

**150 TO 1500-POUND BOLTED BONNET
LARGE CARBON AND ALLOY CAST STEEL VALVES**
Gate...Globe...Angle...Swing Check...Stop-Check
With Standard and Special Trims or Facings

**CATALOG NO. 60
PRICE
SCHEDULE
66-LSV-2
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CRANE

VALVES • PUMPS • FITTINGS • WATER TREATMENT • PLUMBING • HEATING • AIR CONDITIONING
4100 South Kedzie Avenue, Chicago, Illinois 60632

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N O T E S

Catalog numbers listed above with suffix letters are "basic numbers". The complete number will require letter suffixes indicating the trim material, etc., as explained on the facing page.

Basic numbers prefixed "BB" indicate Crane "Flex Gate" (flexible wedge disc) Valves for block and bleed service.

*Asterisks identify Crane 150 and 300-Pound Gate Valves available with solid wedge disc (page 2) or flexible wedge disc (page 3).

MATERIAL SPECIFICATIONS

BODY, BONNET, AND CAP MATERIAL

CRANE DESIGNATION	ASTM SPECIFICATION	MATERIAL CLASSIFICATION
CARBON STEEL	A216—WCB	Carbon Steel
NO. 5 STEEL	A217—C5	5% Chromium— $\frac{1}{2}$ % Molybdenum
NO. 7 STEEL	A217—WC6	$1\frac{1}{4}$ % Chromium— $\frac{1}{2}$ % Molybdenum
"LCB" STEEL	A352—LCB	Carbon Steel—Low Temperature
NO. 3 STEEL	A352—LC2	$2\frac{1}{2}$ % Nickel Steel—Low Temperature
"ARCTIC" STEEL*	A352—LC3	$3\frac{1}{2}$ % Nickel Steel—Low Temperature

*Crane trademark "Arctic" registered in U. S. Patent Office. "Arctic" Steel Valves are priced on application.

TRIM MATERIAL (Disc and/or Seat)

Not all trim materials are regularly available with all body-bonnet (or cap) materials. Pages 2 through 9 indicate prices for regular body-trim combinations: trims not listed are priced on request.

CRANE TRIM CLASS	CAT. NO. SUFFIX†	CRANE DESIGNATION	MATERIAL CLASSIFICATION
STANDARD	X	Exelloy‡	13% Chromium Stainless Steel
	XR	Exelloy‡ to No. 49 Nickel Alloy	13% Chromium Stainless Steel to Nickel Copper Alloy
	H	Bronze	Bronze
SPECIAL	L	18-8 SMO‡	18% Chromium—8% Nickel— $2\frac{1}{2}$ % Moly.
	A	Monel	Monel
STELLITE	U	Stellite	Cobalt—Chromium—Tungsten Alloy
½ STELLITE	XU	Exelloy‡ to Stellite	13% Chromium Stainless Steel to Cobalt—Chromium—Tungsten Alloy
TEFLON	X-TF	Exelloy‡ to Teflon	13% Chromium Stainless Steel to Teflon Insert in Seat Ring

†Suffix: Suffix symbols are used in conjunction with basic catalog numbers (see pages 2 to 8) to denote type of trim.

‡AISI Types: Crane Exelloy (X) is an AISI Type 410, and Crane 18-8 SMO (L) an AISI Type 316, stainless steel.

¼Half Stellite: Trim designated "Half Stellite" includes Crane Exelloy as the other half of the seating combination.

STEM MATERIAL

Valves having "Special Trim" are regularly furnished with a stem of the same material as the trim. Valves with trim other than "Special" have a stem of Crane Exelloy, except that "H" trimmed valves have a bronze stem . . . and all valves having a "No. 3" body, regardless of a trim specified, have an AISI Type C4142 Steel stem, oil-quenched and drawn.

STEM HOLE BUSHING MATERIAL

Valves having "H", "L", or "A" trim have a stem hole bushing of the same material as the trim. With all other trims, the stem hole bushing is Crane Exelloy.

HOW TO SPECIFY COMPLETE CATALOG NUMBERS

Pages in this Schedule list the basic catalog numbers of valves. The complete catalog number should include the letter suffix (such as "X", "XR", "H", etc.) that designates the trim material. In addition, the letter suffix "F" should be included when 150 and 300-pound gate valves are desired with a flexible wedge disc instead of a solid disc.

For example, the basic catalog number of a 300-pound flanged end gate valve (as listed on page 2) is No. 33. If this valve is desired with "X" trim and a solid disc, specify "No. 33 X". . . if desired with "X" trim and a flexible disc (page 3), specify "No. 33 X-F". To order a flexible disc gate valve (page 3) for block and bleed service, the catalog number should be prefixed "BB" . . . for example, "No. BB-33 X-F".

150 AND 300-POUND CAST STEEL SOLID WEDGE GATE VALVES

Outside Screw & Yoke—Bolted Bonnet—Solid Wedge Disc

BASIC CATALOG NUMBERS AND SIZES REGULARLY FURNISHED:

150-POUND...No. 46.....Screwed.....2, 2½, 3, 4"
 No. 47.....Flanged.....all sizes
 No. 47½.....Butt-weld.....all except 3½"

300-POUND...No. 32.....Screwed.....2, 2½, 3, 4"
 No. 33.....Flanged.....all sizes
 No. 33½.....Butt-weld.....all except 1½"

VALVE SIZE	CARBON STEEL (WCB) BODY & BONNET WITH SOLID DISC					No. 7 or "LCB" ALLOY STEEL BODY & BONNET WITH SOLID DISC				No. 3 ALLOY STEEL BODY & BONNET WITH SOLID DISC				No. 5 ALLOY STEEL BODY & BONNET WITH SOLID DISC			
	X, XR, or H Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	Exelloy to Teflon X-TF Trim	X or XR Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	L Trim	Stellite U Trim	Half Stellite XU Trim

150-POUND SOLID WEDGE GATE....Without By-Pass

2	\$ 129 †	\$ 182	\$ 180	\$ 135	\$ 206	\$212 †	\$ 232	\$ 262	\$ 212	\$ 230 †	\$ 253	\$ 282	\$ 230	\$227 †	\$ 250	\$ 277	\$ 227
2½	163 †	231	226	171	...	270 †	297	330	270	292 †	319	355	290	288 †	317	350	288
3	177	250	316	251	262	292	322	439	365	317	347	470	394	314	343	460	386
3½	231	328	421	331	...	372	409	568	471	403	441	607	506	398	438	594	497
4	231	328	421	331	334	372	409	568	471	403	441	607	506	398	438	594	497
5	364	515	648	516	...	585	645	881	733	634	699	942	788	629	690	923	776
6	364	515	648	516	516	585	645	881	733	634	699	942	788	629	690	923	776
8	571	806	959	778	793	923	1012	1317	1118	887	1096	1411	1205	988	1085	1382	1184
10	827	1168	1316	1090	1137	1333	1464	1827	1580	1442	1585	1958	1701	1428	1569	1922	1673
12	1073	1517	1662	1394	1487	1729	1901	2321	2025	1872	2058	2489	2181	1854	2036	2444	2149
14	1768	2499	2543	2198	...	2705	2974	3425	3065	POA	POA	POA	POA	POA	POA	POA	POA
16	2413	3410	3321	2925	...	3689	4058	4517	4104	POA	POA	POA	POA	POA	POA	POA	POA
18	2935	4149	3967	3519	...	4489	4938	5420	4953	POA	POA	POA	POA	POA	POA	POA	POA
20	3740	5289	4905	4421	...	5721	6293	6752	6236	POA	POA	POA	POA	POA	POA	POA	POA
24	5606	7927	7083	6475	...	8575	9430	9833	9205	POA	POA	POA	POA	POA	POA	POA	POA

150-POUND SOLID WEDGE GATE....With By-Pass

12	1353	1828	1992	1687	1781	2180	2412	2811	2476	2362	2567	3022	2670	2336	2540	2967	2632
14	2121	2894	2961	2567	...	3245	3540	4016	3606	POA	POA	POA	POA	POA	POA	POA	POA
16	2766	3806	3740	3295	...	4231	4624	5108	4644	POA	POA	POA	POA	POA	POA	POA	POA
18	3358	4627	4477	3966	...	5138	5621	6137	5602	POA	POA	POA	POA	POA	POA	POA	POA
20	4163	5767	5414	4855	...	6369	6976	7467	6884	POA	POA	POA	POA	POA	POA	POA	POA
24	6148	8440	7736	7043	...	9404	10309	10757	10033	POA	POA	POA	POA	POA	POA	POA	POA

300-POUND SOLID WEDGE GATE....Without By-Pass

1½	163 †	231	204	171	...	270 †	297	305	270	292 †	319	330	292	288 †	317	326	288
2	182 †	257	235	190	270	300 †	330	351	300	326 †	356	378	326	323 †	353	372	323
2½	218 †	309	284	229	...	360 †	396	422	360	389 †	428	454	389	383 †	424	448	383
3	255	361	398	332	351	421	462	568	495	455	499	608	532	450	496	597	524
4	337	476	531	442	453	543	597	739	641	587	648	793	691	582	641	778	681
5	604	853	900	766	...	971	1069	1267	1118	1053	1157	1360	1206	1042	1144	1335	1188
6	604	853	900	766	779	971	1069	1267	1118	1053	1157	1360	1206	1042	1144	1335	1188
8	838	1184	1238	1058	1091	1351	1484	1746	1548	1460	1607	1874	1668	1447	1590	1841	1643
10	1261	1782	1771	1546	1619	2032	2234	2527	2280	2201	2420	2717	2457	2177	2395	2671	2424
12	1724	2439	2345	2076	2206	2779	3056	3372	3073	3009	3308	3627	3318	2977	3273	3567	3271
14	2852	4034	3678	3333	...	4363	4796	5083	4721	POA	POA	POA	POA	POA	POA	POA	POA
16	3906	5523	4887	4488	...	5976	6573	6802	6389	POA	POA	POA	POA	POA	POA	POA	POA
18	4793	6782	5915	5469	...	7334	8067	8264	7800	POA	POA	POA	POA	POA	POA	POA	POA
20	6600	9335	7901	7409	...	10098	11106	11124	10612	POA	POA	POA	POA	POA	POA	POA	POA
24	9490	13423	11150	10547	...	14518	15970	15777	15148	POA	POA	POA	POA	POA	POA	POA	POA

300-POUND SOLID WEDGE GATE....With By-Pass

5	844	1119	1179	1020	...	1360	1472	1683	1508	1473	1594	1812	1626	1458	1576	1781	1605
6	844	1119	1179	1020	1032	1360	1472	1683	1508	1473	1594	1812	1626	1458	1576	1781	1605
8	1078	1450	1517	1310	1344	1738	1887	2164	1936	1882	2042	2327	2088	1861	2021	2287	2060
10	1541	2093	2100	1840	1912	2483	2706	3016	3127	2690	2929	3246	2948	2661	2899	3193	2907
12	2004	2749	2674	2369	2500	3230	3524	3860	3524	3497	3817	4156	3806	3460	3776	4091	3755
14	3205	4424	4098	3703	...	4902	5361	5687	5262	POA	POA	POA	POA	POA	POA	POA	POA
16	4259	5918	5304	4860	...	6514	7138	7392	6929	POA	POA	POA	POA	POA	POA	POA	POA
18	5219	7258	6425	5914	...	7983	8751	8982	8447	POA	POA	POA	POA	POA	POA	POA	POA
20	7026	9812	8412	7852	...	10745	11789	11843	11260	POA	POA	POA	POA	POA	POA	POA	POA
24	10034	14037	11809	11116	...	15350	16845	16701	15979	POA	POA	POA	POA	POA	POA	POA	POA

†Trim for valves in sizes 2½-inch and smaller will be half Stellite (XU) instead of "X", "XR", or, "H".

Flanged valves: Prices apply to valves having regular facings. For description of regular and special facings, as well as extra charges for special facings, see page 9.

Butt-welding valves: Sizes 12-inch and smaller are regularly bored to match inside diameter of Standard pipe (heaviest weight on 8, 10, and 12"). For larger sizes, specify diameter of bore (I. D. of pipe).

150 AND 300-POUND CAST STEEL "FLEX GATE" VALVES

Outside Screw & Yoke—Bolted Bonnet—Flexible Wedge Disc

BASIC CATALOG NUMBERS AND SIZES REGULARLY FURNISHED:

(Basic numbers should be prefixed "BB" when valves are ordered for "block and bleed" service)

150-POUND...No. 46.....Screwed.....2, 2½, 3, 4"
 No. 47.....Flanged.....all sizes
 No. 47½.....Butt-weld.....all except 3½"

300-POUND...No. 32.....Screwed.....2, 2½, 3, 4"
 No. 33.....Flanged.....all sizes
 No. 33½.....Butt-weld.....all sizes

VALVE SIZE	PRICE PER VALVE WITH			IF VALVES ARE SPECIFIED FOR "BLOCK & BLEED" SERVICE,						TAPPING OR SOCKET DRAIN SIZES		
	CARBON STEEL (WCB) BODY & BONNET AND FLEXIBLE WEDGE DISC			ADD PER VALVE FOR LOCATION "G" TAPPING*			ADD PER VALVE FOR LOCATION "H" TAPPING*			FOR BLOCK & BLEED SERVICE		
	X-F or XR-F Trim	Stellite U-F Trim	Exelloy to Teflon Insert X-F-TF Trim	SCREWED END VALVES		FLANGED OR BUTT-WELD	ALL VALVES	MSS SP-45 Drain Size	Maximum Size with Boss	Maximum Size without Boss		
				With Boss and with MSS SP-45 Tapping or Smaller	W/o Boss and with Tapping Smaller than MSS SP-45						With Boss and with MSS SP-45 Tapping or Smaller	With Boss and with MSS SP-45 Tapping or Smaller**
Inches												
150-POUND "FLEX GATE"....Without By-Pass												
2	\$ 135 †	POA	\$ 211	\$ 34.00	...	\$ 11.40	\$ 34.00	...	½"	½"	...	
2½	172 †	POA	...	34.00	\$ 9.20	11.40	34.00	\$ 9.00	½"	½"	¼"	
3	186	POA	272	34.00	10.40	11.40	34.00	10.40	½"	½"	¾"	
3½	243	POA	...	...	...	11.40	34.00	10.40	½"	½"	¾"	
4	243	POA	347	34.00	34.00	11.40	34.00	10.40	½"	½"	¾"	
5	382	POA	...	...	...	13.60	38.80	10.40	¾"	¾"	¾"	
6	382	POA	536	...	...	13.60	38.80	10.40	¾"	¾"	¾"	
8	601	POA	824	...	...	13.60	38.80	10.40	¾"	¾"	¾"	
10	868	POA	1180	...	...	16.00	45.60	11.40	1"	1"	½"	
12	1127	POA	1543	...	...	16.00	45.60	13.60	1"	1"	¾"	
150-POUND "FLEX GATE"....With By-Pass												
12	1408	POA	1838	...	...	16.00	45.60	13.60	1"	1"	¾"	
300-POUND "FLEX GATE"....Without By-Pass												
2	192 †	POA	278	34.00	...	11.40	34.00	...	½"	½"	...	
2½	229 †	POA	...	34.00	9.20	11.40	34.00	9.00	½"	½"	¼"	
3	269	POA	365	34.00	9.20	11.40	34.00	10.40	½"	½"	¾"	
4	355	POA	472	34.00	34.00	11.40	34.00	10.40	½"	½"	¾"	
5	633	POA	...	...	...	13.60	38.80	11.40	¾"	¾"	½"	
6	633	POA	811	...	...	13.60	38.80	13.60	**¾"	¾**	¾"	
8	879	POA	1136	...	...	13.60	38.80	13.60	**¾"	¾**	¾"	
10	1324	POA	1685	...	...	16.00	45.60	16.00	**1"	1**	1"	
12	1809	POA	2296	...	...	16.00	45.60	16.00	**1"	1**	1"	
300-POUND "FLEX GATE"....With By-Pass												
5	875	POA	...	...	...	13.60	38.80	11.40	¾"	¾"	½"	
6	875	POA	1063	...	...	13.60	38.80	13.60	**¾"	¾**	¾"	
8	1120	POA	1388	...	...	13.60	38.80	13.60	**¾"	¾**	¾"	
10	1605	POA	1980	...	...	16.00	45.60	16.00	**1"	1**	1"	
12	2091	POA	2588	...	...	16.00	45.60	16.00	**1"	1**	1"	

Flanged and butt-welding valves: Facings and borings, respectively, are the same as for solid wedge gate valves; see page 2.

"Block and bleed" service: As indicated in the table, any Crane "Flex Gate" Valve can be furnished suitable for block and bleed service. Such valves will be provided with a drilled, tapped, and plugged drain (or welding socket if specified) at either or both Location "G" (bottom of body) or Location "H" (side of bonnet), as ordered. When ordering specify the drain location (the letter "G" and/or "H"), the tapping or socket size required, and whether with or without boss.

Catalog numbers: Specify the basic number and the appropriate letter suffix for the trim. For "block and bleed" valves, include the prefix

"BB"; for example, to order a No. 47 Flex-Gate Valve with "X-F-TF" (Teflon) trim for block and bleed service, specify "No. BB-47 X-F-TF".

NOTES:

†—Trim for 2 and 2½-inch valves will be half-Stellite (XU-F) instead of "X-F" or "XR-F".

‡—Flanged and butt-welding valves regularly have a boss at Location "G".

*—Welding socket furnished instead of tapping if specified.

**—The 300-pound valves 6-inch and larger do not require a boss to accommodate the maximum tapping or socket (or MSS SP-45) drain size AT LOCATION "H".

150 AND 300-POUND CAST STEEL VENTURI SOLID WEDGE GATE VALVES

Outside Screw & Yoke—Bolted Bonnet—Solid Wedge Disc—Venturi Flanged Ends

VALVE CLASS	VALVE CATALOG NO. AND ENDS	3 x 2 x 3"	4 x 3 x 4"	6 x 4 x 6"	8 x 6 x 8"	10 x 8 x 10"	12 x 8 x 12"
150-Pound	No. 49 X or 49 XR, Flanged (Venturi)	POA	POA	POA	POA	POA	POA
300-Pound	No. 35 X or 35 XR, Flanged (Venturi)	POA	POA	POA	POA	POA	POA

400 AND 600-POUND CAST STEEL GATE VALVES

Outside Screw & Yoke — Bolted Bonnet — Solid Wedge Disc

BASIC CATALOG NUMBERS AND SIZES REGULARLY FURNISHED:

400-POUND...No. 61.....Flanged.....all sizes
 No. 61 1/2.....Butt-weld.....all sizes

600-POUND...No. 76.....Flanged.....all sizes
 No. 76 1/2.....Butt-weld.....all except 3 1/2"

VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET				No. 7 or "LCB" ALLOY STEEL BODY & BONNET				No. 3 ALLOY STEEL BODY & BONNET				No. 5 ALLOY STEEL BODY & BONNET			
	X or XR Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X or XR Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	L Trim	Stellite U Trim	Half Stellite XU Trim
400-POUND GATE... Without By-Pass																
4	\$528	\$ 745	\$ 713	\$ 633	\$ 849	\$ 934	\$1026	\$ 938	\$ 921	\$1012	\$1104	\$1012	\$ 910	\$ 1002	\$ 1087	\$ 1000
5	1047	1480	1338	1214	1685	1852	1949	1818	1825	2009	2101	1962	1806	1986	2069	1938
6	1047	1480	1338	1214	1685	1852	1949	1818	1825	2009	2101	1962	1806	1986	2069	1938
8	1725	2439	2130	1969	2779	3056	3135	2956	3009	3309	3381	3194	2977	3276	3334	3156
10	2606	3685	3165	2947	3909	4300	4354	4133	4234	4656	4699	4466	4189	4608	4633	4401
12	3513	4970	4201	3941	5273	5800	5806	5536	5709	6280	6267	5987	5650	6215	6182	5916
14	5993	8477	6903	6586	9167	10084	9818	9494	POA	POA	POA	POA	POA	POA	POA	POA
16	7434	10545	8503	8148	11373	12511	12120	11746	POA	POA	POA	POA	POA	POA	POA	POA
400-POUND GATE... With By-Pass																
5	1328	1788	1657	1513	2141	2321	2431	2269	2317	2514	2564	2455	2294	2487	2585	2427
6	1328	1788	1657	1513	2141	2321	2431	2269	2317	2514	2564	2455	2294	2487	2585	2427
8	2007	2746	2451	2266	3233	3524	3616	3411	3501	3814	3903	3687	3464	3774	3848	3642
10	2995	4109	3606	3354	4492	4902	4972	4716	4865	5305	5366	5099	4814	5250	5292	5037
12	3903	5393	4642	4349	5856	6400	6424	6122	6342	6930	6933	6620	6274	6856	6841	6542
14	6417	8941	7390	7036	9863	10755	10511	10140	POA	POA	POA	POA	POA	POA	POA	POA
16	7858	10979	8990	8590	12022	13184	12812	12393	POA	POA	POA	POA	POA	POA	POA	POA
600-POUND GATE... Without By-Pass																
2	257	363	359	314	422	464	524	473	458	505	563	509	452	498	554	504
2 1/2	309	437	432	377	509	559	631	570	551	606	680	611	545	600	668	606
3	381	539	530	465	629	691	777	702	681	748	835	758	674	741	821	748
3 1/2	586	827	791	703	943	1037	1140	1042	1022	1123	1228	1123	1011	1112	1207	1110
4	586	827	791	703	943	1037	1140	1042	1022	1123	1228	1123	1011	1112	1207	1110
5	1161	1642	1485	1351	1872	2058	2166	2020	2026	2230	2334	2179	2006	2206	2299	2153
6	1161	1642	1485	1351	1872	2058	2166	2020	2026	2230	2334	2179	2006	2206	2299	2153
8	1915	2705	2366	2188	3087	3395	3483	3284	3342	3676	3755	3549	3307	3639	3704	3506
10	2895	4094	3516	3274	4344	4777	4838	4590	4704	5172	5221	4961	4654	5119	5147	4902
12	3903	5521	4667	4379	5859	6445	6450	6155	6343	6976	6963	6652	6277	6905	6868	6573
14	6659	9418	7668	7322	10186	11205	10909	10548	POA	POA	POA	POA	POA	POA	POA	POA
16	8260	11682	9448	9052	12632	13901	13465	13050	POA	POA	POA	POA	POA	POA	POA	POA
18	10409	14720	11798	11349	15923	17513	16852	16388	POA	POA	POA	POA	POA	POA	POA	POA
20	13425	18986	15051	14559	20537	22592	21566	21053	POA	POA	POA	POA	POA	POA	POA	POA
24	21285	30102	23505	22901	32561	35817	33820	33190	POA	POA	POA	POA	POA	POA	POA	POA
600-POUND GATE... With By-Pass																
5	1475	1986	1840	1681	2378	2578	2701	2525	2573	2792	2912	2727	2549	2762	2871	2695
6	1475	1986	1840	1681	2378	2578	2701	2525	2573	2792	2912	2727	2549	2762	2871	2695
8	2229	3051	2724	2517	3592	3916	4017	3790	3890	4238	4334	4096	3849	4193	4275	4046
10	3326	4565	4005	3726	4992	5446	5524	5238	5405	5895	5962	5664	5348	5833	5881	5597
12	4337	5992	5158	4831	6507	7112	7138	6801	7047	7700	7704	7355	6971	7619	7602	7268
14	7128	9934	8209	7816	10905	11949	11678	11266	POA	POA	POA	POA	POA	POA	POA	POA
16	8732	12199	9988	9544	13356	14648	14234	13770	POA	POA	POA	POA	POA	POA	POA	POA
18	10987	15362	12437	11990	16590	18182	17521	17056	POA	POA	POA	POA	POA	POA	POA	POA
20	14005	19627	15690	15199	21206	23260	22234	21720	POA	POA	POA	POA	POA	POA	POA	POA
24	22012	30910	24357	23755	33674	36979	35027	34398	POA	POA	POA	POA	POA	POA	POA	POA

Flanged valves: Prices apply to valves having regular facings. For description of regular and special facings, as well as extra charges for special facings, see page 9.

Butt-welding valves: Orders must specify diameter of bore (I. D. of pipe).

"Arctic" steel valves: Crane "Arctic" steel (ASTM A352-LC3) valves will be priced on application.

900 AND 1500-POUND CAST STEEL GATE VALVES

Outside Screw & Yoke — Bolted Bonnet — Solid Wedge Disc

BASIC CATALOG NUMBERS AND SIZES REGULARLY FURNISHED:

900-POUND...No. 83.....Flanged.....all sizes
 No. 83½.....Butt-weld.....all sizes

1500-POUND...No. 87.....Flanged.....all sizes
 No. 87½.....Butt-weld.....all sizes

VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET				No. 7 or "LCB" ALLOY STEEL BODY & BONNET				No. 3 ALLOY STEEL BODY & BONNET				No. 5 ALLOY STEEL BODY & BONNET			
	X or XR Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X or XR Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	A or L Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	L Trim	Stellite U Trim	Half Stellite XU Trim

900-POUND GATE....Without By-Pass

3	\$ 1120	\$ 1290	\$ 1311	\$ 1242	\$ 1414	\$ 1555	\$ 1557	\$ 1485	\$1551	\$ 1707	\$ 1701	\$ 1626	\$1537	\$ 1691	\$ 1680	\$1608
4	1517	1749	1774	1682	1915	2107	2107	2011	2090	2299	2291	2190	2081	2289	2273	2178
5	2780	3205	3188	3051	3510	3860	3797	3653	3829	4213	4129	3980	3815	4197	4102	3959
6	2780	3205	3188	3051	3510	3860	3797	3653	3829	4213	4129	3980	3815	4197	4102	3959
8	4298	4953	4873	4688	5424	5966	5811	5618	5919	6510	6323	6122	5896	6486	6283	6210
10	5666	6529	6397	6166	7150	7865	7634	7392	7799	8579	8304	8051	7770	8547	8253	8012
12	7744	8923	8666	8389	9775	10751	10352	10064	10661	11729	11267	10965	10624	11685	11202	10913
14	10120	11661	11245	10923	12772	14049	13446	13109	POA	POA	POA	POA	POA	POA	POA	POA
16	13377	15414	14752	14383	16883	18570	17656	17269	POA	POA	POA	POA	POA	POA	POA	POA

900-POUND GATE....With By-Pass

4	2167	2459	2484	2361	2735	2957	2957	2830	2983	3224	3219	3081	2973	3213	3197	3068
5	3429	3916	3898	3731	4329	4710	4648	4473	4722	5138	5056	4872	4706	5119	5024	4848
6	3429	3916	3898	3731	4329	4710	4648	4473	4722	5138	5056	4872	4706	5119	5024	4848
8	4947	5663	5584	5368	6244	6817	6664	6437	6811	7437	7249	7014	6787	7409	7206	6981
10	6490	7423	7291	7029	8192	8939	8707	8432	8936	9749	9469	9187	8903	9712	9417	9145
12	8570	9820	9560	9253	10815	11824	11425	11105	11799	12898	12437	12101	11756	12849	12365	12044
14	10944	12651	12234	11865	13907	15234	14630	14242	POA	POA	POA	POA	POA	POA	POA	POA
16	14274	16403	15740	15371	18016	19754	18841	18453	POA	POA	POA	POA	POA	POA	POA	POA

1500-POUND GATE....Without By-Pass

1	481	553	550	526	605	666	653	636	660	726	711	685	658	725	772	749
1¼	532	614	616	586	672	738	733	702	734	807	869	838	729	803	862	833
1½	596	688	693	660	752	891	824	789	821	902	897	859	820	900	891	855
2	757	873	888	840	957	1053	1054	1005	1044	1147	1164	1095	1040	1144	1137	1088
2½	938	1080	1096	1038	1183	1298	1301	1242	1290	1418	1415	1352	1284	1414	1404	1344
3	1214	1399	1410	1341	1533	1686	1676	1605	1672	1839	1822	1747	1665	1832	1811	1739
4	1750	2016	2016	1925	2209	2431	2400	2303	2410	2651	2609	2510	2400	2641	2593	2496
5	3497	4027	3936	3798	4411	4852	4697	4554	4813	5293	5112	4962	4795	5273	5081	4938
6	3497	4027	3936	3798	4411	4852	4697	4554	4813	5293	5112	4962	4795	5273	5081	4938
8	5752	6633	6400	6215	7264	7990	7652	7457	7924	8718	8329	8128	7897	8686	8283	8091

1500-POUND GATE....With By-Pass

4	2399	2727	2727	2606	3028	3281	3252	3123	3304	3577	3537	3405	3291	3564	3516	3388
5	4144	4738	4645	4479	5231	5702	5550	5374	5706	6218	6039	5855	5685	6196	6005	5829
6	4144	4738	4645	4479	5231	5702	5550	5374	5706	6218	6039	5855	5685	6196	6005	5829
8	6406	7344	7110	6894	8083	8842	8503	8278	8819	9643	9257	9021	8787	9607	9206	8979

Flanged valves: Prices apply to valves having regular facings. For description of regular and special facings, as well as extra charges for special facings, see page 9.

Butt-welding valves: Orders must specify diameter of bore (I. D. of pipe).

"Arctic" steel valves: Crane "Arctic" steel (ASTM A352-LC3) valves will be priced on application.

150 TO 1500-POUND CAST STEEL GLOBE VALVES

Bolted Bonnet — With and Without Gears

IMPORTANT: Sizes priced both with and without gears are furnished WITH GEARS unless order states "without gears".

VALVE CLASS, TYPE, AND BASIC CATALOG NUMBERS	PRICES APPLY TO VALVES	VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET			No. 7 or "LCB" ALLOY STEEL BODY & BONNET			No. 3 ALLOY STEEL BODY & BONNET			No. 5 ALLOY STEEL BODY & BONNET				
			X, XR, or H* Trim	A or L Trim	Stellite U Trim	X or XR Trim	A or L Trim	Stellite U Trim	X Trim	A or L Trim	Stellite U Trim	X Trim	L Trim	Stellite U Trim		
			(See daggered note for sizes available)													
150-POUND GLOBE No. 142.....Screwed† No. 143.....Flanged No. 143½....Butt-weld	With- out Gears	2	\$ 162	\$ 228	\$ 237	\$ 265	\$ 292	\$ 341	\$ 287	\$ 317	\$ 365	\$ 285	\$ 314	\$ 361		
		2½	221	310	316	362	399	457	393	432	484	388	427	483		
		3	247	348	361	404	447	519	439	483	558	436	479	549		
		†3½	319	452	473	515	567	666	557	613	715	551	606	702		
		4	319	452	473	515	567	666	557	613	715	551	606	702		
		5	528	746	776	790	870	1020	858	943	1096	848	933	1077		
		6	528	746	776	790	870	1020	858	943	1096	848	933	1077		
		8	952	1346	1295	1428	1572	1733	1547	1702	1865	1531	1684	1836		
300-POUND GLOBE No. 151.....Flanged No. 151½....Butt-weld	With- out Gears	2	202	284	277	330	364	407	360	395	437	355	389	431		
		2½	233	328	328	384	421	479	414	455	514	410	451	506		
		3	274	387	389	451	496	567	488	538	608	483	531	597		
		†3½	400	564	556	642	706	794	696	766	853	690	758	839		
	With Gears	4	400	564	556	642	706	794	696	766	853	690	758	839		
		5	651	921	905	977	1075	1206	1057	1164	1297	1048	1152	1275		
		6	651	921	905	977	1075	1206	1057	1164	1297	1048	1152	1275		
		8	1010	1428	1355	1515	1665	1818	1639	1804	1958	1623	1785	1927		
400-POUND GLOBE No. 161.....Flanged No. 161½....Butt-weld	With- out Gears	4	621	879	774	1001	1101	1136	1085	1190	1224	1074	1178	1208		
		5	1303	1843	1565	1956	2149	2160	2116	2328	2331	2094	2303	2300		
		6	1303	1843	1565	1956	2149	2160	2116	2328	2331	2094	2303	2300		
		8	2103	2976	2462	3158	3472	3419	3419	3758	3696	3384	3722	3647		
	With Gears	6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA		
		8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA		
		600-POUND GLOBE No. 171.....Flanged No. 171½....Butt-weld	With- out Gears	2	264	373	343	435	479	509	470	516	548	466	510	541
				2½	342	482	442	561	619	657	609	669	708	603	663	697
3	418			591	539	688	758	802	745	820	864	737	812	851		
†3½	690			976	861	1112	1223	1262	1205	1323	1362	1192	1309	1342		
With Gears	4		690	976	861	1112	1223	1262	1205	1323	1362	1192	1309	1342		
	5		1447	2047	1739	2173	2387	2399	2352	2586	2591	2327	2560	2555		
	6		1447	2047	1739	2173	2387	2399	2352	2586	2591	2327	2560	2555		
	5		POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA		
900-POUND GLOBE No. 183.....Flanged No. 183½....Butt-weld	With- out Gears	3	1172	1352	1335	1478	1626	1592	1614	1774	1730	1608	1768	1719		
		4	1591	1833	1806	2008	2207	2154	2190	2409	2344	2181	2398	2328		
		6	2802	3230	3148	3537	3889	3760	3859	4243	4092	3846	4230	4068		
		4	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA		
	With Gears	6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA		
		1500-POUND GLOBE No. 189.....Flanged No. 189½....Butt-weld	With- out Gears	2	749	862	855	944	1038	1019	1030	1132	1107	1027	1130	1100
				2½	1085	1251	1225	1370	1507	1462	1493	1643	1591	1488	1636	1581
				3	1454	1675	1630	1836	2019	1947	2001	2201	2119	1994	2195	2105
3	POA			POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA		

*Trim "H" is regularly available on 150 and 300-Pound Carbon Steel Valves only; all other "H" trimmed valves priced on application.

†Sizes available: Screwed end valves are furnished in the 150-Pound Class, 2-inch size only. Flanged end valves are furnished in all classes and sizes. Butt-welding valves are furnished in all classes and in all sizes except 3½-inch.

Flanged valves: Prices apply to valves having regular facings. For description of facings, and extra charges for special facings, see page 9.

Butt-welding valves: The 150 and 300-Pound valves are regularly bored to match the inside diameter of Standard pipe (heaviest weight on 8" size). For butt-welding valves of the 400-Pound and higher pressure classes, orders must specify the diameter of bore (I.D. of pipe).

"Arctic" steel valves: Crane "Arctic" steel (ASTM A352-LC3) valves will be priced on application.

150 TO 900-POUND CAST STEEL ANGLE VALVES**Bolted Bonnet — With and Without Gears**

IMPORTANT: Sizes priced both with and without gears are furnished WITH GEARS unless order states "without gears".

VALVE CLASS, TYPE, AND BASIC CATALOG NUMBERS	PRICES APPLY TO VALVES	VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET			No. 7 or "LCB" ALLOY STEEL BODY & BONNET			No. 3 ALLOY STEEL BODY & BONNET			No. 5 ALLOY STEEL BODY & BONNET		
			X, XR, or H* Trim	A or L Trim	Stellite U Trim	X or XR Trim	A or L Trim	Stellite U Trim	X Trim	A or L Trim	Stellite U Trim	X Trim	L Trim	Stellite U Trim
150-POUND ANGLE No. 145.....Flanged	With- out Gears	2	\$ 184	\$ 260	\$ 260	\$ 303	\$ 333	\$ 377	\$ 328	\$ 361	\$ 406	\$ 325	\$ 358	\$ 400
		2½	239	339	336	395	435	488	428	469	526	422	464	518
		3	265	375	378	437	481	551	473	520	593	469	569	608
		4	345	490	501	558	613	708	602	664	761	597	656	748
		5	571	809	823	857	943	1087	928	1021	1167	919	1011	1147
		6	571	809	823	857	943	1087	928	1021	1167	919	1011	1147
		8	1028	1454	1375	1543	1697	1848	1683	1860	2002	1653	1818	1958
300-POUND ANGLE No. 153.....Flanged	With- out Gears	2	205	289	282	337	371	413	364	402	444	361	397	437
		2½	248	351	345	409	449	504	441	487	541	438	481	532
		3	279	394	394	460	506	573	497	547	627	493	542	617
		3½	406	574	564	653	721	806	708	779	867	702	798	851
		4	406	574	564	653	721	806	708	779	867	702	798	851
		5	667	944	921	1000	1101	1229	1082	1191	1379	1073	1180	1301
		6	667	944	921	1000	1101	1229	1082	1191	1379	1073	1180	1301
		8	1047	1482	1395	1572	1729	1876	1702	1872	2088	1684	1852	1988
	With Gears	8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
400-POUND ANGLE No. 163.....Flanged	With- out Gears	4	652	921	805	1051	1053	1185	1136	1249	1278	1124	1236	1260
		5	1385	1958	1653	2077	2286	2284	2341	2555	2569	2226	2481	2432
		6	1385	1958	1653	2077	2286	2284	2341	2555	2569	2226	2481	2432
		8	2226	3148	2595	3341	3677	3607	3618	4073	3896	3583	3969	4005
	With Gears	6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
600-POUND ANGLE No. 173.....Flanged No. 173½.....Butt-weld	With- out Gears	2½	357	505	460	589	646	682	638	700	736	630	693	726
		3	439	570	561	723	794	837	782	860	902	774	850	890
		†3½	725	1023	895	1166	1282	1317	1263	1467	1442	1249	1374	1400
		4	725	1023	895	1166	1282	1317	1263	1467	1442	1249	1374	1400
		5	1538	2176	1836	2308	2540	2538	2569	2796	2795	2413	2720	2702
		6	1538	2176	1836	2308	2540	2538	2569	2796	2796	2413	2720	2702
	With Gears	5	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
900-POUND ANGLE No. 185.....Flanged	With- out Gears	3	1217	1404	1382	1537	1692	1648	1734	1936	1885	1670	1837	1782
		4	1662	1916	1884	2098	2308	2247	2290	2530	2467	2279	2508	2429
		6	2917	3362	3269	3681	4049	3905	4061	4453	4250	4002	4401	4225
	With Gears	4	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA

*Trim "H" is regularly available on 150 and 300-Pound Carbon Steel Valves only; all other "H" trimmed valves priced on application.

†The 600-Pound butt-welding valves are not regularly available in the 3½-inch size. Prices apply to flanged end only.

Flanged valves: Prices apply to valves having regular facings. For description of regular and special facings, as well as extra charges for special facings, see page 9.

600-pound butt-welding valves: Orders must specify the diameter of the bore (I.D. of pipe).

"Arctic" Steel: Crane "Arctic" steel (ASTM A352-LC3) valves will be priced on application.

150 TO 1500-POUND CAST STEEL SWING CHECK VALVES

Bolted Cap

VALVE CLASS, TYPE, BASIC CATALOG NOS., AND SIZES AVAILABLE	VALVE SIZE Inches	CARBON STEEL (WCB) BODY & CAP		No. 7 or "LCB" ALLOY STEEL BODY & CAP		No. 3 ALLOY STEEL BODY & CAP		No. 5 ALLOY STEEL BODY & CAP	
		X or H* Trim	A or L Trim	X Trim	A or L Trim	X Trim	A or L Trim	X Trim	L Trim
150-POUND SWING No. 148.....Screwed.....2, 2½, 3, 4" No. 147.....Flanged.....all sizes No. 147½...Butt-weld.....2, 2½, 3, & 4 to 8"	2	\$ 120	\$ 168	\$ 205	\$ 226	\$ 221	\$ 245	\$ 221	\$ 242
	2½	143	201	244	268	266	293	264	289
	3	167	235	288	317	311	344	309	340
	3½	216	306	374	411	405	446	400	440
	4	216	306	374	411	405	446	400	440
	5	331	468	571	627	620	681	613	674
	6	331	468	571	627	620	681	613	674
	8	541	776	936	1030	1014	1115	954	1104
	10	811	1144	1306	1455	1415	1554	1399	1539
	12	1300	1839	1906	2098	1976	2174	2043	2247
	14	poa	poa	poa	poa	poa	poa	poa	poa
	16	poa	poa	poa	poa	poa	poa	poa	poa
300-POUND SWING No. 158.....Screwed.....2, 2½, 3" No. 159.....Flanged.....all sizes No. 159½...Butt-weld.....all sizes	2	151	212	249	274	268	295	266	293
	2½	169	237	277	304	300	330	297	327
	3	193	272	317	348	343	377	340	374
	4	264	372	422	464	458	503	452	497
	5	435	615	701	770	757	834	750	824
	6	435	615	701	770	757	834	750	824
	8	723	1022	1165	1280	1260	1386	1247	1371
	10	1096	1548	1642	1807	1779	1957	1761	1935
	12	1443	2037	2164	2379	2342	2572	2318	2550
400-POUND SWING No. 169.....Flanged.....all sizes No. 169½...Butt-weld.....all sizes	4	434	614	699	769	757	834	750	824
	5	821	1162	1232	1355	1334	1467	1320	1451
	6	821	1162	1232	1355	1334	1467	1320	1451
	8	1303	1843	1956	2149	2116	2328	2094	2303
	10	1853	2619	2780	3057	3010	3311	2979	3277
	12	2246	3122	3279	3607	3549	3904	3512	3864
600-POUND SWING No. 175.....Flanged.....all sizes No. 175½...Butt-weld.....all sizes	1½	151	213	249	274	268	295	266	293
	1½	167	235	274	301	296	328	294	322
	2	203	286	334	367	362	398	359	395
	2½	264	373	435	479	470	516	466	510
	3	303	429	501	549	541	596	536	589
	4	482	682	776	855	840	926	834	916
	5	912	1290	1368	1505	1483	1630	1466	1612
	6	912	1290	1368	1505	1483	1630	1466	1612
	8	1447	2047	2173	2387	2352	2586	2327	2560
	10	2059	2911	3088	3397	3343	3678	3310	3641
	12	2428	3465	3643	4007	3944	4337	3904	4294
900-POUND SWING No. 187.....Flanged.....all sizes No. 187½...Butt-weld.....all sizes	3	985	1135	1243	1367	1356	1491	1352	1486
	4	1346	1552	1698	1870	1854	2041	1848	2032
	6	2196	2530	2771	3048	3024	3324	3012	3313
	8	3110	3604	3924	4316	4281	4708	4266	4693
1500-POUND SWING No. 199.....Flanged.....all sizes No. 199½...Butt-weld.....all sizes	1½	521	598	656	722	715	785	713	784
	2	645	744	814	895	888	977	884	972
	2½	789	908	994	1096	1086	1195	1081	1190
	3	1036	1194	1307	1439	1427	1568	1422	1562
	4	1451	1671	1830	2012	1997	2196	1991	2188
	5	2691	3101	3397	3736	3705	4076	3692	4061
	6	2691	3101	3397	3736	3705	4076	3692	4061
	8	3932	4531	4963	5459	5414	5954	5396	5936

*Trim "H" is regularly available on 150 and 300-Pound Carbon Steel Valves only; all other "H" trimmed valves priced on application.

Flanged valves: Prices apply to valves having regular facings. For description of regular and special facings, as well as extra charges for special facings, see page 9.

Butt-welding valves: The 150 and 300-pound valves are regularly bored to match the inside diameter of Standard pipe (heaviest weight on

8, 10, and 12"). For 14 and 16-inch 150-pound valves and for all sizes of the 400 to 1500-pound classes, orders must specify the diameter of the bore (I. D. of pipe).

"Arctic" steel: Crane "Arctic" steel (ASTM A352-LC3) valves will be priced on application.

300 AND 600-POUND CARBON CAST STEEL STOP-CHECK VALVES

Bolted Bonnet — Exelloy to Stellite (XU) or Stellite (U) Trim

VALVE SIZE Inches	300-POUND CARBON STEEL (WCB)				600-POUND CARBON STEEL (WCB)			
	STRAIGHT-WAY Y-PATTERN		ANGLE Y-PATTERN		GLOBE PATTERN		ANGLE PATTERN	
	No. 28 XU Flanged	No. 28½ XU Butt-weld	No. 30 XU Flanged	No. 30½ XU Butt-weld	No. 179 U Flanged	No. 179½ U Butt-weld	No. 180 U Flanged	No. 180½ U Butt-weld
2½	...	...	...	...	\$ 1058	1058	1058	1058
3	\$ 912	\$ 912	\$ 912	\$ 912	1115	1115	1115	1115
4	995	995	995	995	1209	1209	1209	1209
5	1082	1082	1082	1082	1393	1393	1393	1393
6	1216	1216	1216	1216	1765	1765	1765	1765
8	1875	1875	1875	1875	2498	2498	2498	2498
10	2703	2703	2703	2703	3792	3792	3792	3792
12	...	...	...	...	5610	5610	5610	5610

Material specifications....page 1

Valve description....No. 60 Catalog, pages 222 and 223

Flanged valves: Prices apply to valves having regular facings. For description of regular and special facings, as well as extra charges for special facings, see the table below.

Butt-welding valves: The 300-pound valves are bored to match the inside diameter of Standard pipe (heaviest weight on 8 and 10"). Orders for 600-pound valves must specify the diameter of the bore (I. D. of pipe).

**REGULAR FACINGS AND EXTRA CHARGES FOR SPECIAL FACINGS
ON END FLANGES OF CRANE CAST STEEL FLANGED VALVES**

PRESSURE CLASS	REGULAR FACINGS (No Extra Charge)	SPECIAL FACINGS (Prices on Application)	SPECIAL FACINGS (Add Charge Listed at Right)	EXTRA CHARGE FOR SPECIAL FACINGS	
				Valve Size	Add Per Valve
150-POUND AND 300-POUND	⅛" RAISED FACE	—	Ring Joint Large or Small Male Large or Small Female Large or Small Tongue Large or Small Groove	1¼	\$ 21.00
				1½	21.00
				2	23.00
				2½	26.00
				3	29.00
				3½	35.00
				4	35.00
				5	44.00
				6	44.00
				8	49.00
400-POUND TO 1500-POUND	LARGE MALE FACE	⅛-inch Raised Face	Ring Joint Small Male Large or Small Female Large or Small Tongue Large or Small Groove	10	56.00
				12	64.00
				14	69.00
				16	78.00
				18	85.00
				20	103.00
				24	125.00

Finishes: The 1/16-inch raised face and the large male (¼-inch high) face regularly have a serrated finish, but a "regular" smooth finish (125 RMS) will be furnished, when specified, at no extra charge. Ring joint facings have smooth finish (63 RMS) grooves. All other facings have a "regular" smooth finish (125 RMS).

When a smooth finish finer than indicated in the foregoing is required, orders must so specify. Prices will be furnished on application.

BY-PASS SIZES FOR CRANE CAST STEEL WEDGE GATE VALVES

MAIN VALVE SIZE Inches	BY-PASS SIZE Inches
4	½
5 to 8	¾
10 to 24	1

By-passes are furnished only when specified; for main valve sizes regularly available with a by-pass, refer to price pages 3 to 5.