

**VEXVE**



# Trunnion mounted ball valves for demanding district energy needs





Our valve technology experts are at your service when you are choosing the right valve solutions for your needs!

## Vexve - Inspired by your flow

Vexve is the world's leading supplier of valve solutions for heating and cooling needs in cities and industry. From the widest range of valves in the district energy industry, you can choose the right product for your mission-critical applications. Our valve and control products together with hydraulic control solutions are used in district energy networks, power plants, and heating and cooling systems of all sizes of buildings.

Our goal is always to be one step ahead of our customers' needs and exceed their expectations every day by serving them well. We are constantly developing new, smart, and energy-efficient valve solutions and services that are based on a strong understanding of our customers' needs and desire to deliver high-quality products. Together we create innovative and efficient energy infrastructures that support the sustainable development of a low carbon future.

Vexve is part of Vexve Armatury Group, which is the leading European provider of valve solutions for the energy sector. New trunnion mounted valves are designed and manufactured in co-operation within Vexve Armatury Group Oy.

Our extensive sales and distribution network covers more than 30 countries







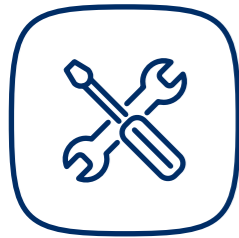
## Complete range of trunnion mounted ball valves

The new trunnion mounted valves are designed for above-ground and underground installations to operate reliably even in the most demanding conditions. The range includes full bore and reduced bore valves in DN sizes 150–900 with welded or flanged ends up to pressure class PN40. Valves can be operated with various actuator types. Our valves are specifically designed for the district heating and cooling applications needs.



## High-performance

The design of the new trunnion mounted ball valves ensures lower operating torque which means that the valves are easy and light to operate. With Vexve's trunnion mounted ball valves, you can minimize your pressure losses and achieve savings by reducing your pumping costs. The valves are optimized to be used in the highest district heating and cooling pressures.



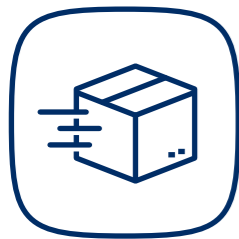
## Maintenance-free

Vexve's valves are manufactured from high-quality materials which ensures the durability of the valves. The valves are designed to last the entire life cycle of the pipeline. They are equipped with an integrated drain valve which allows draining of the valve body to check the tightness of the valve, even when the pipeline is pressurized.



## Reliable and safe

Vexve's trunnion mounted ball valves have a leakage rate A and bi-directional tightness. The valves have several quality certificates and are tested in accordance with the district energy sector's requirements. Blow-out safe stem construction ensures the safe operation of the valve.



## Fast deliveries

We optimize and measure our supply chain efficiency through delivery reliability, delivery capability, and customer satisfaction. Our highly automated production, efficient order-to-delivery process and high stock levels ensure fast deliveries globally throughout the year. We are constantly developing our facilities to make production even more efficient.



# High-performance trunnion mounted ball valves

## Trunnion mounted design

In the trunnion mounted ball valve design, the sealing rings are floating and the ball is fixed. The ball and the stem are attached to each other on both sides of the ball, which provides more support, especially as the ball size increases. When the pressure increases, the sealing rings are pressed against the ball. The spring is used to create a pre-pressure on the seal, which is used to achieve total tightness of the valve.

## Double block and bleed functionality

The double block and bleed functionality allows draining of the valve body to check the tightness of the valve, even when the pipeline is pressurized. The draining of the valve body is possible to do in both valve positions — open or closed.

Checking the tightness of the valve with double block and bleed functionality can be done as follows\*. The medium flows through the valve when the valve is in the open position. The seats ensure that the valve is tight. Testing the tightness of the valve can be done by closing the valve and draining the accumulated medium from the ball cavity. After the ball cavity is empty, you can check that the valve is tight by noticing that the flow from the draining valve stops.

## Fully welded construction and high-quality materials

The fully welded construction of the trunnion mounted ball valves increases district heating lines' lifetime as it eliminates the risk of leakage and air ingress. The valve stem is sealed with multiple O-rings, which guarantees that the stem construction is tight and the valve is maintenance-free. The trunnion mounted ball valves are suitable for many different applications and withstand varying water quality. The face-to-face lengths of the valves are standardized, which guarantees space-saving installation of the valves. Valves can be installed in any position and have four lifting lugs, which makes the moving and turning of the valve easier even in the locations where the space is limited.

## Spring-loaded ball seats

The valve range has spring-loaded ball seats that guarantee total tightness for the valves in high and low pressures. The trunnion mounted ball valves can be pressurized from both flow directions and are designed to withstand changing pressures. Thanks to the spring-loaded ball seats, the valve tolerates thermal expansion and axial loads.



\*Double block and bleed functionality



## Technical characteristics

- available in DN sizes 150–900
- available in PN 16/25/40
- temperature range: 0 °C – +200 °C
- top flange ISO 5211
- solid ball
- blow-out safe stem construction
- full bore or reduced bore construction
- welded connections according to EN (DIN) and GOST standards
- flanged connections according to EN 1092
- with manual gear, electric, hydraulic or pneumatic actuator
- integrated draining valve and mounting bracket



# Superior quality

Automated and modern production, precise quality control and our extensively certified operations ensure that our valve solutions meet the strictest quality criteria.

Our valves, certified in accordance with the Pressure Equipment Directive (PED), have been production tested in accordance with the EN 12266-1 standard with various media, pressures and test times.

Our valves are designed to fulfill the strict requirements of EN 488 and EHP003 standards set for district heating.

These standards guarantee to our customers that the valves they use are specifically suited for demanding underground conditions and will operate reliably over the whole lifetime of the network.

As a responsible company, we also operate in accordance with the social responsibility standard ISO 26000 and our business is certified with quality management system certificate ISO 9001: 2015 and environmental management system certificate ISO 14001: 2015.

## General standards and certificates

- ISO 9001  
Quality management system
- ISO 14001  
Environmental management system
- ISO 26000  
Social responsibility
- ISO 3834-2  
Welding quality specifications
- ISO 5817 Class B  
Welding Quality Assurance
- ISO 9606-1 (287) and ISO 14732 (1418)  
Requirements for welders
- ISO 9712 and ISO 17637  
Assurance of weldings and other visual quality
- EN 19  
Marking of valves
- PED (2014/68/EU, Module H)  
Pressure Equipment Directive
- EHP003 and EN 488  
Underground district heating valves

## Other quality assurance

- EN 10204  
Quality assurance of purchasing materials

## Testing

- EN12266-1, leakage rate A (bubble tight)
- P10  
Valve body strength
- P11  
Valve body tightness
- P12  
Valve closing tightness

## Design standards

- ISO EN 13445  
Strength requirements for valves
- EN 1983  
Industrial valves: steel ball valves, structural specifications
- EN 12627 and EN 253+A2  
Industrial valves shapes of welding ends
- EN 1092-1:2018  
Flanges and flange connections
- ISO EN 5211:2017  
Actuator mounts
- EN 12570  
Industrial valves, operating parts sizing method
- EN 12982 series 63  
Standardized face-to-face lengths for welding ends
- EN 558 series 12  
Standardized face-to-face lengths for flanged ends



Each of our valves is tested before delivery to the customer!



# Trunnion mounted ball valves, full bore

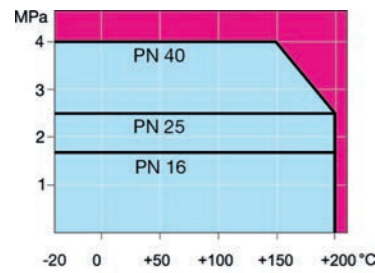
150/TR series, welding / welding, EN (DIN), DN 150-900, full bore

|                   |   |
|-------------------|---|
| Body              | DN 150-400 Steel, P355QH (1.0571) / P355NL1 (1.0566)<br>DN 450-900 Steel, P355QH (1.0571) / P355NH (1.0565) |
| Ball              | DN 150-900 Steel + stainless plating, ASTM A350 LF2 +Ni   |
| Ball seal         | DN 150-900 PTFE+C   |
| Stem              | DN 150-900 Stainless steel, X17CrNi16-2 (1.4057)  |
| Stem seal         | DN 150-900 FPM  |
| Operation         | DN 150-900 Valves are available with manual gear or with an electric or hydraulic actuator                  |
| Structural length | EN 12982 (63-series)  |
| Equipment         | DN 150-900 are equipped with lifting lugs, mounting stand, drain valve                                      |



## Operation conditions

0 °C – +200 °C  
Below 0 °C contact manufacturer  
Lowest allowed ambient temperature -20 °C  
Leakage rate A (EN 12266-1)



Not for steam

| DN  | PN | Product no. | Vexve | D   | D1    | D2     | D3    | D4    | H1  | H2  | H3  | HS1 | L    | LS1 | LS2 | S   | kg     |
|-----|----|-------------|-------|-----|-------|--------|-------|-------|-----|-----|-----|-----|------|-----|-----|-----|--------|
| 150 | 25 | 150150/TR   |       | 150 | 168.3 | 315.0  | 40.0  | 98.0  | 234 | 150 | 57  | 200 | 457  | 229 | 160 | 4,5 | 125.0  |
| 200 | 25 | 150200/TR   |       | 200 | 219.1 | 368.0  | 40.0  | 98.0  | 260 | 150 | 56  | 235 | 521  | 234 | 200 | 5   | 165.0  |
| 250 | 25 | 150250/TR   |       | 250 | 273.0 | 440.0  | 50.0  | 110.0 | 302 | 166 | 62  | 280 | 559  | 250 | 200 | 5   | 250.0  |
| 300 | 25 | 150300/TR   |       | 300 | 323.9 | 510.0  | 50.0  | 110.0 | 337 | 175 | 62  | 314 | 635  | 290 | 200 | 5,6 | 370.0  |
| 350 | 25 | 150350/TR   |       | 340 | 355.6 | 590.0  | 70.0  | 135.0 | 400 | 222 | 80  | 360 | 762  | 348 | 260 | 6,3 | 595.0  |
| 400 | 25 | 150400/TR   |       | 385 | 406.4 | 640.0  | 70.0  | 135.0 | 425 | 221 | 80  | 390 | 838  | 362 | 260 | 7,1 | 725.0  |
| 450 | 25 | 150450/TR   |       | 436 | 457.0 | 740.0  | 75.0  | 180.0 | 489 | 260 | 85  | 530 | 914  | 456 | 400 | 6,3 | 995.0  |
| 500 | 25 | 150500/TR   |       | 487 | 508.0 | 822.0  | 90.0  | 200.0 | 537 | 283 | 88  | 580 | 997  | 472 | 420 | 6,3 | 1275.0 |
| 600 | 25 | 150600/TR   |       | 589 | 610.0 | 980.0  | 98.0  | 200.0 | 616 | 311 | 88  | 660 | 1143 | 524 | 450 | 7,1 | 2075.0 |
| 700 | 25 | 150700/TR   |       | 684 | 711.0 | 1125.0 | 98.0  | 220.0 | 722 | 366 | 111 | 700 | 1346 | 572 | 450 | 8   | 3145.0 |
| 800 | 25 | 150800/TR   |       | 779 | 813.0 | 1290.0 | 120.0 | 270.0 | 833 | 426 | 138 | 840 | 1524 | 700 | 600 | 8,8 | 4785.0 |
| 900 | 25 | 150900/TR   |       | 874 | 914.0 | 1440.0 | 120.0 | 270.0 | 908 | 451 | 138 | 900 | 1727 | 770 | 600 | 10  | 6185.0 |

Also available in PN 40. For more information contact our customer service.  
Sizes DN 450-900 manufactured by ARMATURY Group a.s. - a member of Vexve Armatury Group.

# Trunnion mounted ball valves, full bore

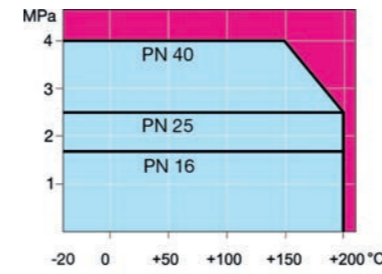
154/TR series, welding / welding, EN (DIN), DN 150-900, full bore

|           |   |
|-----------|---|
| Body      | DN 150-400 Steel, P355QH (1.0571) / P355NL1 (1.0566)<br>DN 450-900 Steel, P355QH (1.0571) / P355NH (1.0565) |
| Ball      | DN 150-900 Steel + stainless plating, ASTM A350 LF2 +Ni   |
| Ball seal | DN 150-900 PTFE+C   |
| Stem      | DN 150-900 Stainless steel, X17CrNi16-2 (1.4057)  |
| Stem seal | DN 150-900 FPM  |
| Operation | DN 150-900 Valve is equipped with manual gear   |
| Equipment | DN 150-900 are equipped with lifting lugs, mounting stand, drain valve                                      |



## Operation conditions

0 °C – +200 °C  
Below 0 °C contact manufacturer  
Lowest allowed ambient temperature -20 °C  
Leakage rate A (EN 12266-1)



Not for steam

| DN  | PN | Product no. | D   | D1    | D2     | D3    | D4    | H    | H1  | H2  | H3  | H4  | H5   | HS1 | L    | L1  | L2  | L3  | L4  | LS1 | LS2 | S   | kg     |
|-----|----|-------------|-----|-------|--------|-------|-------|------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|--------|
| 150 | 25 | 154150/TR   | 150 | 168.3 | 315.0  | 300.0 | 98.0  | 331  | 234 | 150 | 57  | 279 | 429  | 200 | 457  | 84  | 153 | 88  | 289 | 229 | 160 | 4,5 | 142.0  |
| 200 | 25 | 154200/TR   | 201 | 219.1 | 368.0  | 300.0 | 98.0  | 357  | 260 | 150 | 56  | 305 | 455  | 235 | 521  | 84  | 153 | 88  | 289 | 234 | 200 | 5   | 182.0  |
| 250 | 25 | 154250/TR   | 250 | 273.0 | 440.0  | 500.0 | 110.0 | 420  | 303 | 166 | 62  | 351 | 601  | 280 | 559  | 118 | 196 | 125 | 363 | 250 | 200 | 5   | 276.0  |
| 300 | 25 | 154300/TR   | 300 | 323.9 | 510.0  | 500.0 | 110.0 | 455  | 337 | 175 | 62  | 386 | 636  | 314 | 635  | 118 | 196 | 125 | 363 | 290 | 200 | 5,6 | 396.0  |
| 350 | 25 | 154350/TR   | 340 | 355.6 | 590.0  | 500.0 | 135.0 | 528  | 400 | 222 | 80  | 455 | 705  | 360 | 762  | 138 | 270 | 150 | 440 | 348 | 260 | 6,3 | 635.0  |
| 400 | 25 | 154400/TR   | 385 | 406.4 | 640.0  | 500.0 | 135.0 | 553  | 425 | 222 | 80  | 480 | 730  | 390 | 838  | 138 | 270 | 150 | 440 | 362 | 260 | 7,1 | 765.0  |
| 450 | 25 | 154450/TR   | 436 | 457.0 | 740.0  | 500.0 | 180.0 | 625  | 491 | 262 | 86  | 554 | 804  | 390 | 914  | 180 | 346 | 188 | 471 | 456 | 400 | 6,3 | 1055.0 |
| 500 | 25 | 154500/TR   | 487 | 508.0 | 822.0  | 500.0 | 200.0 | 672  | 537 | 283 | 88  | 601 | 851  | 580 | 991  | 180 | 346 | 188 | 471 | 472 | 420 | 6,3 | 1335.0 |
| 600 | 25 | 154600/TR   | 589 | 610.0 | 980.0  | 700.0 | 200.0 | 805  | 616 | 311 | 88  | 701 | 1051 | 660 | 1143 | 253 | 475 | 255 | 593 | 524 | 450 | 7,1 | 2340.0 |
| 700 | 25 | 154700/TR   | 684 | 711.0 | 1125.0 | 700.0 | 230.0 | 910  | 722 | 366 | 111 | 807 | 1157 | 700 | 1346 | 253 | 475 | 255 | 593 | 572 | 450 | 8   | 3340.0 |
| 800 | 25 | 154800/TR   | 779 | 813.0 | 1290.0 | 700.0 | 270.0 | 1021 | 833 | 426 | 138 | 918 | 1268 | 840 | 1524 | 253 | 475 | 255 | 593 | 700 | 600 | 8,8 | 4980.0 |
| 900 | 25 | 154900/TR   | 874 | 914.0 | 1440.0 | 700.0 | 270.0 | 1096 | 908 | 451 | 138 | 993 | 1343 | 900 | 1727 | 253 | 475 | 255 | 593 | 770 | 600 | 10  | 6380.0 |

Also available in PN 40. For more information contact our customer service.  
Sizes DN 450-900 manufactured by ARMATURY Group a.s. - a member of Vexve Armatury Group.

# Trunnion mounted ball valves, full bore

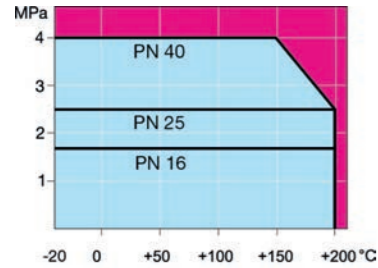
153/25/TR series, PN 25, flange / flange, DN 150-900, full bore

|           |   |
|-----------|---|
| Body      | DN 150-400 Steel, P355QH (1.0571) / P355NL1 (1.0566)<br>DN 450-900 Steel, P355QH (1.0571) / P355NH (1.0565) |
| Ball      | DN 150-900 Steel + stainless plating, ASTM A350 LF2 +Ni   |
| Ball seal | DN 150-900 PTFE+C   |
| Stem      | DN 150-900 Stainless steel, X17CrNi16-2 (1.4057)  |
| Stem seal | DN 150-900 FPM  |
| Operation | DN 150-900 Valves are available with manual gear or with an electric or hydraulic actuator                  |
| Flanges   | EN 1092-1<br>Available PN 25  |
| Equipment | DN 150-900 are equipped with lifting lugs, mounting stand, drain valve                                      |



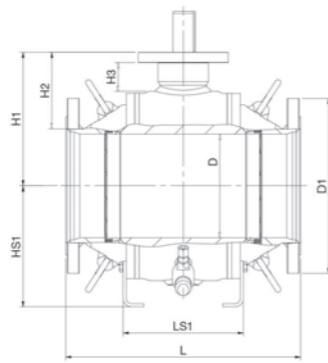
## Operation conditions

0 °C – +200 °C  
Below 0 °C contact manufacturer  
Lowest allowed ambient temperature -20 °C  
Leakage rate A (EN 12266-1)

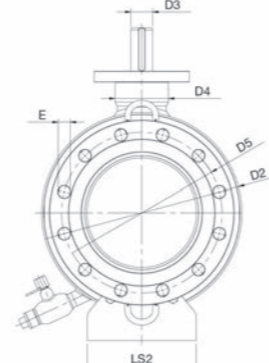


Not for steam

DN 150-900



DN 150-900



| DN  | PN | Product no.  | D   | D1     | D2     | D3    | D4    | D5     | E  | H1  | H2  | H3  | HS1 | L    | LS1 | LS2 | kg     |
|-----|----|--------------|-----|--------|--------|-------|-------|--------|----|-----|-----|-----|-----|------|-----|-----|--------|
| 150 | 25 | 153150/25/TR | 150 | 300.0  | 315.0  | 40.0  | 98.0  | 250.0  | 26 | 234 | 137 | 57  | 200 | 394  | 227 | 160 | 137.0  |
| 200 | 25 | 153200/25/TR | 201 | 360.0  | 368.0  | 40.0  | 98.0  | 310.0  | 26 | 260 | 150 | 56  | 235 | 457  | 234 | 200 | 185.0  |
| 250 | 25 | 153250/25/TR | 250 | 425.0  | 440.0  | 50.0  | 110.0 | 370.0  | 30 | 302 | 166 | 62  | 280 | 533  | 250 | 200 | 285.0  |
| 300 | 25 | 153300/25/TR | 300 | 485.0  | 510.0  | 50.0  | 110.0 | 430.0  | 30 | 337 | 175 | 62  | 314 | 610  | 290 | 200 | 410.0  |
| 350 | 25 | 153350/25/TR | 340 | 555.0  | 590.0  | 70.0  | 135.0 | 490.0  | 33 | 400 | 222 | 80  | 360 | 686  | 348 | 260 | 655.0  |
| 400 | 25 | 153400/25/TR | 385 | 620.0  | 640.0  | 70.0  | 135.0 | 550.0  | 36 | 425 | 221 | 80  | 390 | 762  | 362 | 260 | 780.0  |
| 450 | 25 | 153450/25/TR | 436 | 670.0  | 740.0  | 75.0  | 180.0 | 600.0  | 36 | 490 | 260 | 86  | 530 | 864  | 456 | 400 | 1095.0 |
| 500 | 25 | 153500/25/TR | 487 | 730.0  | 822.0  | 90.0  | 200.0 | 660.0  | 36 | 537 | 283 | 88  | 580 | 914  | 472 | 420 | 1415.0 |
| 600 | 25 | 153600/25/TR | 589 | 845.0  | 980.0  | 98.0  | 200.0 | 770.0  | 39 | 616 | 311 | 88  | 660 | 1065 | 524 | 450 | 2235.0 |
| 700 | 25 | 153700/25/TR | 684 | 960.0  | 1125.0 | 98.0  | 230.0 | 875.0  | 42 | 722 | 366 | 111 | 700 | 1245 | 572 | 450 | 3330.0 |
| 800 | 25 | 153800/25/TR | 779 | 1085.0 | 1290.0 | 120.0 | 270.0 | 990.0  | 48 | 833 | 426 | 138 | 840 | 1372 | 700 | 600 | 5005.0 |
| 900 | 25 | 153900/25/TR | 874 | 1185.0 | 1440.0 | 120.0 | 270.0 | 1090.0 | 48 | 908 | 451 | 138 | 900 | 1524 | 770 | 600 | 6405.0 |

Also available in PN 40. For more information contact our customer service.  
Sizes DN 450-900 manufactured by ARMATURY Group a.s. - a member of Vexve Armatury Group.

# Trunnion mounted ball valves, full bore

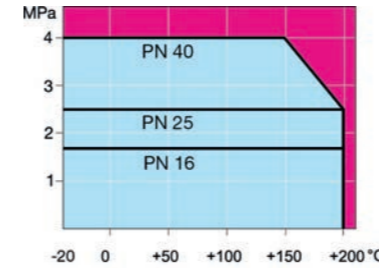
154xx1/25/TR series, PN 25, flange / flange, DN 150-900, full bore

|           |   |
|-----------|---|
| Body      | DN 150-400 Steel, P355QH (1.0571) / P355NL1 (1.0566)<br>DN 450-900 Steel, P355QH (1.0571) / P355NH (1.0565) |
| Ball      | DN 150-900 Steel + stainless plating, ASTM A350 LF2 +Ni   |
| Ball seal | DN 150-900 PTFE+C   |
| Stem      | DN 150-900 Stainless steel, X17CrNi16-2 (1.4057)  |
| Stem seal | DN 150-900 FPM  |
| Operation | DN 150-900 Valve is equipped with manual gear   |
| Flanges   | EN 1092-1<br>Available PN 25  |
| Equipment | DN 150-900 are equipped with lifting lugs, mounting stand, drain valve                                      |



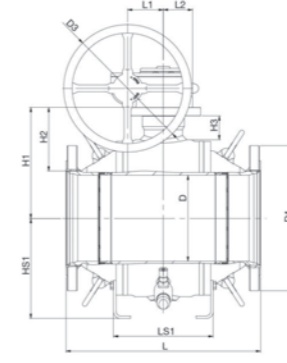
## Operation conditions

0 °C – +200 °C  
Below 0 °C contact manufacturer  
Lowest allowed ambient temperature -20 °C  
Leakage rate A (EN 12266-1)

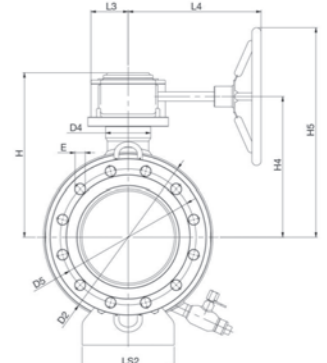


Not for steam

DN 150-900



DN 150-900



| DN  | PN | Product no.  | D   | D1     | D2     | D3    | D4    | D5     | E  | H    | H1  | H2  | H3  | H4  | H5   | HS1 | L    | L1  | L2  | L3  | L4  | LS1 | LS2 | kg     |
|-----|----|--------------|-----|--------|--------|-------|-------|--------|----|------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|--------|
| 150 | 25 | 154151/25/TR | 150 | 300.0  | 315.0  | 300.0 | 98.0  | 250.0  | 22 | 331  | 234 | 137 | 57  | 279 | 429  | 200 | 394  | 84  | 69  | 81  | 289 | 227 | 160 | 154.0  |
| 200 | 25 | 154201/25/TR | 201 | 360.0  | 368.0  | 300.0 | 98.0  | 310.0  | 26 | 357  | 260 | 150 | 56  | 305 | 455  | 235 | 457  | 84  | 69  | 81  | 289 | 234 | 200 | 201.0  |
| 250 | 25 | 154251/25/TR | 250 | 425.0  | 440.0  | 500.0 | 110.0 | 370.0  | 30 | 420  | 302 | 164 | 62  | 351 | 601  | 280 | 533  | 118 | 108 | 125 | 363 | 250 | 200 | 307.0  |
| 300 | 25 | 154301/25/TR | 300 | 485.0  | 510.0  | 500.0 | 110.0 | 430.0  | 30 | 455  | 337 | 174 | 62  | 386 | 636  | 314 | 610  | 118 | 108 | 125 | 363 | 290 | 200 | 436.0  |
| 350 | 25 | 154351/25/TR | 340 | 555.0  | 590.0  | 500.0 | 135.0 | 490.0  | 33 | 528  | 400 | 221 | 80  | 455 | 705  | 360 | 686  | 138 | 133 | 150 | 440 | 348 | 260 | 698.0  |
| 400 | 25 | 154401/25/TR | 385 | 620.0  | 640.0  | 500.0 | 135.0 | 550.0  | 36 | 553  | 425 | 220 | 80  | 480 | 730  | 390 | 762  | 138 | 133 | 150 | 440 | 362 | 260 | 845.0  |
| 450 | 25 | 154451/25/TR | 436 | 670.0  | 740.0  | 500.0 | 180.0 | 600.0  | 36 | 625  | 490 | 250 | 86  | 554 | 804  | 530 | 864  | 180 | 167 | 188 | 471 | 456 | 400 | 1101.0 |
| 500 | 25 | 154501/25/TR | 487 | 730.0  | 822.0  | 500.0 | 200.0 | 660.0  | 36 | 672  | 537 | 277 | 88  | 601 | 851  | 580 | 914  | 180 | 167 | 188 | 471 | 472 | 420 | 1390.0 |
| 600 | 25 | 154601/25/TR | 589 | 845.0  | 980.0  | 700.0 | 200.0 | 770.0  | 39 | 805  | 616 | 306 | 88  | 701 | 1051 | 660 | 1067 | 253 | 222 | 255 | 593 | 524 | 450 | 2383.0 |
| 700 | 25 | 154701/25/TR | 684 | 960.0  | 1125.0 | 700.0 | 230.0 | 875.0  | 42 | 910  | 722 | 352 | 111 | 807 | 1157 | 700 | 1245 | 253 | 222 | 255 | 593 | 572 | 450 | 3477.0 |
| 800 | 25 | 154801/25/TR | 779 | 1085.0 | 1290.0 | 700.0 | 270.0 | 990.0  | 48 | 1021 | 833 | 418 | 138 | 918 | 1268 | 840 | 1368 | 253 | 222 | 255 | 593 | 700 | 600 | 5005.0 |
| 900 | 25 | 154901/25/TR | 874 | 1185.0 | 1440.0 | 700.0 | 270.0 | 1090.0 | 48 | 1096 | 908 | 438 | 138 | 993 | 1343 | 900 | 1524 | 253 | 222 | 255 | 593 | 770 | 600 | 6385.0 |

Also available in PN 40. For more information contact our customer service.  
Sizes DN 450-900 manufactured by ARMATURY Group a.s. - a member of Vexve Armatury Group.

# Trunnion mounted ball valves, full bore

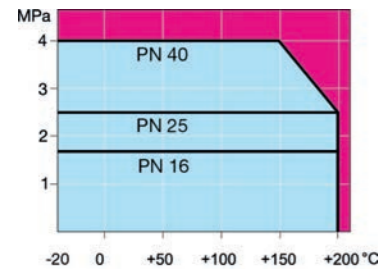
157/S/TR series, long stem ball valve, welding / welding, EN (DIN), DN 150-400, full bore

|                   |   |
|-------------------|---|
| Body              | DN 150-400 Steel, P355QH (1.0571) / P355NL1 (1.0566)      |
| Ball              | DN 150-400 Steel + stainless plating, ASTM A350 LF2 +Ni   |
| Ball seal         | DN 150-400 PTFE+C   |
| Stem              | DN 150-400 Stainless steel, X17CrNi16-2 (1.4057)          |
| Stem seal         | DN 150-400 FPM  |
| Operation         | DN 150-400 available with portable planet gear            |
| Top of stem       | DN 150-400 Stainless steel, X5CrNi18-10 (1.4301)          |
| Structural length | EN 12982 (63-series)                                      |
| Equipment         | DN 150-400 are equipped with lifting lugs, mounting stand |



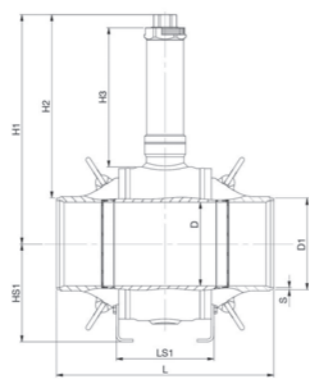
## Operation conditions

0 °C – +200 °C  
 Below 0 °C contact manufacturer  
 Lowest allowed ambient temperature -20 °C  
 Leakage rate A (EN 12266-1)

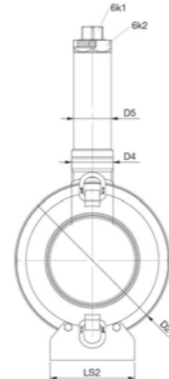


Not for steam

DN 150-900



DN 150-900



| DN  | PN | Product no. | 6K1 | 6K2 | D   | D1    | D2    | D4    | D5    | H1  | H2  | H3  | HS1 | L   | LS1 | LS2 | S   | kg    |
|-----|----|-------------|-----|-----|-----|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 150 | 25 | 157150/S/TR | 50  | 90  | 150 | 168.3 | 315.0 | 98.0  | 88.9  | 524 | 440 | 335 | 200 | 457 | 229 | 160 | 4,5 | 127.0 |
| 200 | 25 | 157200/S/TR | 50  | 90  | 200 | 219.1 | 368.0 | 98.0  | 88.9  | 550 | 440 | 335 | 235 | 521 | 234 | 200 | 5,0 | 164.0 |
| 250 | 25 | 157250/S/TR | 50  | 90  | 250 | 273.0 | 440.0 | 110.0 | 114.3 | 629 | 492 | 377 | 280 | 559 | 250 | 200 | 5,0 | 255.0 |
| 300 | 25 | 157300/S/TR | 50  | 90  | 300 | 323.9 | 510.0 | 110.0 | 114.3 | 664 | 502 | 377 | 314 | 635 | 290 | 200 | 5,6 | 373.0 |
| 350 | 25 | 157350/S/TR | 50  | 90  | 340 | 355.6 | 590.0 | 135.0 | 139.7 | 645 | 467 | 318 | 360 | 762 | 348 | 260 | 6,3 | 601.0 |
| 400 | 25 | 157400/S/TR | 50  | 90  | 385 | 406.4 | 640.0 | 135.0 | 139.7 | 670 | 466 | 318 | 390 | 838 | 362 | 260 | 7,1 | 722.0 |

Also available in PN 40. For more information contact our customer service.  
 Sizes DN 450-900 manufactured by ARMATURY Group a.s. - a member of Vexve Armatury Group.

# Trunnion mounted ball valves, full bore

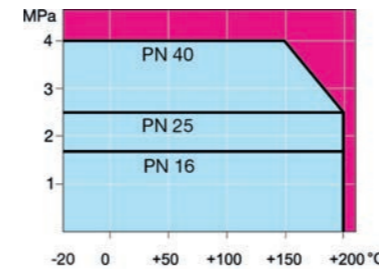
157/TR/HG series, long stem ball valve, welding / welding, EN (DIN), DN 150-900, full bore

|                   |   |
|-------------------|---|
| Body              | DN 150-400 Steel, P355QH (1.0571) / P355NL1 (1.0566)                                  |
| Ball              | DN 450-900 Steel, P355QH (1.0571) / P355NH (1.0565)                                   |
| Ball seal         | DN 150-900 Steel + stainless plating, ASTM A350 LF2 +Ni                               |
| Stem              | DN 150-900 Stainless steel, X17CrNi16-2 (1.4057)                                      |
| Stem seal         | DN 150-900 FPM  |
| Operation         | DN 150-900 Valves are available with angle gear, standard hexagon adapter 27 or 32 mm |
| Top of stem       | DN 150-900 Stainless steel, X5CrNi18-10 (1.4301)                                      |
| Structural length | EN 12982 (63-series)  |
| Equipment         | DN 150-900 are equipped with lifting lugs, mounting stand                             |



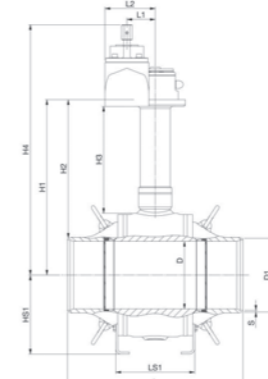
## Operation conditions

0 °C – +200 °C  
 Below 0 °C contact manufacturer  
 Lowest allowed ambient temperature -20 °C  
 Leakage rate A (EN 12266-1)

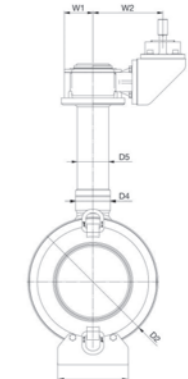


Not for steam

DN 150-900



DN 150-900



| DN  | PN | Product no.  | D   | D1    | D2     | D4    | D5    | H1   | H2  | H3  | H4   | HS1 | L    | L1  | L2  | LS1 | LS2 | S   | W1  | W2  | kg     |
|-----|----|--------------|-----|-------|--------|-------|-------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|--------|
| 150 | 25 | 157150/TR/HG | 150 | 168.3 | 315.0  | 98.0  | 88.9  | 494  | 410 | 317 | 717  | 200 | 457  | 84  | 149 | 229 | 160 | 4,5 | 81  | 198 | 152.0  |
| 200 | 25 | 157200/TR/HG | 200 | 219.1 | 368.0  | 98.0  | 88.9  | 520  | 410 | 316 | 743  | 235 | 521  | 84  | 149 | 234 | 200 | 5,0 | 81  | 198 | 190.0  |
| 250 | 25 | 157250/TR/HG | 250 | 273.0 | 440.0  | 110.0 | 114.3 | 568  | 432 | 338 | 795  | 280 | 559  | 118 | 183 | 250 | 200 | 5,0 | 125 | 233 | 293.0  |
| 300 | 25 | 157300/TR/HG | 300 | 323.9 | 510.0  | 110.0 | 114.3 | 603  | 441 | 328 | 830  | 314 | 635  | 118 | 183 | 290 | 200 | 5,6 | 125 | 233 | 411.0  |
| 350 | 25 | 157350/TR/HG | 340 | 355.6 | 590.0  | 135.0 | 139.7 | 695  | 517 | 375 | 924  | 360 | 762  | 138 | 222 | 348 | 260 | 6,3 | 150 | 235 | 660.0  |
| 400 | 25 | 157400/TR/HG | 385 | 406.4 | 640.0  | 135.0 | 139.7 | 720  | 517 | 375 | 949  | 390 | 838  | 138 | 222 | 362 | 260 | 7,1 | 150 | 235 | 781.0  |
| 450 | 25 | 157450/TR/HG | 436 | 457.0 | 740.0  | 219.1 |       | 720  | 492 | 316 | 947  | 530 | 914  | 182 | 267 | 456 | 400 | 6,3 | 188 | 236 | 1120.0 |
| 500 | 25 | 157500/TR/HG | 487 | 508.0 | 822.0  | 244.5 |       | 761  | 507 | 312 | 987  | 580 | 991  | 175 | 267 | 472 | 420 | 6,3 | 188 | 236 | 1410.0 |
| 600 | 25 | 157600/TR/HG | 589 | 610.0 | 980.0  | 244.5 |       | 840  | 535 | 312 | 1083 | 660 | 1143 | 253 | 335 | 524 | 450 | 7,1 | 255 | 363 | 2220.0 |
| 700 | 25 | 157700/TR/HG | 684 | 711.0 | 1125.0 | 273.0 |       | 932  | 576 | 323 | 1175 | 700 | 1346 | 253 | 337 | 572 | 450 | 8,0 | 255 | 498 | 3390.0 |
| 800 | 25 | 157800/TR/HG | 779 | 813.0 | 1290.0 | 298.0 |       | 1045 | 638 | 350 | 1296 | 840 | 1524 | 253 | 362 | 700 | 600 | 8,8 | 255 | 420 | 5020.0 |
| 900 | 25 | 157900/TR/HG | 874 | 914.0 | 1440.0 | 298.0 |       | 1120 | 663 | 350 | 1371 | 750 | 1727 | 253 | 362 | 770 | 600 | 10  | 255 | 420 | 6450.0 |

Also available in PN 40. For more information contact our customer service.  
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# INSPIRED BY YOUR FLOW

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