

# 900 Series Pi Marked Ball Valves

## Applications

High Flow TPED Pi marked ball valves for trailer use.

Suitable for Hydrogen, CNG, Biogas, Helium, Nitrogen and other gases on enquiry.



BV908-6S6TCDW-6000

## Materials

| Item | Part       | Material                                  |
|------|------------|-------------------------------------------|
| 1    | Body & Cap | 316 Stainless Steel                       |
| 2    | Ball       | 316 Stainless Steel                       |
| 3    | Stem       | XM19 Stainless Steel (BV902/903/904 only) |
|      |            | 316 Stainless Steel (BV906/908 only)      |
| 4    | Seats      | B16 PEEK                                  |

| Item | Part                      | Material            |
|------|---------------------------|---------------------|
| 5    | Thrust washer             | Delrin              |
| 6    | Gland                     | Delrin              |
| 7    | O-rings                   | Viton               |
| 8    | Backup rings              | Nitrile             |
| 9    | Handle                    | 304 Stainless Steel |
| 10   | Lockout plate & Carabiner | 304 Stainless Steel |

## Product Information

Type tested to ISO23826.

Complies with TPED 2010/35/EU

Pi Marked.

All products are manufactured to ISO 9001 standards.

NPT threads conform to ASME B1.20.1.

BSP threads conform to ISO 228.

SAE threads conform to SAE J1926.

Other connections available on request.

## Features & Benefits

Range of end connections from 1/4" to 1" nominal.

Easy to service, kits readily available.

Quarter turn handle.

Suitable for 385 bar working pressure trailers.

Anti blow-out stem.

Manufactured from certified bar stock.

Lockout system to prevent accidental operation of valve.

Actuated options available.

Ground storage (non-Pi Marked) version available.

# 900 Series Pi Marked Ball Valves

## NPT Product Specification

| Part Code          | Size | Mass<br>lb (kg) | Lowest<br>Operating<br>Pressure<br>bar (psi) * | Working<br>Pressure<br>(WP)<br>bar (psi) ** | Test Pressure<br>(PT)<br>bar (psi) *** | Min.<br>Temp.<br>°F (°C) | Max<br>Temp.<br>°F (°C) | Cycles<br>Before<br>Rekit <sup>^</sup> | Stem Open<br>Torque<br>ft-lb (Nm) <sup>^^</sup> | Cv   | Service Kit |
|--------------------|------|-----------------|------------------------------------------------|---------------------------------------------|----------------------------------------|--------------------------|-------------------------|----------------------------------------|-------------------------------------------------|------|-------------|
| BV902-6N4TCDW-6000 | 1/4" | 1.5 (0.7)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 14.7 (20)                                       | 2.8  | BV900-SK1   |
| BV904-6N4TCDW-6000 | 1/2" | 1.5 (0.7)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 14.7 (20)                                       | 13.1 | BV900-SK1   |
| BV908-6N6TCDW-6000 | 1"   | 4.9 (2.2)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 33.2 (45)                                       | 30.1 | BV900-SK2   |

## SAE Product Specification

| Part Code          | Size (DN)<br>Inch (mm) | Mass<br>lb (kg) | Lowest<br>Operating<br>Pressure<br>bar (psi) * | Working<br>Pressure<br>(WP)<br>bar (psi) ** | Test Pressure<br>(PT)<br>bar (psi) *** | Min.<br>Temp.<br>°F (°C) | Max<br>Temp.<br>°F (°C) | Cycles<br>Before<br>Rekit <sup>^</sup> | Stem Open<br>Torque<br>ft-lb (Nm) <sup>^^</sup> | Cv   | Service Kit  |
|--------------------|------------------------|-----------------|------------------------------------------------|---------------------------------------------|----------------------------------------|--------------------------|-------------------------|----------------------------------------|-------------------------------------------------|------|--------------|
| BV904-6S4TCDW-6000 | 1/2"                   | 1.5 (0.7)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 14.7 (20)                                       | 13.1 | BV900-SK1-S4 |
| BV908-6S6TCDW-6000 | 1"                     | 4.9 (2.2)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 33.2 (45)                                       | 30.1 | BV900-SK2-S8 |

## BSPP Product Specification

| Part Code          | Size (DN)<br>Inch (mm) | Mass<br>lb (kg) | Lowest<br>Operating<br>Pressure<br>bar (psi) * | Working<br>Pressure<br>(WP)<br>bar (psi) ** | Test Pressure<br>(PT)<br>bar (psi) *** | Min.<br>Temp.<br>°F (°C) | Max<br>Temp.<br>°F (°C) | Cycles<br>Before<br>Rekit <sup>^</sup> | Stem Open<br>Torque<br>ft-lb (Nm) <sup>^^</sup> | Cv   | Service Kit |
|--------------------|------------------------|-----------------|------------------------------------------------|---------------------------------------------|----------------------------------------|--------------------------|-------------------------|----------------------------------------|-------------------------------------------------|------|-------------|
| BV902-6B4TCDW-6000 | 1/4"                   | 1.5 (0.7)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 14.7 (20)                                       | 2.8  | BV900-SK1   |
| BV904-6B4TCDW-6000 | 1/2"                   | 1.5 (0.7)       | 6.9 (100)                                      | 385 (5584)                                  | 462 (6700)                             | -40 (-40)                | 149 (65)                | 2000                                   | 14.7 (20)                                       | 13.1 | BV900-SK1   |

\* Lowest settled gas pressure for which the ball valve is designed. This is the minimum pressure that the product will hold constant bubble tight seal.

\*\* Settled pressure of a compressed gas at a uniform reference temperature of 15°C in a full pressure receptacle for which the valve is intended.

\*\*\* Minimum pressure applied to the valve during testing

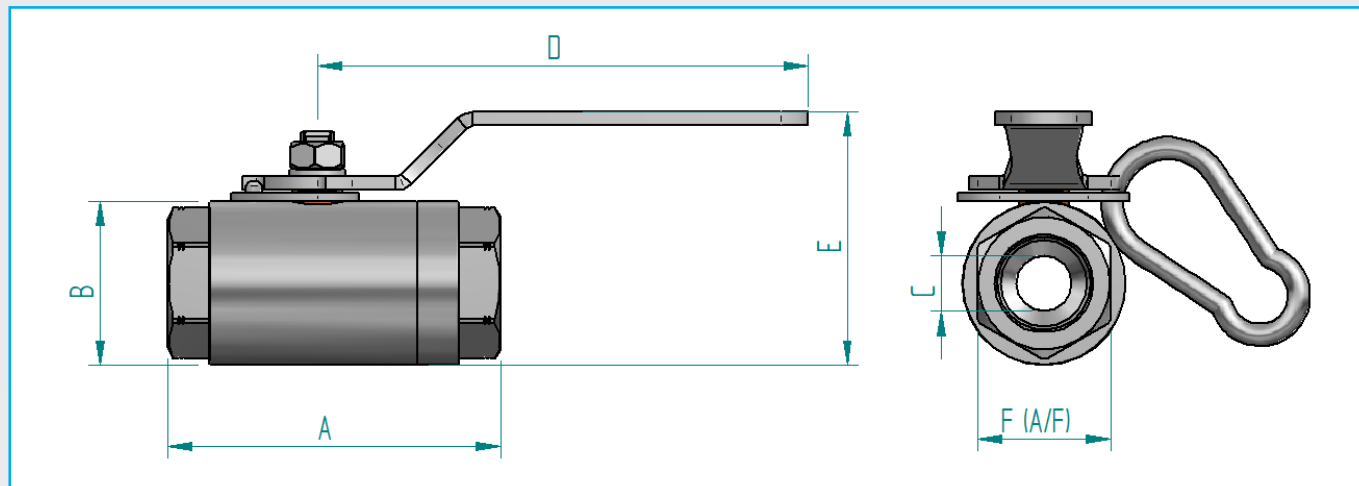
<sup>^</sup> The temperature's and cycles stated depend on the system conditions and may not be achievable in all situations.

Contact Oasis for further information.

<sup>^^</sup> Maximum opening torque at maximum operating pressure.

# 900 Series Pi Marked Ball Valves

## Product Dimensions



## NPT Product Dimensions - Inch(mm)

| Part Code          | Size | A         | B        | Ø C        | D         | E        | Port Thread     | F (A/F)    |
|--------------------|------|-----------|----------|------------|-----------|----------|-----------------|------------|
| BV902-6N4TCDW-6000 | 1/4" | 3 (75.5)  | 1.6 (40) | .44 (11.2) | 5.7 (144) | 2.7 (69) | 1/4" NPT FEMALE | 1.3 (33.4) |
| BV904-6N4TCDW-6000 | 1/2" | 3 (75.5)  | 1.6 (40) | .5 (13)    | 5.7 (144) | 2.7 (69) | 1/2" NPT FEMALE | 1.3 (33.4) |
| BV908-6N4TCDW-6000 | 1"   | 4.7 (120) | 2.2 (59) | .78 (20)   | 6.9 (177) | 3.6 (91) | 1" NPT FEMALE   | 1.9 (48)   |

## SAE Product Dimensions - Inch(mm)

| Part Code          | Size (DN)<br>Inch (mm) | A         | B        | Ø C      | D         | E        | Port Thread          | F (A/F)    |
|--------------------|------------------------|-----------|----------|----------|-----------|----------|----------------------|------------|
| BV904-6S4TCDW-6000 | 1/2"                   | 3 (75.5)  | 1.6 (40) | .5 (13)  | 5.7 (144) | 2.7 (69) | 3/4-16 SAE FEMALE    | 1.3 (33.4) |
| BV908-6S4TCDW-6000 | 1"                     | 4.7 (120) | 2.2 (59) | .78 (20) | 6.9 (177) | 3.6 (91) | 1 5/16-12 SAE FEMALE | 1.9 (48)   |

## BSPP Product Dimensions - Inch(mm)

| Part Code          | Size (DN)<br>Inch (mm) | A        | B        | Ø C        | D         | E        | Port Thread | F (A/F)    |
|--------------------|------------------------|----------|----------|------------|-----------|----------|-------------|------------|
| BV902-6B4TCDW-6000 | 1/4"                   | 3 (75.5) | 1.6 (40) | .44 (11.8) | 5.7 (144) | 2.7 (69) | G1/4 FEMALE | 1.3 (33.4) |
| BV904-6B4TCDW-6000 | 1/2"                   | 3 (75.5) | 1.6 (40) | .5 (13)    | 5.7 (144) | 2.7 (69) | G1/2 FEMALE | 1.3 (33.4) |

Other sizes and fittings available on request, contact Oasis for further information.