	A351 CF8	J92600	A182 F304	A276 304	S30400	18Cr-8Ni
304H	A351 CF10	J92590	A182 F304H	A479 304H	S30409	18Cr-8Ni-.10C (max.)
304L	A351 CF3	J92700	A182 F304HL	A276 304L	S30403	18Cr-8Ni-.03C (max.)
316	A351 CF8M	J92900	A182 F316	A276 316	S31600	18Cr-8Ni-2Mo
316H	A351 CF10M	J92901	A182 F316H	A479 316H	S31609	18Cr-8Ni-2Mo-.10C (max.)
316L	A351 CF3M	J92800	A182 F316L	A276 316L	S31603	18Cr-8Ni-2Mo-.03C (max.)
317	A351 CG8M	J93000	A182 F317	A276 317	S31700	19Cr-13Ni-3.5Mo
317L	A351 CG3M	J92999	A182 F317L	A276 317L	S31703	19Cr-13Ni-3.5Mo-.03C (max.)
321	—	—	A182 F321	A276 321	S32100	18Cr-8Ni-Ti
321H	—	—	A182 F321H	A276 321H	S32109	18Cr-8Ni-Ti-.10C (max.)
347	A351 CF8C	J92710	A182 F347	A276 347	S34700	18Cr-8Ni-Nb
347H	—	—	A182 F347H	A276 347H	S34709	18Cr-8Ni-Nb-.10C (max.)
410	A217 CA15	J91150	A182 F6A	A276 410	S41000	13Cr-.5Mo-86Fe
Avesta 254 SMO	A351 CK3MCUN	J93254	A182 F44	A276 S31254	S31254	20Cr-18Ni-6Mo
AL6XN	A351 CN3MN	J94651	A182 F62	B462 N08367	N08367	21Cr-25Ni-6.5Mo-Cu-N
Alloy 20	A351 / 744 CN7M	N08007	A182 F20	B473 N08020	N08020	20Cr-35Ni-2.5Mo-3.5Cu
Alloy 20 (Modified)	A990 CN3MCu	J80020	—	—	—	20Cr-35Ni-2.5Mo-3.0Cu
Duplex 2205 Gr. 4A	A995 Gr. 4A CD3MN	J92205	A182 F51	A276 S32205	Forging: S31803 Bar: S32205	22Cr-5.5Ni-3Mo-N

Notes

Cooper® Cast & Forged Stainless, Nickel & Exotic Alloy Gate, Globe, Check & Ball Valves

Material Reference

Common Name	Castings		Forging	Bar	Forging / Bar	Elements
	ASTM	UNS	ASTM	ASTM	UNS	
Super Duplex 2507 Gr. 5A	A995 Gr. 5A CE3MN	J93404	A182 F53	A479 S32750	S32750	25Cr-7Ni-4Mo-N
Super Duplex Zeron 100 Gr. 6A	A995 Gr. 6A CD3MWCuN	J93380	A182 F55	A479 S32760	S32760	25Cr-7Ni-3.5Mo-N
Super Duplex Ferrallium 255 Gr. 18	A995 Gr. 1B CD4MCuN	J93372	A182 F61	A479 S32550	S32550	26Cr-6Ni-3.5Mo-Cu-N
Hastelloy® B	A494 N12MV	N30012	—	B335 N10001	Forging: — Bar: N10001	67Ni-28Mo-5Fe
Hastelloy® B2	A494 N7M	N30007	B564 N10665	B335 N10665	N10665	68Ni-31Mo-1Fe
Hastelloy® C (Modified)	A494 CW6M	N30107	—	—	—	54Ni-20Cr-20Mo-3Fe
Hastelloy® C22	A494 CX2MW	N26022	B564 N06022	B574 N06022	N06022	58Ni-21Cr-14Mo-4Fe-3W
Hastelloy® C276	A494 CW12MW	N30002	B564 N10276	B574 N10276	N10276	58Ni-16Cr-16Mo-6Fe-4W
Hastelloy® C4	A494 CW2M	N26455	—	B574 N06455	Forging: — Bar: N06455	62Ni-16Cr-16Mo-2Fe
Inconel® 600	A494 CY40	N06040	B564 N06600	B166 N06600	N06600	78Ni-15Cr-5Fe
Inconel® 625	A494 CW6MC	N26625	B564 N06625	B446 N06625	N06625	62Ni-22Cr-9Mo-3.5Nb
Incoloy® 800	A351 CT15C	N08151	B564 N08800	B408 N08800	N08800	33Ni-20Cr-45Fe-Nb
Inconel® 825	A494 CU5MCuC	N08826	B564 N08825	B425 N08825	N08825	43Ni-22Cr-3Mo-30Fe-Nb
Monel® (Weldable)	A494 M30C	N24130	—	—	—	64Ni-30Cu-2Cb-3.5Fe
Monel® 400	A494 M35-1	N24135	B564 N04400	B164 N04400	N04400	67Ni-30Cu
Monel® K500	—	—	B564 N05500	B865 N05500	N05500	64Ni-29.5Cu-2.8Al-1Fe
Nickel 200	A494 CZ100	N02100	B564 N02200	B160 N02200	N02200	97Ni
Titanium Gr. 2	B367 Gr. C2	R50400	B381 Gr. F2	B348 Gr. 2	R50400	.10C-.30Fe-.03N-99Ti
Titanium Gr. 3	B367 Gr. C3	R50550	B381 Gr. F3	B348 Gr. 3	R50550	.10C-.30Fe-.05N-99Ti
Titanium Gr. 5	B367 Gr. C5	R50550	B381 Gr. F5	B348 Gr. 5	R50550	.10C-.30Fe-.05N-99Ti
Titanium Gr. 7	B367 Gr. C7	R52400	B381 Gr. F7	B348 Gr. 7	R52400	.10C-.30Fe-.03N-.25Pd-99Ti

Notes

Our goal is to become the leading provider of mission critical oilfield products and related services in terms of customer satisfaction, safety and financial performance.

Our experienced management team and employees are dedicated to solving our customers' problems. We invest in long term relationships and cooperate on product development with our clients, we consider them our partners.

OUR CORE VALUES

Integrity: In everything we do, in every interaction, both internally and externally, we strive to operate with the upmost integrity and mutual respect.

Long-term view: We are building our company for the long-term, a company that we can be proud of.

Open communication: We believe partnerships with our customers and co-workers must be based on trust, professionalism and transparency.

Customer focused: Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

Good place to work: We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.

No one gets hurt: The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

For more information about our products and full Terms & Conditions please visit www.f-e-t.com.



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