

Ball Valves Type 374-375

Ball Valve Type 374



Ball Valve Type 374

Product description

The Ball Valve Type 374 is an affordable and high quality manual valve that was developed specially for use in non-critical water applications. Its construction ensures simple maintenance and hence a long service life. Its compact construction is an advantage for use in confined spaces such as filtering modules.

Function

The ball valve uses a rotating ball with a hole through it that allows straight-through flow in the open position and shuts off flow when the ball is rotated 90° to block the flow passage. This valve is used primarily for open/close functions and also for throttling services.

Applications

- Swimming Pools, leisure parks and SPA's
- Building Technology
- Water treatment
- Fountains and municipal landscaping
- Irrigation
- Fish farming and aquaculture
- Other applications in which non aggressive chemical media is conveyed through the piping system

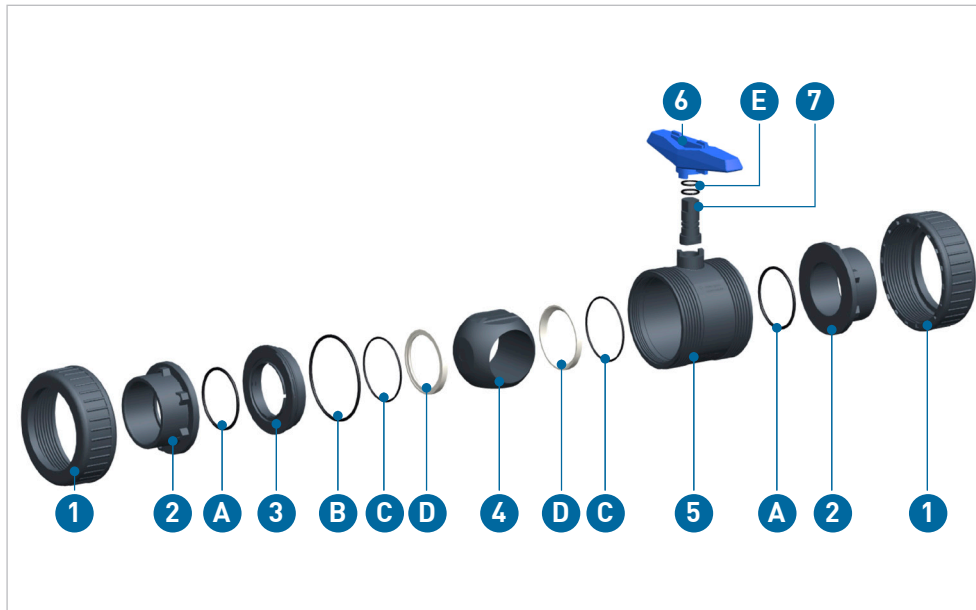
Benefits/features

- Double union for easy installation and removal
- Ergonomic hand lever with integrated tool for removing/adjusting the union bushing
- Simple maintenance and long service life
- Simple installation and removal due to compact construction
- Low torque opening and closing
- Double O-ring sealing on the stem
- Very compact "Z" dimension
- Wide range from 16mm to 110mm and from ½" to 4"

Flow media

Non-solid, neutral and non-aggressive media. The chemical resistance depends on the selected valve material ([see online tool ChemRes PLUS](#)).

Technical data



- 1 Coupling nut
- 2 Connecting part
- 3 Union bush
- 4 Ball
- 5 Valve body
- 6 Hand lever
- 7 Stem
- A Face seal
- B Body seal
- C Backing seal
- D Ball seat
- E Stem seal

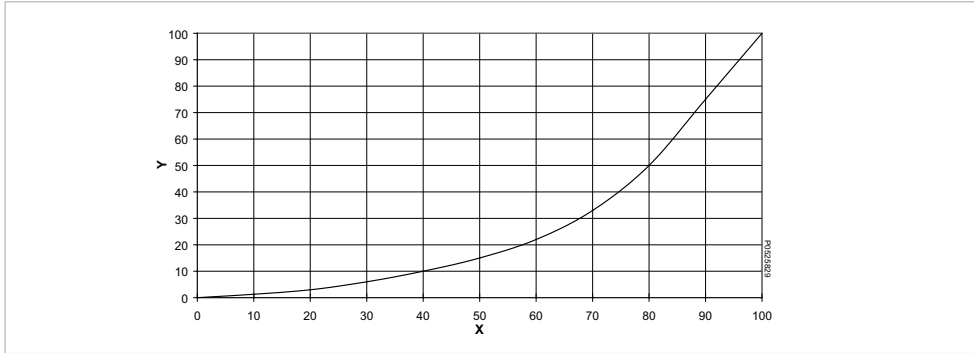
| Specification | | |
|--------------------|----------------------------------|--------------------|
| Dimensions | d16/DN10 – d110/DN100, 3/8" – 4" | |
| Materials | Valve body | PVC-U |
| | Lever | PVC-U |
| Gasket materials | O-rings | EPDM |
| | Ball seat | PE/PTFE |
| Pressure levels | DN10 – 50 | PN16 |
| | DN65 – 100 | PN10 |
| Actuation variants | Manually operated | |
| Connections | Solvent cement sockets | ISO, BS, ASTM/ANSI |
| | Threaded sockets | NPT, Rp |
| | Butt fusion spigots, long | PE100 SDR11 ISO |
| Product standard | EN ISO 16135 | |
| Test standard | ISO 9393-2 | |
| Approvals | QAP/ITP, NSF 61, WRAS | |

Kv 100 values

| DN (mm) | inch (inch) | d (mm) | Kv 100 (l/min) | Cv 100 (US Gal./min) | Kv 100 (m ³ /h) |
|---------|-------------|--------|----------------|----------------------|----------------------------|
| 10 | 3/8 | 16 | 70 | 4.9 | 4 |
| 15 | 1/2 | 20 | 185 | 12.9 | 11 |
| 20 | 3/4 | 25 | 350 | 24.5 | 21 |
| 25 | 1 | 32 | 700 | 49.0 | 42 |
| 32 | 1 1/4 | 40 | 1'000 | 70.0 | 60 |
| 40 | 1 1/2 | 50 | 1'600 | 112.0 | 96 |
| 50 | 2 | 63 | 3'100 | 217.1 | 186 |
| 65 | 2 1/2 | 75 | 5'000 | 350.0 | 300 |
| 80 | 3 | 90 | 7'000 | 490.0 | 420 |
| 100 | 4 | 110 | 11'000 | 770.0 | 660 |

The kv values for each intermediate valve position can be determined by using the flow value characteristics and the kv 100 values.

Flow characteristics

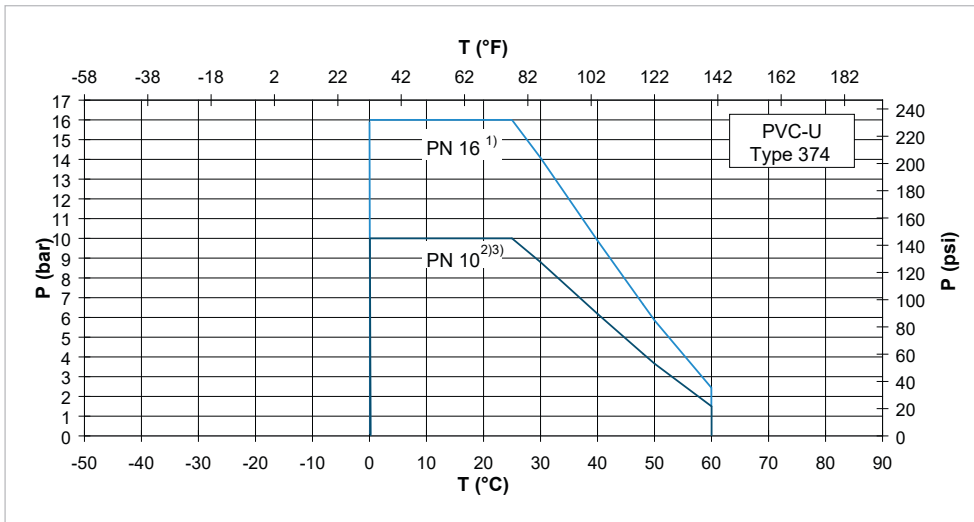


X Opening angle (%)
Y Kv, Cv value (%)

Pressure-temperature diagrams

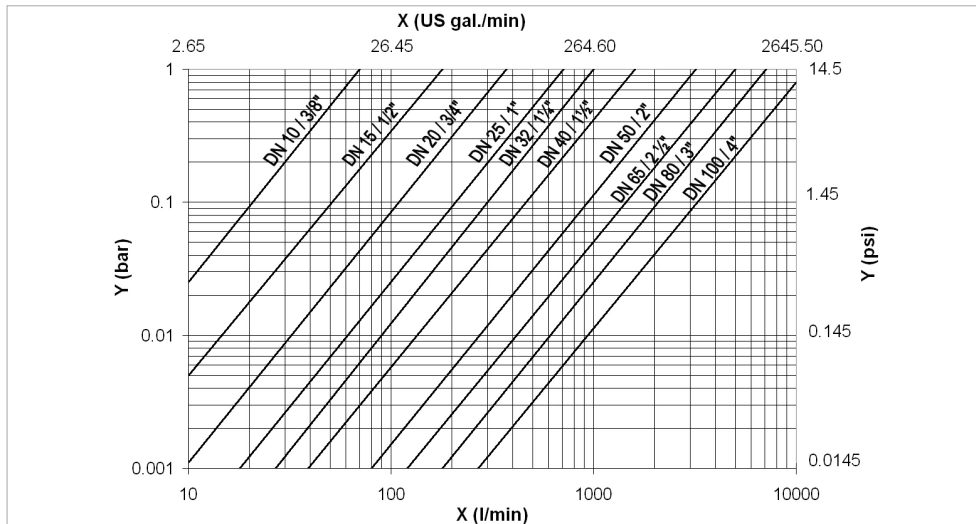
The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

T Temperature (°C, °F)
P Permissible pressure (bar, psi)



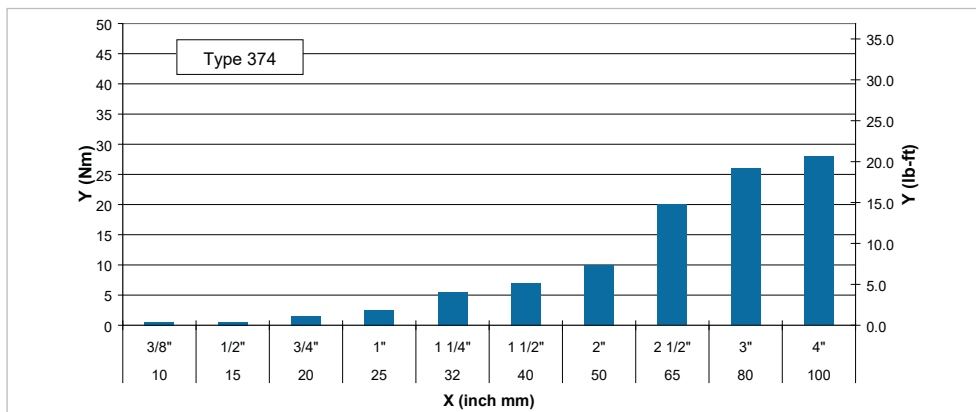
- 1) For the nominal diameters DN10-DN50 the central part of the ball valve is designed for the nominal pressure PN16
- 2) For nominal diameters DN10-DN50, the nominal pressure is reduced to PN10 depending on the connection
- 3) For the nominal diameters DN65-DN100 the central part of the ball valve is designed for nominal pressure PN10

Pressure losses



- X Flow rate (l/min, US gal/min)
- Y Pressure loss Δp (bar, psi)

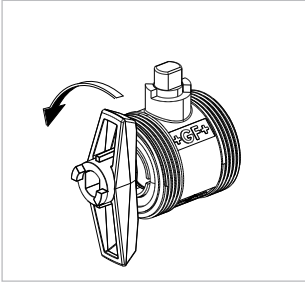
Operating torque



- X Nominal diameter DN (mm, inch)
- Y Tightening torque (Nm, lb-ft)

Technical basics

- With the backing seals, the ball has a floating position. This results in preloading and hence a constant seal. Stem, backing, housing and connection seals are made of EPDM.
- The design of the hand lever serves as a tool for a micro adjustment of the ball support.



i All ball valves in DN10 – 100 are available as radially removable valves with two threaded connections according to EN ISO 16135.

Valve handling

Installation notes

When installing the ball valve, ensure that it is always installed into the system in an opened ball position.

Maintenance notes

Ball valves require no maintenance under normal operating conditions (clear water). However, the following measures must be considered:

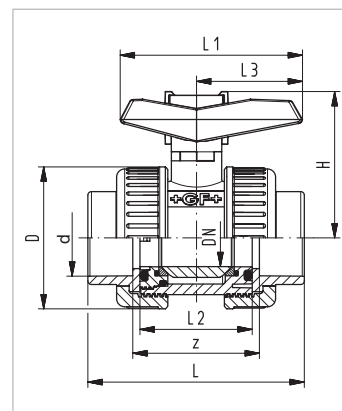
- Regularly check that no medium escapes to the outside.
- We recommend a function test for ball Type valves that are kept permanently in the same position 1 – 2 times per year to check functionality.

⚠ Installation and maintenance must be performed according to the corresponding installation instructions. The installation manual is included with the product, see also the online product catalogue at www.gfps.com

Dimensions

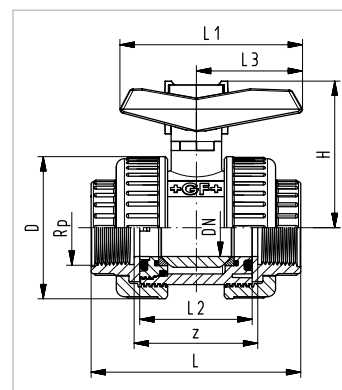
With solvent cement sockets, metric

| d (mm) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|--------|---------|--------|--------|--------|---------|---------|---------|--------|
| 16 | 10 | 50 | 55 | 76 | 67 | 42 | 40 | 48 |
| 20 | 15 | 50 | 55 | 80 | 67 | 42 | 40 | 48 |
| 25 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 32 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 40 | 32 | 80 | 81 | 120 | 102 | 62 | 59 | 68 |
| 50 | 40 | 94 | 91 | 140 | 119 | 72 | 70 | 78 |
| 63 | 50 | 115 | 113 | 169 | 146 | 86 | 84 | 93 |
| 75 | 65 | 145 | 129 | 206 | 179 | 110 | 103 | 118 |
| 90 | 80 | 168 | 146 | 242 | 209 | 128 | 120 | 140 |
| 110 | 100 | 210 | 179 | 282 | 250 | 150 | 141 | 160 |



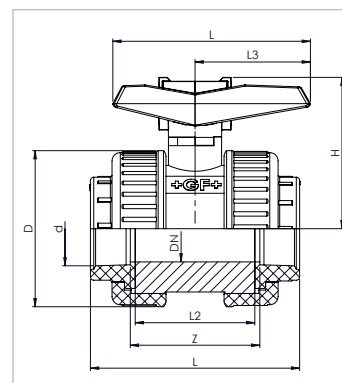
With threaded sockets, Rp

| Rp (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|-----------|---------|--------|--------|--------|---------|---------|---------|--------|
| 3/8 | 15 | 50 | 55 | 76 | 67 | 42 | 40 | 48 |
| 1/2 | 15 | 50 | 55 | 80 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 116 | 102 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 126 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 149 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 184 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 212 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 244 | 250 | 150 | 141 | 160 |



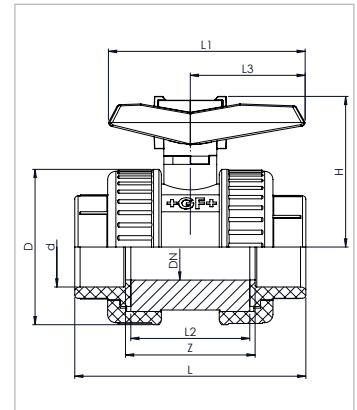
With threaded sockets, NPT

| NPT (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|------------|---------|--------|--------|--------|---------|---------|---------|--------|
| 1/2 | 15 | 50 | 55 | 88 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 116 | 102 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 126 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 149 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 184 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 212 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 244 | 250 | 150 | 141 | 160 |



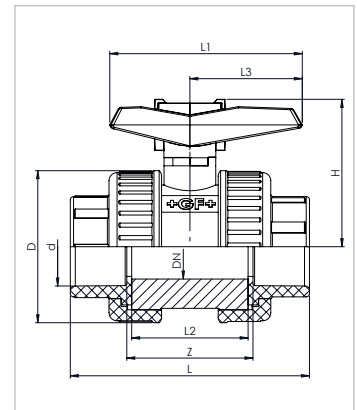
With solvent cement sockets, BS

| d (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|-------------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| 1/2 | 15 | 50 | 55 | 80 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 120 | 105 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 140 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 169 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 206 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 242 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 282 | 250 | 150 | 141 | 160 |



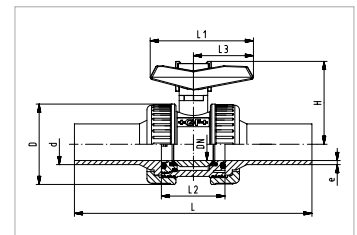
With solvent cement sockets, ASTM

| d (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|-------------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| 1/2 | 15 | 50 | 55 | 92 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 104 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 116 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 130 | 102 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 140 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 169 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 206 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 242 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 282 | 250 | 150 | 141 | 160 |



With butt fusion spigot, long

| d (mm) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | e (mm) |
|-----------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| 20 | 15 | 95 | 55 | 175 | 67 | 42 | 40 | 1.8 |
| 25 | 20 | 105 | 61 | 195 | 77 | 48 | 45 | 2.3 |
| 32 | 25 | 115 | 69 | 247 | 87 | 54 | 51 | 2.9 |
| 40 | 32 | 140 | 81 | 233 | 102 | 62 | 59 | 3.6 |
| 50 | 40 | 150 | 91 | 265 | 119 | 72 | 70 | 4.5 |
| 63 | 50 | 165 | 113 | 278 | 146 | 86 | 84 | 5.7 |
| 75 | 65 | 185 | 129 | 348 | 179 | 110 | 103 | 6.8 |
| 90 | 80 | 200 | 146 | 350 | 209 | 128 | 120 | 8.2 |
| 110 | 100 | 220 | 179 | 412 | 250 | 150 | 141 | 10 |



Ball Valve Type 375



Ball Valve Type 375

Product description

The Ball Valve Type 375 is an affordable manual ball valve that was developed specially for use in water applications or with non-critical chemicals. Its construction ensures simple maintenance and hence a long service life. Its compact construction makes possible simple installation into and removal from the piping system.

Function

The ball valve uses a rotating ball with a hole through it that allows straight-through flow in the open position and shuts off flow when the ball is rotated 90° to block the flow passage. This valve is used primarily for open/close functions and also for throttling services.

Applications

- Water treatment
- Non-critical chemicals

Benefits/features

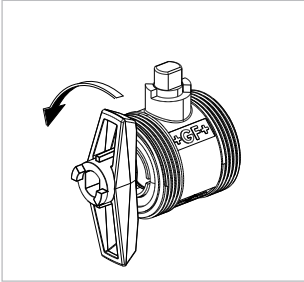
- Manual valve for water applications and non-critical media
- Ergonomic hand lever with integrated tool for removing/adjusting the union bushing
- Simple maintenance and long service life
- Simple installation and removal due to compact construction
- PTFE ball seat
- Double o-ring on the stem
- Very compact "Z" dimension
- Wide range from 16mm to 110mm and from ½" to 4"

Flow media

Non-solid, neutral and non-aggressive media. The chemical resistance depends on the selected valve material ([see online tool ChemRes PLUS](#)).

Technical basics

- With the backing seals, the ball has a floating position. This results in preloading and hence a constant seal. Stem, backing, housing and connection seals are made of EPDM or FKM.
- The design of the hand lever serves as a tool for a micro adjustment of the ball support.



i All ball valves in DN10 – 100 are available as radially removable valves with two threaded connections according to EN ISO 16135.

Valve handling

Installation notes

When installing the ball valve, ensure that it is always installed into the system in an opened ball position.

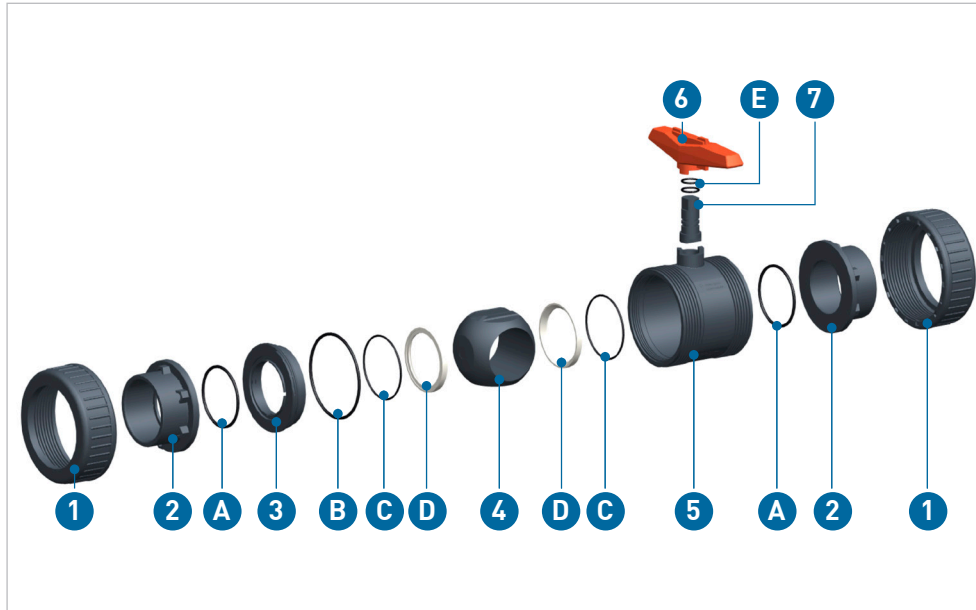
Maintenance notes

Ball valves require no maintenance under normal operating conditions (clear water). However, the following measures must be considered:

- Regularly check that no medium escapes to the outside.
- We recommend a function test for ball Type valves that are kept permanently in the same position 1 – 2 times per year to check functionality.

⚠ Installation and maintenance must be performed according to the corresponding installation instructions. The installation manual is included with the product, see also the online product catalogue at www.gfps.com

Technical data



- 1 Coupling nut
- 2 Connecting part
- 3 Union bush
- 4 Ball
- 5 Valve body
- 6 Hand lever
- 7 Stem
- A Face seal
- B Body seal
- C Backing seal
- D Ball seat
- E Stem seal

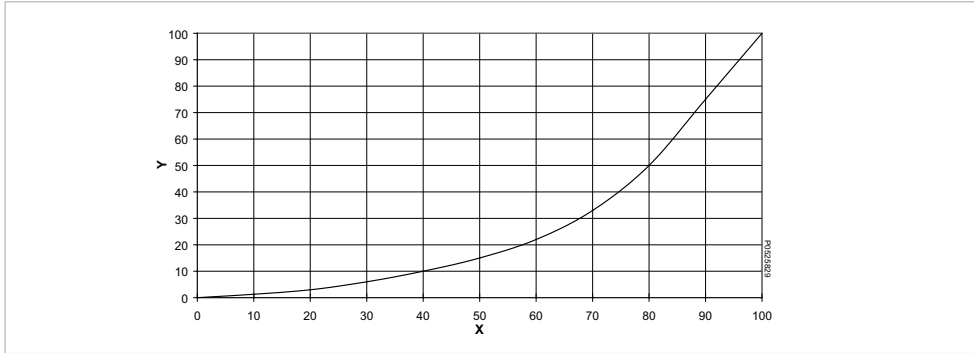
| Specification | | |
|--------------------|----------------------------------|--------------------|
| Dimensions | d16/DN10 – d110/DN100, 3/8" – 4" | |
| Materials | Valve body | PVC-U, PVC-C |
| | Lever | PVC-U |
| Gasket materials | O-rings | EPDM, FKM |
| | Ball seat | PTFE |
| Pressure levels | DN10 – 50 | PN16 |
| | DN65 – 100 | PN10 |
| Actuation variants | Manually operated | |
| Connections | Solvent cement sockets | ISO, BS, ASTM/ANSI |
| | Threaded sockets | NPT, Rp |
| | Butt fusion spigots, long | PE100 SDR11 ISO |
| Approvals | ACS, NSF 61, WRAS | |

Kv 100 values

| DN (mm) | inch (inch) | d (mm) | Kv 100 (l/min) | Cv 100 (US Gal./min) | Kv 100 (m ³ /h) |
|---------|-------------|--------|----------------|----------------------|----------------------------|
| 10 | 3/8 | 16 | 70 | 4.9 | 4 |
| 15 | 1/2 | 20 | 185 | 12.9 | 11 |
| 20 | 3/4 | 25 | 350 | 24.5 | 21 |
| 25 | 1 | 32 | 700 | 49.0 | 42 |
| 32 | 1 1/4 | 40 | 1'000 | 70.0 | 60 |
| 40 | 1 1/2 | 50 | 1'600 | 112.0 | 96 |
| 50 | 2 | 63 | 3'100 | 217.1 | 186 |
| 65 | 2 1/2 | 75 | 5'000 | 350.0 | 300 |
| 80 | 3 | 90 | 7'000 | 490.0 | 420 |
| 100 | 4 | 110 | 11'000 | 770.0 | 660 |

The kv values for each intermediate valve position can be determined by using the flow value characteristics and the kv 100 values.

Flow characteristics



X Opening angle (%)
Y Kv, Cv value (%)

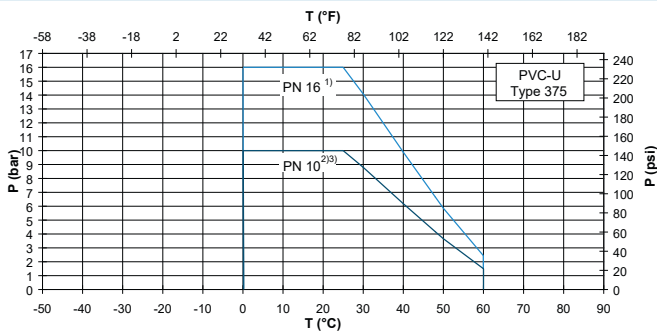
Pressure-temperature diagrams

The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

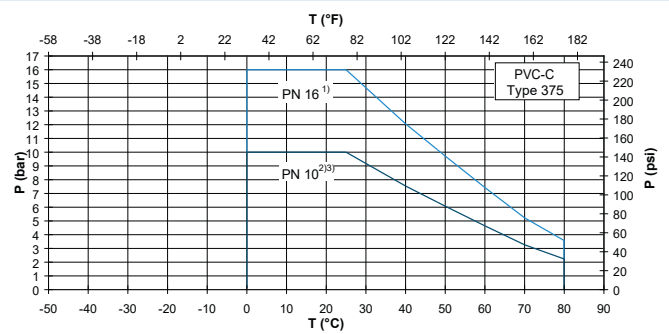
T Temperature (°C, °F)

P Permissible pressure (bar, psi)

PVC-U



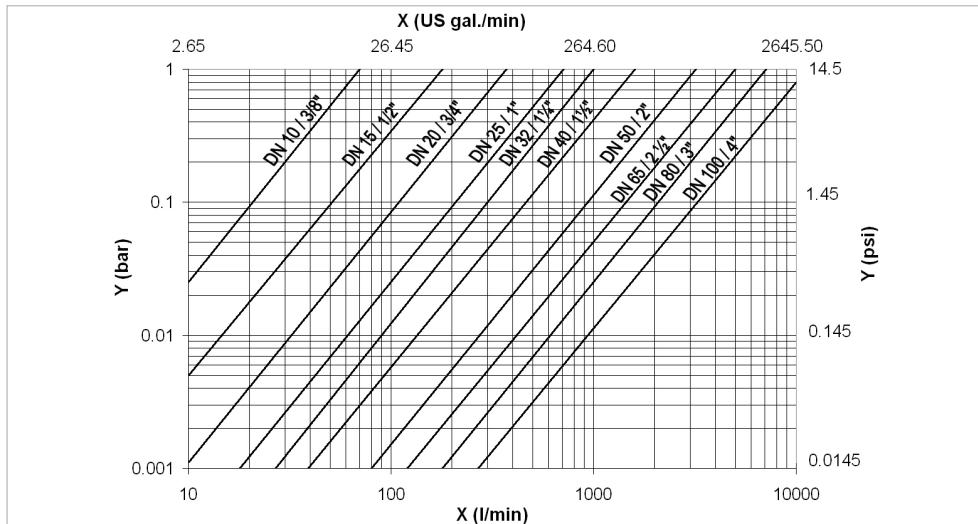
PVC-C



- 1) For the nominal diameters DN10 - DN50 the central part of the ball valve is designed for the nominal pressure PN16
- 2) For nominal diameters DN10 - DN50, the nominal pressure is reduced to PN10 depending on the connection

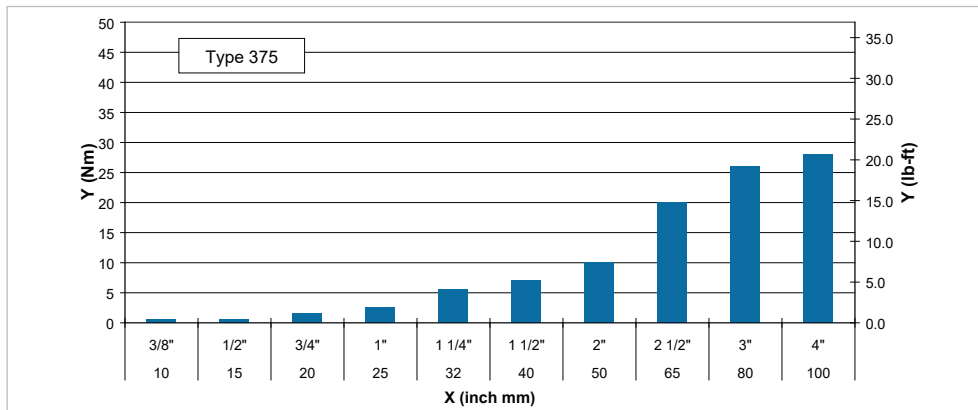
- 3) For the nominal diameters DN65 - DN100 the central part of the ball valve is designed for nominal pressure PN10

Pressure losses



- X Flow rate (l/min, US gal/min)
- Y Pressure loss Δp (bar, psi)

Operating torque

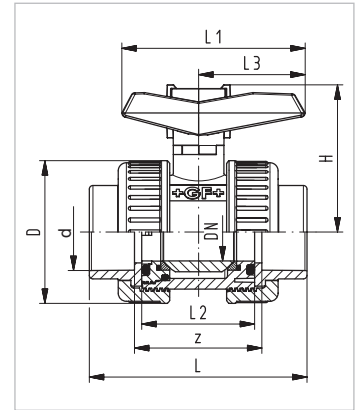


- X Nominal diameter DN (mm, inch)
- Y Tightening torque (Nm, lb-ft)

Dimensions

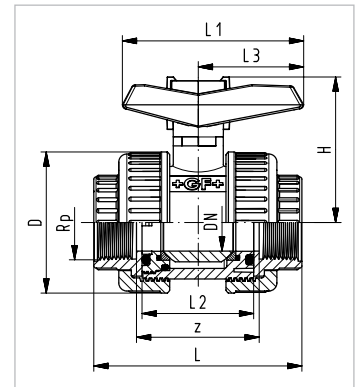
With solvent cement sockets, metric

| d (mm) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|--------|---------|--------|--------|--------|---------|---------|---------|--------|
| 16 | 10 | 50 | 55 | 76 | 67 | 42 | 40 | 48 |
| 20 | 15 | 50 | 55 | 80 | 67 | 42 | 40 | 48 |
| 25 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 32 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 40 | 32 | 80 | 81 | 120 | 102 | 62 | 59 | 68 |
| 50 | 40 | 94 | 91 | 140 | 119 | 72 | 70 | 78 |
| 63 | 50 | 115 | 113 | 169 | 146 | 86 | 84 | 93 |
| 75 | 65 | 145 | 129 | 206 | 179 | 110 | 103 | 118 |
| 90 | 80 | 168 | 146 | 242 | 209 | 128 | 120 | 140 |
| 110 | 100 | 210 | 179 | 282 | 250 | 150 | 141 | 160 |



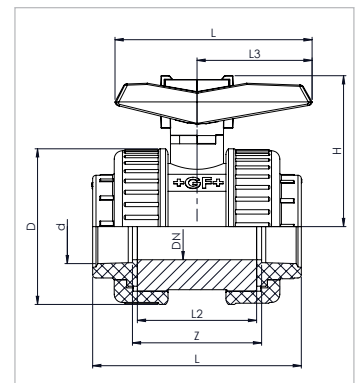
With threaded sockets, Rp

| Rp (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|-----------|---------|--------|--------|--------|---------|---------|---------|--------|
| 3/8 | 15 | 50 | 55 | 76 | 67 | 42 | 40 | 48 |
| 1/2 | 15 | 50 | 55 | 80 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 116 | 102 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 126 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 149 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 184 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 212 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 244 | 250 | 150 | 141 | 160 |



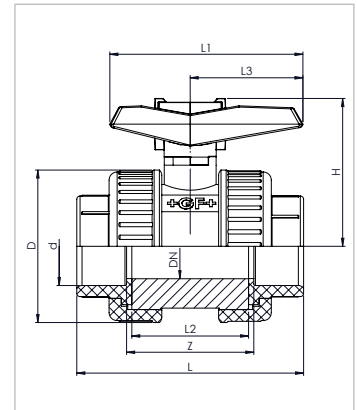
With threaded sockets, NPT

| NPT (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|------------|---------|--------|--------|--------|---------|---------|---------|--------|
| 1/2 | 15 | 50 | 55 | 88 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 116 | 105 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 126 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 149 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 184 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 212 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 244 | 250 | 150 | 141 | 160 |



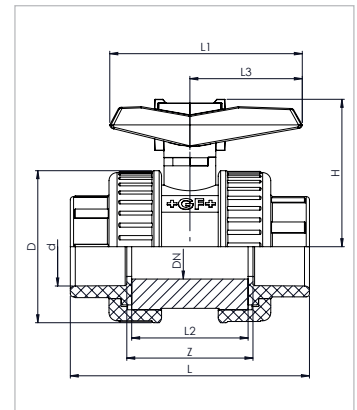
With solvent cement sockets, BS

| d (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|-------------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| 1/2 | 15 | 50 | 55 | 80 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 91 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 102 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 120 | 105 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 140 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 169 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 206 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 242 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 282 | 250 | 150 | 141 | 160 |



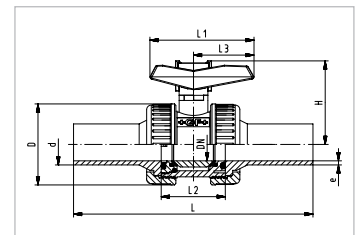
With solvent cement sockets, ASTM

| d (inch) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | z (mm) |
|-------------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| 1/2 | 15 | 50 | 55 | 92 | 67 | 42 | 40 | 48 |
| 3/4 | 20 | 59 | 61 | 104 | 77 | 48 | 45 | 53 |
| 1 | 25 | 68 | 69 | 116 | 87 | 54 | 51 | 58 |
| 1 1/4 | 32 | 80 | 81 | 130 | 102 | 62 | 59 | 68 |
| 1 1/2 | 40 | 94 | 91 | 140 | 119 | 72 | 70 | 78 |
| 2 | 50 | 115 | 113 | 169 | 146 | 86 | 84 | 93 |
| 2 1/2 | 65 | 145 | 129 | 206 | 179 | 110 | 103 | 118 |
| 3 | 80 | 168 | 146 | 242 | 209 | 128 | 120 | 140 |
| 4 | 100 | 210 | 179 | 282 | 250 | 150 | 141 | 160 |



With butt fusion spigot, long

| d (mm) | DN (mm) | D (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | e (mm) |
|-----------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| 20 | 15 | 95 | 55 | 175 | 67 | 42 | 40 | 1.8 |
| 25 | 20 | 105 | 61 | 195 | 77 | 48 | 45 | 2.3 |
| 32 | 25 | 115 | 69 | 247 | 87 | 54 | 51 | 2.9 |
| 40 | 32 | 140 | 81 | 233 | 102 | 62 | 59 | 3.6 |
| 50 | 40 | 150 | 91 | 265 | 119 | 72 | 70 | 4.5 |
| 63 | 50 | 165 | 113 | 278 | 146 | 86 | 84 | 5.7 |
| 75 | 65 | 185 | 129 | 348 | 179 | 110 | 103 | 6.8 |
| 90 | 80 | 200 | 146 | 350 | 209 | 128 | 120 | 8.2 |
| 110 | 100 | 220 | 179 | 412 | 250 | 150 | 141 | 10 |



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