VALVES AND PIPELINE PRODUCTS



SupplyLine





Stem extensions

2222222

- NDE testing
- Special coatings
- Subsea service



1747

DELTA Valves, part of VALVITALIA Group

DELTA valves, part of the VALVITALIA Group, are manufactured in Italy, a country known for its quality valves and energy equipment.

An innovative supplier to the oil, gas and power industries, the VALVITALIA Group offers an array of high-quality, competitively price energy equipment, products and services including:

- actuators
- gear operators
- preassembled skids for gas regulating and metering stations
- refurbished service for any type of valve.

When you purchase DELTA valves, you get global service throughout an expanding network of agents and distributors.

Experienced management, quality performance, large available inventory and full dedication to the customer's satisfaction differentiate DELTA from the competition.





Pavia Plant, Rivanazzano (PV) Italy





All Valvitalia-Delta Fig 24/28 Series lubricated plug valves stocked by Global Supply Line are API-6D monogrammed and meet the requirements of NACE MR 01-75. In natural gas service, it is possible to encounter small amounts of H₂S which may cause corrosion. The phenomenon is normally known as "Hydrogen Sulfide Embrittlement" or "Hydrogen Stress Cracking". The absorption of hydrogen from part of the steel causes ductility which, when added to other elements of stress given by the service itself, may originate failure of the forged or cast components. Steels with yield strengths above 90,000 psi or with hardness over 22 Rockwell may be subject to "Sulfide Stress Cracking". Valvitalia checks all basic material components for hardness to remain below 22 Rockwell.



Materials of Construction:

BODY: A216 WCC PLUG: A216 WCC e/ENP Coating + PTFE Anti-friction Coating LOWER COVER: A105 UPPER COVER: A105 STUD: A193 B7M + Galvanised NUT: A194 2HM + Galvanised

Materials/Construction

In order to meet with international specifications and various customers' needs, Valvitalia are producing Lubricated Plug Valves suitable to cover the widest applications.

Executions

- Lubricated Inverted Taper Pressure Balanced High Performance Plug Valves.
- Lubricated Inverted Taper Pressure Balanced High Performance



AUSTRALIA'S LARGEST STOCKISI



Materials Application

All Valvitalia Products are normally available in:

- Standard carbon steel which are supplied in 0,22% MAX carb. contents, and destined to general service at temperatures from - 29° C Up to + 232° C (- 20° F% + 450° F). Plugs are normally in carbon steel too, in hardened condition.
- Low temperature service suitable from - 46° C to + 232° C (- 50° F% + 450° F). Normally used for below zero.
 Temperatures to - 46° C must have

a minimum average Charpy "V" notch impact strength a/15 Foot/Lb.

• In natural gas it is Possible to encounter small amounts of hydrogen sulfides (H2 5) which may cause corrosion.

This phenomenon is normally known as "hydrogen sulfide embrittlement" or "sulfide stress cracking".

The absorbtion of hydrogen from part of the steel causes ductility which, when added to other elements of stress given by the service itself, may originate failure of the forged or cast component. Steels with yield strengths above 621 Mpa (90.000 PSI) or with hardness over 22 Rockwell (235 Brinell) may be subject to "sulfide stress cracking". In Nace MR01.75-88 construction Valvitalia is carefully checking that all basic material components are properly treated in order to remain below the hardness of 22 Rockwell. In such a case, plugs are properly electro nickel coated to prevent galling action.

- Stainless steel material which contains Molybdenum and suitable for service temperature from + 232° C to + 371° C (+ 450° of % 700° F). Normally used for valves destined to high temperature Service or where high corrosion resistance is needed.
- 13% Chr. 316 Monel (solid or coating) Stellite No.6 (coating)
- Special material available on request.





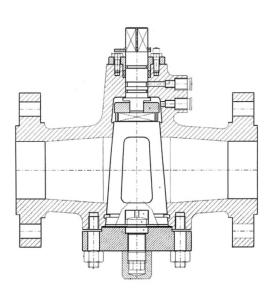
Delta Fig 24/28 Series Lubricated, Pressure Balanced, Inverted Type Plug Valve



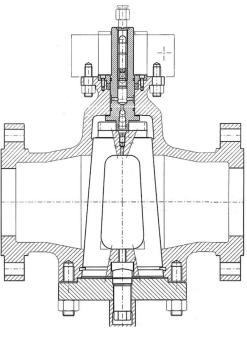
Lubricated plugs are normally installed where existing pulsating or static high pressures are present. The benefit of a pressure balanced plug is the equalisation of pressure between the plug and the upper and lower body chambers. Pressure is balanced utilising two holes in the plug connecting the plug port with both the upper and lower body cavities. The hole in the lower end is a simple connection passage while the hole in the upper end is provided with a check valve. The check valve assures pressure is always equal to or greater in the upper body cavity than what is present in the lower body cavity.

ADVANTAGES:

- Easy maintenance after a long period of time in the static position
- Tightness of the stem is assured by an antifriction ring fitted between the stem and body
- Dual stem seals
- Dual lube fittings (plug and stem)
- In case of locking of the plug to the body, it is possible to release by injecting lubricant through the lube fitting with the valve in service.



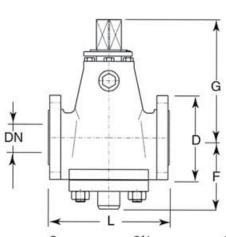
WRENCH OPERATED



GEAR OPERATED

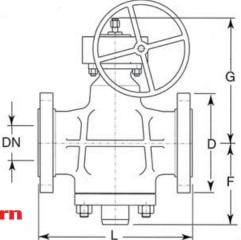


Class 150



Short Pattern Wrench Operated

| Inch | 11/2 | 2 | 21/2 | 3 | 4 | 6 |
|------|----------------------------------|---|---|---|-------------------------------------|---|
| mm | 15 | 50 | 65 | 80 | 100 | 150 |
| mm | 165 | 178 | 190 | 203 | 229 | 267 |
| mm | 14 | 191 | 203 | 216 | 242 | 280 |
| mm | 1.00 | 267 | 305 | 330 | 356 | 457 |
| mm | 127 | 152 | 178 | 191 | 229 | 280 |
| mm | 120 | 130 | 150 | 170 | 190 | 235 |
| mm | 270 | 290 | 320 | 360 | 380 | 460 |
| mm | 40 | 45 | 50 | 50 | 50 | 65 |
| Kg | 15 | 20 | 30 | 40 | 60 | 110 |
| | mm mm mm mm mm mm | mm 15 mm 165 mm - mm - mm 127 mm 120 mm 270 mm 40 | mm 15 50 mm 165 178 mm - 191 mm - 267 mm 127 152 mm 120 130 mm 270 290 mm 40 45 | Inch mm11/2 152 5021/2 65mm155065mm165178190mm-191203mm-267305mm127152178mm120130150mm270290320mm404550 | Inch mm11/2 152 5021/2 | mm15506580100mm165178190203229mm-191203216242mm-267305330356mm127152178191229mm120130150170190mm270290320360380mm4045505050 |

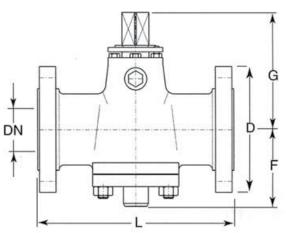


Short & Venturi Pattern Gear Operated

| Size DN | Inch mm | 6 150 | 8 200 | 10 250 | 12 300 | 14 350 | 16 400 | 18 450 | 20 500 | 22 550 | 24 600 | 30 750 |
|--------------------|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| L RF | mm | 267 | 292 | 330 | 356 | 686 | 762 | 864 | 914 | 1030 | 1067 | 1296 |
| LBW | mm | 457 | 521 | 559 | 635 | 686 | 762 | 864 | 914 | 1030 | 1067 | 1397 |
| D | mm | 280 | 343 | 406 | 483 | 534 | 597 | 635 | 699 | 750 | 813 | 984 |
| F | mm | 240 | 260 | 280 | 300 | 330 | 350 | 380 | 410 | 460 | 500 | 580 |
| G | mm | 480 | 510 | 530 | 550 | 600 | 620 | 640 | 700 | 750 | 800 | 900 |
| Handwheel diameter | mm | 500 | 500 | 650 | 650 | 650 | 650 | 650 | 650 | 800 | 800 | 800 |
| Weight (approx) | Kg | 135 | 170 | 230 | 350 | 460 | 700 | 880 | 1050 | 1500 | 2030 | 3000 |

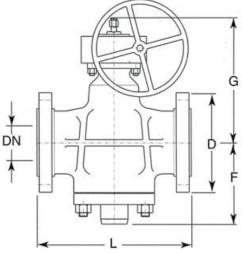
Class 300





Short Pattern Wrench Operated

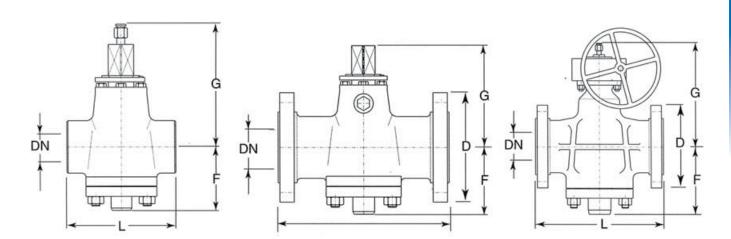
| Size DN | Inch mm | 1 ¹ /2 15 | 2 50 | 2 ¹ /2 65 | 3 80 | 4 100 | 6 150 |
|-----------------|------------|-------------------------|---------|-------------------------|---------|----------|----------|
| L RF | mm | 190 | 216 | 241 | 283 | 305 | 403 |
| L RJ | mm | 203 | 232 | 257 | 299 | 321 | 419 |
| LBW | mm | - | 267 | 305 | 330 | 356 | 457 |
| D | mm | 156 | 165 | 191 | 210 | 254 | 318 |
| F | mm | 115 | 140 | 150 | 170 | 180 | 235 |
| G | mm | 250 | 290 | 310 | 360 | 380 | 460 |
| JØ | mm | 40 | 45 | 50 | 50 | 50 | 65 |
| Weight (approx) | Kg | 20 | 25 | 35 | 50 | 76 | 140 |
| | | | | | | | |



| | | | | | _ | | | | | | |
|--------------------|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Size DN | Inch mm | 6 150 | 8 200 | 10 250 | 12 300 | 14 350 | 16 400 | 18 450 | 20 500 | 22 550 | 24 600 |
| L RF | mm | 403 | 419 | 457 | 502 | 762 | 838 | 914 | 991 | 1092 | 1143 |
| L RJ | mm | 419 | 435 | 473 | 518 | 778 | 854 | 930 | 1010 | 1114 | 1165 |
| LBW | mm | 457 | 521 | 559 | 635 | 762 | 838 | 914 | 991 | 1032 | 1143 |
| D | mm | 318 | 381 | 445 | 521 | 584 | 648 | 711 | 775 | 838 | 915 |
| F | mm | 240 | 260 | 280 | 300 | 350 | 370 | 400 | 430 | 480 | 530 |
| G | mm | 500 | 530 | 550 | 570 | 620 | 640 | 700 | 750 | 820 | 900 |
| Handwheel diameter | mm | 650 | 650 | 650 | 650 | 650 | 650 | 800 | 800 | 800 | 800 |
| Weight (approx) | Kg | 190 | 250 | 285 | 385 | 630 | 800 | 1000 | 1200 | 1500 | 2200 |
| | | | | | | | | | | | |







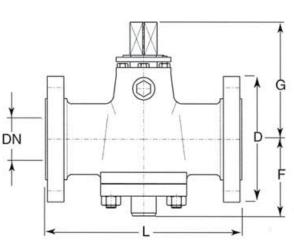
Regular Pattern Wrench Operated

| Size DN | Inch mm | 1/2 15 | ³ /4 20 | 1 25 | 1 ¹ /2 40 | 2 50 | 2 ¹ /2 65 | 3 80 | 4 100 | 6 150 |
|-----------------|------------|-----------|------------------------------|---------|-------------------------|---------|-------------------------|---------|----------|----------|
| L RF | mm | 165 | 191 | 216 | 241 | 292 | 330 | 356 | 406 | 495 |
| LBW | mm | 165 | 191 | 216 | 241 | 242 | 330 | 356 | 406 | 495 |
| D | mm | 95 | 118 | 124 | 156 | 165 | 141 | 210 | 254 | 318 |
| F | mm | 85 | 85 | 95 | 110 | 120 | 130 | 140 | 170 | 230 |
| G | mm | 170 | 170 | 180 | 195 | 235 | 260 | 310 | 350 | 460 |
| JØ | mm | 25 | 29 | 35 | 40 | 45 | 50 | 50 | 50 | 65 |
| Weight (approx) | Kg | 16 | 18 | 22 | 25 | 30 | 40 | 65 | 105 | 180 |

| Size DN | Inch mm | 6 ["] 150 | 8 200 | 10 250 | 12 300 | 14 350 | 16 400 | 18 450 | 20 500 | 24 600 |
|-----------------|------------|-----------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| L RF | mm | 495 | 597 | 673 | 762 | 826 | 902 | 978 | 1054 | 1232 |
| LBW | mm | 495 | 597 | 673 | 762 | 826 | 902 | 978 | 1054 | 1232 |
| D | mm | 318 | 381 | 445 | 521 | 584 | 648 | 711 | 775 | 914 |
| F | mm | 500 | 530 | 550 | 570 | 620 | 640 | 700 | 750 | 900 |
| G | mm | 230 | 260 | 280 | 300 | 350 | 370 | 400 | 430 | 530 |
| JØ | mm | 650 | 650 | 650 | 650 | 650 | 650 | 800 | 800 | 800 |
| Weight (approx) | Kg | 200 | 260 | 300 | 410 | 660 | 820 | 1030 | 1250 | 2320 |

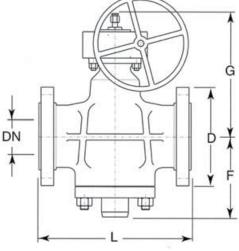
Class 600





Regular Pattern Wrench Operated

| Size DN | Inch mm | 1/2 15 | ³ /4 20 | 1 25 | 1 ¹ /2 40 | 2 50 | 2 ¹ /2 65 | 3 80 | 4 100 |
|-----------------|------------|-----------|-----------------------|---------|-------------------------|---------|-------------------------|---------|----------|
| L RF | mm | 159 | 191 | 216 | 241 | 292 | 330 | 356 | 432 |
| L RJ | mm | 159 | 191 | 216 | 241 | 295 | 333 | 359 | 435 |
| LBW | mm | 240 | - | 216 | 241 | 292 | 330 | 356 | 432 |
| D | mm | 95 | 118 | 121 | 156 | 165 | 191 | 210 | 273 |
| F | mm | 100 | 120 | 120 | 140 | 140 | 150 | 160 | 185 |
| JØ | mm | 22 | 27 | 27 | 40 | 45 | 50 | 50 | 50 |
| G | mm | 160 | 200 | 200 | 270 | 290 | 320 | 360 | 380 |
| Weight (approx) | Kg | 7 | 11 | 13 | 26 | 30 | 45 | 65 | 90 |

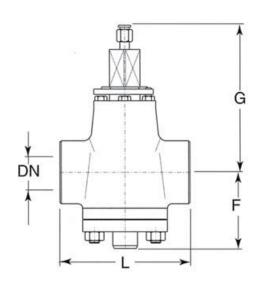


| Size DN | Inch mm | 4 100 | 6 150 | 8 200 | 10 250 | 12 300 | 14 350 | 16 400 | 18 450 | 20 500 | 22 550 | 24 600 |
|--------------------|------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| LRF | mm | 432 | 559 | 660 | 787 | 838 | 889 | 991 | 1092 | 1194 | 1296 | 1397 |
| L RJ | mm | 435 | 562 | 663 | 790 | 841 | 892 | 994 | 1095 | 1200 | 1305 | 1407 |
| LBW | mm | 432 | 559 | 660 | 787 | 838 | 889 | 991 | 1092 | 1194 | 1296 | 1397 |
| D | mm | 273 | 356 | 419 | 508 | 559 | 603 | 686 | 743 | 813 | 870 | 940 |
| F | mm | 185 | 243 | 260 | 280 | 300 | 350 | 370 | 400 | 430 | 500 | 521 |
| G | mm | 380 | 520 | 550 | 570 | 580 | 610 | 625 | 700 | 750 | 830 | 900 |
| Handwheel diameter | mm | 500 | 500 | 650 | 650 | 650 | 650 | 650 | 800 | 800 | 800 | 800 |
| Weight (approx) | Kg | 135 | 210 | 390 | 550 | 680 | 860 | 1100 | 1550 | 2000 | 2500 | 3200 |
| | | | | | | | | | | | | |

VALVITALIA

TYPE 24/28

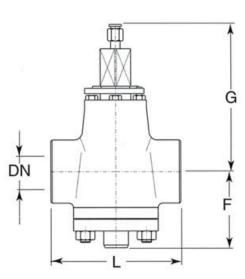
Class 600



Screwed or Socket Weld Ends Wrench Operated

| Size | Inch | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 11/2 | 2 |
|-----------------|------|-----|-----|-----|-----|-----|------|-----|
| DN | mm | 8 | 10 | 15 | 20 | 25 | 40 | 50 |
| L | mm | 89 | 89 | 89 | 114 | 133 | 187 | 229 |
| F | mm | 90 | 90 | 95 | 95 | 100 | 118 | 132 |
| G | mm | 145 | 145 | 145 | 145 | 210 | 280 | 300 |
| JØ | mm | 22 | 22 | 22 | 22 | 27 | 40 | 45 |
| Weight (approx) | Kg | 4 | 4 | 5 | 5 | 9 | 17 | 26 |



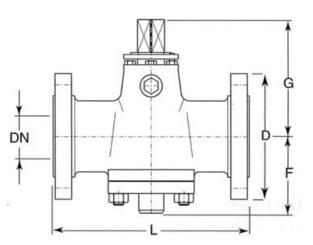


Screwed or Socket Weld Ends Wrench Operated

| Size | Inch | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 11/2 | 2 |
|-----------------|------|-----|-----|-----|-----|-----|------|-----|
| DN | mm | 8 | 10 | 15 | 20 | 25 | 40 | 50 |
| L | mm | 89 | 89 | 89 | 114 | 133 | 187 | 229 |
| F | mm | 90 | 90 | 95 | 95 | 100 | 118 | 132 |
| G | mm | 145 | 145 | 145 | 145 | 210 | 280 | 300 |
| JØ | mm | 22 | 22 | 22 | 22 | 27 | 40 | 45 |
| Weight (approx) | Kg | 4 | 4 | 5 | 5 | 9 | 17 | 26 |

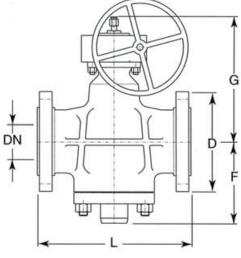
Class 900





Regular Pattern Wrench Operated

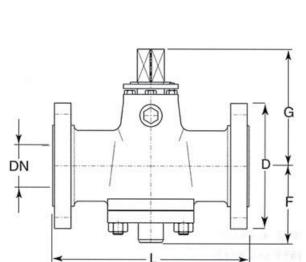
| Size DN | Inch mm | 1/2 15 | ³ /4 20 | 1 25 | 1 ¹ /2 40 | 2 50 | 3 80 | 4 100 |
|-----------------|------------|-----------|-----------------------|---------|-------------------------|---------|---------|----------|
| L RF | mm | 222 | 248 | 254 | 305 | 368 | 381 | 457 |
| L RJ | mm | 222 | 248 | 254 | 305 | 372 | 384 | 460 |
| L BW | mm | - | - | - | - | | 381 | 457 |
| D | mm | 121 | 130 | 149 | 178 | 216 | 241 | 292 |
| F | mm | 100 | 100 | 100 | 140 | 140 | 150 | 200 |
| G | mm | 150 | 180 | 200 | 280 | 300 | 360 | 380 |
| JØ | mm | 22 | 27 | 27 | 40 | 45 | 50 | 50 |
| Weight (approx) | Kg | 10 | 15 | 20 | 34 | 65 | 90 | 120 |



| Size DN | Inch mm | 4 100 | 6 150 | 8 200 | 10 250 | 12 300 | 14 350 | 16 440 | 20 500 |
|--------------------|------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| L RF | mm | 457 | 610 | 737 | 838 | 965 | 1028 | 1130 | 1321 |
| L RJ | mm | 460 | 613 | 740 | 841 | 968 | 1038 | 1140 | 1324 |
| LBW | mm | 452 | 610 | 737 | 838 | 965 | 1028 | 1130 | 1321 |
| D | mm | 292 | 381 | 470 | 546 | 610 | 641 | 705 | 857 |
| F | mm | 200 | 250 | 300 | 320 | 355 | 370 | 80 | 400 |
| G | mm | 410 | 510 | 540 | 580 | 660 | 660 | 680 | 700 |
| Handwheel diameter | mm | 500 | 600 | 650 | 650 | 800 | 800 | 800 | 800 |
| Weight (approx) | Kg | 145 | 320 | 480 | 760 | 1280 | 1500 | 1650 | 2500 |
| | * | | | | | | | | - |

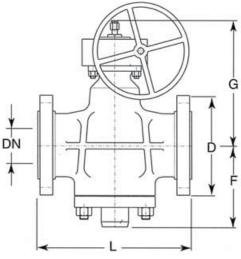
Class 1500





Regular Pattern Wrench Operated

| Size DN | Inch mm | ^{1/2} 15 | ^{3/4} 20 | 1 25 | 1 ¹ /4 32 | 1 ¹ /2 40 | 2 50 | 2 ¹ /2 65 | 3 80 |
|--|------------|----------------------|----------------------|---------|-------------------------|-------------------------|---------|-------------------------|---|
| L RF | mm | 222 | 248 | 254 | 279 | 305 | 368 | 419 | 470 |
| L RJ | mm | 222 | 248 | 254 | 279 | 305 | 371 | 422 | 473 |
| LBW | mm | - | | - | - | - | - | - | 470 |
| D | mm | 121 | 130 | 149 | 159 | 178 | 216 | 245 | 267 |
| F | mm | 100 | 100 | 100 | 120 | 130 | 150 | 160 | 170 |
| G | mm | 160 | 200 | 200 | 250 | 270 | 390 | 320 | 360 |
| JØ | mm | 22 | 27 | 27 | 35 | 40 | 45 | 50 | 50 |
| Weight (approx) | Kg | 11 | 15 | 20 | 24 | 36 | 55 | 80 | 100 |
| Concerning and a second s | | | | | | | | | the second se |



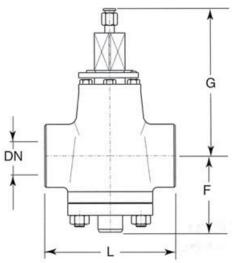
| Size DN | Inch mm | 3 80 | 4 100 | 6 150 | 8 200 | 10 250 | 12 300 |
|--------------------|------------|---------|----------|----------|----------|-----------|-----------|
| L RF | mm | 470 | 546 | 705 | 832 | 991 | 1130 |
| L RJ | mm | 473 | 549 | 711 | 842 | 1001 | 1146 |
| LBW | mm | 470 | 546 | 705 | 832 | 991 | 1130 |
| D | mm | 267 | 311 | 394 | 483 | 584 | 673 |
| F | mm | 150 | 210 | 260 | 300 | 360 | 460 |
| G | mm | 390 | 400 | 500 | 540 | 580 | 650 |
| Handwheel diameter | mm | 500 | 500 | 650 | 650 | 800 | 800 |
| Weight (approx) | Kg | 130 | 220 | 550 | 1100 | 1350 | 1900 |
| | | | | | | | |

VALVITALIA

TYPE 24/28

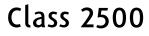
Class 1500

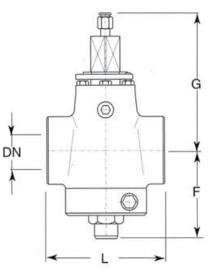




Screwed or Socket Weld Ends Wrench Operated

| Size DN | Inch | ^{3/8} 10 | 1/2 15 | ³ /4 20 | 1 25 | 1 ¹ /2 40 | 2 50 |
|-----------------|------|----------------------|-----------|------------------------------|----------|-------------------------|---------|
| | mm | | | | 16460000 | | |
| | mm | 89 | 89 | 114 | 133 | 229 | 229 |
| F | mm | 95 | 95 | 95 | 100 | 125 | 135 |
| G | mm | 145 | 145 | 145 | 210 | 280 | 300 |
| JØ | mm | 22 | 22 | 22 | 27 | 40 | 45 |
| Weight (approx) | Kg | 5 | 5 | 5 | 9 | 21 | 30 |

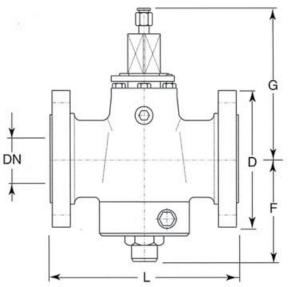




Screwed or Socket Weld Ends Wrench Operated

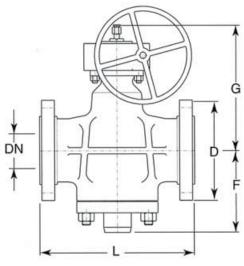
| Ci | hash | 11 | 37. | |
|-----------------|------------|----------------------|-----------------------|-----|
| Size DN | Inch mm | ^{1/2} 15 | ³ /4 20 | 25 |
| L | mm | 133 | 133 | 133 |
| н | mm | 150 | 150 | 150 |
| G | mm | 240 | 240 | 240 |
| JØ | mm | 32 | 32 | 32 |
| Weight (approx) | Kg | 16 | 18 | 18 |





Regular Pattern Wrench Operated

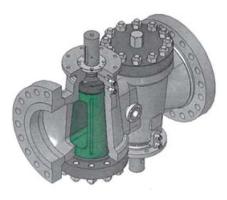
| Size DN | Inch mm | 1 25 | 1 ^{1/2} 40 | 2 50 | 2 ¹ /2 65 |
|-----------------|------------|---------|------------------------|---------|-------------------------|
| L RF | mm | 308 | 384 | 451 | 508 |
| L RJ | mm | 308 | 387 | 454 | 514 |
| LBW | mm | 308 | 384 | 451 | 508 |
| D | mm | 159 | 203 | 235 | 267 |
| F | mm | 150 | 165 | 175 | 190 |
| G | mm | 240 | 240 | 260 | 280 |
| JØ, | mm | 32 | 45 | 50 | 50 |
| Weight (approx) | Kg | 32 | 68 | 85 | 110 |
| | | | | | |



Regular Pattern Gear Operated

| Size DN | Inch mm | 3 80 | 4 100 | 6 150 | 8 200 |
|--------------------|------------|---------|----------|----------|----------|
| L RF | mm | - | 673 | 914 | 1022 |
| L RJ | mm | - | 683 | 927 | 1038 |
| LBW | mm | 578 | 673 | 914 | 1022 |
| D | mm | 305 | 356 | 483 | 552 |
| F | mm | 200 | 220 | 260 | 310 |
| G | mm | 410 | 425 | 470 | 510 |
| Handwheel diameter | mm | 500 | 650 | 800 | 800 |
| Weight (approx) | Kg | 165 | 230 | 660 | 1250 |





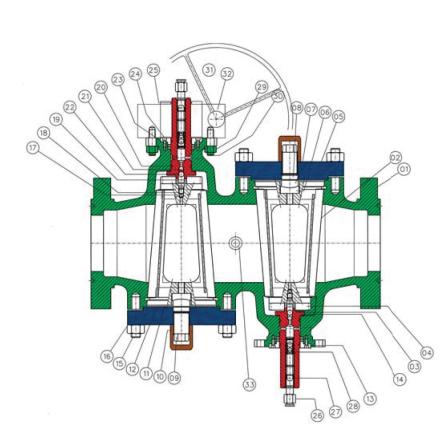
Double Block and Bleed Twin Seal Plug Valves

Type 22

- The Delta Type 22 double block and bleed twin seal plug valves are perfectly designed for the most demanding service conditions and manufactured according to API 6D.
- This compact design within the standard API 6D end to end dimensions offers both space and weight saving.
- The taper plug is pressure balanced, metal to metal seat with lubrication as a secondary back up seal.

- The double plug internals offer a double block and bleed feature which is intrinsically fire safe.
- End connections are offered in line with the customers requirements and can be flanged, weld ends or clamp ends.
- All materials selection is available as per the specifications requirements.
- The stem is anti blow out design with quarter turn manoeuvrability and low operating torque. The valve can be installed in any position.

| ITEM | DESCRIPTION |
|------|--------------------|
| 01 | BODY |
| 02 | PLUG |
| 03 | STEM |
| 04 | EQUALISER RING |
| 05 | COVER |
| 06 | THRUST SEAT |
| 07 | THRUST SEAT |
| 08 | THRUST SEAT |
| 09 | PLUG LOADING SCREW |
| 10 | SCREW CAP |
| 11 | DIAPHRAGM "A" |
| 12 | DIAPHRAGM "B" |
| 13 | GLAND PLATE |
| 14 | THRUST BEARING |
| 15 | STUD |
| 16 | NUT |
| 17 | BALL UP PLUG |
| 18 | GRAIN |
| 19 | ELASTIC PIN |
| 20 | 0-RING |
| 21 | BALL "A" |
| 22 | BALL "B" |
| 23 | PACKING |
| 24 | GLAND PLATE SCREW |
| 25 | 0-RING |
| 26 | LUBRICANT SCREW |
| 27 | STEM LIP |
| 28 | CHECK VALVE |
| 29 | GEAR NUT |
| 30 | GEAR STUD |
| 31 | HANDWHEEL |
| 32 | GEAR |
| 33 | DRAIN PLUG |
| 34 | NAME PLATE |
| 35 | RIVET |
| 36 | GREASE |

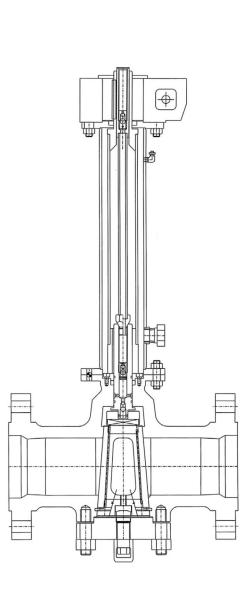


GSL Engineering Value-Added Capabilities

Global Supply Line Engineering located in Adelaide, Australia offers the following value-added items:

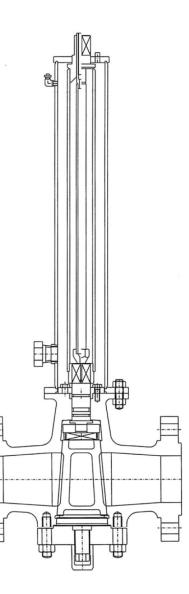
- stem extensions for buried service
- automation (pneumatic or electric) with full control panels and valve adaptation
- in-house hydrostatic testing with pressure and temperature charts
- welding and x-ray or pipe pups to weld end valves
- special coatings











VALVES AND PIPELINE PRODUCTS

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Padova Plant

Piacenza Plant



Tormene - Gas Technology S.p.A. Via Campolongo, 97 35020 Due Carrare (PD) - Italy Ph. + 39.049.9199611 Fax +39.049.9125455 E-mail: tormene@tormene.it www.tormene.com Tecnoforge S.p.A. Via Emilia Pavese, 38 29015 Castelsangiovanni (PC) - Italy Ph. +39.0523.889811 Fax +39.0523.889895 E-mail: tecfor@tecfor.it www.tecnoforge.com

Vicenza Plant

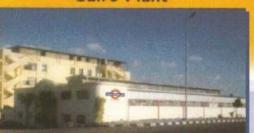


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