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 71-LSV-1
JANUARY 1, 1971

PLAINTIFF'S EXHIBIT
CRA-73

Supersedes
Price Schedule 70-LSV-2
dated September 1, 1970

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We reserve the right to institute changes in materials, designs, and specifications without notice, in keeping with our policy of continuing product improvement.

Prices subject to change without notice.

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VALVES • PUMPS • FITTINGS • WATER TREATMENT • METERS • CONTROLS • PLUMBING • HEATING

CRANE CO • 4100 SOUTH KEDZIE AVENUE, CHICAGO, ILLINOIS 60632

MATERIAL SPECIFICATIONS

BODY, BONNET, AND CAP MATERIAL

CRANE DESIGNATION	ASTM SPECIFICATION	MATERIAL CLASSIFICATION
CARBON STEEL	A216—WCB	Carbon Steel
NO. 4 STEEL	A217—WC1	Carbon-Molybdenum
NO. 5 STEEL	A217—C5	5% Chromium—½% Molybdenum
NO. 7 STEEL	A217—WC6	1¼% Chromium—½% Molybdenum
NO. 9 STEEL	A217—WC9	2¼% Chromium- 1% Molybdenum
"LCB" STEEL	A352—LCB	Carbon Steel—Low Temperature
"ARCTIC" STEEL*	A352—LC3	3½% Nickel Steel—Low Temperature

Crane trademark "Arctic" registered in U. S. Patent Office.

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
	XC	Exelloy to CV-21	13% Chromium Stainless Steel to Cobalt Base Hard Facing Alloy
†SPECIAL	L	18-8 SMo‡	18% Chromium—8% Nickel—2½% Moly.
	A	Monel	Monel
STELLITE	U	Stellite	Cobalt—Chromium—Tungsten Alloy
¶HALF STELLITE	XU	Exelloy‡ to Stellite	13% Chromium Stainless Steel to Cobalt—Chromium—Tungsten Alloy

†**Gate valves 14-inch and larger** *requested with XR, H, or L trim will regularly be furnished with XC, HC, or LC trim respectively, instead. The "C" designates "CV-21" a Crane patented, cobalt base, hard facing alloy applied to the body seat rings. There is no extra charge.*

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

¶**Half Stellite:** *Trim designated "Half Stellite" (XU) includes Crane Exelloy as the other half of the seating combination. In addition, 150-Pound "Flex Gate" Valves are now available with "H" or "L" coupled with Stellite as the other half of the seating combination; these trims are designated "HU" and "LU" respectively.*

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" or "HU" trimmed valves have a bronze stem . . . and all valves having a "No. 3" body, regardless of trim specified, have an AISI Type C4142 Steel stem, oil-quenched and drawn.

STEM HOLE BUSHING MATERIAL

The stem hole bushing is bronze with "H" and "HU" trim, stainless steel with "L" and "LU" trim, Monel with "A" trim, and Crane Exelloy with all other trims.

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".

IMPORTANT NOTE CONCERNING
3 thru 12-INCH
150-POUND SOLID WEDGE AND FLEX GATE VALVES
SHOWN ON PAGES 2 AND 3

The 3 thru 12-inch FLEX GATE Valves listed on page 3 will eventually replace the 3 thru 12-inch 150-Pound Solid Wedge Gate Valves shown on page 2.

Although production of FLEX GATE Valves is moving rapidly, not all sizes and types are currently stocked. Pending full production, Crane's standard procedure for filling orders for 3 to 12-inch 150-Pound Steel Gate Valves will be as follows:

IF SOLID WEDGE GATE VALVE IS SPECIFIED.
Solid Wedge Gate Valves listed on page 2 will be furnished if the type specified is in stock. If NOT in stock, equivalent FLEX GATE valves will be furnished.

IF FLEX GATE VALVE IS SPECIFIED:
Flex Gate Valves listed on page 3 will be furnished if the type specified is in stock. If NOT in stock, equivalent SOLID WEDGE gate valves will be furnished.

"LIST 55"

150-POUND CAST STEEL SOLID WEDGE GATE VALVES‡

Carbon Steel (WCB)—Outside Screw & Yoke—Bolted Bonnet—Solid Wedge Disc

VALVE CATALOG NO. AND ENDS		18"	20"	24"	30"	36"
No. 55XC, Flanged		4155	5078	7190	13619	20523
No. 55½XC, Butt-Welding		4155	5078	7190	13619	20523
ADD, for Style "N" Bevel Gearing	Up to 150 psi	600	660	740	1180	1180
	Over 150, to 275 psi	700	740	1180	1400	1600

‡These valves, in sizes applicable, comply with requirements of the American National Standards Institute (ANSI) . . . formerly "USA Standards" . All other gate valves priced in this Schedule, in sizes applicable, comply with both ANSI and API 600 Standards.

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).

Flange facings and by-pass sizes. . . . page 9

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					CRANE #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & BONNET					CRANE #5—#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & BONNET				ADD FOR STYLE "N" BEVEL GEARING Style "P" spur gearing priced on request	
Inches	X, XR, or H Trim	L Trim	A Trim	Stellite U Trim	Half Stellite XU Trim	X or XR Trim	L Trim	A 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															Up to 150 psi	Over 150, to 275 psi
*2	$ 205	$ 289	$333	$ 295	$ 205	$ 338	$ 370	$ 407	$ 441	$ 338	$ 361	$ 399	$ 467	$ 361	...	...
*2½	293	403	463	522	409	466	511	561	726	590	498	542	760	622	...	...
3	293	403	463	522	409	466	511	561	726	590	498	542	760	622	...	...
3½	343	477	550	635	490	540	592	574	861	695	575	632	901	732	...	...
4	343	477	550	635	490	540	592	574	861	695	575	632	901	732	$ 360	$ 360
5	544	750	863	970	761	845	926	1019	1320	1072	905	988	1382	1133	360	360
6	544	750	863	970	761	845	926	1019	1320	1072	905	988	1382	1133	360	360
8	851	1172	1347	1435	1149	1332	1455	1601	1975	1637	1422	1554	2073	1731	360	360
10	1333	1811	2083	2088	1720	2043	2230	2452	2877	2442	2176	2374	3023	2579	420	440
12	1774	2396	2755	2683	2247	2694	2935	3228	3700	3176	2869	3124	3889	3358	420	440
*14	2854	3905	4492	4081	3502	4252	4588	5047	5476	4812	5137	7028	7344	6305	490	500
*16	3714	5147	5919	5151	4485	5548	6078	6686	7042	6265	6684	9265	9270	8075	580	620
*18	4617	6362	7316	6249	5498	6851	6981	7680	8549	7664	8311	11451	11250	9897	580	700
*20	5642	7869	9051	7485	6670	8490	9312	10243	10407	9408	10155	14163	13473	12005	660	740
*24	7989	11326	13026	10326	9300	12257	13487	14836	15228	13421	14380	20387	18586	16739	740	1180
*30	15900	22448	25822	19890	17908	25481	30577	35164	29446	27463	27869	33444	31834	29854	1220	1400
150-POUND SOLID WEDGE GATE....With By-Pass																
12	2235	2876	3307	3220	2719	3395	3698	4068	4292	4001	3615	3937	4901	4231	420	440
*14	3425	4529	5210	4732	4098	5102	5506	6056	6571	5774	6164	8154	8519	7376	490	500
*16	4270	5764	6628	5820	5069	6380	6989	7688	8099	7205	7685	10375	10477	9124	580	620
*18	5308	7126	8192	7062	6214	7811	8028	8830	9831	8813	9555	12827	12711	11184	580	700
*20	6262	8577	9864	8233	7336	9340	10345	11370	11552	10444	11271	15439	14820	13205	660	740
*24	8787	12006	13807	11255	10137	13483	14836	16319	16751	14763	15818	21611	20258	18247	740	1180
*30	16698	23128	26603	20819	18745	26707	31926	36647	30969	28805	29307	34668	33506	31362	1220	1400
300-POUND SOLID WEDGE GATE....Without By-Pass															Up to 300 psi	Over 300, to 720 psi
*1½	254	361	398	325	254	423	466	513	501	423	451	496	537	451	...	...
*2	272	390	430	363	272	458	505	557	566	458	495	542	601	495	...	...
*2½	355	503	553	575	468	588	645	710	837	707	628	693	883	750	...	...
3	355	503	553	575	468	588	645	710	837	707	628	693	883	750	...	...
4	492	678	745	777	640	768	839	924	1083	918	819	898	1141	975	360	360
5	851	1192	1310	1297	1084	1352	1488	1637	1850	1590	1450	1590	1952	1691	360	380
6	851	1192	1310	1297	1084	1352	1488	1637	1850	1590	1450	1590	1952	1691	360	380
8	1290	1776	1953	1907	1614	2009	2196	2416	2692	2335	2144	2345	2838	2475	380	400
10	2188	2951	3246	3009	2625	3317	3615	3976	4228	3755	3529	3847	4458	3975	440	460
12	2849	3852	4237	3808	3367	4329	4717	5189	5392	4835	4606	5021	5693	5127	450	540
*14	4484	6185	6803	5791	5211	6680	7279	8007	8016	7305	8072	11133	10425	9379	510	660
*16	6303	8132	8945	7358	6685	8783	9644	10609	10388	9555	10432	14637	13245	12034	620	1140
*18	7548	10407	11447	9323	8568	11201	12256	13482	13040	12090	13586	18733	16781	15423	740	1200
*20	9751	13592	14952	11761	10943	14664	16079	17687	16742	15666	17551	24466	21170	19682	740	1200
*24	13884	19677	21644	16574	15518	21290	23429	25779	24074	22633	24991	35417	29834	27932	740	1400
*30	26500	37583	41340	31656	29639	40664	44749	49238	45981	43229	47733	67646	56983	53350	1600	POA
300-POUND SOLID WEDGE GATE....With By-Pass																
5	1191	1668	1834	1815	1517	1893	2083	2292	2590	2226	2030	2226	2733	2367	360	380
6	1191	1668	1834	1815	1517	1893	2083	2292	2590	2226	2030	2226	2733	2367	360	380
8	1664	2291	2520	2460	2081	2592	2833	3114	3472	3012	2765	3024	3661	3193	380	400
10	2669	3600	3960	3671	3204	4046	4410	4850	5158	4580	4305	4693	5440	4849	440	460
12	3305	4468	4915	4417	3905	5021	5472	6019	6255	5609	5344	5824	6604	5947	450	540
*14	5023	6928	7620	6487	5835	7457	8152	8968	8978	8183	9039	12470	11656	10504	510	660
*16	6349	8863	9750	8021	7287	9574	10513	11564	11324	10415	11392	15955	14437	13116	620	1140
*18	8228	11344	12477	10162	9340	12209	13359	14694	14213	13177	14810	20419	18291	16811	740	1200
*20	10433	14544	15997	12585	11708	15690	17205	18925	17914	16763	18779	26189	22651	21073	740	1200
*24	14716	20857	22943	17569	16450	22569	24834	27318	25572	23991	26489	37542	31624	29609	1180	1400
*30	27332	38763	42639	32651	30571	41943	46154	50777	47479	44587	49231	69771	58773	55027	1600	POA

*Trim for valves 2½-inch and smaller will be half Stellite (XU) instead of "X", "XR", or, "H"... trim for valves 14-inch and larger will be "XC", "HC", or "LC" respectively, instead of "XR", "H", or "L".

IMPORTANT
See boxed note on page 1 regarding 3 thru 12-inch 150-Pound Cast Steel Gate Valves.

"General Information"... next page.

Flange facings and by-pass sizes....page 9

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

150-POUND "FLEX GATE" VALVES

FURNISHED	VALVE SIZE Inches	Carbon Steel (WCB) BODY & BONNET XU-F or HU-F Trim	LU-F Trim	A-F Trim	U-F Trim	Crane #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & BONNET XU-F Trim	LU-F Trim	A-F Trim	U-F Trim	Crane #5—#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & BONNET XU-F Trim	LU-F Trim	U-F Trim	ADD FOR STYLE "N" BEVEL GEARING Up to 150 psi	Over 150, to 275 psi
	3	$ 293	$ 403	$ 463	$ 522	$ 466	$ 511	$ 561	$ 726	$ 498	$ 542	$ 760	...	...
	3½	343	477	550	635	540	592	574	861	575	632	901	...	...
	4	343	477	550	635	540	592	574	861	575	632	901	$ 360	$ 360
Without By-Pass	5	544	750	863	970	845	926	1019	1320	905	988	1382	360	360
	6	544	750	863	970	845	926	1019	1320	905	988	1382	360	360
	8	851	1172	1347	1435	1332	1455	1601	1975	1422	1554	2073	360	360
	10	1333	1811	2083	2088	2043	2230	2452	2877	2176	2374	3023	420	440
	12	1774	2396	2755	2683	2694	2935	3228	3700	2869	3124	3889	420	440
With By-Pass	12	2235	2876	3307	3220	3395	3698	4068	4292	3615	3937	4901	420	440

IMPORTANT
See boxed note on page 1 regarding 3 thru 12-inch 150-Pound Cast Steel Gate Valves.

300-POUND "FLEX GATE" VALVES

FURNISHED	VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET X-F or XR-F Trim	U-F Trim	ADD FOR STYLE "N" BEVEL GEARING Up to 300 psi	Over 300, to 720 psi
	*2	$286	poa	...	...
	*2½	373	poa	...	...
	3	373	poa	...	...
	4	517	poa	$360	$360
Without By-Pass	5	894	poa	360	380
	6	894	poa	360	380
	8	1355	poa	380	400
	10	2297	poa	440	460
	12	2991	poa	450	540
With By-Pass	5	1251	poa	360	380
	6	1251	poa	360	380
	8	1747	poa	380	400
	10	2803	poa	440	460
	12	3470	poa	450	540

*Trim will be half stellite (XU-F) instead of X-F or XR-F in 2 and 2½-inch sizes.

ADDED CHARGES for 150 and 300-Pound "Flex Gate" Valves Ordered for "Block & Bleed" Service

VALVE SIZE Inches	ADD PER VALVE FOR LOCATION "G" TAPPING† SCREWED END VALVES: With Boss and with MSS SP-45 Tapping or Smaller	SCREWED END VALVES: W/o Boss and with Tapping Less than MSS SP-45	¶FLANGED, BUTT-WELD: With Boss and with MSS SP-45 Tapping or Smaller	ADD PER VALVE FOR LOCATION "H" TAPPING† ALL VALVES: With Boss and with MSS SP-45 Tapping or Smaller‡	W/o Boss and with Tapping Less than MSS SP-45	TAPPING OR SOCKET DRAIN SIZES FOR BLOCK & BLEED SERVICE: MSS SP-45 Drain Size	Max. Size with Boss	Max. Size without Boss
150-POUND "FLEX GATE"								
2	$ 40	...	$ 14	$ 40	...	½"	½"	...
2½	40	$ 13	14	40	$ 13	½	½	¼"
3 to 4	40	13	14	40	13	½	½	⅜
5 to 8	...	...	17	45	13	¾	¾	⅜
10	...	...	19	53	14	1	1	½
12	...	...	19	53	17	1	1	¾
300-POUND "FLEX GATE"								
2	40	...	14	40	...	½"	½"	...
2½	40	13	14	40	13	½	½	¼"
3, 4	40	13	14	40	13	½	½	⅜
5	...	...	17	45	14	¾	¾	½
6, 8	...	...	19	45	17	¾‡	¾‡	¾
10, 12	...	...	19	53	19	1‡	1‡	1

†Welding socket furnished instead of tapping if specified.
¶Flanged and butt-welding valves regularly have a boss at location "G".
‡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".

GENERAL INFORMATION
150 AND 300-POUND CAST STEEL GATE VALVES

Spur Gearing: Prices furnished on request.

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).

"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.

Flange facings and by-pass sizes....page 9

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. 61½.....Butt-weld.....all sizes

600-POUND...No. 76.....Flanged.....all sizes
No. 76½.....Butt-weld.....all except 3½"

VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET					CRANE #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & BONNET					CRANE #5—#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & BONNET				ADD FOR STYLE "N" BEVEL GEARING Style "P" spur gearing priced on request	
	X or XR Trim	L Trim	A Trim	Stellite U Trim	Half Stellite XU Trim	X or XR Trim	L Trim	A Trim	Stellite U Trim	Half Stellite XU Trim	X Trim	L Trim	Stellite U Trim	Half Stellite XU Trim	Up to 400 psi	Over 400, to 960 psi
400-POUND GATE....Without By-Pass																
4	$ 874	$ 1217	$ 1339	$ 1194	$ 1049	$ 1382	$ 1514	$ 1667	$ 1739	$ 1549	$ 1478	$ 1621	$ 1845	$ 1656	$ 360	$ 360
5	1575	2179	2417	2036	1832	2494	2733	3006	3003	2741	2667	2926	3193	2921	360	380
6	1575	2179	2417	2036	1832	2494	2733	3006	3003	2741	2667	2926	3193	2921	380	400
8	2671	3696	4066	3313	3041	4185	4583	5041	4901	4527	4470	4899	5215	4829	420	440
10	3947	5461	6008	4811	4450	5777	6323	6956	6647	6194	6168	6755	7077	6608	440	460
12	5054	7049	7754	6090	5670	7466	8188	9008	8510	7970	7981	8756	9077	8510	450	540
14	8418	11739	12913	9754	9256	12664	13891	15281	14048	13333	15153	21130	17558	16659	580	700
16	11634	15752	17329	13207	12634	16896	18425	20267	18529	17687	20946	28355	23774	22743	620	1140
400-POUND GATE....With By-Pass																
5	2099	2790	3069	2585	2327	3167	3471	3818	3814	3480	3387	3715	4055	3710	360	380
6	2099	2790	3069	2585	2327	3167	3471	3818	3814	3480	3387	3715	4055	3710	380	400
8	3099	4288	4717	3842	3528	4854	5316	5847	5684	5252	4185	5684	6049	5602	420	440
10	4540	6281	6910	5532	5117	6643	7272	8000	7645	7123	7093	7768	8131	7600	440	460
12	5610	7824	8607	6761	6294	8288	9089	9999	9446	8845	8860	9719	10076	9447	450	500
14	9007	12560	13817	10437	9904	13551	14864	16350	15032	14267	16213	22609	18785	17826	580	700
16	12332	16698	18368	13999	13393	17911	19530	21483	19640	18748	22197	30057	25197	24107	620	1140
600-POUND GATE....Without By-Pass															Up to 800 psi	Over 800, to 1440 psi
2	413	565	621	574	499	650	711	783	835	740	693	760	883	786	...	...
2½	573	811	891	820	705	947	1041	1144	1229	1080	1014	1115	1302	1153	...	...
3	573	811	891	820	705	947	1041	1144	1229	1080	1014	1115	1302	1153	...	...
3½	948	1322	1454	1297	1139	1500	1646	1812	1890	1683	1606	1761	2004	1800	...	...
4	948	1322	1454	1297	1139	1500	1646	1812	1890	1683	1606	1761	2004	1800	380	400
5	1750	2441	2685	2262	2036	2771	3037	3340	3337	3045	2963	3251	3548	3245	380	410
6	1750	2441	2685	2262	2036	2771	3037	3340	3337	3045	2963	3251	3548	3245	420	450
8	2968	4107	4518	3681	3379	4650	5092	5601	5445	5030	4967	5443	5794	5366	440	460
10	4386	6068	6676	5345	4944	6419	7026	7729	7385	6882	6853	7506	7868	7342	540	620
12	5615	7832	8615	6767	6300	8296	9098	10009	9455	8855	8868	9729	10086	9456	540	620
14	9353	13043	14348	10837	10284	14071	15434	16978	15609	14814	16836	23478	19507	18510	620	1140
16	12926	17503	19254	14675	14038	18774	20472	22519	20586	19652	23274	31505	26415	25269	660	1200
18	14620	20386	22425	16664	15940	21995	24122	26534	24103	23015	26315	36695	29996	28692	740	1400
20	20471	27910	30701	22865	22064	29984	32733	36007	32454	31183	36849	50237	41156	39716	1180	1600
24	28471	40265	44291	31739	30741	43554	47910	52700	46921	45189	51248	72477	57130	55333	1180	1600
600-POUND GATE....With By-Pass																
5	2332	3100	3410	2872	2586	3519	3857	4242	4238	3867	3763	4128	4506	4122	380	410
6	2332	3100	3410	2872	2586	3519	3857	4242	4238	3867	3763	4128	4506	4122	420	450
8	3443	4764	5241	4269	3920	5393	5907	6497	6316	5836	5761	6315	6721	6224	440	460
10	5044	6979	7678	6147	5686	7381	8080	8889	8494	7914	7881	8631	9042	8444	540	620
12	6233	8693	9563	7512	6993	9209	10099	11110	10496	9829	9844	10799	11196	10497	540	620
14	10008	13956	15352	11596	11003	15056	16515	18166	16701	15852	18014	25122	20872	19806	620	1140
16	13702	18554	20409	15555	14881	19900	21700	23870	21822	20831	24664	33397	27996	26785	660	1200
18	15497	21609	23771	17664	16896	23316	25570	28126	25548	24396	27894	38897	31794	30413	740	1400
20	21290	29026	31929	23779	22947	31184	34042	37447	33751	32430	38323	52246	42802	41304	1180	1600
24	29325	41473	45620	32691	31663	44861	49347	54281	48329	46545	52785	74651	58844	56994	1180	1600

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).

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					CRANE #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & BONNET					CRANE #5—#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & BONNET				ADD FOR STYLE "N" BEVEL GEARING Style "P" spur gearing priced on request	
	X or XR Trim	L Trim	A Trim	Stellite U Trim	Half Stellite XU Trim	X or XR Trim	L Trim	A 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															Up to 900 psi	Over 900, to 2160 psi
3	$ 1596	$ 1829	$ 2012	$ 1884	$ 1771	$ 1999	$ 2192	$ 2412	$ 2255	$ 2121	$ 2167	$ 2378	$ 2440	$ 2298	...	...
4	2162	2480	2728	2549	2399	2707	2970	3268	3051	2873	2935	3219	3302	3113	$ 380	$ 410
5	3962	4543	4997	4577	4351	4962	5441	5985	5495	5217	5380	5903	5951	5657	400	420
6	3962	4543	4997	4577	4351	4962	5441	5985	5495	5217	5380	5903	5951	5657	450	460
8	6125	7022	7725	6992	6685	7667	8411	9252	8406	8023	8314	9122	9117	8875	450	620
10	8075	9257	10183	9177	8794	10108	11088	12197	11042	10558	10958	12023	11975	11449	540	660
12	11036	12650	13916	12426	11964	13818	15156	16671	14968	14372	14981	16436	16250	15595	620	1140
14	14480	16591	18250	16176	15635	18114	19863	21845	19494	18779	26063	29864	29118	28142	1140	1400
16	19072	21853	24038	21135	20509	23865	26178	28795	25514	24660	34311	39335	38044	36916	1140	1600
900-POUND GATE....With By-Pass																
4	3070	3522	3873	3620	3410	3844	4218	4640	4333	4079	4167	4572	4689	4421	380	410
5	4873	5588	6147	5630	5352	6104	6693	7362	6759	6418	6618	7261	7321	6958	400	420
6	4873	5588	6147	5630	5352	6104	6693	7362	6759	6418	6618	7261	7321	6958	450	460
8	7043	8076	8884	8041	7688	8817	9673	10639	9667	9226	9561	10491	10484	10206	450	620
10	9286	10645	11711	10554	10113	11625	12751	14026	12698	12141	12601	13826	13772	13167	540	660
12	12249	14042	15447	13793	13279	15338	16823	18504	16614	15954	16629	18244	18037	17310	620	1140
14	15638	17918	19710	17470	16885	19563	21452	23598	21054	20282	28148	32253	31446	30393	1140	1400
16	20396	23382	25721	22615	21944	25536	28010	30810	27300	26387	36712	42088	40706	39500	1140	1600
1500-POUND GATE....Without By-Pass															Up to 1500 psi	Over 1500, to 3600 psi
1	647	741	815	746	709	809	888	977	904	859	878	965	1065	915	...	...
1¼	714	821	903	834	788	897	983	1081	1002	947	972	1068	1188	1126	...	...
1½	902	1037	1141	1059	1001	1132	1335	1469	1270	1199	1231	1349	1379	1302	...	...
2	1167	1337	1470	1383	1295	1460	1601	1761	1646	1548	1582	1735	1781	1676	...	...
2½	1885	2164	2379	2210	2086	2365	2596	2857	2651	2504	2565	2816	2874	2716	...	...
3	1885	2164	2379	2210	2086	2365	2596	2857	2651	2504	2565	2816	2874	2716	...	...
4	2717	3117	3429	3158	2994	3409	3743	4117	3794	3593	3696	4060	4114	3897	410	420
5	5558	6376	7013	6302	6045	6968	7649	8414	7595	7270	7547	8299	8248	7892	450	460
6	5558	6376	7013	6302	6045	6968	7649	8414	7595	7270	7547	8299	8248	7892	460	460
8	9142	10502	11552	10243	9892	11475	12596	13856	12368	11905	12452	13670	13441	12931	580	660
10	14200	16293	17922	16152	15477	17790	19515	21467	19434	18582	19286	21160	21076	20150	660	1400
12	20640	23656	26023	23237	22373	25840	28342	31175	27990	26876	28014	30735	30388	29163	1400	1600
14	25896	29698	32668	28955	27987	32424	35555	39103	34894	33614	46653	53457	52121	50374	1400	1600
1500-POUND GATE....With By-Pass																
4	3721	4271	4698	4326	4102	4670	5128	5641	5198	4920	5063	5563	5636	5349	410	420
5	6613	7587	8346	7500	7193	8293	9102	10013	9038	8652	8982	9875	9815	9391	450	460
6	6613	7587	8346	7500	7193	8293	9102	10013	9038	8652	8982	9875	9815	9391	460	460
8	10147	11657	12823	11370	10980	12737	13981	15374	13728	13213	13821	15174	14879	14353	580	660
10	16343	18735	20611	18575	17799	20460	22442	24686	22348	21368	22178	24334	24239	23174	660	1400
12	22906	26259	28886	25793	24832	28682	31459	34602	31068	29834	31096	34116	33729	32370	1400	1600
14	27992	32073	35281	31271	30224	35018	38399	42240	37687	36305	50385	57733	56288	54403	1400	1600

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: Orders must specify diameter of bore (I. D. of pipe).

Flange facings and by-pass sizes....page 9 *Description....No. 60 Catalog, pages 126 and 127*

150 TO 1500-POUND CAST STEEL GLOBE VALVES

Bolted Bonnet — With and Without Gears

IMPORTANT: Gearing is recommended for larger size valves and/or valves operating at high pressure differentials.

VALVE CLASS, TYPE, AND BASIC CATALOG NUMBERS †(See daggered note for sizes available)	PRICES APPLY TO VALVES	VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET X, XR, or H* Trim	L Trim	A Trim	Stellite U Trim	CRANE #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & BONNET X or XR Trim	L Trim	A Trim	Stellite U Trim	CRANE #5—#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & BONNET X Trim	L Trim	Stellite U Trim
150-POUND GLOBE No. 142.....Screwed† No. 143.....Flanged No. 143½....Butt-weld	Without Gears	2	$ 250	$ 350	$ 384	$ 375	$ 405	$ 447	$ 492	$ 547	$ 435	$ 478	$ 581
		2½	322	454	499	486	527	583	641	713	569	625	756
		3	322	454	499	486	527	583	641	713	569	625	756
		†3½	468	655	720	705	743	815	897	1002	793	869	1057
		4	468	655	720	705	743	815	897	1002	793	869	1057
		5	706	997	1097	1071	1057	1163	1280	1431	1135	1248	1514
		6	706	997	1097	1071	1057	1163	1280	1431	1135	1248	1514
		8	1273	1800	1980	1778	1910	2102	2312	2423	2048	2252	2574
		10	3097	4366	4802	4335	4644	5107	5619	5909	4954	5451	6242
		12	4541	6404	7044	6358	6815	7497	8246	8655	7267	7994	10072
		14	5678	8006	8806	7949	8518	9371	10307	10819	9084	9992	12589
300-POUND GLOBE No. 151.....Flanged No. 151½....Butt-weld	Without Gears	2	327	453	498	454	523	575	632	672	562	613	713
		2½	406	564	621	584	655	717	789	859	700	766	905
		3	406	564	621	584	655	717	789	859	700	766	905
		†3½	552	766	843	776	868	891	980	1108	930	1019	1182
		4	552	766	843	776	868	891	980	1108	930	1019	1182
		5	965	1344	1478	1357	1422	1560	1716	1822	1522	1668	1929
		6	965	1344	1478	1357	1422	1560	1716	1822	1522	1668	1929
		8	1499	2084	2293	2031	2207	2814	2660	2746	2359	2585	2914
		10	5600	6215	6836	6080	6705	7377	8114	8316	7019	7720	8701
		12	7052	7960	8756	7787	8419	9261	10185	10438	8989	9890	11147
	With Gears	8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		10	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		12	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
400-POUND GLOBE No. 161.....Flanged No. 161½....Butt-weld	Without Gears	4	911	1289	1418	1160	1469	1616	1778	1743	1575	1729	1859
		5	1742	2464	2710	2129	2615	2874	3162	3000	2801	3082	3209
		6	1742	2464	2710	2129	2615	2874	3162	3000	2801	3082	3209
		8	3165	4478	4925	3760	4752	5225	5748	5344	5092	5600	5725
	With Gears	6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
600-POUND GLOBE No. 171.....Flanged No. 171½....Butt-weld	Without Gears	2	404	564	620	531	655	720	792	800	701	765	852
		2½	613	867	954	809	1009	1113	1223	1233	1081	1191	1313
		3	613	867	954	809	1009	1113	1223	1233	1081	1191	1313
		†3½	1013	1432	1575	1289	1632	1796	1976	1936	1749	1922	2066
		4	1013	1432	1575	1289	1632	1796	1976	1936	1749	1922	2066
		5	1935	2738	3011	2365	2906	3193	3513	3333	3112	3424	3566
		6	1935	2738	3011	2365	2906	3193	3513	3333	3112	3424	3566
		8	5522	7785	8564	6737	8284	9112	10023	9526	8836	9720	10162
	With Gears	5	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
900-POUND GLOBE No. 183.....Flanged No. 183½....Butt-weld	Without Gears	3	1722	1986	2185	1985	2170	2387	2626	2400	2361	2595	2604
		4	2377	2692	2961	2684	2949	3241	3565	3246	3203	3521	3527
		6	4114	4743	5218	4673	5193	5711	6282	5662	5646	6211	6159
	With Gears	4	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
1500-POUND GLOBE No. 189.....Flanged No. 189½....Butt-weld	Without Gears	2	1051	1209	1331	1215	1324	1457	1603	1468	1442	1586	1593
		2½	1486	1714	1885	1697	1876	2064	2271	2054	2038	2241	2233
		3	1898	2186	2405	2151	2396	2635	2899	2606	2603	2865	2833
	With Gears	3	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 furnished in the 150-Pound class, 2-inch size only. Flanged end valves furnished in all classes and sizes. Butt-welding valves furnished in all classes and in all sizes except 3½-inch.

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

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

Flange facings....page 9 *Valve description....No. 60 Catalog, pages 143 to 148*

150 TO 900-POUND CAST STEEL ANGLE VALVES

Bolted Bonnet — With and Without Gears

IMPORTANT: Gearing is recommended for larger size valves and/or valves operating at high pressure differentials.

VALVE CLASS, TYPE, AND BASIC CATALOG NUMBERS †(See daggered note for sizes available)	PRICES APPLY TO VALVES	VALVE SIZE Inches	CARBON STEEL (WCB) BODY & BONNET				CRANE #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & BONNET				CRANE #5—#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & BONNET		
			X, XR, or H* Trim	L Trim	A Trim	Stellite U Trim	X or XR Trim	L Trim	A Trim	Stellite U Trim	X Trim	L Trim	Stellite U Trim
150-POUND ANGLE No. 145.....Flanged	Without Gears	2	$ 300	$ 420	$ 461	$ 450	$ 486	$ 536	$ 590	$ 656	$ 522	$ 574	$ 697
		2½	386	545	599	583	632	700	769	856	683	750	907
		3	386	545	599	583	632	700	769	856	683	750	907
		4	562	786	864	846	892	978	1076	1202	952	1043	1268
		5	847	1196	1316	1285	1268	1396	1536	1717	1362	1498	1817
		6	847	1196	1316	1285	1268	1396	1536	1717	1362	1498	1817
		8	1528	2160	2376	2134	2292	2522	2774	2908	2458	2702	3089
		10	3716	5239	4898	5202	5573	6128	6791	7091	5945	6541	7490
		12	5449	7685	8453	7630	8178	8996	9895	10386	8720	9593	12086
300-POUND ANGLE No. 153.....Flanged	Without Gears	2	392	544	598	545	628	690	758	806	674	736	856
		2½	487	677	745	701	786	860	947	1031	840	919	1086
		3	487	677	745	701	786	860	947	1031	840	919	1086
		3½	662	919	1012	931	1042	1069	1176	1330	1116	1223	1418
		4	662	919	1012	931	1042	1069	1176	1330	1116	1223	1418
		5	1158	1613	1774	1628	1706	1872	2059	2186	1826	2002	2315
		6	1158	1613	1774	1628	1706	1872	2059	2186	1826	2002	2315
		8	1799	2501	2752	2437	2648	3377	3192	3295	2831	3102	3497
	With Gears	8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
400-POUND ANGLE No. 163.....Flanged	Without Gears	4	1093	1547	1702	1392	1763	1939	2134	2092	1890	2075	2231
		5	2090	2957	3252	2555	3138	3449	3794	3600	3361	3698	3851
		6	2090	2957	3252	2555	3138	3449	3794	3600	3361	3698	3851
		8	3798	5374	5910	4512	5702	6270	6898	6413	6110	6720	6870
	With Gears	6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		8	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
600-POUND ANGLE No. 173.....Flanged No. 173½....Butt-weld	Without Gears	2½	736	1040	1145	971	1211	1336	1468	1480	1297	1429	1576
		3	736	1040	1145	971	1211	1336	1468	1480	1297	1429	1576
		†3½	1216	1718	1890	1547	1958	2155	2371	2323	2099	2306	2479
		4	1216	1718	1890	1547	1958	2155	2371	2323	2099	2306	2479
		5	2322	3286	3613	2838	3487	3832	4216	4000	3734	4109	4279
		6	2322	3286	3613	2838	3487	3832	4216	4000	3734	4109	4279
	With Gears	5	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		6	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
900-POUND ANGLE No. 185.....Flanged	Without Gears	3	2066	2383	2622	2382	2604	2864	3151	2880	2833	3114	3125
		4	2804	3230	3553	3221	3539	3889	4278	3895	3844	4225	4232
		6	4937	5692	6262	5608	6232	6853	7538	6794	6775	7453	7391
	With Gears	4	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
		6	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).

150 TO 1500-POUND CAST STEEL SWING CHECK VALVES

Bolted Cap

VALVE CLASS, TYPE, BASIC CATALOG NOS., AND SIZES AVAILABLE	VALVE SIZE	CARBON STEEL (WCB) BODY & CAP			CRANE #7—LCB—#4 ASTM WC6—LCB—WC1 ALLOY STEEL BODY & CAP			CRANE #5-#9—Arctic ASTM C5—WC9—LC3 ALLOY STEEL BODY & CAP	
	Inches	X or H* Trim	L Trim	A Trim	X Trim	L Trim	A Trim	X Trim	L Trim
	2	$ 182	$ 253	$ 277	$ 307	$ 338	$ 371	$ 331	$ 361
	2½	224	312	343	382	420	462	409	450
	3	224	312	343	382	420	462	409	450
	3½	319	439	482	529	578	636	564	617
	4	319	439	482	529	578	636	564	617
150-POUND SWING									
No. 148.....Screwed.....2, 2½, 3, 4"	5	464	652	716	792	868	955	849	932
No. 147.....Flanged.....all sizes	6	464	652	716	792	868	955	849	932
No. 147½...Butt-weld.....all sizes	8	806	1129	1242	1347	1476	1624	1372	1577
	10	1311	1789	1969	2022	2235	2459	2155	2356
	12	1916	2690	2959	2785	3061	3367	2982	3275
	14	2305	3251	3738	3688	4426	5090	4034	4839
	16	2933	4134	4752	4692	5629	6473	5131	6154
	2	217	297	327	345	377	415	367	402
	2½	304	417	459	482	526	579	515	563
	3	304	417	459	482	526	579	515	563
300-POUND SWING	4	406	558	614	628	687	756	670	733
No. 158.....Screwed.....2, 2½, 3"									
No. 159.....Flanged.....all sizes	5	759	1017	1119	1139	1238	1362	1210	1316
No. 159½...Butt-weld.....all sizes	6	759	1017	1119	1139	1238	1362	1210	1316
	8	1323	1771	1948	1985	2159	2375	2109	2294
	10	1838	2531	2784	2674	2926	3220	2855	3122
	12	2526	3474	3821	3676	4020	4421	3923	4292
	14	3580	3897	4284	4472	4891	5379	4059	4583
	16	4606	5244	5768	6021	6285	7244	5638	6166
	4	644	908	999	1033	1136	1250	1109	1217
	5	1111	1565	1723	1659	1824	2007	1778	1954
400-POUND SWING	6	1111	1565	1723	1659	1824	2007	1778	1954
No. 169.....Flanged.....all sizes									
No. 169½...Butt-weld.....all sizes	8	1983	2723	2994	2877	3142	3457	3067	3355
	10	2630	3705	4076	3929	4319	4750	4209	4628
	12	3256	4631	5094	4867	5350	5884	5212	5730
	1¼	214	301	331	352	386	425	375	413
	1½	254	353	389	412	452	497	441	482
	2	296	414	456	484	531	584	520	572
	2½	450	635	698	740	811	892	792	874
600-POUND SWING	3	450	635	698	740	811	892	792	874
No. 175.....Flanged.....all sizes	4	716	1009	1110	1148	1262	1388	1232	1352
No. 175½...Butt-weld.....all sizes									
	5	1234	1739	1914	1844	2027	2230	1975	2171
	6	1234	1739	1914	1844	2027	2230	1975	2171
	8	2247	3086	3394	3261	3561	3918	3476	3803
	10	2922	4117	4529	4366	4799	5278	4677	5142
	12	3617	5145	5660	5408	5944	6538	5792	6366
	3	1285	1481	1629	1622	1784	1962	1764	1939
900-POUND SWING	4	1757	2026	2229	2216	2441	2685	2412	2652
No. 187.....Flanged.....all sizes	6	2866	3302	3632	3616	3978	4376	3931	4324
No. 187½...Butt-weld.....all sizes	8	4059	4704	5174	5121	5633	6196	5568	6125
	1½	768	880	969	966	1063	1170	1051	1155
	2	928	1071	1177	1172	1287	1416	1273	1399
	2½	1526	1759	1935	1926	2120	2332	2095	2301
1500-POUND SWING	3	1526	1759	1935	1926	2120	2332	2095	2301
No. 199.....Flanged.....all sizes	4	2138	2457	2704	2696	2964	3260	2934	3224
No. 199½...Butt-weld.....all sizes									
	5	4153	4786	5265	5242	5766	6343	5697	6268
	6	4153	4786	5265	5242	5766	6343	5697	6268
	8	6207	7153	7867	7833	8616	9479	8518	9369

**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 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, 10, and 12"). For 14 and 16-inch 150 and 300-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).

Flange facings....page 9 *Valve description....No. 60 Catalog, pages 156 to 159*

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

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

VALVE SIZE	300-POUND CARBON STEEL (WCB)				600-POUND CARBON STEEL (WCB)			
	STRAIGHT-WAY Y-PATTERN		ANGLE Y-PATTERN		GLOBE PATTERN		ANGLE PATTERN	
Inches	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	...	...	...	...	1455	1455	1455	1455
3	1204	1204	1204	1204	1455	1455	1455	1455
4	1313	1313	1313	1313	1578	1578	1578	1578
5	1428	1428	1428	1428	1818	1818	1818	1818
6	1691	1691	1691	1691	2372	2372	2372	2372
8	2871	2871	2871	2871	3491	3491	3491	3491
10	4517	4517	4517	4517	5300	5300	5300	5300
12	...	...	...	...	7687	7687	7687	7687

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

VALVE SIZE	150 AND 300-POUND VALVES						400 THRU 1500-POUND VALVES					
	STANDARD	SPECIAL					STANDARD	SPECIAL				
	1/16" Raised Face, Regular Serrated Finish*	Smooth Finish			Ring Joint Groove, Smooth Finish	Small or Large Tongue, Groove, Female, or Male; Smooth Finish	Large Male (¼" High), Regular Serrated Finish*	Smooth Finish			Ring Joint Groove, Smooth Finish	Small or Large Tongue, Groove, or Female, or Small Male; Smooth Finish
Inches		125 AARH	63 AARH	32 AARH	(63 AARH)	(125 AARH)		125 AARH	63 AARH	32 AARH	(63 AARH)	(125 AARH)
1	NO EXTRA CHARGE	...	...	...	...	...	NO EXTRA CHARGE	17.00	19.00	27.00	43.00	43.00
1¼		...	...	...	...	...		17.00	19.00	27.00	43.00	43.00
1½		17.00	19.00	27.00	43.00	43.00		17.00	19.00	27.00	43.00	43.00
2		17.00	19.00	27.00	49.00	49.00		17.00	19.00	27.00	49.00	49.00
2½		17.00	19.00	27.00	60.00	60.00		17.00	19.00	27.00	60.00	60.00
3		17.00	19.00	27.00	60.00	60.00		17.00	19.00	27.00	60.00	60.00
3½		23.00	24.00	34.00	73.00	73.00		23.00	24.00	34.00	73.00	73.00
4		23.00	24.00	34.00	73.00	73.00		23.00	24.00	34.00	73.00	73.00
5		24.00	26.00	35.00	88.00	88.00		24.00	26.00	35.00	88.00	88.00
6		24.00	26.00	35.00	88.00	88.00		24.00	26.00	35.00	88.00	88.00
8		30.00	34.00	47.00	99.00	99.00		30.00	34.00	47.00	99.00	99.00
10		35.00	43.00	57.00	114.00	114.00		35.00	43.00	57.00	114.00	114.00
12		42.00	46.00	67.00	129.00	129.00		42.00	46.00	67.00	129.00	129.00
14		58.00	65.00	95.00	140.00	140.00		58.00	65.00	95.00	140.00	140.00
16		71.00	80.00	116.00	159.00	159.00		71.00	80.00	116.00	159.00	159.00
18		77.00	88.00	129.00	172.00	172.00		77.00	88.00	129.00	172.00	172.00
20		86.00	97.00	142.00	206.00	206.00		86.00	97.00	142.00	206.00	206.00
24		99.00	110.00	164.00	254.00	254.00		99.00	110.00	164.00	254.00	254.00
30		120.00	132.00	320.00	462.00	462.00		120.00	132.00	320.00	462.00	462.00
36		156.00	165.00	450.00	610.00	610.00		156.00	165.00	450.00	610.00	610.00

Extra charges for larger sizes, or for special facings and finishes other than listed above, furnished on request.

***Finishes:** The 1/16" raised face and the large male (¼" high) face regularly have a serrated finish (spiral or concentric at factory's option). Concentric serrations are regularly cut about 32 per inch; spiral serrations are regularly cut about 32 per inch on 12" and smaller sizes and about 21 per inch on 14" and larger sizes.

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 36	1

By-passes are furnished only when specified; for main valve sizes regularly available with a by-pass, refer to price pages 2 to 5.

Numerical Index

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30½ XU	9
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55½ XC	1
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61½	4
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199½	8

Catalog numbers listed above without suffix letters are "basic numbers". The complete number will require letter suffixes indicating the trim material, etc.

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 with flexible wedge disc (page 3).

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