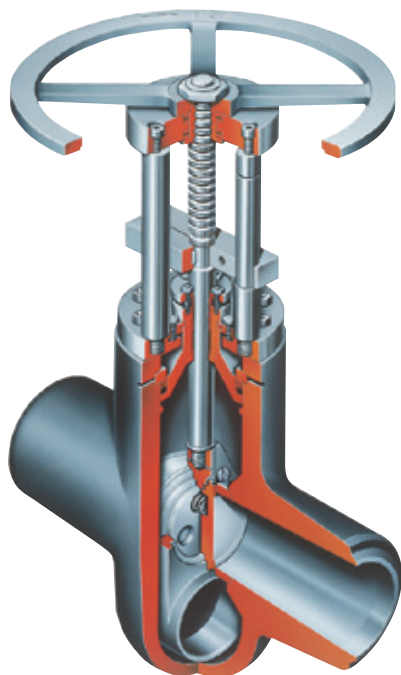




SEMPPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

High pressure and temperature parallel slide gate valve. The eyelet follower (conduit) design provides long reliable service life and allows for high seat velocities without detriment to service life.



FEATURES

- Excellent reliability
 - Eyelet follower providing a smooth flow path and maximum performance
 - Self cleaning action between disk and seat
 - Welded-in seats hard-faced with Stellite® or equivalent
 - Seat surface protection provides extended life
- Low cost maintenance
 - Expanded graphite pressure seal and gland packing
 - Lower operating forces than wedge gate design
 - Interchangability of parts
 - Simplified seat refurbishment (only requires flat lapping, no critical angles to be matched to ensure sealing capability)
 - Longer seat life with eyelet follower, due to reduced erosion
- Improved performance
 - Lower pressure drop characteristic than wedge gate valve
 - Minimized flow turbulence
 - Reduced actuator size/cost by 30% when compared to wedge gate
 - Higher allowable seat velocity
 - Improved sealing assisted by line pressure
 - Low operating torque, seals on position not torque

GENERAL APPLICATION

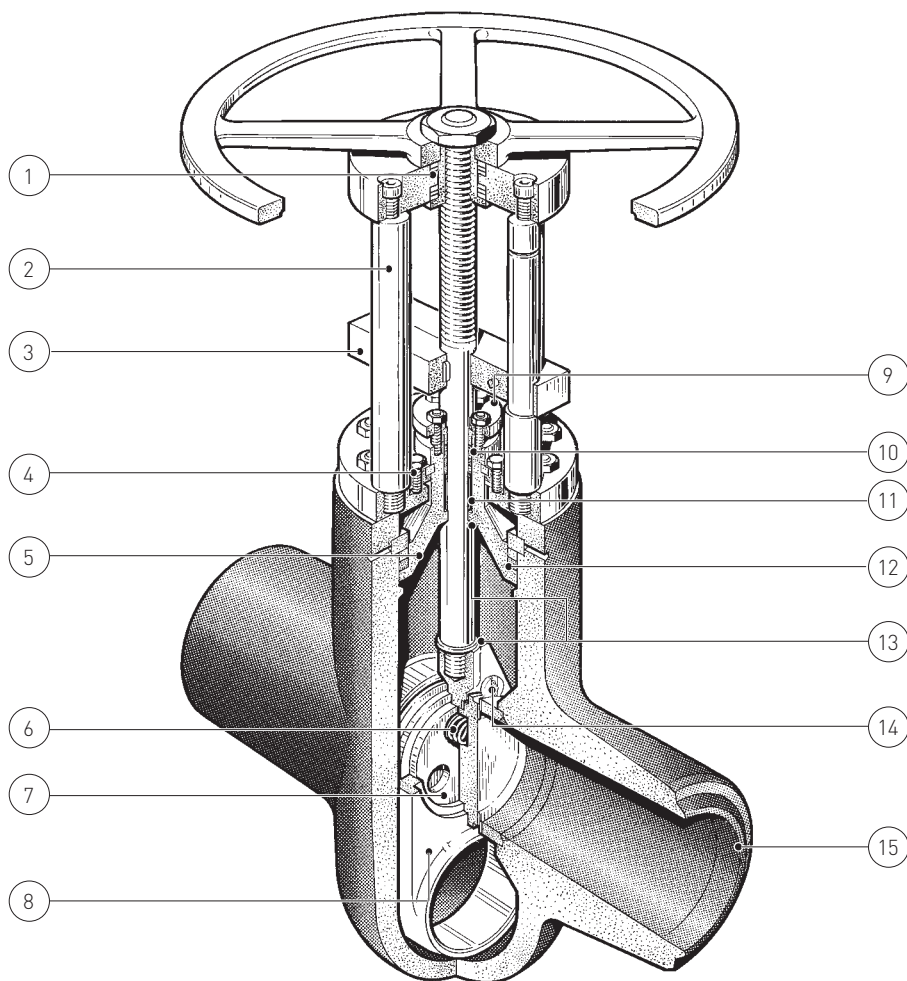
The Dewrance high pressure parallel slide gate valves featuring 'eyelet follower' design are specifically designed for use in high pressure water and steam applications, such as main steam isolation, boiler feed-pump isolation, feed heater isolation, spray water and general service isolation duty. Due to the eyelet follower design, the Dewrance parallel slide gate valve can be a solution in high velocity service applications where seat erosion and damage is problematic such as steam blow.

TECHNICAL DATA

| | |
|---------------------------|---------------------------------------|
| Sizes: | NPS 5 - 24 (DN 125 - 600) |
| ASME: | ASME B16.34 |
| Valve overall lengths to: | ASME B16.10 |
| Pressure class: | 1000, 1690, 1715, 2260, 2500, 2850 |

SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL



LEGENDA

- 1 Anti-friction bearings are fitted for direct handwheel operation.
- 2 Four pillar design for rigidity and accessibility.
- 3 Stem stop clearly indicates valve position and prevents stem rotation.
- 4 Jacking screws to pre-load pressure seal.
- 5 Pressure seal closure improves as pressure increases.
- 6 Springs or spring to hold disc against seat face for initial sealing.
- 7 Hard faced Stellite®/ or equivalent discs and seats.
- 8 Combined eyelet/conduit and belt-eye/disc holder.
- 9 Two piece gland.
- 10 Specially designed stuffing box to suit expanded graphite packing.
- 11 Neck bushing for stem support.
- 12 Expanded graphite pressure seal ring.
- 13 Hard faced Stellite®/ or equivalent back seat.
- 14 Disc retainer.
- 15 Butt weld ends.

NOTE

Drain can be fitted as required

Please note valves up to and including NPS 4 are Forged, Carbon or Alloy Steel and are not fitted with an eyelet/conduit.

SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

VALVE OPERATION

When a parallel slide is opened or closed, the positioning of two flat spring loaded discs will either seal or open the pipeline passage. Closure is achieved by positioning the discs between the seat faces in the valve body. The pressure differential across the disc forces the outlet disc against the outlet seat, creating a tight seal which is far superior to that of a wedge gate valve. The two separate spring loaded discs mounted in the belteye/disc holder have sufficient loading and freedom of movement to allow accurate contact between the flat lapped faces over the range of expansion and contraction regardless of the valve orientation. During valve closure the self wiping action of

the discs ensures that debris is not trapped between the sealing faces. Stem travel is limited by the back seat in open position and the stem stop in the closed position. The stem stop prevents stem rotation and acts as a position indicator. Unlike a wedge gate valve it is line pressure and POSITION, not excessive mechanical force at the end of stroke that is required to make a seal. When the position indicator is in the closed position the valve is fully isolated. **DO NOT APPLY ANY ADDITIONAL FORCE.** Because the discs are free to slide between the seat faces it is virtually impossible to create an overstressed condition under normal operation.

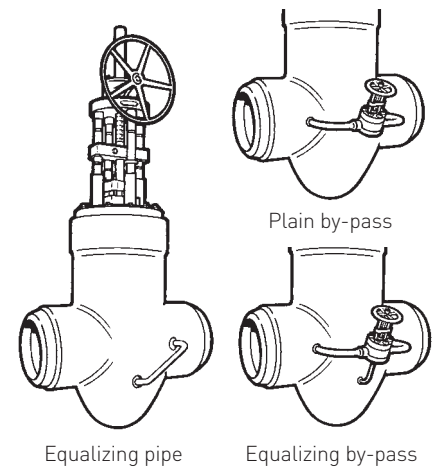
Valves NPS 5 and greater have an eyelet/conduit as part of the belteye/disc holder. The advantages of this eyelet are.

- 1 It produces a smoother flow between the seat faces by effectively eliminating the body cavity and the turbulence which it causes.
- 2 It protects the seat faces from impingement of the line fluid or anything suspended in it.
- 3 It prevents debris in the fluid being thrown out of suspension into the valve body.

When the eyelet/conduit is positioned between the seats, the bottom of the disc faces are still in contact with seat faces. No body guides are required.

BY-PASS AND EQUALIZING DEVICES

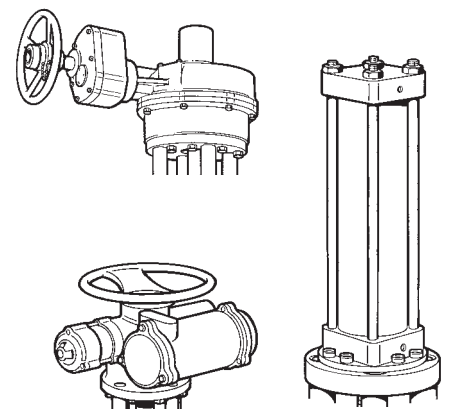
By-pass valves are used to reduce the traversing differential pressure across the valve seat. This reduces the size of the operating gear, resulting in considerable savings. By-passes also provide a convenient means for the initial warming through of pipe lines. Equalizing devices are used to relieve the fluid trapped between the seat faces, and to provide an outlet for the fluid displaced by the valve stem traversing to the shut position. This situation is quite common in valves used on non compressible fluids such as feed systems etc., but it can also arise on steam valves due to the collection of condensate inside the valve body during shut down, and fluctuating ambient temperature conditions. When a by-pass is used, it provides a means of fitting an equalizing connection from the main valve, through the by-pass and to the main line. This is a most convenient arrangement, as it does not make the main valve unidirectional. When a by-pass is not required and external small bore pipe loop, connecting the inside of the valve body to one of the branches, can be used as an equalizing device. Alternatively a hole drilled through one of the seats can serve the same purpose. These devices are quite satisfactory but require correct orientation. To prevent water discharge during trip conditions the valve should be equalized towards the source of pressure.



OPERATORS

Parallel slide gate valves can be equipped with gear operators – when handwheel rim torque exceeds 50 lbs. push and 50 lbs. pull. Bevel gear; bevel and spur gear; and spur gear operators are available. Power operators – All Parallel slide gate valves may be adapted for motor operators, pneumatic or hydraulic cylinders. The low torque requirements and the position seating of the valve provides economic power operator sizing. When ordering, the following information should be supplied:

- Operating pressure/temperature
- Differential pressure
- System fluid
- Operation time
- Control voltage
- System power supply
- Required enclosure type
- Additional electrical features

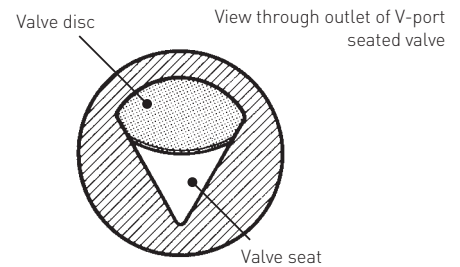


SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

PARALLEL SLIDE VALVES FOR REGULATING DUTY

If a valve is required for flow regulation duties, a parallel slide valve can supply this when fitted with a "v-ported" seat, and special pattern discs. The upstream seat is drilled to provide a pressure equalizing feature and the valve becomes unidirectional.

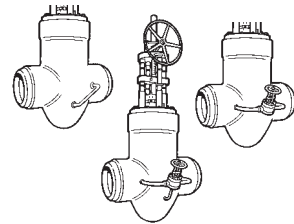


BY-PASS VALVES

Parallel slide gate valves can be fitted with by-pass valves when specified by the customer. By-pass valves have a parallel slide gate design with a pressure seal bonnet, a forged body, butt-weld ends, can be motor operated and are in accordance with MSS SP-45.

By-pass, equalizing by-pass, equalizing pipe and drain arrangements are available to suit customer design installation. Application requests should include the following additional information:

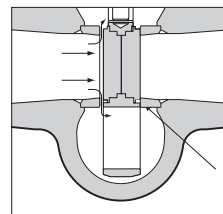
- Unidirectional or bidirectional flow
- Main valve installation position
- Piping variations or restriction unique to your design.



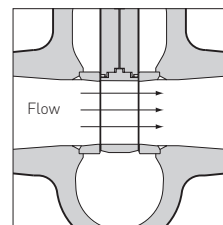
VENTURI FOLLOWER-EYE FEATURE

The advantages of the "follower-eye" are clearly shown in the sketch opposite, page which compares the Venturi parallel slide design with a full bore wedge gate valve.

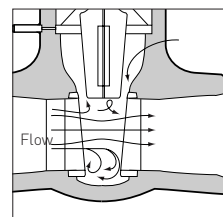
- Parallel slide gate valves use system pressure and position to provide positive isolation.
- Seal is established on outlet seat face only.
- Springs are fitted between disks to provide initial searing force only, and do not maintain the sealing force.
- No additional torque required to achieve a positive seal once disks are in position.
- Wedge gates require additional force to make the seal between the tapered seat surfaces.
- Wedge gate valves require larger operating forces.
- Parallel slide valves can cope with movements due to expansion/contraction without the need for additional manual intervention.
- Wiping action of discs over seats during closing, removes debris therefore helps prevent premature wear.
- Follower-eye on Venturi design parallel slide valve provides:
 - Smooth flow path between seats.
 - Protects seat faces from direct impingement of system debris.
 - Enables a physically smaller and lighter valve to meet pressure drop equivalent of $L/D=13$.
- Non-wiping action of wedge gate traps debris between wedge and seat faces, thus preventing sealing and promoting leakage and localised erosion.
- Benefits of follower-eye are impossible to apply to wedge gate design resulting in:
 - Turbulent flow path between seat faces.
 - Seat faces exposed to system debris and erosion
 - Physically larger seat bore and valve required to meet equivalent Dewrance venturi P.S.V. pressure drop figure.
- Full bore wedge gate valves seat dimension is usually based on 90% of end bore to achieve acceptable pressure drop characteristic.
- 90% seat bore to end bore ratio is NOT a requirement of ASME B16.34 as per interpretation 1-36.



Closure takes place at outlet only



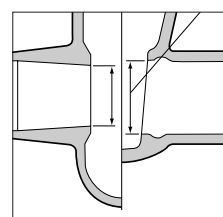
Venturi provides uninterrupted flow path and protected seat faces



Seat faces exposed to system dirt and scale

Flow path interrupted by turbulence due to absence of eyelet, resulting in higher Δp

Disadvantages of wedge gate valve



Venturi parallel slide valve

'Full' bore wedge gate valve

Traversing distance much greater than equivalent parallel slide valve

SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

IMPERIAL 2850 INT. CLASS (ASME B16.34)

| Prod. No. | ASTM Body material cast | ASME code B16.34 | Pressure in lbf/sq. in. at temp. °F (for intermediate ratings use linear interpolation) | | | | | | | | | | | | | | | |
|-----------|-------------------------|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | -20° to 100° | 200 | 300 | 400 | 500 | 600 | 650 | 700 | 750 | 850t | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| P95 | WCB | Std. * | 7035 | 6485 | 6215 | 6012 | 5720 | 5392 | 5218 | 5037 | 4794 | 3911 | 3033 | - | - | - | - | - |
| P95 | WCB | Spec. ** | 7125 | 7116 | 7034 | 6967 | 6962 | 6927 | 6784 | 6529 | 6003 | 4888 | 3791 | - | - | - | - | - |
| P95 | WC6 | Std. * | 7125 | 7097 | 6859 | 6588 | 6289 | 5772 | 5583 | 5375 | 5054 | 4810 | 4606 | 4127 | 3152 | 2061 | 1416 | 941 |
| P95 | WC6 | Spec. ** | 7125 | 7125 | 7125 | 7125 | 7125 | 7125 | 7097 | 6979 | 6919 | 6817 | 6392 | 5469 | 3940 | 2575 | 1771 | 1176 |
| P95 | WC9 | Std. * | 7125 | 7103 | 6919 | 6675 | 6289 | 5772 | 5583 | 5375 | 5054 | 4810 | 4606 | 4225 | 3532 | 2549 | 1716 | 1083 |
| P95 | WC9 | Spec. ** | 7125 | 7115 | 7023 | 6917 | 6881 | 6843 | 6794 | 6727 | 6718 | 6703 | 6392 | 5610 | 4460 | 3186 | 2146 | 1353 |
| P95 | C12A | Std. * | 7125 | 7103 | 6919 | 6675 | 6289 | 5772 | 5583 | 5375 | 5054 | 4810 | 4606 | 4225 | 3772 | 3456 | 3352 | 2850 |
| P95 | C12A | Spec. ** | 7125 | 7125 | 7125 | 7125 | 7125 | 7125 | 7097 | 6979 | 6919 | 6817 | 6392 | 5610 | 4676 | 4002 | 3961 | 3513 |

METRIC 2850 INT. CLASS (ASME B16.34)

| Prod. No. | ASTM Body material cast | ASME code B16.34 | Pressure in Bar at temp. °C (for intermediate ratings use linear interpolation) | | | | | | | | | | | | | | | | | |
|-----------|-------------------------|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | -30° to 38° | 50 | 100 | 150 | 200 | 250 | 300 | 325 | 350 | 375 | 400 | 425t | 450 | 475 | 500 | 538 | 550 | 575 |
| P95 | WCB | Std. * | 485.1 | 476.2 | 442.7 | 428.2 | 416.1 | 398.4 | 378.3 | 367.8 | 356.8 | 345.5 | 329.8 | 273.3 | - | - | - | - | - | - |
| P95 | WCB | Spec. ** | 491.2 | 491.2 | 490.5 | 484.8 | 480.4 | 480.0 | 476.1 | 464.7 | 447.5 | 412.3 | 341.5 | - | - | - | - | - | - | |
| P95 | WC6 | Std. * | 491.2 | 491.2 | 489.1 | 472.5 | 455.6 | 440.2 | 407.1 | 392.5 | 382.2 | 368.5 | 347.5 | 332.4 | 321.2 | 300.8 | 244.4 | 141.5 | 120.7 | 83.7 |
| P95 | WC6 | Spec. ** | 491.2 | 491.2 | 491.2 | 491.2 | 491.2 | 491.2 | 491.2 | 488.6 | 479.8 | 476.9 | 471.6 | 448.1 | 406.2 | 305.5 | 176.8 | 150.9 | 104.5 | |
| P95 | WC9 | Std. * | 491.2 | 491.2 | 489.5 | 476.8 | 462.2 | 440.2 | 407.1 | 392.5 | 382.2 | 368.3 | 347.5 | 332.4 | 321.2 | 300.8 | 267.9 | 175.2 | 148.5 | 100.0 |
| P95 | WC9 | Spec. ** | 491.2 | 491.2 | 490.4 | 484.0 | 477.1 | 474.8 | 472.9 | 471.2 | 467.4 | 463.2 | 463.2 | 448.1 | 406.2 | 339.1 | 219.0 | 185.6 | 125.0 | |
| P95 | C12A | Std. * | 491.2 | 491.2 | 489.5 | 476.8 | 462.2 | 440.2 | 407.1 | 392.5 | 382.2 | 368.5 | 347.5 | 332.4 | 321.2 | 300.8 | 267.9 | 238.1 | 237.1 | 227.4 |
| P95 | C12A | Spec. ** | 491.2 | 491.2 | 491.2 | 491.2 | 491.2 | 491.2 | 491.2 | 488.6 | 479.8 | 476.9 | 471.6 | 448.1 | 406.2 | 339.1 | 275.5 | 275.5 | 271.6 | |

NOTES:

t = Permissible for WCB material, but not recommended for prolonged usage above 800°F (425°C)

Pressure boundary materials to ASTM specifications

All other materials to stated comparable U.S. specifications

Std.* ASME B16.34 Standard Class

Spec.** ASME B16.34 Special Class

SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 1000 INT. CLASS

PRODUCT NO. - P67 ('P' DESIGN - STANDARD PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium Bronze | Aluminium Bronze | Aluminium Bronze | Aluminium Bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke Sleeve | Aluminium Bronze | Aluminium Bronze | Aluminium Bronze | Aluminium Bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland Packing | Expanded Graphite | Expanded Graphite | Expanded Graphite | Expanded Graphite |
| Pressure Seal | Expanded Graphite | Expanded Graphite | Expanded Graphite | Expanded Graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

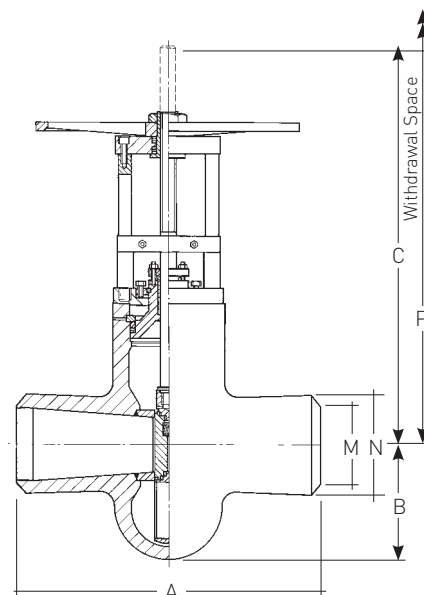
| Pressure Class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 1000 | 3750 (259) | 2750 (190) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight | | K Factor |
|-------------|----|-------|--------|-------|-------|-----|--------|-------|-------------|
| | | | | | | | (lbs) | Cv | |
| 5 | 17 | 7.75 | 31.10 | 4.72 | 5.71 | 44 | 214 | 1605 | 0.172 |
| 6 | 20 | 9.00 | 36.38 | 5.63 | 6.81 | 51 | 352 | 2240 | 0.179 |
| 8 | 26 | 11.56 | 44.21 | 7.44 | 8.78 | 63 | 629 | 3848 | 0.185 |
| 10 | 31 | 14.93 | 52.72 | 9.25 | 10.94 | 76 | 1265 | 7355 | 0.121 |
| 12 | 36 | 17.25 | 59.88 | 11.10 | 12.99 | 87 | 1900 | 9881 | 0.139 |
| 14 | 39 | 18.37 | 63.70 | 12.20 | 14.25 | 93 | 2213 | 11126 | 0.160 |
| 16 | 43 | 20.75 | 68.98 | 13.98 | 16.26 | 101 | 2992 | 14474 | 0.163 |
| 18 | 48 | 23.12 | 78.35 | 15.59 | 18.31 | 115 | 4158 | 18282 | 0.158 |
| 20 | 52 | 25.43 | 88.39 | 17.32 | 20.31 | 129 | 5890 | 22709 | 0.156 |
| 24 | 61 | 30.31 | 101.77 | 20.79 | 24.37 | 150 | 9030 | 33258 | 0.151 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight | | K Factor |
|------------|------|-----|------|-----|-----|------|--------|-------|-------------|
| | | | | | | | (kgs) | Cv | |
| 125 | 432 | 196 | 789 | 120 | 145 | 1118 | 97 | 1605 | 0.172 |
| 150 | 508 | 228 | 924 | 143 | 173 | 1296 | 160 | 2240 | 0.179 |
| 200 | 660 | 293 | 1123 | 189 | 223 | 1601 | 286 | 3848 | 0.185 |
| 250 | 787 | 379 | 1339 | 235 | 278 | 1931 | 575 | 7355 | 0.121 |
| 300 | 914 | 437 | 1521 | 282 | 330 | 2210 | 864 | 9881 | 0.139 |
| 350 | 991 | 466 | 1618 | 310 | 362 | 2363 | 1006 | 11126 | 0.160 |
| 400 | 1092 | 526 | 1752 | 355 | 413 | 2566 | 1360 | 14474 | 0.163 |
| 450 | 1219 | 589 | 1990 | 396 | 465 | 2921 | 1890 | 18282 | 0.158 |
| 500 | 1321 | 646 | 2245 | 440 | 516 | 3277 | 2677 | 22709 | 0.156 |
| 600 | 1549 | 770 | 2585 | 528 | 619 | 3810 | 4104 | 33258 | 0.151 |



SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 1000 INT. CLASS

PRODUCT NO. - P67 ('R' DESIGN - REDUCED PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

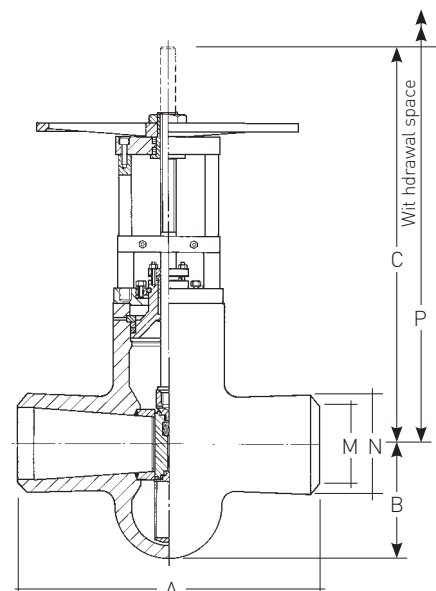
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 1000 | 3750 (259) | 2750 (190) |

DIMENSIONS IMPERIAL - (INCHES)

| Size | | | | | | | Weight | | K |
|------|----|-------|-------|-------|-------|-----|--------|-------|--------|
| NPS | A | B | C | M | N | P | (lbs) | Cv | Factor |
| 5 | 17 | 6.65 | 24.72 | 4.57 | 5.71 | 36 | 145 | 956 | 0.485 |
| 6 | 20 | 7.75 | 31.10 | 5.51 | 6.81 | 44 | 233 | 1410 | 0.452 |
| 8 | 26 | 9.00 | 36.38 | 7.20 | 8.78 | 51 | 416 | 1802 | 0.844 |
| 10 | 31 | 11.56 | 44.21 | 9.06 | 10.94 | 63 | 704 | 3181 | 0.647 |
| 12 | 36 | 14.94 | 57.72 | 10.75 | 12.99 | 76 | 1373 | 6394 | 0.332 |
| 14 | 39 | 17.25 | 59.88 | 11.81 | 14.25 | 87 | 1985 | 9161 | 0.236 |
| 16 | 43 | 18.36 | 63.70 | 13.54 | 16.26 | 93 | 2317 | 9808 | 0.355 |
| 18 | 48 | 20.75 | 68.98 | 15.24 | 18.31 | 101 | 3166 | 12887 | 0.318 |
| 20 | 52 | 23.12 | 78.35 | 17.00 | 20.31 | 115 | 4323 | 16376 | 0.300 |
| 24 | 61 | 25.44 | 88.39 | 20.39 | 24.37 | 129 | 6424 | 18634 | 0.481 |

DIMENSIONS METRIC - (mm)

| Size | | | | | | | Weight | | K |
|------|------|-----|------|-----|-----|------|--------|-------|--------|
| DN | A | B | C | M | N | P | (kgs) | Cv | Factor |
| 125 | 432 | 169 | 628 | 116 | 145 | 915 | 66 | 956 | 0.485 |
| 150 | 508 | 196 | 789 | 140 | 173 | 1118 | 106 | 1410 | 0.452 |
| 200 | 660 | 228 | 924 | 183 | 223 | 1296 | 189 | 1802 | 0.844 |
| 250 | 787 | 293 | 1123 | 230 | 278 | 1601 | 320 | 3181 | 0.647 |
| 300 | 914 | 379 | 1339 | 273 | 330 | 1931 | 624 | 6394 | 0.332 |
| 350 | 991 | 437 | 1521 | 300 | 362 | 2210 | 902 | 9161 | 0.236 |
| 400 | 1092 | 466 | 1618 | 344 | 413 | 2363 | 1053 | 9808 | 0.355 |
| 450 | 1219 | 526 | 1752 | 387 | 465 | 2566 | 1439 | 12887 | 0.318 |
| 500 | 1321 | 586 | 1990 | 432 | 516 | 2921 | 1965 | 16376 | 0.300 |
| 600 | 1549 | 646 | 2245 | 518 | 619 | 3277 | 2920 | 18634 | 0.481 |



SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 1690 INT. CLASS

PRODUCT NO. - P73 ('P' DESIGN - STANDARD PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

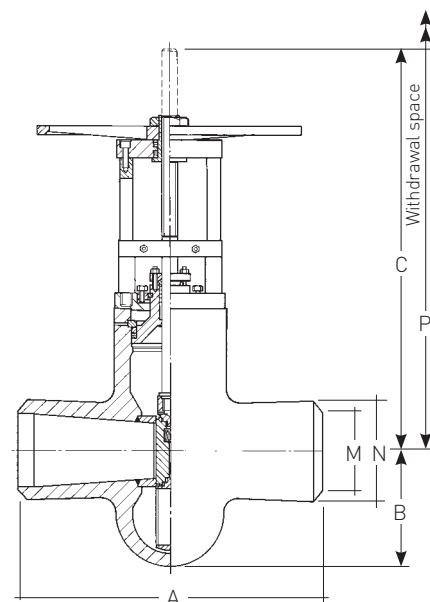
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 1690 | 6350 (438) | 4650 (321) |

DIMENSIONS IMPERIAL - (INCHES)

| Size | | | | | | | Weight | | K |
|------|----|-------|--------|-------|-------|-----|--------|-------|--------|
| NPS | A | B | C | M | N | P | (lbs) | Cv | Factor |
| 5 | 19 | 7.25 | 30.20 | 4.25 | 5.71 | 42 | 255 | 1104 | 0.239 |
| 6 | 22 | 8.81 | 31.46 | 5.12 | 6.81 | 46 | 425 | 2371 | 0.194 |
| 8 | 28 | 11.25 | 43.43 | 6.69 | 8.78 | 62 | 893 | 3103 | 0.186 |
| 10 | 34 | 13.68 | 50.71 | 8.35 | 10.94 | 74 | 1533 | 4873 | 0.183 |
| 12 | 39 | 16.25 | 58.15 | 10.04 | 12.99 | 84 | 2508 | 7084 | 0.181 |
| 14 | 42 | 17.93 | 64.00 | 11.02 | 14.25 | 93 | 3166 | 8755 | 0.172 |
| 16 | 47 | 20.56 | 68.15 | 12.64 | 16.26 | 100 | 4380 | 11760 | 0.165 |
| 18 | 53 | 22.75 | 77.28 | 14.09 | 18.31 | 114 | 6039 | 14748 | 0.162 |
| 20 | 58 | 25.12 | 82.83 | 15.63 | 20.31 | 122 | 8263 | 18319 | 0.159 |
| 24 | 66 | 30.00 | 100.28 | 18.78 | 24.37 | 148 | 13362 | 27048 | 0.152 |

DIMENSIONS METRIC - (mm)

| Size | | | | | | | Weight | | K |
|------|------|-----|------|-----|-----|------|--------|-------|--------|
| DN | A | B | C | M | N | P | (kgs) | Cv | Factor |
| 125 | 483 | 184 | 767 | 108 | 145 | 1066 | 116 | 1104 | 0.239 |
| 150 | 559 | 223 | 799 | 130 | 173 | 1168 | 193 | 2371 | 0.194 |
| 200 | 711 | 286 | 1103 | 170 | 223 | 1575 | 405 | 3103 | 0.186 |
| 250 | 864 | 347 | 1288 | 212 | 278 | 1880 | 696 | 4873 | 0.183 |
| 300 | 991 | 413 | 1477 | 255 | 330 | 2134 | 1138 | 7084 | 0.181 |
| 350 | 1066 | 455 | 1626 | 280 | 362 | 2362 | 1436 | 8755 | 0.172 |
| 400 | 1194 | 522 | 1731 | 321 | 413 | 2540 | 1987 | 11760 | 0.165 |
| 450 | 1346 | 577 | 1963 | 358 | 465 | 2896 | 2740 | 14748 | 0.162 |
| 500 | 1473 | 637 | 2104 | 397 | 516 | 3099 | 3748 | 18319 | 0.159 |
| 600 | 1676 | 761 | 2547 | 477 | 619 | 3759 | 6061 | 27048 | 0.152 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 1690 INT. CLASS

PRODUCT NO. - P73 ('R' DESIGN - REDUCED PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

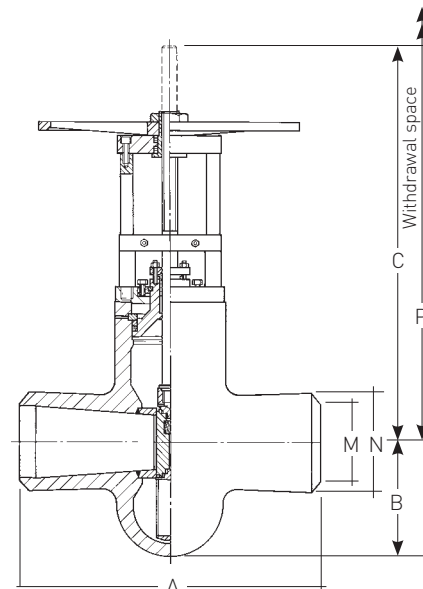
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 1690 | 6350 (438) | 4650 (321) |

DIMENSIONS IMPERIAL - (INCHES)

| Size | Weight | | | | | | Cv | K Factor | |
|------|--------|-------|-------|-------|-------|-----|------|----------|-------|
| NPS | A | B | C | M | N | P | | | (lbs) |
| 5 | 19 | 5.94 | 23.87 | 4.25 | 5.71 | 34 | 216 | 573 | 0.886 |
| 6 | 22 | 7.25 | 30.20 | 5.12 | 6.81 | 42 | 282 | 1246 | 0.702 |
| 8 | 28 | 8.81 | 31.46 | 6.69 | 8.78 | 46 | 500 | 1427 | 0.880 |
| 10 | 34 | 11.25 | 43.43 | 8.35 | 10.94 | 62 | 1023 | 2545 | 0.671 |
| 12 | 39 | 13.69 | 50.71 | 10.04 | 12.99 | 74 | 1679 | 4064 | 0.550 |
| 14 | 42 | 16.25 | 58.15 | 11.02 | 14.25 | 84 | 2625 | 6419 | 0.320 |
| 16 | 47 | 17.94 | 64.00 | 12.64 | 16.26 | 93 | 3364 | 7572 | 0.398 |
| 18 | 53 | 20.56 | 68.15 | 14.09 | 18.31 | 100 | 5880 | 10428 | 0.324 |
| 20 | 58 | 22.75 | 77.28 | 15.63 | 20.31 | 114 | 6340 | 13506 | 0.313 |
| 24 | 66 | 25.12 | 82.83 | 18.78 | 24.37 | 122 | 8980 | 14839 | 0.505 |

DIMENSIONS METRIC - (mm)

| Size | Weight | | | | | | Cv | K Factor | |
|------|--------|-----|------|-----|-----|------|------|----------|-------|
| DN | A | B | C | M | N | P | | | (kgs) |
| 125 | 483 | 150 | 606 | 108 | 145 | 864 | 98 | 573 | 0.886 |
| 150 | 559 | 184 | 767 | 130 | 173 | 1066 | 128 | 1246 | 0.702 |
| 200 | 711 | 223 | 799 | 170 | 223 | 1168 | 227 | 1427 | 0.880 |
| 250 | 864 | 286 | 1103 | 212 | 278 | 1575 | 464 | 2545 | 0.671 |
| 300 | 991 | 347 | 1288 | 255 | 330 | 1880 | 762 | 4064 | 0.550 |
| 350 | 1066 | 413 | 1477 | 280 | 362 | 2134 | 1191 | 6419 | 0.320 |
| 400 | 1194 | 455 | 1626 | 321 | 413 | 2362 | 1526 | 7572 | 0.398 |
| 450 | 1346 | 522 | 1731 | 358 | 465 | 2540 | 2667 | 10428 | 0.324 |
| 500 | 1473 | 577 | 1963 | 397 | 516 | 2896 | 2876 | 13506 | 0.313 |
| 600 | 1676 | 637 | 2104 | 477 | 619 | 3099 | 4074 | 14839 | 0.505 |



SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 1715 INT. CLASS

PRODUCT NO. - P8A ('T' DESIGN - STANDARD PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

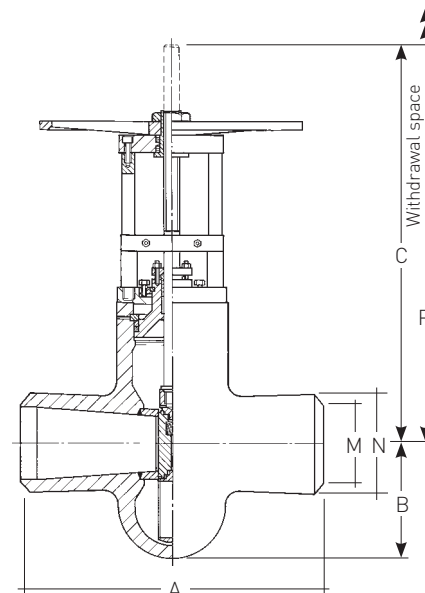
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 1715 | 6450 (444) | 4725 (326) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight (lbs) | Cv | K Factor |
|-------------|----|-------|--------|-------|-------|-----|-----------------|-------|-------------|
| 5 | 19 | 7.25 | 30.20 | 4.25 | 5.71 | 42 | 255 | 1104 | 0.239 |
| 6 | 22 | 8.81 | 31.46 | 5.12 | 6.81 | 46 | 425 | 2371 | 0.194 |
| 8 | 28 | 11.25 | 43.43 | 6.69 | 8.78 | 62 | 893 | 3103 | 0.186 |
| 10 | 34 | 13.68 | 50.71 | 8.35 | 10.94 | 74 | 1533 | 4873 | 0.183 |
| 12 | 39 | 16.25 | 58.15 | 10.04 | 12.99 | 84 | 2508 | 7084 | 0.181 |
| 14 | 42 | 17.93 | 64.00 | 11.02 | 14.25 | 93 | 3166 | 8755 | 0.172 |
| 16 | 47 | 20.56 | 68.15 | 12.64 | 16.26 | 100 | 4380 | 11760 | 0.165 |
| 18 | 53 | 22.75 | 77.28 | 14.09 | 18.31 | 114 | 6039 | 14748 | 0.162 |
| 20 | 58 | 25.12 | 82.83 | 15.63 | 20.31 | 122 | 8263 | 18319 | 0.159 |
| 24 | 66 | 30.00 | 100.28 | 18.78 | 24.37 | 148 | 13362 | 27048 | 0.152 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight (kgs) | Cv | K Factor |
|------------|------|-----|------|-----|-----|------|-----------------|-------|-------------|
| 125 | 483 | 184 | 767 | 108 | 145 | 1066 | 116 | 1104 | 0.239 |
| 150 | 559 | 223 | 799 | 130 | 173 | 1168 | 193 | 2371 | 0.194 |
| 200 | 711 | 286 | 1103 | 170 | 223 | 1575 | 405 | 3103 | 0.186 |
| 250 | 864 | 347 | 1288 | 212 | 278 | 1880 | 696 | 4873 | 0.183 |
| 300 | 991 | 413 | 1477 | 255 | 330 | 2134 | 1138 | 7084 | 0.181 |
| 350 | 1066 | 455 | 1626 | 280 | 362 | 2362 | 1436 | 8755 | 0.172 |
| 400 | 1194 | 522 | 1731 | 321 | 413 | 2540 | 1987 | 11760 | 0.165 |
| 450 | 1346 | 577 | 1963 | 358 | 465 | 2896 | 2740 | 14748 | 0.162 |
| 500 | 1473 | 637 | 2104 | 397 | 516 | 3099 | 3748 | 18319 | 0.159 |
| 600 | 1676 | 761 | 2547 | 477 | 619 | 3759 | 6061 | 27048 | 0.152 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 1715 INT. CLASS

PRODUCT NO. - P8A ('S' DESIGN - REDUCED PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

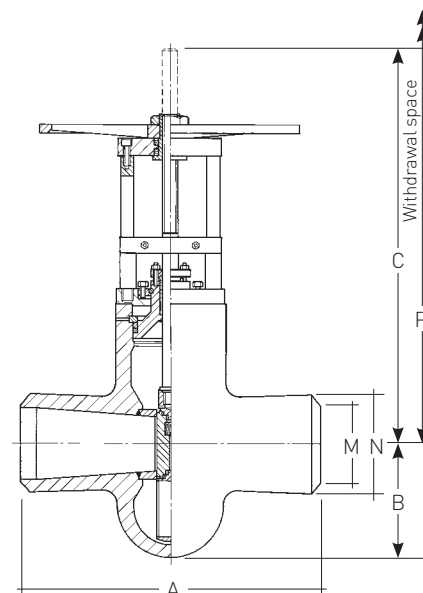
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 1715 | 6450 (444) | 4725 (326) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight (lbs) | Cv | K Factor |
|-------------|----|-------|-------|-------|-------|-----|-----------------|-------|-------------|
| 5 | 19 | 5.94 | 23.87 | 4.25 | 5.71 | 34 | 216 | 573 | 0.886 |
| 6 | 22 | 7.25 | 30.20 | 5.12 | 6.81 | 42 | 282 | 1246 | 0.702 |
| 8 | 28 | 8.81 | 31.46 | 6.69 | 8.78 | 46 | 500 | 1427 | 0.880 |
| 10 | 34 | 11.25 | 43.43 | 8.35 | 10.94 | 62 | 1023 | 2545 | 0.671 |
| 12 | 39 | 13.69 | 50.71 | 11.04 | 12.99 | 74 | 1679 | 4064 | 0.550 |
| 14 | 42 | 16.25 | 58.15 | 11.02 | 14.25 | 84 | 2625 | 6419 | 0.320 |
| 16 | 47 | 17.94 | 64.00 | 12.64 | 16.26 | 93 | 3364 | 7572 | 0.398 |
| 18 | 53 | 20.56 | 68.15 | 14.09 | 18.31 | 100 | 5880 | 10428 | 0.324 |
| 20 | 58 | 22.75 | 77.28 | 15.63 | 20.31 | 114 | 6340 | 13506 | 0.313 |
| 24 | 66 | 25.12 | 82.83 | 18.78 | 24.37 | 122 | 8980 | 14839 | 0.505 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight (kgs) | Cv | K Factor |
|------------|------|-----|------|-----|-----|------|-----------------|-------|-------------|
| 125 | 483 | 150 | 606 | 108 | 145 | 864 | 98 | 573 | 0.886 |
| 150 | 559 | 184 | 767 | 130 | 173 | 1066 | 128 | 1246 | 0.702 |
| 200 | 711 | 223 | 799 | 170 | 223 | 1168 | 227 | 1427 | 0.880 |
| 250 | 864 | 286 | 1103 | 212 | 278 | 1575 | 464 | 2545 | 0.671 |
| 300 | 991 | 347 | 1288 | 255 | 330 | 1880 | 762 | 4064 | 0.550 |
| 350 | 1066 | 413 | 1477 | 280 | 362 | 2134 | 1191 | 6419 | 0.320 |
| 400 | 1194 | 455 | 1626 | 321 | 413 | 2362 | 1526 | 7572 | 0.398 |
| 450 | 1346 | 522 | 1731 | 358 | 465 | 2540 | 2667 | 10428 | 0.324 |
| 500 | 1473 | 577 | 1963 | 397 | 516 | 2896 | 2876 | 13506 | 0.313 |
| 600 | 1676 | 637 | 2104 | 477 | 619 | 3099 | 4074 | 14839 | 0.505 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 2260 INT. CLASS

PRODUCT NO. - P83 ('P' DESIGN - STANDARD PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

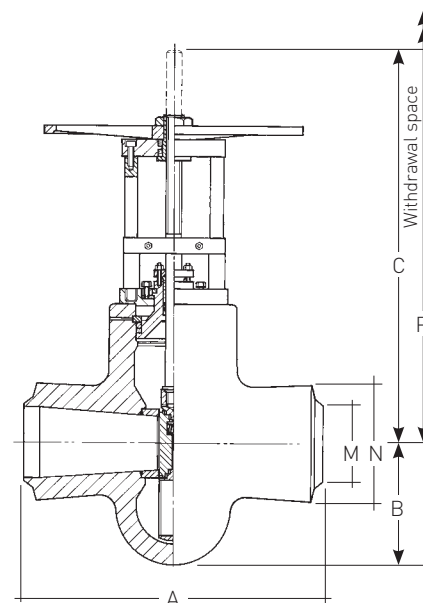
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 2260 | 8475 (585) | 6225 (429) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight (lbs) | Cv | K Factor |
|-------------|----|-------|-------|-------|-------|-----|-----------------|-------|-------------|
| 5 | 21 | 7.75 | 30.31 | 3.86 | 5.71 | 43 | 359 | 1168 | 0.145 |
| 6 | 24 | 9.12 | 31.42 | 4.65 | 6.81 | 46 | 568 | 1692 | 0.146 |
| 8 | 30 | 11.25 | 42.95 | 6.14 | 8.78 | 62 | 1036 | 2566 | 0.193 |
| 10 | 36 | 13.75 | 50.12 | 7.64 | 10.94 | 72 | 1835 | 4061 | 0.182 |
| 12 | 41 | 16.43 | 57.52 | 9.17 | 12.99 | 84 | 2926 | 5926 | 0.180 |
| 14 | 44 | 17.87 | 58.70 | 10.08 | 14.25 | 87 | 3819 | 7121 | 0.182 |
| 16 | 49 | 20.62 | 67.36 | 11.54 | 16.26 | 100 | 5696 | 9803 | 0.165 |
| 18 | 55 | 23.31 | 79.25 | 12.91 | 18.31 | 117 | 8725 | 13132 | 0.144 |
| 20 | 60 | 25.06 | 81.85 | 14.25 | 20.31 | 122 | 10243 | 15039 | 0.163 |
| 24 | 68 | 29.93 | 95.67 | 17.13 | 24.37 | 143 | 16034 | 22143 | 0.157 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight (kgs) | Cv | K Factor |
|------------|------|-----|------|-----|-----|------|-----------------|-------|-------------|
| 125 | 533 | 197 | 770 | 98 | 145 | 1092 | 163 | 1168 | 0.145 |
| 150 | 610 | 232 | 798 | 118 | 173 | 1168 | 258 | 1692 | 0.146 |
| 200 | 762 | 285 | 1091 | 156 | 223 | 1575 | 470 | 2566 | 0.193 |
| 250 | 914 | 349 | 1273 | 194 | 278 | 1829 | 833 | 4061 | 0.182 |
| 300 | 1041 | 417 | 1461 | 233 | 330 | 2134 | 1327 | 5926 | 0.180 |
| 350 | 1117 | 453 | 1491 | 256 | 362 | 2210 | 1732 | 7121 | 0.182 |
| 400 | 1245 | 523 | 1711 | 293 | 413 | 2540 | 2584 | 9803 | 0.165 |
| 450 | 1397 | 592 | 2013 | 328 | 465 | 2972 | 3958 | 13132 | 0.144 |
| 500 | 1524 | 636 | 2079 | 362 | 516 | 3099 | 4646 | 15039 | 0.163 |
| 600 | 1727 | 760 | 2430 | 435 | 619 | 3632 | 7273 | 22143 | 0.157 |



SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 2260 INT. CLASS

PRODUCT NO. - P83 ('R' DESIGN - REDUCED PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH [1.0425] | EN 10222 13CrMo4-5 [1.7335] | EN 10222 13CrMo4-5 [1.7335] | EN 10222 13CrMo4-5 [1.7335] |
| Stem | EN1008 17CrNi16-2 [1.4057] | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

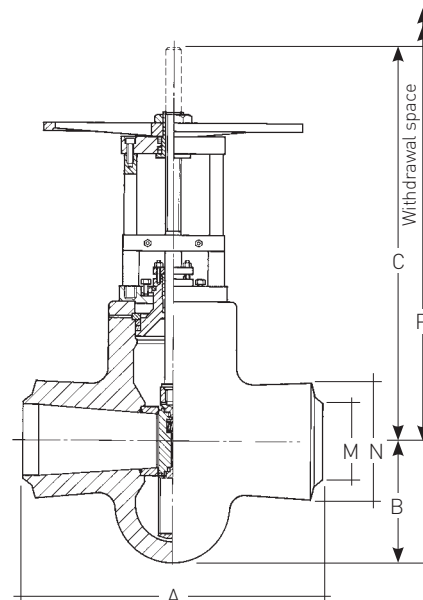
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 2260 | 8475 (585) | 6225 (429) |

DIMENSIONS IMPERIAL - (INCHES)

| Size | | | | | | | Weight | | K |
|------|----|-------|-------|-------|-------|-----|--------|-------|--------|
| NPS | A | B | C | M | N | P | (lbs) | Cv | Factor |
| 5 | 21 | 6.25 | 23.94 | 3.86 | 5.71 | 35 | 255 | 641 | 0.483 |
| 6 | 24 | 7.75 | 30.31 | 4.65 | 6.81 | 43 | 392 | 1066 | 0.368 |
| 8 | 30 | 9.12 | 31.42 | 6.14 | 8.78 | 46 | 660 | 1435 | 0.617 |
| 10 | 36 | 11.25 | 42.95 | 7.64 | 10.94 | 62 | 1180 | 2206 | 0.626 |
| 12 | 41 | 13.75 | 50.12 | 9.17 | 12.99 | 72 | 2000 | 3556 | 0.500 |
| 14 | 44 | 16.44 | 57.52 | 10.08 | 14.25 | 84 | 3050 | 5519 | 0.303 |
| 16 | 49 | 17.87 | 58.70 | 11.54 | 16.26 | 87 | 1465 | 6392 | 0.388 |
| 18 | 55 | 20.56 | 67.36 | 12.91 | 18.31 | 100 | 6100 | 8994 | 0.307 |
| 20 | 60 | 23.31 | 79.25 | 14.25 | 20.31 | 117 | 9200 | 12217 | 0.247 |
| 24 | 68 | 25.04 | 81.85 | 17.13 | 24.37 | 122 | 11100 | 12651 | 0.481 |

DIMENSIONS METRIC - (mm)

| Size | | | | | | | Weight | | K |
|------|------|-----|------|-----|-----|------|--------|-------|--------|
| DN | A | B | C | M | N | P | (kgs) | Cv | Factor |
| 125 | 533 | 159 | 608 | 98 | 145 | 889 | 116 | 641 | 0.483 |
| 150 | 610 | 197 | 770 | 118 | 173 | 1092 | 178 | 1066 | 0.368 |
| 200 | 762 | 232 | 798 | 156 | 223 | 1168 | 300 | 1435 | 0.617 |
| 250 | 914 | 285 | 1091 | 194 | 278 | 1575 | 535 | 2206 | 0.626 |
| 300 | 1041 | 349 | 1273 | 233 | 330 | 1829 | 907 | 3556 | 0.500 |
| 350 | 1117 | 417 | 1461 | 256 | 362 | 2134 | 1384 | 5519 | 0.303 |
| 400 | 1245 | 453 | 1491 | 293 | 413 | 2210 | 1889 | 6392 | 0.388 |
| 450 | 1397 | 523 | 1711 | 328 | 465 | 2540 | 2767 | 8994 | 0.307 |
| 500 | 1524 | 592 | 2013 | 362 | 516 | 2972 | 4173 | 12217 | 0.247 |
| 600 | 1727 | 636 | 2079 | 435 | 619 | 3099 | 5035 | 12651 | 0.481 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 2500 CLASS

PRODUCT NO. - P91 ('T' DESIGN - STANDARD PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

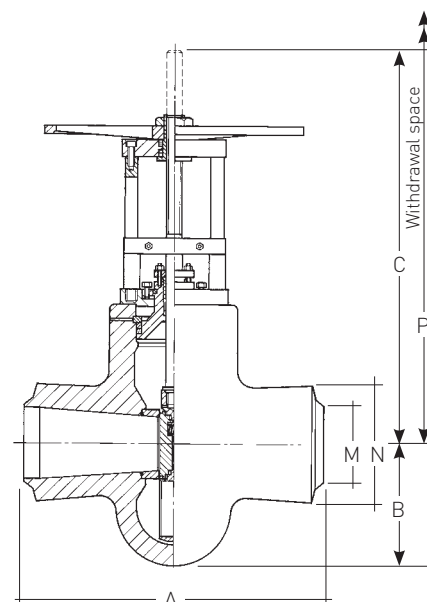
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 2500 | 9375 (647) | 6875 (475) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight (lbs) | Cv | K Factor |
|-------------|----|-------|-------|-------|-------|-----|-----------------|-------|-------------|
| 5 | 21 | 7.75 | 30.31 | 3.86 | 5.71 | 43 | 359 | 1168 | 0.145 |
| 6 | 24 | 9.12 | 31.42 | 4.65 | 6.81 | 49 | 568 | 1692 | 0.146 |
| 8 | 30 | 11.25 | 42.95 | 6.14 | 8.78 | 62 | 1036 | 2566 | 0.193 |
| 10 | 36 | 13.75 | 50.12 | 7.64 | 10.94 | 72 | 1835 | 4091 | 0.182 |
| 12 | 41 | 16.43 | 57.52 | 9.17 | 12.99 | 84 | 2926 | 5926 | 0.180 |
| 14 | 44 | 17.87 | 58.70 | 10.08 | 14.25 | 87 | 3819 | 7121 | 0.182 |
| 16 | 49 | 20.62 | 67.36 | 11.54 | 16.26 | 100 | 5696 | 9803 | 0.165 |
| 18 | 55 | 23.31 | 79.25 | 12.91 | 18.31 | 117 | 8725 | 13132 | 0.144 |
| 20 | 60 | 25.06 | 81.85 | 14.25 | 20.31 | 122 | 10243 | 15039 | 0.163 |
| 24 | 68 | 29.93 | 95.67 | 17.13 | 24.37 | 143 | 16034 | 22143 | 0.157 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight (kgs) | Cv | K Factor |
|------------|------|-----|------|-----|-----|------|-----------------|-------|-------------|
| 125 | 533 | 197 | 770 | 98 | 145 | 1092 | 163 | 1168 | 0.145 |
| 150 | 610 | 232 | 798 | 118 | 173 | 1168 | 258 | 1692 | 0.146 |
| 200 | 762 | 285 | 1091 | 156 | 223 | 1575 | 470 | 2566 | 0.193 |
| 250 | 914 | 349 | 1273 | 194 | 278 | 1829 | 833 | 4091 | 0.182 |
| 300 | 1041 | 417 | 1461 | 233 | 330 | 2134 | 1327 | 5926 | 0.180 |
| 350 | 1117 | 453 | 1491 | 256 | 362 | 2210 | 1732 | 7121 | 0.182 |
| 400 | 1245 | 523 | 1711 | 293 | 413 | 2540 | 2584 | 9803 | 0.165 |
| 450 | 1397 | 592 | 2013 | 328 | 465 | 2972 | 3958 | 13132 | 0.144 |
| 500 | 1524 | 636 | 2079 | 362 | 516 | 3099 | 4646 | 15039 | 0.163 |
| 600 | 1727 | 760 | 2430 | 435 | 619 | 3632 | 7273 | 22143 | 0.157 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 2500 CLASS

PRODUCT NO. - P91 ('S' DESIGN - REDUCED PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

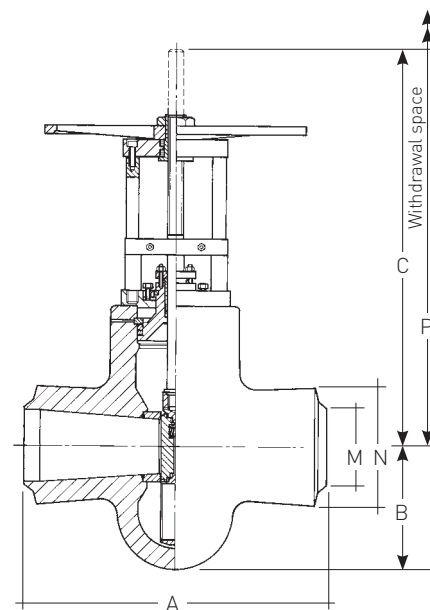
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 2500 | 9375 (647) | 6875 (475) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight (lbs) | Cv | K Factor |
|-------------|----|-------|-------|-------|-------|-----|-----------------|-------|-------------|
| 5 | 21 | 6.57 | 23.94 | 3.82 | 5.71 | 35 | 255 | 640 | 0.464 |
| 6 | 24 | 8.18 | 30.31 | 4.53 | 6.81 | 43 | 392 | 1078 | 0.324 |
| 8 | 30 | 10.43 | 36.73 | 5.91 | 8.78 | 54 | 926 | 1931 | 0.292 |
| 10 | 36 | 12.83 | 44.00 | 7.36 | 10.94 | 64 | 1705 | 3100 | 0.273 |
| 12 | 41 | 15.43 | 51.34 | 8.74 | 12.99 | 75 | 2761 | 4785 | 0.228 |
| 14 | 44 | 16.42 | 57.52 | 9.61 | 14.25 | 84 | 3050 | 5771 | 0.229 |
| 16 | 49 | 19.57 | 64.57 | 10.98 | 16.26 | 95 | 5515 | 8137 | 0.196 |
| 18 | 55 | 20.59 | 67.36 | 12.36 | 18.31 | 100 | 6100 | 9395 | 0.236 |
| 20 | 60 | 23.31 | 79.25 | 13.74 | 20.31 | 117 | 9200 | 12638 | 0.199 |
| 24 | 68 | 28.00 | 89.57 | 16.50 | 24.37 | 133 | 15679 | 17121 | 0.226 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight (kgs) | Cv | K Factor |
|------------|------|-----|------|-----|-----|------|-----------------|-------|-------------|
| 125 | 533 | 167 | 608 | 97 | 145 | 889 | 116 | 640 | 0.464 |
| 150 | 610 | 208 | 770 | 115 | 173 | 1092 | 178 | 1078 | 0.324 |
| 200 | 762 | 265 | 933 | 150 | 223 | 1372 | 420 | 1931 | 0.292 |
| 250 | 914 | 326 | 1118 | 187 | 278 | 1626 | 773 | 3100 | 0.273 |
| 300 | 1041 | 392 | 1304 | 222 | 330 | 1905 | 1252 | 4785 | 0.228 |
| 350 | 1117 | 417 | 1461 | 244 | 362 | 2134 | 1383 | 5771 | 0.229 |
| 400 | 1245 | 497 | 1640 | 279 | 413 | 2413 | 2501 | 8137 | 0.196 |
| 450 | 1397 | 523 | 1711 | 314 | 465 | 2540 | 2767 | 9395 | 0.236 |
| 500 | 1524 | 592 | 2013 | 349 | 516 | 2972 | 4175 | 12638 | 0.199 |
| 600 | 1727 | 713 | 2275 | 419 | 619 | 3378 | 7111 | 17121 | 0.226 |



SEMPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 2850 INT. CLASS

PRODUCT NO. - P95 ('P' DESIGN - STANDARD PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

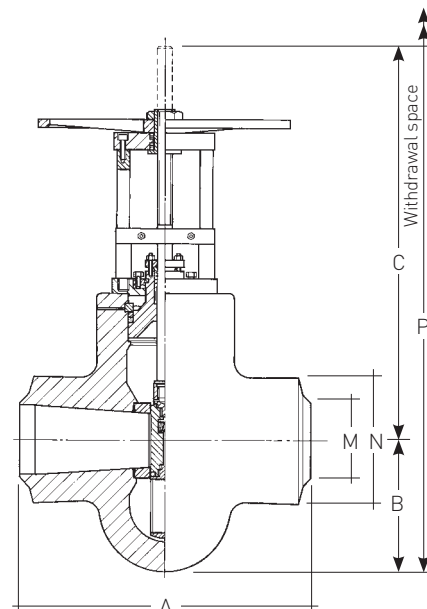
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 2850 | 10700 (737) | 7900 (541) |

DIMENSIONS IMPERIAL - (INCHES)

| Size | | | | | | | Weight | | K |
|------|----|-------|-------|-------|-------|-----|--------|-------|--------|
| NPS | A | B | C | M | N | P | (lbs) | Cv | Factor |
| 5 | 21 | 6.62 | 23.94 | 3.46 | 5.71 | 35 | 295 | 683 | 0.274 |
| 6 | 24 | 8.18 | 30.31 | 4.17 | 6.81 | 43 | 528 | 1135 | 0.210 |
| 8 | 30 | 10.75 | 36.73 | 5.51 | 8.78 | 54 | 1058 | 2020 | 0.202 |
| 10 | 36 | 13.18 | 44.00 | 6.89 | 10.94 | 64 | 1907 | 3231 | 0.193 |
| 12 | 41 | 15.93 | 51.34 | 8.23 | 12.99 | 75 | 3133 | 4956 | 0.167 |
| 14 | 44 | 17.43 | 57.52 | 9.06 | 14.25 | 84 | 4160 | 5988 | 0.168 |
| 16 | 49 | 20.25 | 64.57 | 10.39 | 16.26 | 95 | 6345 | 8390 | 0.148 |
| 18 | 55 | 21.81 | 67.36 | 11.61 | 18.31 | 100 | 8160 | 9804 | 0.169 |
| 20 | 60 | 24.68 | 79.25 | 12.83 | 20.31 | 117 | 12300 | 13201 | 0.139 |
| 24 | 68 | 28.68 | 89.57 | 15.47 | 24.37 | 133 | 17668 | 17889 | 0.160 |

DIMENSIONS METRIC - (mm)

| Size | | | | | | | Weight | | K |
|------|------|-----|------|-----|-----|------|--------|-------|--------|
| DN | A | B | C | M | N | P | (kgs) | Cv | Factor |
| 125 | 533 | 169 | 608 | 88 | 145 | 889 | 134 | 683 | 0.274 |
| 150 | 610 | 208 | 770 | 106 | 173 | 1092 | 240 | 1135 | 0.210 |
| 200 | 762 | 273 | 933 | 140 | 223 | 1372 | 480 | 2020 | 0.202 |
| 250 | 914 | 334 | 1118 | 175 | 278 | 1626 | 865 | 3231 | 0.193 |
| 300 | 1041 | 404 | 1304 | 209 | 330 | 1905 | 1421 | 4956 | 0.167 |
| 350 | 1117 | 442 | 1461 | 230 | 362 | 2134 | 1887 | 5988 | 0.168 |
| 400 | 1245 | 514 | 1640 | 264 | 413 | 2413 | 2878 | 8390 | 0.148 |
| 450 | 1397 | 554 | 1711 | 295 | 465 | 2540 | 3701 | 9804 | 0.169 |
| 500 | 1524 | 627 | 2013 | 326 | 516 | 2972 | 5580 | 13201 | 0.139 |
| 600 | 1727 | 728 | 2275 | 393 | 619 | 3378 | 8014 | 17889 | 0.160 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

HIGH PRESSURE CAST STEEL

SIZES NPS 5 - 24 (DN125 - 600) ASME B16.34 2850 INT. CLASS

PRODUCT NO. - P95 ('R' DESIGN - REDUCED PORT)

MAIN COMPONENT MATERIALS

| Description | Carbon steel | | Alloy steel | |
|---------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Body | ASTM A-216 Gr. WCB | ASTM A-217 Gr. WC6 | ASTM A-217 Gr. WC9 | ASTM A-217 Gr. C12A |
| Bonnet | A105 | A182-F22 | A182-F22 | A182-F91 |
| Cover | EN1008 P265GH (1.0425) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) | EN 10222 13CrMo4-5 (1.7335) |
| Stem | EN1008 17CrNi16-2 (1.4057) | A565-XM32 | A565-XM32 | A565-XM32 |
| Gland | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Seats | A105 | A182-F22 | A182-F22 | A182-F91 |
| Yoke sleeve | Aluminium bronze | Aluminium bronze | Aluminium bronze | Aluminium bronze |
| Handwheel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel | Cast Iron/Steel |
| Disc | A105 | A182-F22 | A182-F22 | A182-F91 |
| Gland packing | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |
| Pressure seal | Expanded graphite | Expanded graphite | Expanded graphite | Expanded graphite |

HYDROSTATIC SHELL AND SEAT LEAK TEST PRESSURES

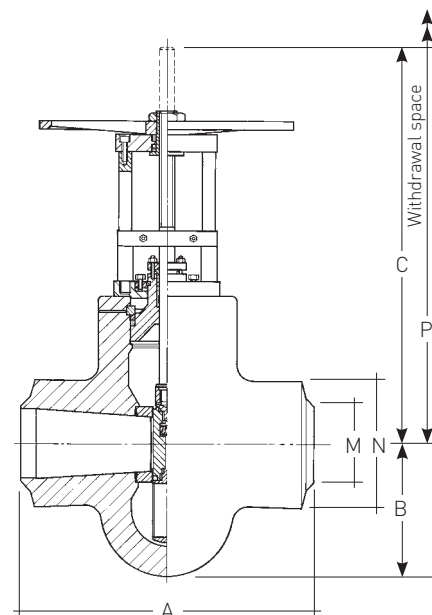
| Pressure class | Shell psi (bar) | Seat psi (bar) |
|----------------|-----------------|----------------|
| 2850 | 10700 (737) | 7900 (541) |

DIMENSIONS IMPERIAL - (INCHES)

| Size NPS | A | B | C | M | N | P | Weight (lbs) | Cv | K Factor |
|-------------|----|-------|-------|-------|-------|-----|-----------------|-------|-------------|
| 6 | 24 | 6.62 | 23.94 | 4.17 | 6.81 | 35 | 332 | 606 | 0.736 |
| 8 | 30 | 8.19 | 30.31 | 5.51 | 8.78 | 43 | 630 | 954 | 0.905 |
| 10 | 36 | 10.75 | 36.73 | 6.89 | 10.94 | 54 | 1220 | 1741 | 0.665 |
| 12 | 41 | 13.19 | 44.00 | 8.23 | 12.99 | 64 | 2100 | 2844 | 0.507 |
| 14 | 44 | 15.94 | 51.34 | 9.06 | 14.25 | 75 | 3270 | 4655 | 0.278 |
| 16 | 49 | 17.44 | 57.52 | 10.39 | 16.26 | 84 | 4440 | 5402 | 0.357 |
| 18 | 55 | 20.25 | 64.57 | 11.61 | 18.31 | 95 | 6780 | 7814 | 0.266 |
| 20 | 60 | 21.81 | 67.36 | 12.83 | 20.31 | 100 | 8610 | 9093 | 0.293 |
| 24 | 68 | 24.69 | 79.25 | 15.47 | 24.37 | 117 | 13280 | 11272 | 0.403 |

DIMENSIONS METRIC - (mm)

| Size DN | A | B | C | M | N | P | Weight (kgs) | Cv | K Factor |
|------------|------|-----|------|-----|-----|------|-----------------|-------|-------------|
| 150 | 610 | 169 | 608 | 106 | 173 | 889 | 151 | 606 | 0.736 |
| 200 | 762 | 208 | 770 | 140 | 223 | 1092 | 286 | 954 | 0.905 |
| 250 | 914 | 273 | 933 | 175 | 278 | 1372 | 554 | 1741 | 0.665 |
| 300 | 1041 | 334 | 1118 | 209 | 330 | 1626 | 953 | 2844 | 0.507 |
| 350 | 1117 | 404 | 1304 | 230 | 362 | 1905 | 1484 | 4655 | 0.278 |
| 400 | 1245 | 442 | 1461 | 264 | 413 | 2134 | 2014 | 5402 | 0.357 |
| 450 | 1397 | 514 | 1640 | 295 | 465 | 2413 | 3076 | 7814 | 0.266 |
| 500 | 1524 | 554 | 1711 | 326 | 516 | 2540 | 3906 | 9093 | 0.293 |
| 600 | 1727 | 627 | 2013 | 393 | 619 | 2972 | 6024 | 11272 | 0.403 |



SEPELL DEWRANCE PARALLEL SLIDE GATE VALVES

SELECTION GUIDE

| Example | P | 95 | E | H | 200 | P | F | D | A |
|--|---|----|---|---|-----|---|---|---|---|
| Valve type P Parallel slide gate valve | | | | | | | | | |
| Pressure class | | | | | | | | | |
| 67 1000 Class | | | | | | | | | |
| 73 1690 Class | | | | | | | | | |
| 8A 1715 Class | | | | | | | | | |
| 83 2260 Class | | | | | | | | | |
| 91 2500 Class | | | | | | | | | |
| 95 2850 Class | | | | | | | | | |
| X1 Special based on pressure/temperature | | | | | | | | | |
| X7 4500 Class | | | | | | | | | |
| Body material | | | | | | | | | |
| E ASTM A216 WCB | | | | | | | | | |
| J ASTM A217 WC6 | | | | | | | | | |
| L ASTM A217 WC9 | | | | | | | | | |
| R ASTM A217 C12A | | | | | | | | | |
| Valve operation | | | | | | | | | |
| A Bevel gear - Operated from below. | | | | | | | | | |
| B Bevel gear - Operated from above. | | | | | | | | | |
| C Chain wheel | | | | | | | | | |
| D Hydraulic actuator | | | | | | | | | |
| E Limitorque actuator | | | | | | | | | |
| F Sleeve coupling | | | | | | | | | |
| G Bevel gear - Manual operation | | | | | | | | | |
| H Handwheel operation | | | | | | | | | |
| L Locking device | | | | | | | | | |
| M Adaptor plate | | | | | | | | | |
| N Pneumatic actuator | | | | | | | | | |
| P Spur gear - Operated from below. | | | | | | | | | |
| Q Spur gear - Operated from above. | | | | | | | | | |
| R Rotork actuator | | | | | | | | | |
| T Universal joint | | | | | | | | | |
| U Undrilled/Block ends - Hand operated | | | | | | | | | |
| V Special | | | | | | | | | |
| W Power assisted | | | | | | | | | |
| Y Auma actuator | | | | | | | | | |
| Nominal size (mm) | | | | | | | | | |
| Design change | | | | | | | | | |
| P or T Standard port design | | | | | | | | | |
| R or S Reduced port design | | | | | | | | | |
| Ancillary valve arrangement | | | | | | | | | |
| B One bypass | | | | | | | | | |
| C One equalizing bypass | | | | | | | | | |
| D One bypass and one equalizing bypass | | | | | | | | | |
| F No bypass arrangement | | | | | | | | | |
| G Equalizing bypass | | | | | | | | | |
| H V-port seat | | | | | | | | | |
| J One bypass and one bypass drain valve | | | | | | | | | |
| K One drain valve | | | | | | | | | |
| L One equalizing pipe and one drain valve | | | | | | | | | |
| M V-port seat and equalizing pipe | | | | | | | | | |
| Bypass operation | | | | | | | | | |
| A Bevel gear - Operated from below. | | | | | | | | | |
| B Bevel gear - Operated from above. | | | | | | | | | |
| C Chain wheel | | | | | | | | | |
| D No bypass | | | | | | | | | |
| E Limitorque actuator | | | | | | | | | |
| F Sleeve coupling | | | | | | | | | |
| G Bevel gear - Manual operation | | | | | | | | | |
| H Handwheel operation | | | | | | | | | |
| L Locking device | | | | | | | | | |
| P Spur gear - Operated from below. | | | | | | | | | |
| Q Spur gear - Operated from above. | | | | | | | | | |
| R Rotork actuator | | | | | | | | | |
| Y Auma actuator | | | | | | | | | |
| Minor product variation | | | | | | | | | |

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