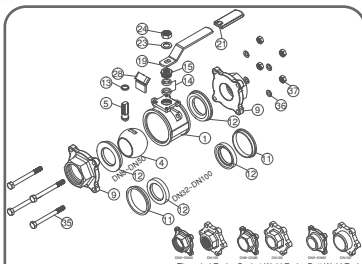
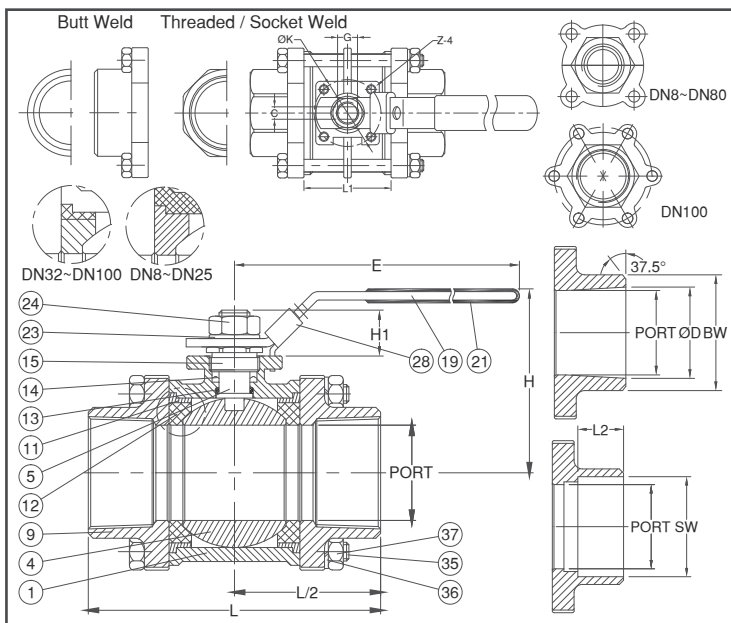


PN63/40 P-T Chart



Explosion Drawing



### FEATURES

- Investment Cast Body Construction
- ISO 5211 Mounting Flange Design
- 3 Pieces Body Design / In-Line Maintenance
- Integral Seat & Body Seal Design for DN8 ~ DN25
- Blow-Out-Proof Stem Design
- Locking Device
- NACE MR0175 is available upon request
- Super Alloy materials for highly corrosive medium are available upon request

AUTOMATION  
AVAILABLE

### SPECIFICATIONS

- Size Range DN8 ~ DN100 ( 1/4" ~ 4" )
- End Connection Threaded / Socket / Butt Weld Ends
- Working Pressure
  - PN63 for DN8 ~ DN50 / 1000PSI ( CWP ) for 1/4" ~ 2"
  - PN40 for DN65 ~ DN100 / 800PSI ( CWP ) for 2-1/2" ~ 4"
- Steam Pressure 150 PSIG. Saturated Steam for PTFE.
- Temperature Range -4 to 356 °F ( -20 to 180 °C ) for PTFE.

### STANDARDS

- Design EN-12516-1/2/3
- Mounting Flange ISO 5211
- Threaded End NPT/ BS 21 ( BSP ) / BSPT / ISO 228-1 / DIN 2999 / ISO 7-1Rp
- Socket Weld End ASME/ANSI B16.11
- Butt Weld End ASME/ANSI B16.25
- Face to Face MFG / DIN 3202 M3/S13 **OPTION**
- Material EN1503-1
- Pressure Testing EN 12266

### CERTIFICATE

- Quality Assurance ISO 9001
- Material Certificate EN 10204-3.1 MTR
- CE Approval PED 97/23/EC Module H

### MATERIAL LIST

| NO. | PART NAME      | MATERIAL<br>( more options available ) |
|-----|----------------|----------------------------------------|
| 1   | BODY           | EN1503-1 1.4408<br>EN1503-1 1.0619     |
| 4   | BALL           | ASTM A351 Gr.CF8M                      |
| 5   | STEM           | ASTM A276 Gr.316                       |
| 9   | END CAP        | EN1503-1 1.4408<br>EN1503-1 1.0619     |
| 11  | BODY SEAL      | PTFE.                                  |
| 12  | SEAT           | RTFE. (15%G.F.)                        |
| 13  | THRUST WASHER  | PTFE.                                  |
| 14  | STEM PACKING   | PTFE.                                  |
| 15  | GLAND          | SS304                                  |
| 19  | HANDLE         | SS304                                  |
| 21  | HANDLE COVER   | PLASTIC                                |
| 23  | HANDLE WASHER  | SS304                                  |
| 24  | HANDLE NUT     | SS304                                  |
| 28  | LOCKING DEVICE | SS304                                  |
| 35  | BODY BOLT      | SS304                                  |
| 36  | BOLT WASHER    | SS304                                  |
| 37  | BOLT NUT       | SS304                                  |

### DIMENSION

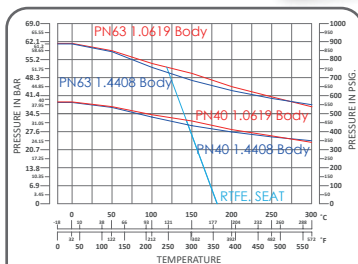
unit : mm

| SIZE |        | PORT  |      | L     | L1   | E   | H   | H1 | ØK | Z   | C       | G    | L2   | SW | ØD   | BW   |      |
|------|--------|-------|------|-------|------|-----|-----|----|----|-----|---------|------|------|----|------|------|------|
|      |        | TH/SW | BW   |       |      |     |     |    |    |     |         |      |      |    |      |      |      |
| DN8  | 1/4"   | 11.0  | 11.0 | 63.7  | 21.0 | 102 | 54  | 13 | 36 | F03 | M5x0.8P | 5.45 | 7.9  | 10 | 14.2 | 11.0 | 13.7 |
| DN10 | 3/8"   | 12.5  | 12.5 | 63.7  | 21.0 | 102 | 54  | 13 | 36 | F03 | M5x0.8P | 5.45 | 7.9  | 10 | 17.5 | 12.5 | 17.1 |
| DN15 | 1/2"   | 15.0  | 15.0 | 65.7  | 22.5 | 102 | 55  | 13 | 36 | F03 | M5x0.8P | 5.45 | 7.9  | 10 | 21.8 | 15.8 | 21.3 |
| DN20 | 3/4"   | 20.0  | 20.0 | 76.2  | 31.0 | 126 | 62  | 17 | 36 | F03 | M5x0.8P | 6.20 | 11.1 | 13 | 27.4 | 20.9 | 26.7 |
| DN25 | 1"     | 25.4  | 25.4 | 86.2  | 40.0 | 126 | 66  | 19 | 36 | F03 | M5x0.8P | 6.20 | 11.1 | 13 | 34.1 | 26.6 | 33.4 |
| DN32 | 1-1/4" | 32.0  | 32.0 | 102.8 | 50.0 | 154 | 90  | 27 | 50 | F05 | M6x1.0P | 9.40 | 15.8 | 13 | 42.7 | 35.1 | 42.2 |
| DN40 | 1-1/2" | 40.0  | 40.0 | 119.4 | 58.0 | 154 | 93  | 26 | 50 | F05 | M6x1.0P | 9.40 | 15.8 | 13 | 49.0 | 41.7 | 48.3 |
| DN50 | 2"     | 50.8  | 50.8 | 131.4 | 70.0 | 188 | 102 | 24 | 50 | F05 | M6x1.0P | 9.40 | 15.8 | 16 | 61.0 | 53.0 | 60.3 |

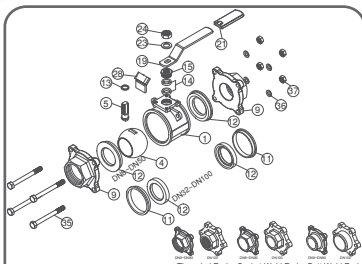
### DIMENSION

unit : inch

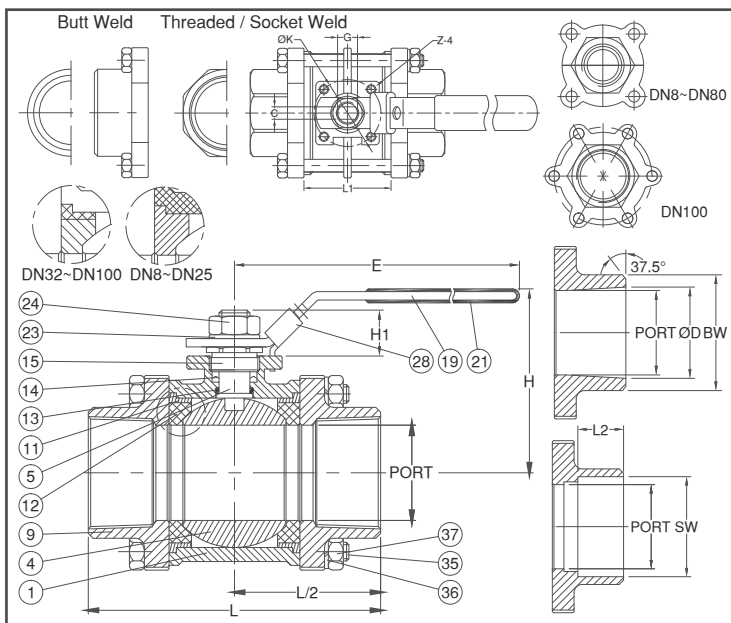
| SIZE |        | PORT  |      | L    | L1   | E    | H    | H1   | ØK   | Z   | C       | G    | L2   | SW   | ØD   | BW   |      |
|------|--------|-------|------|------|------|------|------|------|------|-----|---------|------|------|------|------|------|------|
|      |        | TH/SW | BW   |      |      |      |      |      |      |     |         |      |      |      |      |      |      |
| DN8  | 1/4"   | 0.43  | 0.43 | 2.50 | 0.82 | 4.01 | 2.12 | 0.51 | 1.41 | F03 | M5x0.8P | 0.21 | 0.31 | 0.39 | 0.55 | 0.43 | 0.53 |
| DN10 | 3/8"   | 0.49  | 0.49 | 2.50 | 0.82 | 4.01 | 2.12 | 0.51 | 1.41 | F03 | M5x0.8P | 0.21 | 0.31 | 0.39 | 0.68 | 0.49 | 0.67 |
| DN15 | 1/2"   | 0.59  | 0.59 | 2.58 | 0.88 | 4.01 | 2.16 | 0.51 | 1.41 | F03 | M5x0.8P | 0.21 | 0.31 | 0.39 | 0.85 | 0.62 | 0.83 |
| DN20 | 3/4"   | 0.78  | 0.78 | 3.00 | 1.22 | 4.96 | 2.44 | 0.66 | 1.41 | F03 | M5x0.8P | 0.24 | 0.43 | 0.51 | 1.07 | 0.82 | 1.05 |
| DN25 | 1"     | 1.00  | 1.00 | 3.39 | 1.57 | 4.96 | 2.59 | 0.74 | 1.41 | F03 | M5x0.8P | 0.24 | 0.43 | 0.51 | 1.34 | 1.04 | 1.31 |
| DN32 | 1-1/4" | 1.25  | 1.25 | 4.04 | 1.96 | 6.06 | 3.54 | 1.06 | 1.96 | F05 | M6x1.0P | 0.37 | 0.62 | 0.51 | 1.68 | 1.38 | 1.66 |
| DN40 | 1-1/2" | 1.57  | 1.57 | 4.70 | 2.28 | 6.06 | 3.66 | 1.02 | 1.96 | F05 | M6x1.0P | 0.37 | 0.62 | 0.51 | 1.92 | 1.64 | 1.90 |
| DN50 | 2"     | 2.00  | 2.00 | 5.17 | 2.75 | 7.40 | 4.01 | 0.94 | 1.96 | F05 | M6x1.0P | 0.37 | 0.62 | 0.62 | 2.40 | 2.08 | 2.37 |



PN63/40 P-T Chart



Explosion Drawing



### FEATURES

- Investment Cast Body Construction
- ISO 5211 Mounting Flange Design
- 3 Pieces Body Design / In-Line Maintenance
- Integral Seat & Body Seal Design for DN8 ~ DN25
- Blow-Out-Proof Stem Design
- Locking Device
- NACE MR0175 is available upon request
- Super Alloy materials for highly corrosive medium are available upon request

AUTOMATION  
AVAILABLE

### SPECIFICATIONS

- Size Range DN8 ~ DN100 ( 1/4" ~ 4" )
- End Connection Threaded / Socket / Butt Weld Ends
- Working Pressure
  - PN63 for DN8 ~ DN50 / 1000PSI ( CWP ) for 1/4" ~ 2"
  - PN40 for DN65 ~ DN100 / 800PSI ( CWP ) for 2-1/2" ~ 4"
- Steam Pressure 150 PSIG. Saturated Steam for PTFE.
- Temperature Range -4 to 356 °F ( -20 to 180 °C ) for PTFE.

### STANDARDS

- Design EN-12516-1/2/3
- Mounting Flange ISO 5211
- Threaded End NPT/ BS 21 ( BSP ) / BSPT / ISO 228-1 / DIN 2999 / ISO 7-1Rp
- Socket Weld End ASME/ANSI B16.11
- Butt Weld End ASME/ANSI B16.25
- Face to Face MFG / DIN 3202 M3/S13 **OPTION**
- Material EN1503-1
- Pressure Testing EN 12266

### CERTIFICATE

- Quality Assurance ISO 9001
- Material Certificate EN 10204-3.1 MTR
- CE Approval PED 97/23/EC Module H

### MATERIAL LIST

| NO. | PART NAME      | MATERIAL<br>( more options available ) |
|-----|----------------|----------------------------------------|
| 1   | BODY           | EN1503-1 1.4408<br>EN1503-1 1.0619     |
| 4   | BALL           | ASTM A351 Gr.CF8M                      |
| 5   | STEM           | ASTM A276 Gr.316                       |
| 9   | END CAP        | EN1503-1 1.4408<br>EN1503-1 1.0619     |
| 11  | BODY SEAL      | PTFE.                                  |
| 12  | SEAT           | RTFE. (15%G.F.)                        |
| 13  | THRUST WASHER  | PTFE.                                  |
| 14  | STEM PACKING   | PTFE.                                  |
| 15  | GLAND          | SS304                                  |
| 19  | HANDLE         | SS304                                  |
| 21  | HANDLE COVER   | PLASTIC                                |
| 23  | HANDLE WASHER  | SS304                                  |
| 24  | HANDLE NUT     | SS304                                  |
| 28  | LOCKING DEVICE | SS304                                  |
| 35  | BODY BOLT      | SS304                                  |
| 36  | BOLT WASHER    | SS304                                  |
| 37  | BOLT NUT       | SS304                                  |

### DIMENSION

unit : mm

| SIZE  |        | PORT  |     | L     | L1    | E   | H   | H1 | ØK  |     | Z        |    | C  | G  | L2    | SW    | ØD    | BW |
|-------|--------|-------|-----|-------|-------|-----|-----|----|-----|-----|----------|----|----|----|-------|-------|-------|----|
|       |        | TH/SW | BW  |       |       |     |     |    |     |     |          |    |    |    |       |       |       |    |
| DN65  | 2-1/2" | 65    | 63  | 164.0 | 85.0  | 265 | 121 | 39 | 70  | F07 | M8x1.25P | 12 | 19 | 16 | 77.0  | 63.0  | 73.0  |    |
| DN80  | 3"     | 80    | 76  | 182.7 | 101.5 | 265 | 134 | 37 | 102 | F10 | M10x1.5P | 12 | 19 | 16 | 90.2  | 77.5  | 88.9  |    |
| DN100 | 4"     | 100   | 100 | 236.2 | 122.0 | 272 | 175 | 50 | 102 | F10 | M10x1.5P | 16 | 25 | 22 | 115.3 | 102.3 | 114.3 |    |

### DIMENSION

unit : inch

| SIZE  |        | PORT  |      | L    | L1   | E     | H    | H1   | ØK   |     | Z        | C    | G    | L2   | SW   | ØD   | BW   |
|-------|--------|-------|------|------|------|-------|------|------|------|-----|----------|------|------|------|------|------|------|
|       |        | TH/SW | BW   |      |      |       |      |      |      |     |          |      |      |      |      |      |      |
| DN65  | 2-1/2" | 2.55  | 2.48 | 6.45 | 3.34 | 10.43 | 4.76 | 1.53 | 2.75 | F07 | M8x1.25P | 0.47 | 0.74 | 0.62 | 3.03 | 2.48 | 2.87 |
| DN80  | 3"     | 3.14  | 2.99 | 7.19 | 3.99 | 10.43 | 5.27 | 1.45 | 4.01 | F10 | M10x1.5P | 0.47 | 0.74 | 0.62 | 3.55 | 3.05 | 3.50 |
| DN100 | 4"     | 3.93  | 3.93 | 9.29 | 4.80 | 10.70 | 6.88 | 1.96 | 4.01 | F10 | M10x1.5P | 0.62 | 0.98 | 0.86 | 4.53 | 4.02 | 4.50 |