

# M-303 SLAB GATE VALVE FOR HIGH PRESSURE DIFFERENTIAL APPLICATIONS

HELPS MINIMIZE FUGITIVE EMISSIONS  
DESIGNED AND TESTED FOR API 6D  
EASY INSTALLATION AND MAINTENANCE

M&J VALVE®



The M&J Valve M-303 is an advanced design slab gate valve for high pressure differential applications in the oil & gas sector. It offers a host of features to simplify installation and upgrades, improve safety and reduce environmental impacts.

## Reduced environmental impacts

The M-303 features a floating slab gate that uses the natural force of line pressure to obtain a reliable, dynamically tight downstream seal in high pressure differential applications. Low pressure sealing is accomplished with one wave spring that energizes the seat, pushing it firmly against the gate. M&J Valves were designed, manufactured and tested in a plant whose Quality Management System was certified as being in conformity with API-Q1 and ISO 9001:2015 by a certification body.

## Simplified installation

Operator mounting and conversions are simplified thanks to a two-piece stem (14" and larger) and common yoke design. A transparent plastic stem cover gives operators visual confirmation of the valve status. Seat lubrication ports are supplied on the valve body as standard, making it easy to add sealant kits after the valve is installed in the line.

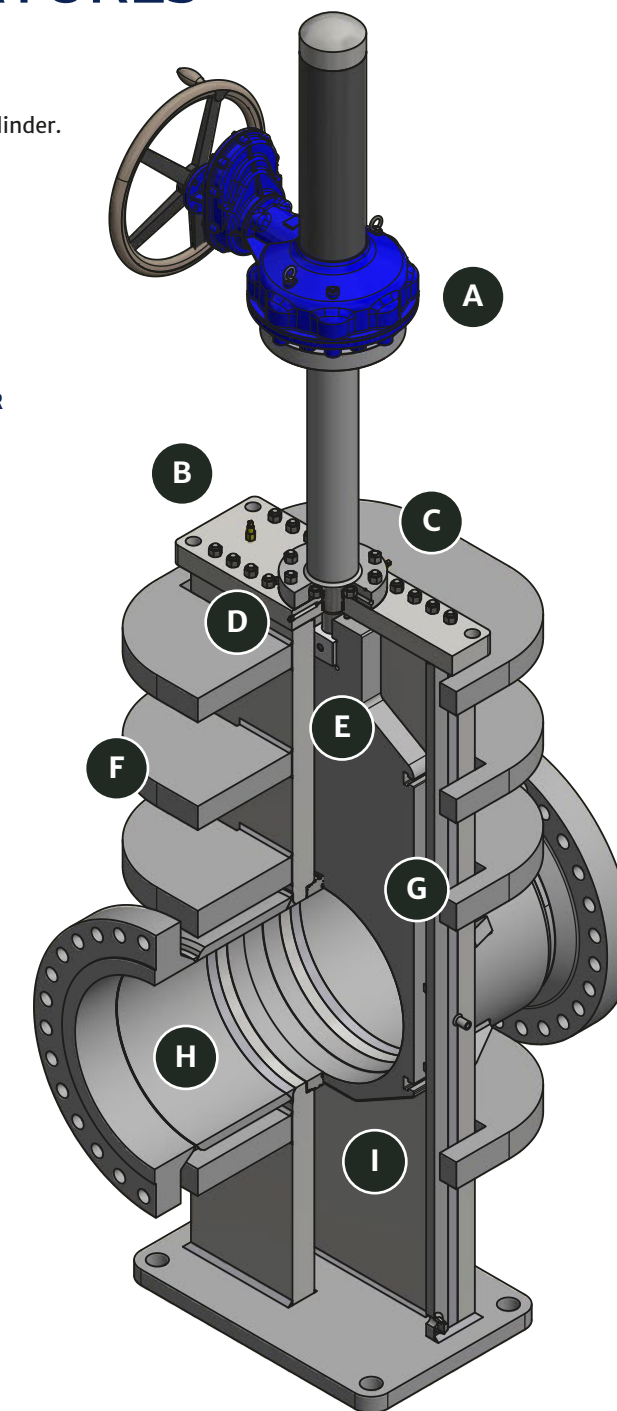
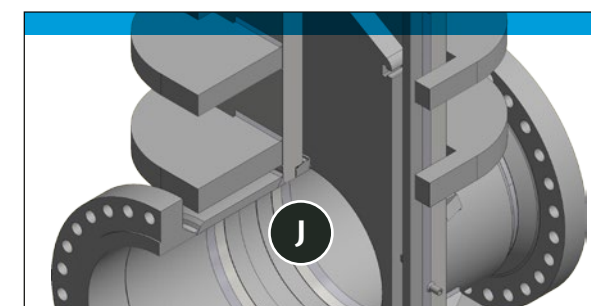
## Easier maintenance, lower TCO

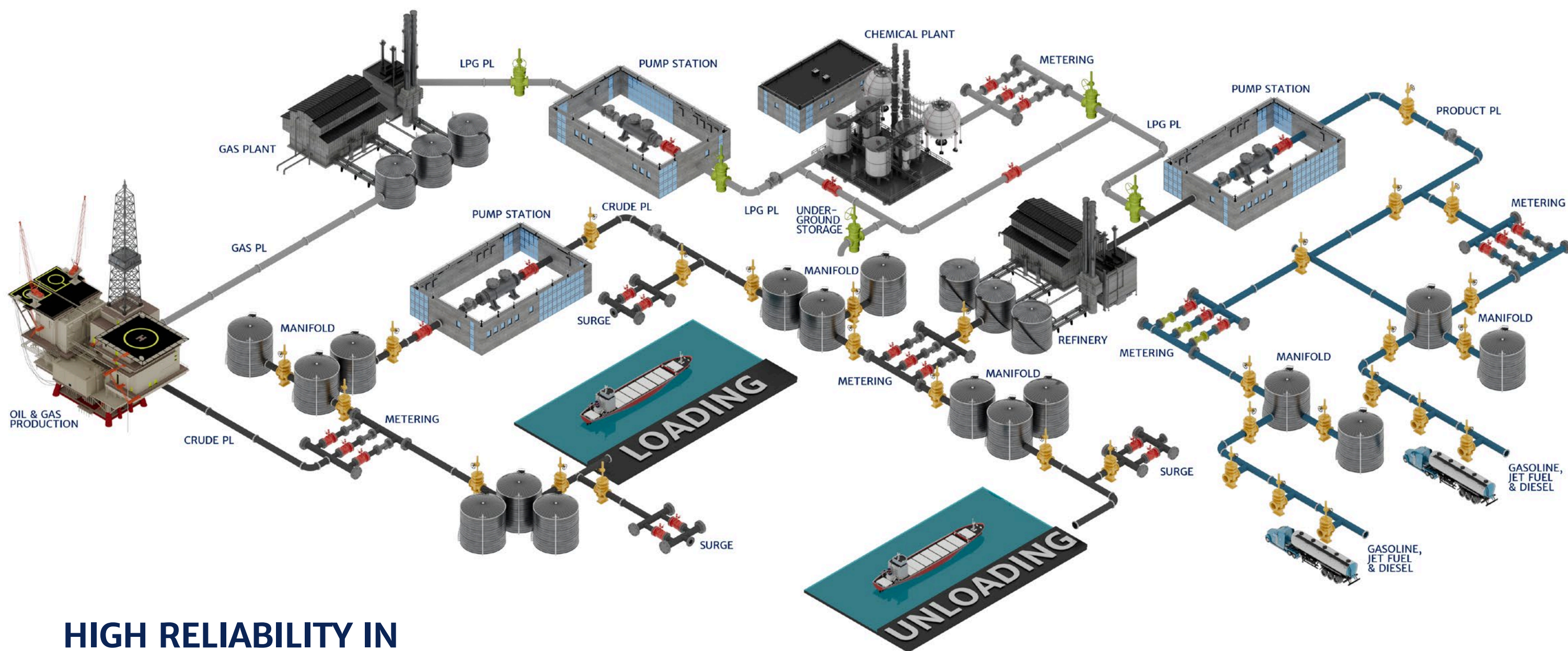
The M-303 offers versatility and ease of maintenance to deliver lower total cost of ownership (TCO). The two-piece stem allows different materials to be used in wetted areas to improve service life, while standard material is used for stem threads for a cost-competitive solution. Multiple seat springs have been replaced with a single seat spring ring, which is quicker to replace. No packing tightness intervention is required throughout the packing's lifecycle, minimizing downtime. Efficient valve design means there is no need for a cupola, allowing quicker access to the bonnet O-ring. The latest M-303 models have the same footprint as previous versions, so upgrading your existing M-303 valve couldn't be simpler. Components are also forwards and backwards compatible.

- Available in line sizes 6" - 84", class 150-2500
- Choice of manual, electric, hydraulic or pneumatic cylinder actuators
- Manufactured and tested to API 6D
- Certified fire-safe to API6FA / ISO10497
- Fully interchangeable with most other slab gate valves

# M-303 KEY FEATURES

- A CHOICE OF OPERATOR**
  - Manual, electric, hydraulic or pneumatic cylinder.
- B TOP ENTRY**
  - For in-line maintenance.
- C PRIMARY STEM SEALS**
  - Standard Graphite Spring Loaded Seal (SLS) Stem packing for longer service life.
- D SECONDARY STEM SEAL/PACKING INJECTOR**
  - A backup safety feature using plastic non-flammable stem sealant.
- E FLOATING SLAB GATE**
  - Utilizing line pressure to obtain a dynamically tight seal pushing it against the energized seat.
- F ADVANCED FABRICATED BODY CONSTRUCTION**
  - Fabricated body minimum cavity volume.
  - Optimized rib design and position to enhance pressure containment integrity of the valve body.
- G TRIM MATERIALS**
  - Choice of body and trim materials, including regular, low temperature and sour crude services (NACE) designs.
- H FULL THRU-CONDUIT PORT**
  - For easy passage of pigs, wipers, and scrapers.
- I BLOCK & BLEED AND SELF RELIEVING**
  - Design Based on API 6D.
- J SPRING/PRESSURE LOADED SEAT RINGS**
  - With one wave spring, line pressure and nylon/elastomer seals provides a continuous positive seal in low or high pressure differential service.





## HIGH RELIABILITY IN MULTIPLE APPLICATIONS

The M-303 is suited to a wide range of applications in oil, gas, liquid products and secondary recovery, including:

- Mainline block valves
- Tank and station valves
- Block & bleed valves
- Manifold valves
- Launcher/receiver trap valves
- Meter bypass valves
- Emergency shutdown valves
- Hot tap valves



SLAB GATE VALVE



EXPANDING GATE VALVE



DANFLO

TECHNICAL SPECIFICATIONS

TABLE 1 – OPERATIONAL PARAMETERS

| Type                            | Description                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| Size and Pressure ratings       | NPS 6 to 42 Class 150                                                                                     |
|                                 | NPS 6 to 42 Class 300                                                                                     |
|                                 | NPS 6 to 36 Class 600                                                                                     |
|                                 | NPS 6 to 30 Class 900                                                                                     |
| Fluid Media                     | Liquid                                                                                                    |
| Flow Direction                  | Bi-Directional                                                                                            |
| Process Temperature             | –20°F to 250°F (–29°C to 121°C)                                                                           |
| Opening                         | Full Bore (Thru Conduit)                                                                                  |
| Alternative Process Temperature | –50°F to 250°F (–45°C to 121°C)                                                                           |
| Maximum Working Pressure        | 2,200 psi (ANSI 900)                                                                                      |
| Differential Pressure           | 2,200 psi (ANSI 900)                                                                                      |
| Design, Manufacture and Test    | API 6D                                                                                                    |
| Face to Face                    | API 6D                                                                                                    |
| Sour Service                    | NACE MR0175                                                                                               |
| End Connections                 | – Raised Face and RTJ per ANSI B16.5 (24" and smaller, except 22")<br>MSS-SP-44 (22" and larger than 24") |
|                                 | – Welded Ends                                                                                             |
| Stem Packing                    | SLS (Spring Loaded Seals)                                                                                 |

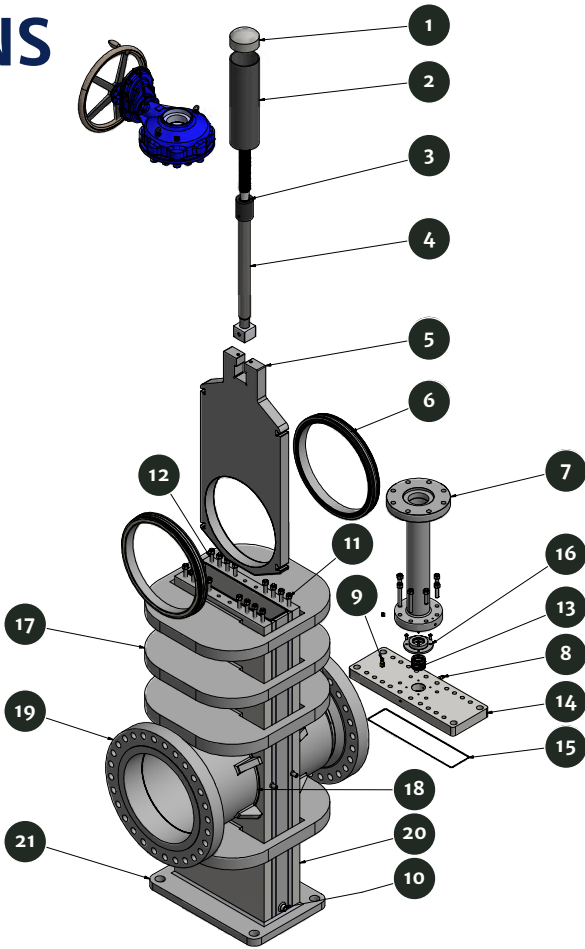


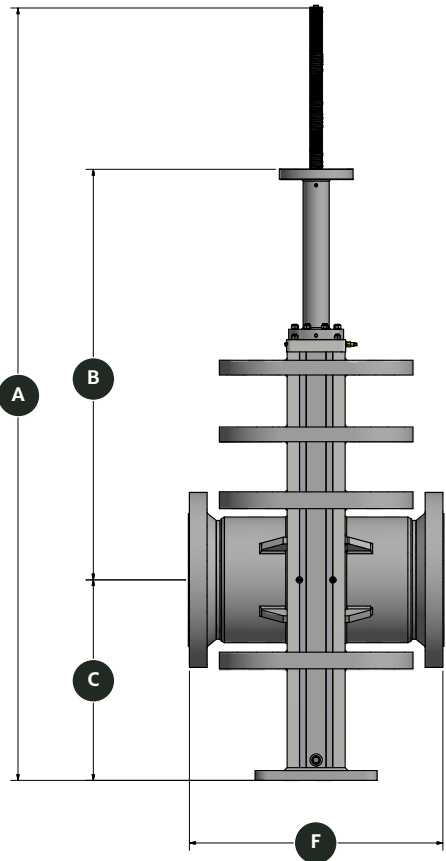
TABLE 2 – METHOD OF CONSTRUCTION

| Component                                         | Regular Service<br>–20°F to +250°F (–29°C to +121°C) | Low Temperature<br>–50°F to +250°F (–46°C to +121°C) |
|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| 1. Stem Protector Cap                             | PVC                                                  | PVC                                                  |
| 2. Stem Protector                                 | PVC (Clear)                                          | PVC (Clear)                                          |
| 3. Downstop Coupling                              | 1018 CF                                              | 1018 CF                                              |
| 4. Stem Assembly                                  | ASTM A564/A705 Gr. 630 H1150D/M                      | ASTM A564/A705 Gr. 630 H1150D/M                      |
| 5. Gate                                           | ASTM A516 Gr. 70 Coated*                             | ASTM A516 Gr. 70 Coated*                             |
|                                                   | ASTM A516 Gr. 70 Coated*                             | ASTM A516 Gr. 70 Coated* or A350 LF2                 |
| 6. Seat Rings<br>Springs<br>Seat Seals<br>O-Rings | CS/Inconel                                           | CS/Inconel                                           |
|                                                   | FKM/Nylon                                            | FKM/Nylon                                            |
|                                                   | FKM                                                  | LT Nitrile                                           |
| 7. Packing Injector                               | 1215                                                 | 4140                                                 |
| 8. Stem Packing Release Valve (1/2")              | 12 L 14                                              | 1018                                                 |
| 9. Body Pressure Bleed Valve (1/2")               | 12 L 14                                              | 1018                                                 |
| 10. Body Drain Plug                               | ASTM A105                                            | ASTM A350-LF2                                        |
| 11. Studs                                         | ASTM A193 B7                                         | ASTM A320 L7                                         |
| 12. Hex Nuts                                      | ASTM A194 2H                                         | ASTM A194 Gr. 7                                      |
| 13. Stem Packing                                  | Graphite/Teflon/400SS                                | Graphite/Teflon/400SS                                |
| 14. Bonnet                                        | ASTM A516 Gr. 70                                     | ASTM A516 Gr. 70                                     |
| 15. Bonnet O-Ring                                 | Viton GFLT                                           | Low Temp Nitrile                                     |
| 16. Packing Retainer                              | AISI 10122                                           | AISI 10122                                           |
| 17. Ribs                                          | ASTM A516 Gr. 70                                     | ASTM A516 Gr. 70                                     |
| 18. Transition Pipe                               | API 5LX or A381Y50                                   | ASTM A333 GR.6, API 5L, or A381Y50                   |
| 19. Flanges (RF or RTJ)                           | ASTM A105                                            | ASTM A350 LF2                                        |
| 20. Body Tube                                     | ASTM A516 Gr. 70                                     | ASTM A516 Gr. 70                                     |
| 21. Bottom Plate                                  | ASTM A516 Gr. 70                                     | ASTM A516 Gr. 70                                     |

M-303 WEIGHTS AND DIMENSIONS

CLASS 150

| Valve Size |    | A        |           | B       | C       | F     |        |         | Weight Lb/(Kg) |       |
|------------|----|----------|-----------|---------|---------|-------|--------|---------|----------------|-------|
|            |    | A (Open) | A (Close) |         |         | RF    | WE     | RTJ     | FE             | WE    |
| 6          | in | 69.56    | 62.56     | 31.31   | 13.13   | 10.50 | 15.88  | 11.00   | 486            | 440   |
| 150        | mm | 1767     | 1589      | 795     | 334     | 267   | 403.00 | 279.00  | 220            | 200   |
| 8          | in | 81.44    | 72.38     | 36.13   | 16.00   | 11.50 | 16.50  | 12.00   | 788            | 710   |
| 200        | mm | 2068     | 1838      | 918     | 406     | 292   | 419    | 305     | 357            | 322   |
| 10         | in | 97.38    | 86.00     | 42.63   | 20.00   | 13.00 | 18.00  | 1350.00 | 1320           | 1220  |
| 250        | mm | 2473     | 2184      | 1083    | 508     | 330   | 457    | 343     | 599            | 553   |
| 12         | in | 109.88   | 96.38     | 47.94   | 22.94   | 14.00 | 19.75  | 14.50   | 1768           | 1600  |
| 300        | mm | 2791     | 2448      | 1218    | 583     | 356   | 502    | 368     | 802            | 726   |
| 16         | in | 130.00   | 113.38    | 57.50   | 27.13   | 16.00 | 24.00  | 16.50   | 2524           | 2140  |
| 400        | mm | 3302     | 2880      | 1461    | 689     | 406   | 610    | 419     | 1145           | 971   |
| 18         | in | 143.69   | 124.88    | 63.63   | 30.44   | 17.00 | 26.00  | 17.50   | 3162           | 2760  |
| 450        | mm | 3650     | 3172      | 1616    | 773     | 432   | 660    | 445     | 1434           | 1252  |
| 20         | in | 157.13   | 136.13    | 69.63   | 33.75   | 18.00 | 28.00  | 18.50   | 3864           | 3310  |
| 500        | mm | 3991     | 3458      | 1768    | 857     | 4577  | 711    | 470     | 1664           | 1501  |
| 24         | in | 183.25   | 158.06    | 80.31   | 40.19   | 20.00 | 32.00  | 20.50   | 5898           | 5290  |
| 600        | mm | 4655     | 4015      | 2040    | 1021    | 508   | 813    | 521     | 2675           | 2399  |
| 26         | in | 165.33   | 138.27    | 87.19   | 43.31   | 22.00 | 34.00  | –       | 6460           | 5880  |
| 650        | mm | 4199.38  | 3512.06   | 2214.63 | 1100.07 | 558.8 | 863.6  | –       | 2930           | 2667  |
| 30         | in | 223.50   | 192.25    | 99.00   | 49.75   | 26.00 | 36.00  |         | 9506           | 8880  |
| 750        | mm | 5677     | 4883      | 2515    | 1264    | 660   | 914    |         | 4311           | 4027  |
| 36         | in | 260.31   | 223.06    | 115.38  | 58.75   | 32.00 | 40.00  |         | 14306          | 13270 |
| 900        | mm | 6612     | 5666      | 2931    | 1492    | 813   | 1016   |         | 6488           | 6018  |
| 42         | in | 304.25   | 260.50    | 135.81  | 69.00   | 64.00 | 64.00  |         | 23605          | 22243 |
| 1050       | mm | 7728     | 6617      | 3450    | 1753    | 1626  | 1626   |         | 9325           | 87075 |



CLASS 300

| Valve Size |    | A        |           | B       | C       | F      |        |        | Weight Lb/(Kg) |       |
|------------|----|----------|-----------|---------|---------|--------|--------|--------|----------------|-------|
|            |    | A (Open) | A (Close) |         |         | RF     | WE     | RTJ    | FE             | WE    |
| 6          | in | 69.56    | 62.56     | 31.31   | 12.63   | 15.88  | 15.88  | 16.50  | 583            | 501   |
| 150        | mm | 1767     | 1589      | 795     | 321     | 403    | 403    | 419.00 | 237            | 200   |
| 8          | in | 81.44    | 72.38     | 36.13   | 16.00   | 16.50  | 16.50  | 17.13  | 8441           | 710   |
| 200        | mm | 2068     | 1838      | 918     | 406     | 419    | 419    | 435    | 3828           | 322   |
| 10         | in | 97.38    | 86.00     | 42.63   | 20.00   | 18.00  | 18.00  | 18.63  | 1570           | 1410  |
| 250        | mm | 2473     | 2184      | 1083    | 508     | 457    | 457    | 473    | 712            | 639   |
| 12         | in | 109.88   | 96.38     | 47.94   | 22.94   | 19.75  | 19.75  | 20.38  | 2080           | 1850  |
| 300        | mm | 2791     | 2448      | 1218    | 583     | 502    | 502    | 518    | 943            | 839   |
| 16         | in | 130.75   | 114.13    | 57.50   | 27.88   | 33.00  | 33.00  | 33.63  | 3130           | 2500  |
| 400        | mm | 3321     | 2899      | 1461    | 708     | 838    | 838    | 854    | 1420           | 1134  |
| 18         | in | 144.19   | 125.38    | 63.63   | 31.19   | 36.00  | 36.00  | 36.63  | 4374           | 3630  |
| 450        | mm | 3662     | 3185      | 1616    | 792     | 914    | 914    | 930    | 1984           | 1646  |
| 20         | in | 159.50   | 161.63    | 70.75   | 34.50   | 39.00  | 39.00  | 39.75  | 5810           | 4836  |
| 500        | mm | 4051     | 4105      | 1797    | 876     | 991    | 991    | 1010   | 2437           | 1995  |
| 24         | in | 186.81   | 161.63    | 83.13   | 40.94   | 45.00  | 45.00  | 45.88  | 10074          | 8814  |
| 600        | mm | 4745     | 4105      | 2112    | 1,040   | 1143   | 1143   | 1165   | 3719           | 3147  |
| 28         | in | 176.90   | 147.90    | 94.38   | 46.50   | 53.00  | 53.00  | 54.00  | 13720          | 12320 |
| 700        | mm | 4493.26  | 3756.66   | 2397.25 | 1181.1  | 1346.2 | 1346.2 | 1371.6 | 6223           | 5588  |
| 30         | in | 225.31   | 194.06    | 101.38  | 49.75   | 55.00  | 55.00  | 56.00  | 15618          | 14410 |
| 750        | mm | 5723     | 4829      | 2575    | 1,264   | 1397   | 1397   | 1422   | 5400           | 8453  |
| 32         | in | 204.72   | 171.47    | 110.75  | 53.75   | 60.00  | 60.00  | 61.13  | 18970          | 17070 |
| 800        | mm | 5199.89  | 4355.34   | 2813.05 | 1365.25 | 1524   | 1524   | 1552.7 | 8605           | 7743  |
| 36         | in | 270.25   | 233.00    | 122.06  | 49.75   | 66.00  | 66.00  | 69.13  | 20932          | 19250 |
| 900        | mm | 6864     | 5918      | 3100    | 1,264   | 1727   | 1727   | 1756   | 8536           | 7773  |
| 42         | in | 309.88   | 266.13    | 138.19  | 69.50   | 84.00  | 84.00  |        | 35500          | 34234 |
| 1050       | mm | 7871     | 6760      | 3510    | 1,765   | 2134   | 2134   |        | 12923          | 12349 |
| 48         | in | 294.75   | 245.13    | 156.38  | 78.75   | 90.00  | 90.00  |        | 47625          | 45200 |
| 1200       | mm | 7486.65  | 6226.30   | 3972.05 | 2000.25 | 2286   | 2286   |        | 21602          | 20502 |

CLASS 600

| Valve Size |    | A        |           | B       | C      | F      |        |         | Weight Lb/(Kg) |       |
|------------|----|----------|-----------|---------|--------|--------|--------|---------|----------------|-------|
|            |    | A (Open) | A (Close) |         |        | RF     | WE     | RTJ     | FE             | WE    |
| 6          | in | 68.56    | 61.56     | 31.31   | 12.63  | 22.00  | 22.00  | 22.13   | 653            | 513   |
| 150        | mm | 1742     | 1564      | 795     | 321    | 559    | 559    | 562     | 272            | 209   |
| 8          | in | 81.44    | 72.38     | 36.13   | 16.00  | 26.00  | 26.00  | 26.13   | 1011           | 821   |
| 200        | mm | 2068     | 86        | 918     | 406    | 660    | 660    | 664.00  | 431            | 331   |
| 10         | in | 97.38    | 2184.00   | 42.63   | 20.00  | 31.00  | 31.00  | 31.13   | 1750           | 1410  |
| 250        | mm | 2473     | 97        | 1083    | 508    | 787    | 787    | 791     | 794            | 639   |
| 12         | in | 110.38   | 96.88     | 47.94   | 23.44  | 33.00  | 33.00  | 33.13   | 2520           | 2100  |
| 300        | mm | 2804     | 2461      | 1218    | 595    | 838    | 838    | 841     | 1143           | 952   |
| 14         | in | 100.06   | 85.43     | 52.75   | 25.13  | 35.00  | 35.00  | 35.13   | 3440           | 3000  |
| 350        | mm | 2541.52  | 2169.92   | 1339.85 | 638.30 | 889    | 889    | 892.30  | 1560           | 1361  |
| 16         | in | 131.50   | 114.88    | 58.25   | 28.13  | 39.00  | 39.00  | 39.13   | 4218           | 3336  |
| 400        | mm | 3340     | 2918      | 1480    | 715    | 991    | 991    | 994     | 1833           | 1433  |
| 18         | in | 147.56   | 128.75    | 66.50   | 31.69  | 43.00  | 43.00  | 43.13   | 6177           | 6015  |
| 450        | mm | 3748     | 3270      | 1689    | 805    | 1092   | 1092   | 1092    | 2477           | 1995  |
| 20         | in | 161.00   | 140.00    | 71.25   | 34.75  | 47.00  | 47.00  | 47.25   | 7989           | 6763  |
| 500        | mm | 4089     | 3556      | 1822    | 883    | 1194   | 1194   | 1200    | 3368           | 2812  |
| 22         | in | 148.00   | 125.00    | 79.06   | 38.13  | 51.00  | 51.00  | 51.38   | 10720          | 9720  |
| 700        | mm | 3759.2   | 3175      | 2008.12 | 968.50 | 1295.4 | 1295.4 | 1305.05 | 4862           | 4408  |
| 24         | in | 190.50   | 165.31    | 83.94   | 41.69  | 55.00  | 55.00  | 55.38   | 12947          | 11183 |
| 600        | mm | 4839     | 4199      | 2132    | 1052   | 1397   | 1397   | 1407    | 5158           | 4358  |
| 30         | in | 232.44   | 201.19    | 104.50  | 50.75  | 65.00  | 65.00  | 65.50   | 21812          | 19612 |
| 750        | mm | 5904     | 5110      | 2654    | 1289   | 1651   | 1651   | 1664    | 8141           | 7143  |
| 32         | in | 207.12   | 173.87    | 109.63  | 54.50  | 70.00  | 70.00  | 70.63   | 26800          | 24900 |
| 800        | mm | 5260.85  | 4416.3    | 2784.60 | 1384.3 | 1778   | 1778   | 1794    | 12156          | 11294 |
| 36         | in | 270.31   | 233.06    | 120.88  | 60.25  | 82.00  | 82.00  | 85.63   | 30194          | 27200 |
| 900        | mm | 6866     | 5920      | 3070    | 1530   | 2083   | 2083   | 2175    | 13693          | 12336 |
| 42         | in | 311.50   | 267.75    | 138.61  | 70.25  | 98.00  | 98.00  |         | 46890          | 43446 |
| 1050       | mm | 7912     | 6801      | 3526    | 1784   | 2489   | 2489   |         | 18315          | 16753 |

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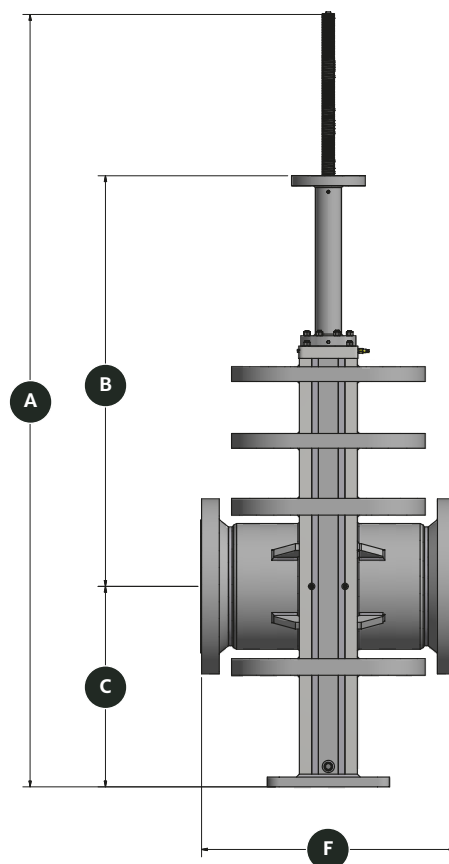
## CLASS 900

| Valve Size |    | A        |           | B       | C       | F      |        |         | Weight Lb/(Kg) |       |
|------------|----|----------|-----------|---------|---------|--------|--------|---------|----------------|-------|
|            |    | A (Open) | A (Close) |         |         | RF     | WE     | RTJ     | FE             | WE    |
| 6          | in | 69.06    | 62.06     | 30.81   | 13.13   | 24.00  | 24.00  | 24.13   | 865            | 677   |
| 150        | mm | 1754     | 1576      | 783     | 333     | 610    | 610    | 613     | 298            | 213   |
| 8          | in | 81.94    | 72.88     | 36.13   | 16.50   | 29.00  | 29.00  | 29.13   | 1427           | 1075  |
| 200        | mm | 2081     | 1851      | 918     | 419     | 737    | 737    | 740.00  | 532            | 372   |
| 10         | in | 97.88    | 86.50     | 42.63   | 20.25   | 33.00  | 33.00  | 33.13   | 2736           | 2246  |
| 250        | mm | 2486     | 2197      | 1083    | 514     | 838    | 838    | 841     | 930            | 707   |
| 12         | in | 110.63   | 97.13     | 47.94   | 23.69   | 38.00  | 38.00  | 38.13   | 3524           | 2874  |
| 300        | mm | 2810     | 2467      | 1218    | 602     | 965    | 965    | 968     | 1410           | 1116  |
| 14         | in | 101.72   | 87.09     | 54.00   | 25.88   | 40.50  | 40.50  | 40.88   | 5130           | 4410  |
| 350        | mm | 2583.69  | 2212.09   | 1371.6  | 657.35  | 1028.7 | 1028.7 | 1038.35 | 2326           | 2000  |
| 16         | in | 119.69   | 118.55    | 61.06   | 29.00   | 44.50  | 44.50  | 44.88   | 6703           | 5611  |
| 400        | mm | 3040     | 3012      | 1551    | 737     | 1130   | 1130   | 1140    | 2337           | 1841  |
| 18         | in | 126.88   | 108.06    | 68.38   | 32.69   | 48.00  | 48.00  | 48.50   | 8018           | 6560  |
| 450        | mm | 3434     | 2745      | 1737    | 830     | 1219   | 1219   | 1232    | 3637           | 2976  |
| 20         | in | 167.19   | 146.19    | 74.25   | 36.25   | 52.00  | 52.00  | 52.50   | 11510          | 9752  |
| 500        | mm | 4247     | 3713      | 1886    | 921     | 1321   | 1321   | 1334    | 4362           | 3565  |
| 24         | in | 194.75   | 159.56    | 87.06   | 42.56   | 61.00  | 61.00  | 57.00   | 18427          | 15327 |
| 600        | mm | 4947     | 4307      | 2211    | 1081    | 1549   | 1549   | 1448    | 7111           | 5705  |
| 30         | in | 235.00   | 203.75    | 106.06  | 5175.00 | 85.00  | 85.00  | 61.75   | 29264          | 25284 |
| 750        | mm | 5969     | 5175      | 2694    | 1314    | 2159   | 2159   | 1568    | 11782          | 9977  |
| 36         | in | 235.06   | 197.81    | 126.69  | 60.63   | 92.00  | 92.00  |         | 54700          | 48980 |
| 900        | mm | 5970.52  | 5024.37   | 3217.93 | 1540    | 2336.8 | 2336.8 |         | 24811          | 22216 |

## CLASS 1500

| Valve Size |    | A        |           | B     | C     | F     |       |       | Weight Lb/(Kg) |      |
|------------|----|----------|-----------|-------|-------|-------|-------|-------|----------------|------|
|            |    | A (Open) | A (Close) |       |       | RF    | WE    | RTJ   | FE             | WE   |
| 6          | in | 59.25    | 52.25     | 31.31 | 14.38 | 27.75 | 27.75 | 28.00 | 3800           | 2900 |
| 150        | mm | 1505     | 1327      | 795   | 365   | 705   | 705   | 711   | 1724           | 1315 |
| 10         | in | 88.09    | 76.71     | 46.38 | 21.88 | 39.00 | 39.00 | 39.38 | 4250           | 3410 |
| 250        | mm | 2237     | 1948      | 1178  | 556   | 991   | 991   | 1000  | 1928           | 1547 |

Please consult the M&J team for Class 2500 and bigger sizes.



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MJ\_M303\_621\_A4\_05/2026

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