

**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  
DECEMBER 27, 1966**

Supersedes Price Schedule  
66-LSV-1, dated April 4, 1966

**CONTENTS**

|                                                            |             |
|------------------------------------------------------------|-------------|
| <b><u>GATE VALVES - SOLID WEDGE DISC</u></b>               | <b>page</b> |
| 150 and 300-Pound, With or Without By-Pass.....            | 2           |
| 150 and 300-Pound, Venturi Flanged.....                    | 3           |
| 400 and 600-Pound, With or Without By-Pass.....            | 4           |
| 900 and 1500-Pound, With or Without By-Pass.....           | 5           |
| <br><b><u>"FLEX GATE" VALVES - FLEXIBLE WEDGE DISC</u></b> |             |
| 150 and 300-Pound, With or Without By-Pass.....            | 3           |
| <br><b><u>GLOBE VALVES</u></b>                             |             |
| 150 to 1500-Pound, Without Gearing .....                   | 6           |
| 300 to 1500-Pound, With Gearing.....                       | 6           |
| <br><b><u>ANGLE VALVES</u></b>                             |             |
| 150 to 900-Pound, Without Gearing .....                    | 7           |
| 300 to 900-Pound, With Gearing.....                        | 7           |
| <br><b><u>SWING CHECK VALVES</u></b>                       |             |
| 150 to 1500-Pound.....                                     | 8           |
| <br><b><u>STOP-CHECK VALVES</u></b>                        |             |
| 300 and 600-Pound.....                                     | 9           |
| <br><b><u>GENERAL INFORMATION</u></b>                      |             |
| Material Specifications.....                               | 1           |
| How to Specify Complete Catalog Numbers.....               | 1           |
| Regular and Special Facings for Flanged Valves..           | 9           |
| Extra Charges for Special Facings.....                     | 9           |
| By-Pass Sizes for Gate Valves.....                         | 9           |

**CRANE**

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

|                 |
|-----------------|
| NUMERICAL INDEX |
|-----------------|

| Cat. No.      | page   | Cat No.     | page |
|---------------|--------|-------------|------|
| 28 XU.....    | 9      | 151.....    | 6    |
| 28½ XU.....   | 9      | 151½.....   | 6    |
| 30 XU.....    | 9      | 153.....    | 7    |
| 30½ XU.....   | 9      |             |      |
| 32.....       | 2 & 3* | 158.....    | 8    |
| BB-32.....    | 3      | 159.....    | 8    |
| 33.....       | 2 & 3* | 159½.....   | 8    |
| BB-33.....    | 3      | 161.....    | 6    |
| 33½.....      | 2 & 3* | 161½.....   | 6    |
| BB-33½.....   | 3      | 163.....    | 7    |
| 35 X or XR... | 3      |             |      |
| 46.....       | 2 & 3* | 169.....    | 8    |
| BB-46.....    | 3      | 169½.....   | 8    |
| 47.....       | 2 & 3* | 171.....    | 6    |
| BB-47.....    | 3      | 171½.....   | 6    |
| 47½.....      | 2 & 3* | 173.....    | 7    |
| BB-47½.....   | 3      | 173½.....   | 7    |
| 49X or XR.... | 3      |             |      |
| 61.....       | 4      | 175.....    | 8    |
| 61½.....      | 4      | 175½.....   | 8    |
| 76.....       | 4      | 179 U.....  | 9    |
| 76½.....      | 4      | 179½ U..... | 9    |
| 83.....       | 5      | 180 U.....  | 9    |
| 83½.....      | 5      | 180½ U..... | 9    |
| 87.....       | 5      | 183.....    | 6    |
| 87½.....      | 5      | 183½.....   | 6    |
|               |        | 185.....    | 7    |
| 142.....      | 6      | 187.....    | 8    |
| 143.....      | 6      | 187½.....   | 8    |
| 143½.....     | 6      | 189.....    | 6    |
| 145.....      | 7      | 189½.....   | 6    |
| 147.....      | 8      |             |      |
| 147½.....     | 8      | 199.....    | 8    |
| 148.....      | 8      | 199½.....   | 8    |

## NOTES

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                                 |
| HALF 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.

§Half 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 &amp; 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<br>SIZE<br><br>Inches                          | CARBON STEEL (WCB)<br>BODY & BONNET<br>WITH SOLID DISC |                      |                       |                                |                                      | No. 7 or "LCB"<br>ALLOY STEEL BODY & BONNET<br>WITH SOLID DISC |                      |                       |                                | No. 3<br>ALLOY STEEL BODY & BONNET<br>WITH SOLID DISC |                      |                       |                                | No. 5<br>ALLOY STEEL BODY & BONNET<br>WITH SOLID DISC |           |                       |                                |
|------------------------------------------------------|--------------------------------------------------------|----------------------|-----------------------|--------------------------------|--------------------------------------|----------------------------------------------------------------|----------------------|-----------------------|--------------------------------|-------------------------------------------------------|----------------------|-----------------------|--------------------------------|-------------------------------------------------------|-----------|-----------------------|--------------------------------|
|                                                      | X, XR,<br>or H<br>Trim                                 | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | Exelloy<br>to Teflon<br>X-TF<br>Trim | X<br>or<br>XR<br>Trim                                          | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>Trim                                             | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>Trim                                             | L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim |
| <b>150-POUND SOLID WEDGE GATE....Without By-Pass</b> |                                                        |                      |                       |                                |                                      |                                                                |                      |                       |                                |                                                       |                      |                       |                                |                                                       |           |                       |                                |
| 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 &amp; 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<br>SIZE                            | PRICE PER VALVE<br>WITH<br>CARBON STEEL (WCB)<br>BODY & BONNET<br>AND<br>FLEXIBLE WEDGE DISC |                         |                                                  | IF VALVES ARE SPECIFIED FOR "BLOCK & BLEED" SERVICE,        |                                                              |                         |                                                             |                                                               |                                                              | TAPPING OR SOCKET<br>DRAIN SIZES<br>FOR<br>BLOCK & BLEED<br>SERVICE |                                 |                                    |
|------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|-------------------------|-------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------|------------------------------------|
|                                          |                                                                                              |                         |                                                  | ADD PER VALVE FOR<br>LOCATION "G" TAPPING*                  |                                                              |                         | ADD PER VALVE FOR<br>LOCATION "H" TAPPING*                  |                                                               |                                                              |                                                                     |                                 |                                    |
|                                          | X-F<br>or<br>XR-F<br>Trim                                                                    | Stellite<br>U-F<br>Trim | Exelloy<br>to Teflon<br>Insert<br>X-F-TF<br>Trim | SCREWED END<br>VALVES                                       |                                                              | FLANGED OR<br>BUTT-WELD | ALL VALVES                                                  |                                                               |                                                              |                                                                     |                                 |                                    |
|                                          |                                                                                              |                         |                                                  | With Boss<br>and with<br>MSS SP-45<br>Tapping or<br>Smaller | W/o Boss<br>and with<br>Tapping<br>Smaller than<br>MSS SP-45 |                         | With Boss<br>and with<br>MSS SP-45<br>Tapping or<br>Smaller | With Boss<br>and with<br>MSS SP-45<br>Tapping or<br>Smaller** | W/o Boss<br>and with<br>Tapping<br>Smaller than<br>MSS SP-45 |                                                                     |                                 |                                    |
| Inches                                   |                                                                                              |                         |                                                  |                                                             |                                                              |                         |                                                             |                                                               |                                                              | MSS<br>SP-45<br>Drain<br>Size                                       | Maximum<br>Size<br>with<br>Boss | Maximum<br>Size<br>without<br>Boss |
| 150-POUND "FLEX GATE"....Without By-Pass |                                                                                              |                         |                                                  |                                                             |                                                              |                         |                                                             |                                                               |                                                              |                                                                     |                                 |                                    |
| 2                                        | \$ 135 †                                                                                     | POA                     | \$ 211                                           | \$ 34.00                                                    | ...                                                          | \$ 11.40                | \$ 34.00                                                    | ...                                                           | 1/2"                                                         | 1/2"                                                                | ...                             | 1/4"                               |
| 2 1/2                                    | 172 †                                                                                        | POA                     | ...                                              | 34.00                                                       | \$ 9.20                                                      | 11.40                   | 34.00                                                       | \$ 9.00                                                       | 1/2"                                                         | 1/2"                                                                | 1/2"                            | 1/4"                               |
| 3                                        | 186                                                                                          | POA                     | 272                                              | 34.00                                                       | 10.40                                                        | 11.40                   | 34.00                                                       | 10.40                                                         | 1/2"                                                         | 1/2"                                                                | 3/8"                            | 3/8"                               |
| 3 1/2                                    | 243                                                                                          | POA                     | ...                                              | ...                                                         | ...                                                          | 11.40                   | 34.00                                                       | 10.40                                                         | 1/2"                                                         | 1/2"                                                                | 3/8"                            | 3/8"                               |
| 4                                        | 243                                                                                          | POA                     | 347                                              | 34.00                                                       | 34.00                                                        | 11.40                   | 34.00                                                       | 10.40                                                         | 1/2"                                                         | 1/2"                                                                | 3/8"                            | 3/8"                               |
| 5                                        | 382                                                                                          | POA                     | ...                                              | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 10.40                                                         | 3/4"                                                         | 3/4"                                                                | 3/8"                            | 3/8"                               |
| 6                                        | 382                                                                                          | POA                     | 536                                              | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 10.40                                                         | 3/4"                                                         | 3/4"                                                                | 3/8"                            | 3/8"                               |
| 8                                        | 601                                                                                          | POA                     | 824                                              | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 10.40                                                         | 3/4"                                                         | 3/4"                                                                | 3/8"                            | 3/8"                               |
| 10                                       | 868                                                                                          | POA                     | 1180                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 11.40                                                         | 1"                                                           | 1"                                                                  | 1/2"                            | 1/2"                               |
| 12                                       | 1127                                                                                         | POA                     | 1543                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 13.60                                                         | 1"                                                           | 1"                                                                  | 3/4"                            | 3/4"                               |
| 150-POUND "FLEX GATE"....With By-Pass    |                                                                                              |                         |                                                  |                                                             |                                                              |                         |                                                             |                                                               |                                                              |                                                                     |                                 |                                    |
| 12                                       | 1408                                                                                         | POA                     | 1838                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 13.60                                                         | 1"                                                           | 1"                                                                  | 3/4"                            | 3/4"                               |
| 300-POUND "FLEX GATE"....Without By-Pass |                                                                                              |                         |                                                  |                                                             |                                                              |                         |                                                             |                                                               |                                                              |                                                                     |                                 |                                    |
| 2                                        | 192 †                                                                                        | POA                     | 278                                              | 34.00                                                       | ...                                                          | 11.40                   | 34.00                                                       | ...                                                           | 1/2"                                                         | 1/2"                                                                | ...                             | 1/4"                               |
| 2 1/2                                    | 229 †                                                                                        | POA                     | ...                                              | 34.00                                                       | 9.20                                                         | 11.40                   | 34.00                                                       | 9.00                                                          | 1/2"                                                         | 1/2"                                                                | 1/2"                            | 1/4"                               |
| 3                                        | 269                                                                                          | POA                     | 365                                              | 34.00                                                       | 9.20                                                         | 11.40                   | 34.00                                                       | 10.40                                                         | 1/2"                                                         | 1/2"                                                                | 3/8"                            | 3/8"                               |
| 4                                        | 355                                                                                          | POA                     | 472                                              | 34.00                                                       | 34.00                                                        | 11.40                   | 34.00                                                       | 10.40                                                         | 1/2"                                                         | 1/2"                                                                | 3/8"                            | 3/8"                               |
| 5                                        | 633                                                                                          | POA                     | ...                                              | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 11.40                                                         | 3/4"                                                         | 3/4"                                                                | 1/2"                            | 1/2"                               |
| 6                                        | 633                                                                                          | POA                     | 811                                              | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 13.60                                                         | **3/4"                                                       | 3/4**                                                               | 3/4"                            | 3/4"                               |
| 8                                        | 879                                                                                          | POA                     | 1136                                             | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 13.60                                                         | **3/4"                                                       | 3/4**                                                               | 3/4"                            | 3/4"                               |
| 10                                       | 1324                                                                                         | POA                     | 1685                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 16.00                                                         | **1"                                                         | 1**                                                                 | 1"                              | 1"                                 |
| 12                                       | 1809                                                                                         | POA                     | 2296                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 16.00                                                         | **1"                                                         | 1**                                                                 | 1"                              | 1"                                 |
| 300-POUND "FLEX GATE"....With By-Pass    |                                                                                              |                         |                                                  |                                                             |                                                              |                         |                                                             |                                                               |                                                              |                                                                     |                                 |                                    |
| 5                                        | 875                                                                                          | POA                     | ...                                              | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 11.40                                                         | 3/4"                                                         | 3/4"                                                                | 1/2"                            | 1/2"                               |
| 6                                        | 875                                                                                          | POA                     | 1063                                             | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 13.60                                                         | **3/4"                                                       | 3/4**                                                               | 3/4"                            | 3/4"                               |
| 8                                        | 1120                                                                                         | POA                     | 1388                                             | ...                                                         | ...                                                          | 13.60                   | 38.80                                                       | 13.60                                                         | **3/4"                                                       | 3/4**                                                               | 3/4"                            | 3/4"                               |
| 10                                       | 1605                                                                                         | POA                     | 1980                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 16.00                                                         | **1"                                                         | 1**                                                                 | 1"                              | 1"                                 |
| 12                                       | 2091                                                                                         | POA                     | 2588                                             | ...                                                         | ...                                                          | 16.00                   | 45.60                                                       | 16.00                                                         | **1"                                                         | 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 &amp; 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 &amp; 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<br>SIZE<br><br>Inches              | CARBON STEEL (WCB)<br>BODY & BONNET |                      |                       |                                | No. 7 or "LCB"<br>ALLOY STEEL BODY & BONNET |                      |                       |                                | No. 3<br>ALLOY STEEL BODY & BONNET |                      |                       |                                | No. 5<br>ALLOY STEEL BODY & BONNET |           |                       |                                |
|------------------------------------------|-------------------------------------|----------------------|-----------------------|--------------------------------|---------------------------------------------|----------------------|-----------------------|--------------------------------|------------------------------------|----------------------|-----------------------|--------------------------------|------------------------------------|-----------|-----------------------|--------------------------------|
|                                          | X<br>or<br>XR<br>Trim               | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>or<br>XR<br>Trim                       | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>Trim                          | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>Trim                          | L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim |
| <b>400-POUND GATE... Without By-Pass</b> |                                     |                      |                       |                                |                                             |                      |                       |                                |                                    |                      |                       |                                |                                    |           |                       |                                |
| 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                            |
| <b>400-POUND GATE... With By-Pass</b>    |                                     |                      |                       |                                |                                             |                      |                       |                                |                                    |                      |                       |                                |                                    |           |                       |                                |
| 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                            |
| <b>600-POUND GATE... Without By-Pass</b> |                                     |                      |                       |                                |                                             |                      |                       |                                |                                    |                      |                       |                                |                                    |           |                       |                                |
| 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                            |
| <b>600-POUND GATE... With By-Pass</b>    |                                     |                      |                       |                                |                                             |                      |                       |                                |                                    |                      |                       |                                |                                    |           |                       |                                |
| 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 &amp; 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<br>SIZE<br><br>Inches | CARBON STEEL (WCB)<br>BODY & BONNET |                      |                       |                                | No. 7 or "LCB"<br>ALLOY STEEL BODY & BONNET |                      |                       |                                | No. 3<br>ALLOY STEEL BODY & BONNET |                      |                       |                                | No. 5<br>ALLOY STEEL BODY & BONNET |           |                       |                                |
|-----------------------------|-------------------------------------|----------------------|-----------------------|--------------------------------|---------------------------------------------|----------------------|-----------------------|--------------------------------|------------------------------------|----------------------|-----------------------|--------------------------------|------------------------------------|-----------|-----------------------|--------------------------------|
|                             | X<br>or<br>XR<br>Trim               | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>or<br>XR<br>Trim                       | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>Trim                          | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>Trim | X<br>Trim                          | L<br>Trim | Stellite<br>U<br>Trim | Half<br>Stellite<br>XU<br>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,<br>TYPE, AND<br>BASIC CATALOG<br>NUMBERS                                   | PRICES<br>APPLY<br>TO<br>VALVES | VALVE<br>SIZE<br><br>Inches                                     | CARBON STEEL<br>(WCB)<br>BODY & BONNET     |                                                                  |                       | No. 7 or "LCB"<br>ALLOY STEEL<br>BODY & BONNET |                      |                       | No. 3<br>ALLOY STEEL<br>BODY & BONNET |                      |                       | No. 5<br>ALLOY STEEL<br>BODY & BONNET |           |                       |      |      |      |      |
|-----------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|-----------------------|------------------------------------------------|----------------------|-----------------------|---------------------------------------|----------------------|-----------------------|---------------------------------------|-----------|-----------------------|------|------|------|------|
|                                                                                         |                                 |                                                                 | X, XR,<br>or H*<br>Trim                    | A<br>or<br>L<br>Trim                                             | Stellite<br>U<br>Trim | X<br>or<br>XR<br>Trim                          | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | X<br>Trim                             | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | X<br>Trim                             | L<br>Trim | Stellite<br>U<br>Trim |      |      |      |      |
|                                                                                         |                                 |                                                                 | (See daggered note<br>for sizes available) |                                                                  |                       |                                                |                      |                       |                                       |                      |                       |                                       |           |                       |      |      |      |      |
| 150-POUND GLOBE<br>No. 142.....Screwed†<br>No. 143.....Flanged<br>No. 143½....Butt-weld | With-<br>out<br>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       | 542                   |      |      |      |      |
|                                                                                         |                                 | †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                  |      |      |      |      |
| 300-POUND GLOBE<br>No. 151.....Flanged<br>No. 151½....Butt-weld                         | With-<br>out<br>Gears           | 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                  |      |      |      |      |
|                                                                                         |                                 | 400-POUND GLOBE<br>No. 161.....Flanged<br>No. 161½....Butt-weld | With-<br>out<br>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  |      |      |
| 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                  |      |      |      |      |
| 600-POUND GLOBE<br>No. 171.....Flanged<br>No. 171½....Butt-weld                         | With-<br>out<br>Gears           | 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                  |      |      |      |      |
|                                                                                         |                                 | 900-POUND GLOBE<br>No. 183.....Flanged<br>No. 183½....Butt-weld | With<br>Gears                              | 8                                                                | POA                   | POA                                            | POA                  | POA                   | POA                                   | POA                  | POA                   | POA                                   | POA       | POA                   | POA  | POA  |      |      |
|                                                                                         |                                 |                                                                 |                                            | 1500-POUND GLOBE<br>No. 189.....Flanged<br>No. 189½....Butt-weld | With<br>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 |      |      |
| 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                   |      |      |      |      |

\*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,<br>TYPE, AND<br>BASIC CATALOG<br>NUMBERS            | PRICES<br>APPLY<br>TO<br>VALVES | VALVE<br>SIZE<br><br>Inches | CARBON STEEL<br>(WCB)<br>BODY & BONNET |                      |                       | No. 7 or "LCB"<br>ALLOY STEEL<br>BODY & BONNET |                      |                       | No. 3<br>ALLOY STEEL<br>BODY & BONNET |                      |                       | No. 5<br>ALLOY STEEL<br>BODY & BONNET |           |                       |
|------------------------------------------------------------------|---------------------------------|-----------------------------|----------------------------------------|----------------------|-----------------------|------------------------------------------------|----------------------|-----------------------|---------------------------------------|----------------------|-----------------------|---------------------------------------|-----------|-----------------------|
|                                                                  |                                 |                             | X, XR,<br>or H*<br>Trim                | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | X<br>or<br>XR<br>Trim                          | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | X<br>Trim                             | A<br>or<br>L<br>Trim | Stellite<br>U<br>Trim | X<br>Trim                             | L<br>Trim | Stellite<br>U<br>Trim |
| 150-POUND ANGLE<br>No. 145.....Flanged                           | With-<br>out<br>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<br>No. 153.....Flanged                           | With-<br>out<br>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                  |
|                                                                  | With<br>Gears                   | 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                  |
|                                                                  |                                 |                             | POA                                    | POA                  | POA                   | POA                                            | POA                  | POA                   | POA                                   | POA                  | POA                   | POA                                   | POA       | POA                   |
|                                                                  |                                 |                             |                                        |                      |                       |                                                |                      |                       |                                       |                      |                       |                                       |           |                       |
| 400-POUND ANGLE<br>No. 163.....Flanged                           | With-<br>out<br>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<br>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<br>No. 173.....Flanged<br>No. 173½.....Butt-weld | With-<br>out<br>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<br>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<br>No. 185.....Flanged                           | With-<br>out<br>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<br>Gears                   | 4                           | POA                                    | POA                  | POA                   | POA                                            | POA                  | POA                   | POA                                   | POA                  | POA                   | POA                                   | POA       | POA                   |
|                                                                  |                                 |                             | 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                   |

\*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,<br>BASIC CATALOG NOS.,<br>AND<br>SIZES AVAILABLE                                                                                 | VALVE<br>SIZE<br><br>Inches | CARBON STEEL<br>(WCB)<br>BODY & CAP |                | No. 7 or "LCB"<br>ALLOY STEEL<br>BODY & CAP |                | No. 3<br>ALLOY STEEL<br>BODY & CAP |                | No. 5<br>ALLOY STEEL<br>BODY & CAP |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|----------------|---------------------------------------------|----------------|------------------------------------|----------------|------------------------------------|-----------|
|                                                                                                                                                     |                             | X or H*<br>Trim                     | A or L<br>Trim | X<br>Trim                                   | A or L<br>Trim | X<br>Trim                          | A or L<br>Trim | X<br>Trim                          | L<br>Trim |
| <b>150-POUND SWING</b><br>No. 148.....Screwed.....2, 2½, 3, 4"<br>No. 147.....Flanged.....all sizes<br>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       |
| <b>300-POUND SWING</b><br>No. 158.....Screwed.....2, 2½, 3"<br>No. 159.....Flanged.....all sizes<br>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      |
| <b>400-POUND SWING</b><br>No. 169.....Flanged.....all sizes<br>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      |
| <b>600-POUND SWING</b><br>No. 175.....Flanged.....all sizes<br>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      |
| <b>900-POUND SWING</b><br>No. 187.....Flanged.....all sizes<br>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      |
| <b>1500-POUND SWING</b><br>No. 199.....Flanged.....all sizes<br>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<br>SIZE<br><br>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<br>Flanged         | No. 28½ XU<br>Butt-weld | No. 30 XU<br>Flanged | No. 30½ XU<br>Butt-weld | No. 179 U<br>Flanged         | No. 179½ U<br>Butt-weld | No. 180 U<br>Flanged | No. 180½ U<br>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<br>(No Extra Charge) | SPECIAL FACINGS<br>(Prices on Application) | SPECIAL FACINGS<br>(Add Charge Listed at Right)                                                              | EXTRA CHARGE<br>FOR<br>SPECIAL FACINGS |                  |
|-------------------------------|--------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|
|                               |                                      |                                            |                                                                                                              | Valve<br>Size                          | Add<br>Per Valve |
| 150-POUND<br>AND<br>300-POUND | ⅛" RAISED FACE                       | —                                          | Ring Joint<br>Large or Small Male<br>Large or Small Female<br>Large or Small Tongue<br>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<br>TO<br>1500-POUND | LARGE MALE FACE                      | ⅛-inch Raised Face                         | Ring Joint<br>Small Male<br>Large or Small Female<br>Large or Small Tongue<br>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<br>Inches | BY-PASS SIZE<br>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.