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CATALOGUE

FORGED STEEL VALVES

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MINING | WATER & WASTEWATER | OIL & GAS | POWER GENERATION



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About NCI Canada Inc.

Headquartered in the greater Toronto area, NCI Canada Inc. is an innovative, privately owned company that specializes in the development, manufacturing and distribution of high-quality valves, fittings, strainers and gauges. With over 20 years of industry experience, NCI Canada is recognized as one of Canada's leading master distributors of high-quality valves, fittings, strainers and gauges, and are proud to service wholesale, retail and OEM customers.

All NCI Canada high-quality valves, fittings, strainers and gauges are sold and supported through its network of authorized distributors and warehouses across Canada. NCI Canada stocks over 25,000 products within 150,000 sq feet of warehouse area in both central and western Canada.

With a large selection of high-quality valves, fittings, strainers and gauges products, NCI Canada services the

commercial construction, fire protection, HVAC, irrigation, pulp & paper, mining, water & wastewater, oil & gas, and power generation industries.

Our success in the high-quality valves, fittings, strainers and gauges industry is attributed primarily to our customer-centric team of sales personnel, service engineers and trained service staff that are collectively committed to providing quality products at a service and price you will come to love.

Contact NCI Canada today and discover the many ways we can help you and your organization with your high-quality valves, fittings, strainers and gauges needs.

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3 YEAR VIEW TERMS
& CONDITIONS
WARRANTY

ISO
9001 | **CRN**

Forged Steel Valves

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Gate Valves

Series 805 (GS08TD(SW)) | Class 800 7

Globe Valves

Series 806 (SL08TD(SW)) | Class 800 8

Check Valves

Series 808 (CS08TD(SW)) | Swing | Class 800 9

Series 809 (CP08TD(SW)) | Piston/Lift | Class 800 10

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Product Features

Introduction and Features

- NCI manufactures and stocks full line of commercial forged carbon steel and stainless steel gate, globe and check valves strictly engineered and manufactured to API, ANSI, ASME, ASTM and other recognized industrial standards.
- NCI forged steel valves are built in various body materials, trim options and connection styles – offering the solution to your specific application needs in Petroleum Refineries, Chemical Process and Power Generation.
- Body materials are standardized to A105N for carbon steel, 316SSL for stainless steel and A350LF2 for low carbon steel structures.
Other ASME B16.34 materials are available upon request.
- The carbon steel and low carbon steel valves with NACE package comply with NACE MR0103 specification, and contain no copper bearing alloys.
- NCI forged steel valves come standard with Stellite#6 hard-faced seat rings with solid wedge for gate valves and renewable discs for globe and check valves.
- Designed to API602/ASME B16.34, all NCI forged steel valves come with Class 800# rating (1500# optional) with a size range from ½" thru 2", NPT or Socket Weld ends. **Other connection styles including Butt Weld or RF Flanges are also available upon special request.**



Designed and Manufactured to the Following Industry Standards

- All forged steel valves are designed to API602.
- Pressure/Temperature rating conforms to ANSI/ASME B16.34.
- NACE package are designed and manufactured to NACE MR0103.
- All valves are tested according to API598.
- Connection ends are designed and manufactured to ANSI/ASME B1.20.1 for NPT thread ends and B16.11 for Socket Weld ends.

Standard Forged Steel Valve In-Stock Items

Gate Valves, Globe Valves, Swing and Lift Check Valves are available standard in-stock with the following specifications:

- Pressure/Temperature Rating: ANSI Class 800
- Size: ½" to 2"
- End Connection: NPT x NPT, SW x SW, and NPT x SW
- Bonnet: OS&Y and Bolted
- Body Material: A105N, A182-F316L, and A350-LF2

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Body, Bonnet/Cover Materials

NCI Material Code	ASTM Specification	Nominal Designation	Recommended Service Condition
A5*	A105N	Carbon Steel	General non-corrosive water, steam, oil and gases services between -20°F(-29°C) and 800°F(425°C).
LF*	A350-LF2	Low Temp. C.S.	General non-corrosive water, steam, oil and gases services between -50°F(-46°C) and 650°F(343°C).
SL*	A182 F316L	Stainless Steel	Corrosive services, Acetic acid, calcium carbonate, calcium lactate, sea water, steam and sulfites up to 800°F(427°C).

* Standard Materials

** Other Materials available on request

Trim Specification

NCI Trim Code	API Trim #	API Nominal Trim	Seat Surface Material	Seat Surface Specification	Stem/Bushing Material	Stem/Bushing Specification	Recommended Service Applications†
05*	5	Hardfaced	Co-Cr A	—	13Cr	ASTM A276 T410/T420	High pressure and slightly erosive and corrosive services. Excellent for high pressure water and steam service.
08*	8	F6	13Cr	ASTM A182 (F6a)	—	ASTM A276 T410/T420	Universal trim for general service requiring long service life. As trim 5 for moderate pressure and more corrosive service. Steam, gas and general service.
		Hardfaced	Co-Cr A	—	—	—	
10	10	316	18Cr-8Ni	ASTM A182 (F316)	18Cr-8Ni-Mo	ASTM A276 T316	For superior resistance for liquids and gases which are corrosive to 410 Stainless Steel. Low temperature service standard for 316SS valves.
12*	12	316	18Cr-8Ni-Mo	ASTM A182 (F316)	18Cr-8Ni-Mo	ASTM A276 T316	As trim 10 but for medium pressure and more corrosive or asrative service.
		Hardfaced	Trim 5 or 5A		—	—	
14	14	Alloy 20	19Cr-29Ni	ASTM B473	19Cr-29Ni	ASTM B473	As trim 13 but for medium pressure and more corrosive service.
		Hardfaced	Trim 5 or 5A	—	—	—	

NOTE: Data provided in this chart is for informational purpose only. Always consult current API publications to verify information and trim data

† Temperatures shown may vary depending on media, pressure and service applications

* Standard Offering

* Other Materials available on request

How to Order Forged Steel Valves

1	2	3	4	5	6	7	8	9
Category	Pressure	End	Body	Bonnet	Trim	Accessories	Options	Size
G S	0 8	T D	- A 5	1	0 8	- H W	N C	0 0 5

1	CATEGORY		
GS	Gate Valve Solid Wedge	CS	Check Valve Swing
SL	Globe Valve Linear	CP	Check Valve Piston

6	TRIM DESIGN		
05	API Trim 5, Hardfaced	10	API Trim 10, 316
08	API Trim 8, F6 and Hardfaced	12(ST)	API Trim 12, 316 and Hardfaced

2	PRESSURE RATING		
08	Class 800		

7	ACCESSORIES		
HW	Handwheel	EA	Electric Actuator
PA	Pneumatic Actuator		

3	END STYLE		
SW	Socket Weld	TD	Threaded
ST	Socket Weld x Threaded		

8	SPECIAL OPTIONS		
NC	NACE for H2S Service	TF	Teflon Disc Insert
OX	Oxygen Cleaning	CC	Customized Coating

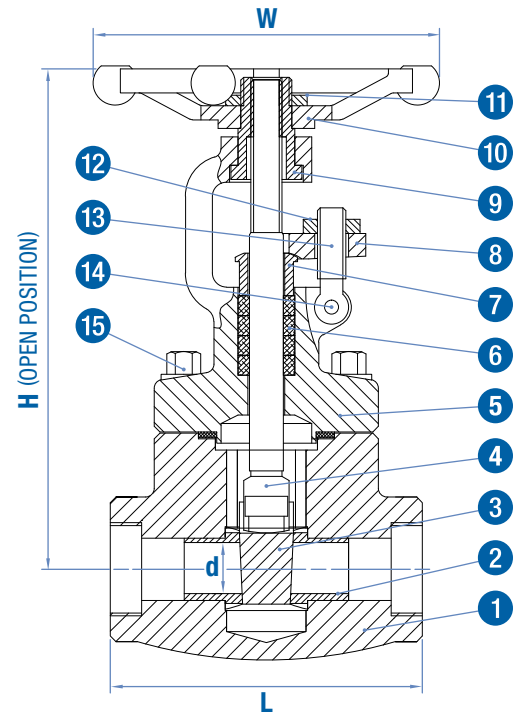
4	BODY MATERIAL		
A5	A105N	L1	LC1
LF	LF2	SL	SS 316L
LC	LCC		

9	SIZES		
001	1/4"	010	1"
003	3/8"	012	1-1/4"
005	1/2"	015	1-1/2"
007	3/4"	020	2"

5	BONNET OPTION		
1	Bolted Bonnet/Cap		

Description

- Forged Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Rising Stem / non-rising handwheel
- Bolted Bonnet
- Conventional Port
- Solid wedge and Integral Backseat
- ½"–2" Screwed (NPT) or Socket Weld (SW) ends
- Designed to API 602/ ASME B16.34
- Tested to API 598
- NPT ends conforms to ASME B1.20.1
- SW ends conforms to ASME B16.11



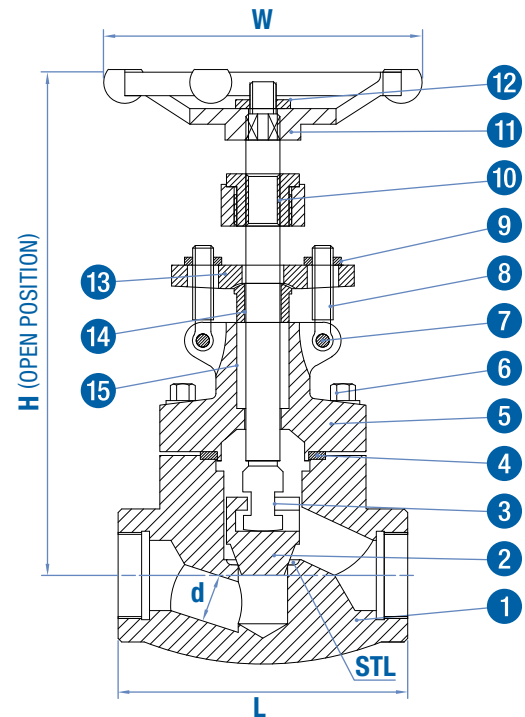
Dimensions										
Size	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
1/2"	79	3.1	100	3.9	166	6.5	10.5	0.4	2.2	4.9
3/4"	92	3.6	100	3.9	169	6.7	13.5	0.5	2.3	5.1
1"	111	4.4	125	4.9	193	7.6	18	0.7	4.1	9.0
1 1/4"	120	4.7	160	6.3	230	9.1	23	0.9	5.8	12.8
1 1/2"	120	4.7	160	6.3	246	9.7	29	1.1	7.0	15.4
2"	140	5.5	180	7.1	283	11.1	36	1.4	10.4	22.9

No.	Part Name	A105N Body		A105N Body NACE			316L SS Body NACE	LF2 Body NACE
		GS08TD(SW)-A5108HW (Trim 8)	GS08TD(SW)-A5105HW (Trim 5)	GS08TD(SW)-A5108HW-NC (Trim 8)	GS08TD(SW)-A5105HW-NC (Trim 5)	GS08TD(SW)-A5112HW-NC (Trim 12)	GS08TD(SW)-SL112HW-NC (Trim 12)	GS08TD(SW)-LF112(ST)HW-NC (Trim 12)
1	Body	A105N	A105N	A105N	A105N	A105N	316L	A350-LF2
2	Seat	A182-F6a+STL	A182-F6a+STL	A182-F6a+STL	A182-F6a+STL	A182-F6a+STL	316+STL	316+STL
3	Wedge	A182-F6a	A182-F6a+STL	A182-F6a	A182-F6a+STL	316	316	316
4	Stem	A182-F6a	A182-F6a	A182-F6a	A182-F6a	316	316	316
5	Bonnet	A105N	A105N	A105N	A105N	A105N	316L	A350-LF2
6	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
7	Gland	A276-410	A276-410	A276-410	A276-410	A276-410	A276-316	A276-410
8	Gland Flange	A105	A105	A105	A105	A105	316	A105
9	Stem Nut	A108-1045	A108-1045	A108-1045	A108-1045	A108-1045	A276-410	A108-1045
10	Handwheel	QT400	QT400	QT400	QT400	QT400	QT400	QT400
11	Lock Nut	A194-2H	A194-2H	A194-2H	A194-2H	A194-2H	A194-8M	A194-4M
12	Nut	A194-2H	A194-2H	A194-2HM	A194-2HM	A194-2HM	A194-8M	A194-4M
13	Bolt	A193-B7	A193-B7	A193-B7M	A193-B7M	A193-B7M	A193-B8M	A320-L7M
14	Pin	A276-410	A276-410	A276-410	A276-410	A276-410	A276-304	A276-410
15	Bonnet Bolt	A193-B7	A193-B7	A193-B7M	A193-B7M	A193-B7M	A193-B8M	A320-L7M

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Description

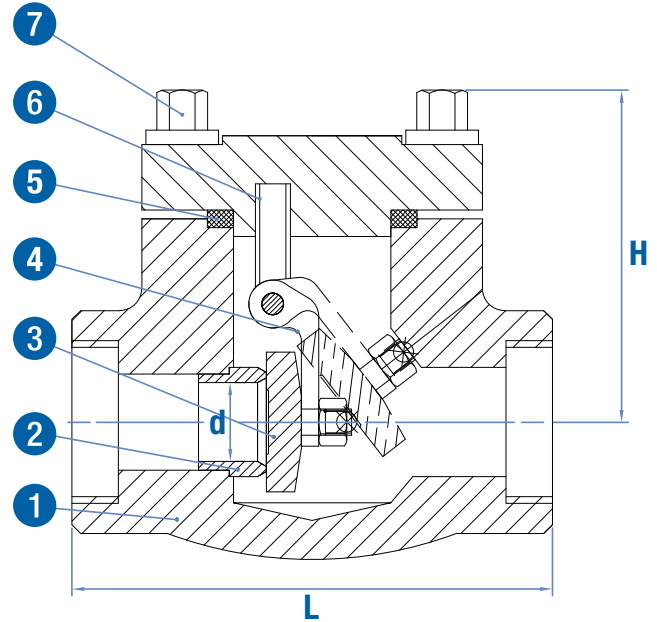
- Forged Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Rising Stem
- Bolted Bonnet
- Conventional Port
- Solid wedge and Integral Backseat
- ½"–2" Screwed (NPT) or Socket Weld (SW) ends
- Designed to API 602/ ASME B16.34
- Tested to API 598
- NPT ends conforms to ASME B1.20.1
- SW ends conforms to ASME B16.11



Dimensions										
Size	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
1/2"	79	3.1	100	3.9	166	6.5	10.3	0.4	2.2	4.9
3/4"	92	3.6	100	3.9	175	6.9	12.7	0.5	2.4	5.3
1"	111	4.4	125	4.9	206	8.1	17	0.7	4.1	9.0
1¼"	120	4.7	160	6.3	228	9.0	23	0.9	5.8	12.8
1½"	152	6.0	160	6.3	262	10.3	28	1.1	7.8	17.2
2"	172	6.8	180	7.1	300	11.8	36	1.4	12.1	26.7

No.	Part Name	A105N Body		A105N Body NACE			316L SS Body NACE	LF2 Body NACE
		SL08TD(SW)-A5108HW (Trim 8)	SL08TD(SW)-A5105HW (Trim 5)	SL08TD(SW)-A5108HW-NC (Trim 8)	SL08TD(SW)-A5105HW-NC (Trim 5)	SL08TD(SW)-A5112HW-NC (Trim 12)	SL08TD(SW)-SL112HW-NC (Trim 12)	SL08TD(SW)-LF112(ST)HW-NC (Trim 12)
1	Body / Seat	A105N / STL	A105N / STL	A105N / STL	A105N / STL	A105N / STL	316L / STL	A350-LF2 / STL
2	Disc	A182-F6a	A182-F6a+STL	A182-F6a	A182-F6a+STL	316	316	316
3	Stem	A182-F6a	A182-F6a	A182-F6a	A182-F6a	316	316	316
4	Gasket	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite
5	Bonnet	A105N	A105N	A105N	A105N	A105N	316L	A350-LF2
6	Bonnet bolt	A193-B7	A193-B7	A193-B7M	A193-B7M	A193-B7M	A193-B8M	A320-L7M
7	Pin	A276-410	A276-410	A276-410	A276-410	A276-410	A276-304	A276-410
8	Bolt	A193-B7	A193-B7	A193-B7M	A193-B7M	A193-B7M	A193-B8M	A320-L7M
9	Nut	A194-2H	A194-2H	A194-2HM	A194-2HM	A194-2HM	A194-8M	A194-4M
10	Stem nut	A108-1045	A108-1045	A108-1045	A108-1045	A108-1045	A276-410	A108-1045
11	Handwheel	QT400	QT400	QT400	QT400	QT400	QT400	QT400
12	Lock nut	A194-2H	A194-2H	A194-2H	A194-2H	A194-2H	A194-8	A194-2HM
13	Gland Flange	A105	A105	A105	A105	A105	316	A105
14	Gland	A276-410	A276-410	A276-410	A276-410	A276-410	A276-316	A276-410
15	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

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Description

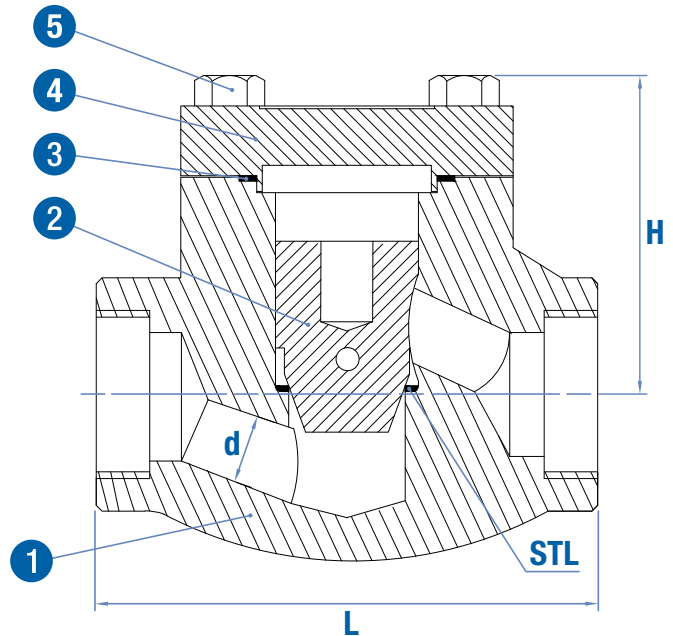
- Carbon or Stainless Steel Body and Cap
- Bolted Cap
- Conventional Port
- ½"–2" Screwed (NPT) or Socket Weld (SW) ends
- Designed to API 602 / ASME B16.34
- Tested to API 598
- NPT ends conforms to ASME B1.20.1
- SW ends conforms to ASME B16.11

Dimensions

Size	L		H		d		Weight	
	mm	in	mm	in	mm	in	kg	lbs
1/2"	79	3.1	62	2.4	10.5	0.4	1.6	3.5
3/4"	92	3.6	65	2.6	13.5	0.5	1.8	4.0
1"	111	4.4	78	3.1	18	0.7	2.8	6.2
1¼"	120	4.7	85	3.3	23	0.9	3.9	8.6
1½"	120	4.7	105	4.1	29	1.1	4.6	10.1
2"	140	5.5	120	4.7	36	1.4	7.0	15.4

No.	Part Name	A105N Body		A105N Body NACE			316L SS Body NACE	LF2 Body NACE
		CS08TD(SW)-A5108 (Trim 8)	CS08TD(SW)-A5105 (Trim 5)	CS08TD(SW)-A5108-NC (Trim 8)	CS08TD(SW)-A5105-NC (Trim 5)	CS08TD(SW)-A5112-NC (Trim 12)	CS08TD(SW)-SL112-NC (Trim 12)	CS08TD(SW)-LF112-NC (Trim 12)
1	Body	A105N	A105N	A105N	A105N	A105N	316L	A350-LF2
2	Seat	A182-F6a+STL	A182-F6a+STL	A182-F6a+STL	A182-F6a+STL	316	316+STL	316+STL
3	Disc	A182-F6a	A182-F6a+STL	A182-F6a	A182-F6a+STL	A182-F6a+STL	316	316
4	Rocker	304	304	304	304	316	316	304
5	Gasket	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite
6	Cap Bolt	A193-B7	A193-B7	A193-B7M	A193-B7M	A193-B7M	A193-B8M	A320 L7M
7	Cap	A105N	A105N	A105N	A105N	A105N	A276-316L	A350-LF2

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Description

- Carbon or Stainless Steel Body and Cap
- Bolted Cap
- Conventional Port
- ½"–2" Screwed (NPT) or Socket Weld (SW) ends
- Designed to API 602 / ASME B16.34
- Tested to API 598
- NPT ends conforms to ASME B1.20.1
- SW ends conforms to ASME B16.11

Dimensions								
Size	L		H		d		Weight	
	mm	in	mm	in	mm	in	kg	lbs
1/2"	79	3.1	62	2.4	10.3	0.4	1.6	3.5
3/4"	92	3.6	65	2.6	12.7	0.5	1.8	4.0
1"	111	4.4	78	3.1	17	0.7	3.1	6.8
1¼"	120	4.7	82	3.2	23	0.9	4.2	9.3
1½"	152	6.0	102	4.0	28	1.1	6.4	14.1
2	172	6.8	120	4.7	36	1.4	10.0	22.0

No.	Part Name	A105N Body		A105N Body NACE			316L SS Body NACE	LF2 Body NACE
		CP08TD(SW)-A5108 (Trim 8)	CP08TD(SW)-A5105 (Trim 5)	CP08TD(SW)-A5108-NC (Trim 8)	CP08TD(SW)-A5105-NC (Trim 5)	CP08TD(SW)-A5112-NC (Trim 12)	CP08TD(SW)-SL112-NC (Trim 12)	CP08TD(SW)-LF112-NC (Trim 12)
1	Body / Seat	A105N / STL	A105N / STL	A105N / STL	A105N / STL	A105N / STL	316L / STL	A350-LF2 / STL
2	Disc	A182-F6a	A182-F6a+STL	A182-F6a	A182-F6a+STL	316	316	316
3	Gasket	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite
4	Cap	A105N	A105N	A105N	A105N	A105N	316L	A350 LF2
5	Cap Bolt	A193-B7	A193-B7	A193-B7M	A193-B7M	A193-B7M	A193-B8M	A320-L7M

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Pressure - Temperature Ratings for Class 800 Forged Steel Valves

Service Temperature		Maximum Working Pressure (PSIG)											
		A105 (A)(B) A350-LF (A)		A182-F11 (F)(I)		A182-F22 (I)		A182 F304 (J)		A182 F316 (J)		A182 F304L (K) A182 F316L	
		PSIG	MPA	PSIG	MPA	PSIG	MPA	PSIG	MPA	PSIG	MPA	PSIG	MPA
-20 to 100	-29 to 38	1975	13.62	2000	13.79	2000	13.79	1920	13.24	1920	13.24	1600	11.03
200	50	1810	13.37	2000	13.79	2000	13.79	1600	12.75	1655	12.83	1365	10.67
300	100	1745	12.43	1925	13.73	1940	13.74	1435	10.90	1495	11.25	1215	9.28
400	150	1690	12.02	1850	13.26	1880	13.38	1325	9.87	1370	10.27	1120	8.37
500	200	1610	11.68	1775	12.79	1775	12.96	1240	9.19	1275	9.51	1050	7.78
600	250	1515	11.18	1615	12.36	1615	12.36	1180	8.67	1205	8.90	990	7.32
650	300	1465	10.62	1570	11.43	1570	11.43	1150	8.24	1180	8.43	975	6.95
700	325	1415	10.32	1515	11.02	1515	11.02	1125	8.06	1160	8.24	960	6.79
750	350	1350	10.02	1420	10.73	1420	10.73	1100	7.90	1140	8.09	940	6.68
800	375	1100	9.70	1355	10.35	1355	10.35	1080	7.74	1125	7.97	920	6.60
850	400	850	9.26	1300	9.76	1300	9.76	1055	7.58	1115	7.85	900	6.48
900	425	615	7.67	1200	9.34	1200	9.34	1035	7.47	1105	7.77	—	6.36
950	450	365	6.13	850	9.02	1025	9.02	1020	7.31	1030	7.69	—	6.24
1000	475	225	4.65	575	8.45	710	8.45	945	7.18	970	7.64	—	—
1050	500	—	3.14	385	6.86	466	7.53	865	7.07	960	7.53	—	—
1100	538	—	1.57	255	3.97	295	4.92	685	6.52	815	6.68	—	—
1150	550	—	—	175	3.39	180	4.17	545	6.28	630	6.65	—	—
1200	575	—	—	110	2.35	110	2.81	440	5.56	495	6.38	—	—
1250	600	—	—	—	1.63	—	1.84	355	4.50	390	5.31	—	—
1300	625	—	—	—	1.14	—	1.19	300	3.68	310	4.21	—	—
1350	650	—	—	—	0.76	—	0.76	250	3.00	255	3.38	—	—
1400	675	—	—	—	—	—	—	200	2.49	200	2.75	—	—
1450	700	—	—	—	—	—	—	155	2.14	155	2.23	—	—
1500	725	—	—	—	—	—	—	110	1.80	110	1.87	—	—
—	750	—	—	—	—	—	—	—	1.54	—	1.56	—	—
—	775	—	—	—	—	—	—	—	1.21	—	1.21	—	—
—	800	—	—	—	—	—	—	—	0.93	—	0.93	—	—

NOTE: In accordance with API 602, the Pressure/Temperature ratings for Intermediate Class 800, the linear interpolation of Standard Class 600 and Standard Class 900 pressure/temperature ratings listed in ASME B16.34. ASME Boiler and Pressure Vessel Code Section II materials that also meet the requirements of the listed ASTM specification may also be used.

(A) Permissible, but not recommended for prolonged usage above 800 °F (425°C)

(B) Only killed steel shall be used above 850 °F (455°C)

(F) Use normalized and tempered material only

(I) Permissible, but not recommended for prolonged use above 1100 °F (595°C)

(J) At temperature over 1000°F (538°C), use only when carbon content is 0.04% or higher

(K) Not to be used over 800 °F (425°C)

Flow Coefficients (Cv / Kv)

Size	Gate Valve		Globe Valve		Swing Check Valve		Piston Check Valve	
	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv
1/2"	4.2	3.6	1.5	1.3	4.7	4.1	1.4	1.2
3/4"	8.9	7.7	2.7	2.3	8.1	7.0	2.1	1.8
1"	21.5	18.6	5.1	4.4	14.4	12.5	3.9	3.4
1¼"	24.9	21.5	11.2	9.7	32.1	27.8	7.8	6.7
1½"	55.5	48.0	16.5	14.3	35.6	30.8	12.5	10.8
2"	85.4	73.8	27.3	23.6	53.1	45.9	19.1	16.5

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- Schedule 40 Welded Steel Nipples
- Bronze Fittings and Brass Nipples
- Weld Outlets



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- Double Door and Silent Check valves
- Y-Strainers and Basket Strainers



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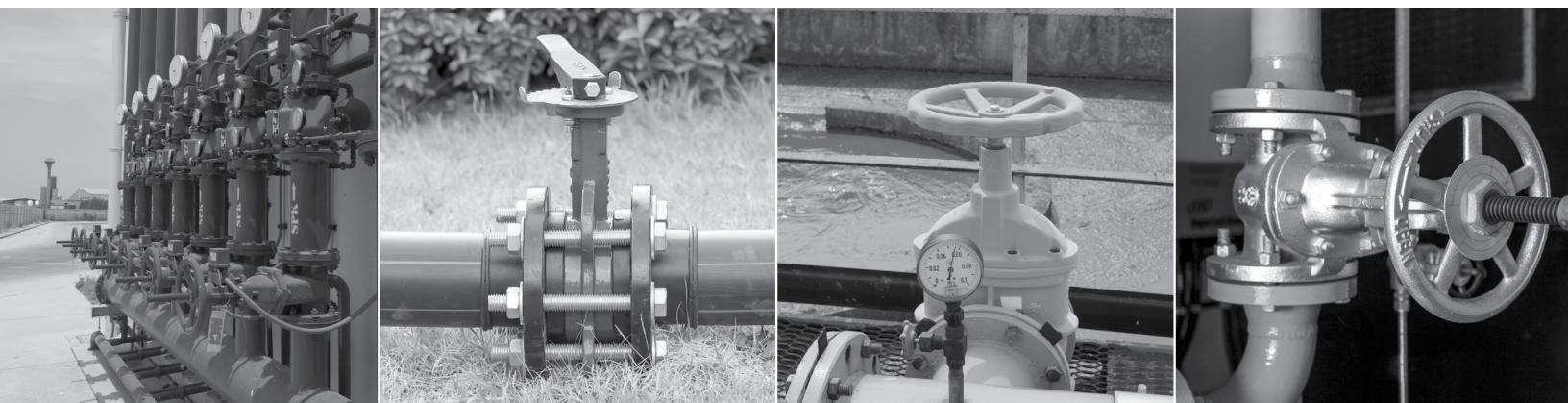
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