

HEAD OFFICE

4F A-Sung Bldg, 544 Gyeongin-Ro, Guro-Gu, Seoul 152-863
Tel : 82-2-2671-1900-5 Fax : 82-2-2671-5687

BUSAN BEANCH

B-202 Seo-Myeonjeonpo shopping arcade, 33 Jeonpo-Daero,
255 Beon-gil, Busanjin-Gu, Busan 614-865
Tel : 82-51-818-7781-4 Fax : 82-51-804-4060

FACTORY

280, Haean-Ro, Danwon-Gu, Ansan-Si, Gyeonggi-Do 425-852
Tel : 82-31-494-8193-4 Fax : 82-31-492-6650

28-110, Bugokgongdan 4-Gil, Dangjin-Si, Chungcheongnam-Do 343-827
Tel : 82-41-357-8192-5 Fax : 82-41-357-8676

CHINA

A-2115 Oriental International Plaza, 85 LouShanGuan Rd,
Changning District, Shanghai, China, 200336
Office : 86-21-62782288 #215 Fax : 86-21-6278-3723

HONGKONG

Rm401-403, 4/F, Honour Industrial Centre, 6 Sun Yip St.,
Chai Wan, Hong Kong

Homepage : www.asungvalve.com

E-mail : asung@asungvalve.com



Công ty cổ phần TC Toàn Cầu Việt Nam

VN GLOBAL TC., JSC

Piping Solution

Ha Noi 5 Floor HUD3 tower, 121-123 To Hieu, Ha Dong

Tel/Fax +84 24 3201 1590 | Hotline +84 90 222 1290

www.tctoancau.com | contact@tctoancau.com

Nhà phân phối ủy quyền sản phẩm ASUNG

ASUNG Authorized distributor



ASUNG
Thermo Plastic Valves

MARCH 2015
Vol. 001

Since
1967



Since 1967

ASUNG of World

▪ **South Korea**

Seoul : HEAD OFFICE
 Busan : BRANCH
 Ansan : FACTORY
 Dangjin : FACTORY

▪ **China**

Shanghai
 Hong Kong

▪ **North / Central / South America**

Brazil
 Canada
 Chile USA

▪ **Asia**

Azerbaijan, China, Indonesia, Japan,
 Kuwait, Malaysia, Myanmar, Philippines,
 Singapore, Taiwan, Thailand, Vietnam

▪ **Europe**

Bulgaria

▪ **Africa**

Nigeria



Contents

MARCH 2015 / Vol. 001



Thermo Plastic Valves

| | | | |
|-----|--|-----|---|
| 006 | Ball Valves Ball Valves True Union Ball Valves 3-Way Union Ball Valves Lab Cock Valves Compact Ball Valves | 048 | Check & Foot Valves Check Valves Swing Check Valves Foot Valves |
| 028 | Diaphragm Valves Diaphragm Valves New Diaphragm Valves True Union Diaphragm Valves | 068 | Gate & Stop Valves Sluice Gate Valves Stop (Globe) Valves |
| 042 | Butterfly Valves Butterfly Valves | 076 | Others Gauge Valves Sight Glass T-Strainer |



Ball Valves

Thermo Plastic Valves



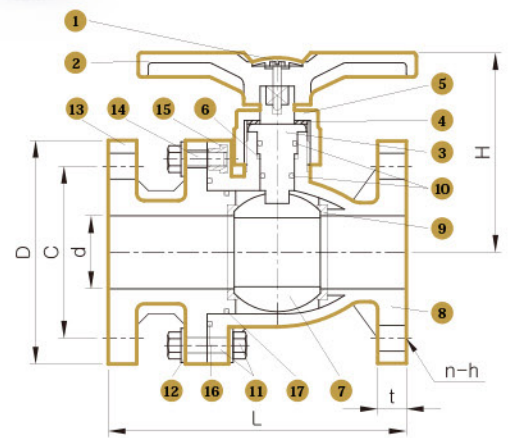
Ball Valves

Flange Type

- Material : PVC, C-PVC, PP, PVDF
- Size : 15mm - 150mm, ½" - 6"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- Seals (Seat) : PTFE
- O-Ring : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- Full Bore Type
- Excellent Durability and Simple Operation
- Bidirectional Flow Control Available
- Double O-RING mount on Stem Secures Air Tightness
- Built-in PTFE Seal
- Actuator Installation Capable after Bracket Mount



| NO | PARTS | MATERIALS |
|----|--------------------|----------------------------|
| 1 | HANDLE CAP BOLT | SS41 (ABS COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | STEM WASHER | PP |
| 5 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 6 | STEM RING | PE PTFE |
| 7 | BALL | PP/PVDF/PVC/CPVC |
| 8 | BODY | PP/PVDF/PVC/CPVC |
| 9 | NIP SEAL | PTFE |
| 10 | STEM O-RING | EPDM FPM |
| 11 | BOLT & NUT | SS41 (PP COATED) |
| 12 | WASHER | SUS 304 |
| 13 | FLANGE | PP/PVDF/PVC/CPVC |
| 14 | STUD BOLT | SS41 (PLATING : Zn) N/A |
| 15 | INSERTED NUT | BC N/A |
| 16 | BODY O-RING | EPDM FPM |
| 17 | FLANGE SIDE O-RING | EPDM FPM |

PP&PVDF

JIS

unit : mm

| Parts Size | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) |
|---------------|-----|-----|----|---------|-----|------|-----|----------------------------------|
| | | | | D | C | n-h | | |
| 15 | 15 | 145 | 15 | 95 | 70 | 4-15 | 85 | 10 |
| 20 | 20 | 150 | 15 | 100 | 75 | 4-15 | 85 | 10 |
| 25 | 25 | 170 | 16 | 125 | 90 | 4-19 | 90 | 10 |
| 30 | 30 | 175 | 16 | 135 | 100 | 4-19 | 120 | 10 |
| 40 | 40 | 191 | 19 | 140 | 105 | 4-19 | 125 | 10 |
| 50 | 51 | 212 | 19 | 155 | 120 | 4-19 | 135 | 10 |
| 65 | 65 | 260 | 21 | 175 | 140 | 4-19 | 185 | 10 |
| 80 | 75 | 266 | 21 | 185 | 150 | 8-19 | 185 | 10 |
| 100 | 100 | 300 | 23 | 210 | 175 | 8-19 | 195 | 10 |
| 125 | 127 | 361 | 25 | 250 | 210 | 8-23 | 230 | 7.5 |
| 150 | 140 | 361 | 25 | 280 | 240 | 8-23 | 230 | 7.5 |

ANSI

unit : Inch

| Parts Size | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm²) |
|---------------|------|-------|------|----------------|------|--------|------|----------------------------------|
| | | | | D | C | n-h | | |
| 15 | 0.59 | 5.71 | 0.59 | 3.50 | 2.38 | 4-0.63 | 3.35 | 10 |
| 20 | 0.79 | 5.91 | 0.59 | 3.88 | 2.75 | 4-0.63 | 3.35 | 10 |
| 25 | 0.98 | 6.69 | 0.63 | 4.25 | 3.12 | 4-0.63 | 3.54 | 10 |
| 30 | 1.26 | 6.89 | 0.63 | 4.62 | 3.50 | 4-0.63 | 4.72 | 10 |
| 40 | 1.57 | 7.52 | 0.75 | 5.00 | 3.88 | 4-0.63 | 4.92 | 10 |
| 50 | 2.01 | 8.35 | 0.75 | 6.00 | 4.75 | 4-0.75 | 5.31 | 10 |
| 65 | 2.56 | 10.24 | 0.83 | 7.00 | 5.50 | 4-0.75 | 7.28 | 10 |
| 80 | 2.95 | 10.47 | 0.83 | 7.50 | 6.00 | 4-0.75 | 7.28 | 10 |
| 100 | 3.94 | 11.81 | 0.91 | 9.00 | 7.50 | 8-0.75 | 7.68 | 10 |
| 125 | 5.00 | 14.21 | 0.98 | 10.00 | 8.50 | 8-0.87 | 9.06 | 7.5 |
| 150 | 5.51 | 14.21 | 0.98 | 11.00 | 9.50 | 8-0.87 | 9.06 | 7.5 |

PVC&CPVC

| JIS | | unit : mm | | | | | | | |
|------|-------|-----------|-----|----|---------|-----|------|-----|-------------------------------|
| Size | Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | | |
| | 15 | 15 | 148 | 15 | 95 | 70 | 4-15 | 85 | 10 |
| | 20 | 20 | 153 | 15 | 100 | 75 | 4-15 | 85 | 10 |
| | 25 | 25 | 173 | 16 | 125 | 90 | 4-19 | 90 | 10 |
| | 30 | 30 | 180 | 17 | 135 | 100 | 4-19 | 120 | 10 |
| | 40 | 40 | 195 | 19 | 140 | 105 | 4-19 | 125 | 10 |
| | 50 | 51 | 215 | 19 | 155 | 120 | 4-19 | 135 | 10 |
| | 65 | 65 | 265 | 21 | 175 | 140 | 4-19 | 185 | 10 |
| | 80 | 75 | 271 | 21 | 185 | 150 | 8-19 | 185 | 10 |
| | 100 | 100 | 304 | 23 | 210 | 175 | 8-19 | 195 | 10 |
| | 125 | 127 | 369 | 27 | 250 | 210 | 8-23 | 230 | 7.5 |
| | 150 | 140 | 369 | 26 | 280 | 240 | 8-23 | 230 | 7.5 |

| ANSI | | | | unit : inch | | | | | |
|-------|-----|------|-------|-------------|----------------|------|--------|------|------------------------------|
| Parts | | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cw) |
| Size | | | | | D | C | n-h | | |
| | 15 | 0.59 | 5.83 | 0.59 | 3.50 | 2.38 | 4-0.63 | 3.35 | 10 |
| | 20 | 0.79 | 6.02 | 0.59 | 3.88 | 2.75 | 4-0.63 | 3.35 | 10 |
| | 25 | 0.98 | 6.85 | 0.67 | 4.25 | 3.12 | 4-0.63 | 3.54 | 10 |
| | 30 | 1.26 | 7.09 | 0.67 | 4.62 | 3.50 | 4-0.63 | 4.72 | 10 |
| | 40 | 1.57 | 7.68 | 0.75 | 5.00 | 3.88 | 4-0.63 | 4.92 | 10 |
| | 50 | 2.01 | 8.46 | 0.75 | 6.00 | 4.75 | 4-0.75 | 5.31 | 10 |
| | 65 | 2.56 | 10.43 | 0.83 | 7.00 | 5.50 | 4-0.75 | 7.28 | 10 |
| | 80 | 2.95 | 10.67 | 0.83 | 7.50 | 6.00 | 4-0.75 | 7.28 | 10 |
| | 100 | 3.94 | 11.97 | 0.91 | 9.00 | 7.50 | 8-0.75 | 7.68 | 10 |
| | 125 | 5.00 | 14.53 | 1.06 | 10.00 | 8.50 | 8-0.87 | 9.06 | 7.5 |
| | 150 | 5.51 | 14.53 | 1.02 | 11.00 | 9.50 | 8-0.87 | 9.06 | 7.5 |

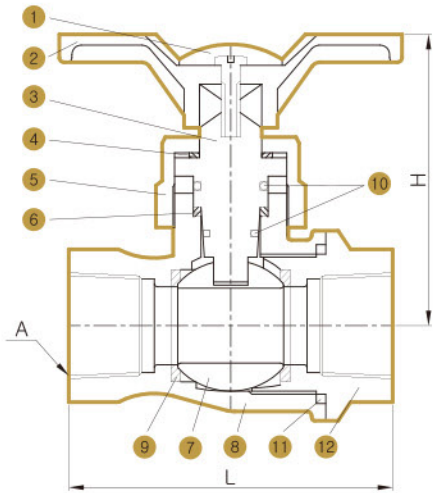
Ball Valves

Thread Type

- Material : PVC, C-PVC, PP, PVDF
 - Size : 15mm - 50mm, ½" - 2"
 - Pressure Rating : JIS 10kgf/cm², 150 PSI
 - Seals (Seat) : PTFE
- O-Ring : EPDM or FPM
 - Connections : PT Thread

Special Features

- Full Bore Type
 - Excellent Durability and Simple Operation
 - Bidirectional Flow Control Available
- Double O-RING mount on Stem Secures Air Tightness
 - Built-in PTFE Seal
 - Actuator Installation Capable after Bracket Mount



| NO | PARTS | MATERIALS |
|----|-----------------|------------------|
| 1 | HANDLE CAP BOLT | SS41(ABS COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | STEM WASHER | PE |
| 5 | GRAND CAP | PP/PVDF/PVC/CPVC |
| 6 | STEM RING | PTFE |
| 7 | BALL | PP/PVDF/PVC/CPVC |
| 8 | BODY | PP/PVDF/PVC/CPVC |
| 9 | NIP SEAL | PTFE |
| 10 | STEM O-RING | EPDM FPM |
| 11 | BODY CAP RING | PE |
| 12 | BODY CAP | PP/PVDF/PVC/CPVC |



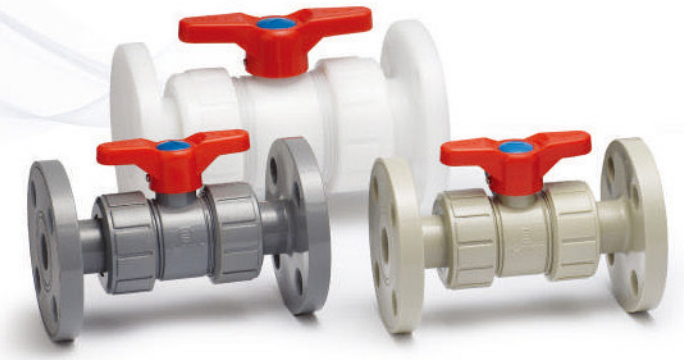
PP&PVDF

| JIS | | | | | unit : mm |
|------|-------|-----|-----|-----------------|-------------------------------------|
| Size | Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 15 | | 82 | 78 | PT 1/2" | 10 |
| 20 | | 89 | 80 | PT 3/4" | 10 |
| 25 | | 103 | 90 | PT 1" | 10 |
| 30 | | 118 | 95 | PT 1 1/4" | 10 |
| 40 | | 130 | 115 | PT 1 1/2" | 10 |
| 50 | | 148 | 120 | PT 2" | 10 |

PVC&CPVC

| JIS | | | | | unit : mm |
|------|-------|-----|-----|-----------------|-------------------------------------|
| Size | Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 15 | | 98 | 78 | PT 1/2" | 10 |
| 20 | | 105 | 80 | PT 3/4" | 10 |
| 25 | | 120 | 90 | PT 1" | 10 |
| 30 | | 134 | 95 | PT 1 1/4" | 10 |
| 40 | | 156 | 115 | PT 1 1/2" | 10 |
| 50 | | 176 | 120 | PT 2" | 10 |

True Union Ball Valves



Flange Type

- Material : PVC, C-PVC, PP, PVDF
- Size : 15mm - 100mm, ½" - 4"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- Seals : PTFE
- O-Ring : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

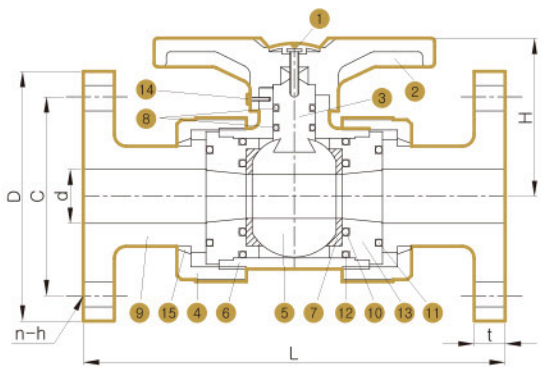
Special Features

- Full Bore Type
- Excellent Durability and Simple Operation
- Installed Union for Simple Replacement Process
- Bidirectional Flow Control Available
- Double O-RING mount on Stem Secures Air Tightness
- Built-in PTFE Seal
- Various Connection (Flange, Thread, Socket)

PP&PVDF

| JIS | | | | | | | | |
|-----------|-------|-----|-----|----|---------|-----|------|-------------------------------|
| unit : mm | | | | | | | | |
| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | H |
| 15 | | 15 | 143 | 14 | 95 | 70 | 4-15 | 55 |
| 20 | | 20 | 172 | 15 | 100 | 75 | 4-15 | 64 |
| 25 | | 25 | 187 | 16 | 125 | 90 | 4-19 | 72 |
| 30 | | 30 | 190 | 17 | 135 | 100 | 4-19 | 81 |
| 40 | | 40 | 212 | 17 | 140 | 105 | 4-19 | 92 |
| 50 | | 50 | 234 | 17 | 155 | 120 | 4-19 | 94 |
| 65 | | 65 | 259 | 20 | 175 | 140 | 4-19 | 116 |
| 80 | | 75 | 304 | 19 | 185 | 150 | 8-19 | 141 |
| 100 | | 100 | 374 | 19 | 210 | 175 | 8-19 | 175 |

| ANSI | | | | | | | | |
|-------------|-------|------|-------|------|---------|------|--------|-------------------------------|
| unit : inch | | | | | | | | |
| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | H |
| 15 | | 0.59 | 5.55 | 0.55 | 3.50 | 2.38 | 4-0.63 | 2.17 |
| 20 | | 0.79 | 6.61 | 0.59 | 3.88 | 2.75 | 4-0.63 | 2.52 |
| 25 | | 0.98 | 7.32 | 0.63 | 4.25 | 3.12 | 4-0.63 | 3.83 |
| 30 | | 1.18 | 7.36 | 0.67 | 4.62 | 3.50 | 4-0.63 | 3.19 |
| 40 | | 1.57 | 8.27 | 0.67 | 5.00 | 3.88 | 4-0.63 | 3.62 |
| 50 | | 1.97 | 9.06 | 0.67 | 6.00 | 4.75 | 4-0.75 | 3.70 |
| 65 | | 2.56 | 10.12 | 0.79 | 7.00 | 5.50 | 4-0.75 | 4.57 |
| 80 | | 3.15 | 11.93 | 0.75 | 7.50 | 6.00 | 4-0.77 | 5.55 |
| 100 | | 3.94 | 14.57 | 0.75 | 9.00 | 7.50 | 8-0.77 | 6.89 |



| NO | PARTS | MATERIALS |
|----|-----------------|--|
| 1 | HANDLE CAP BOLT | 15A~50A : SS41 (ABS COATED) 65A~100A : SS41 (PP COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 5 | BALL | PP/PVDF/PVC/CPVC |
| 6 | BODY | PP/PVDF/PVC/CPVC |
| 7 | NIP SEAL | PTFE |
| 8 | STEM O-RING | EPDM FPM |
| 9 | END CONNECTOR | PP/PVDF/PVC/CPVC |
| 10 | O-RING | EPDM FPM |
| 11 | FACE O-RING | EPDM FPM |
| 12 | SIDE O-RING | EPDM FPM |
| 13 | CARRIER | PP/PVDF/PVC/CPVC |
| 14 | SUS BOLT | 15A~50A : SUS 304 65A~100A : N/A |
| 15 | TAPER RING | PE |

PVC&CPVC

| JIS | | | | | | | | |
|-----------|-------|-----|-----|----|---------|-----|------|-------------------------------|
| unit : mm | | | | | | | | |
| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | H |
| 15 | | 15 | 143 | 14 | 95 | 70 | 4-15 | 55 |
| 20 | | 20 | 172 | 15 | 100 | 75 | 4-15 | 64 |
| 25 | | 25 | 187 | 16 | 125 | 90 | 4-19 | 72 |
| 30 | | 30 | 190 | 17 | 135 | 100 | 4-19 | 81 |
| 40 | | 40 | 212 | 17 | 140 | 105 | 4-19 | 92 |
| 50 | | 50 | 234 | 17 | 155 | 120 | 4-19 | 94 |
| 65 | | 65 | 259 | 20 | 175 | 140 | 4-19 | 116 |
| 80 | | 75 | 304 | 19 | 185 | 150 | 8-19 | 141 |
| 100 | | 100 | 372 | 19 | 210 | 175 | 8-19 | 175 |

| ANSI | | | | | | | | |
|-------------|-------|------|-------|------|---------|------|--------|-------------------------------|
| unit : inch | | | | | | | | |
| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | H |
| 15 | | 0.59 | 5.71 | 0.55 | 3.50 | 2.38 | 4-0.63 | 2.17 |
| 20 | | 0.79 | 6.77 | 0.59 | 3.88 | 2.75 | 4-0.63 | 2.52 |
| 25 | | 0.98 | 7.48 | 0.63 | 4.25 | 3.12 | 4-0.63 | 3.83 |
| 30 | | 1.18 | 7.48 | 0.67 | 4.62 | 3.50 | 4-0.63 | 3.19 |
| 40 | | 1.57 | 8.39 | 0.67 | 5.00 | 3.88 | 4-0.63 | 3.62 |
| 50 | | 1.97 | 9.21 | 0.67 | 6.00 | 4.75 | 4-0.75 | 3.70 |
| 65 | | 2.56 | 10.28 | 0.79 | 7.00 | 5.50 | 4-0.75 | 4.57 |
| 80 | | 3.15 | 12.05 | 0.75 | 7.50 | 6.00 | 4-0.77 | 5.55 |
| 100 | | 3.94 | 14.72 | 0.75 | 9.00 | 7.50 | 8-0.77 | 6.89 |

True Union Ball Valves

Thread Type

- Material

: PVC, C-PVC, PP, PVDF
- Size

: 15mm - 100mm, ½" - 4"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- Seals

: PTFE
- O-Ring

: EPDM or FPM
- Connections

: PT Thread

Special Features

- Full Bore Type

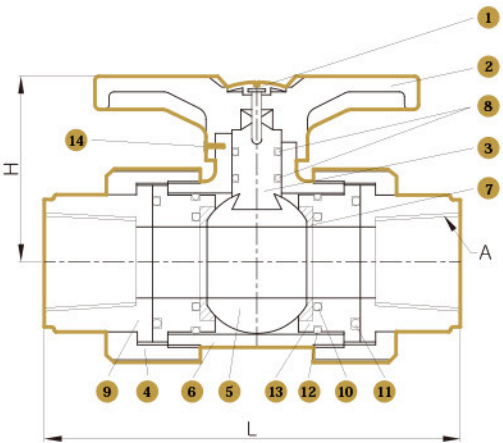
· Excellent Durability and Simple Operation

· Installed Union for Simple Replacement Process

· Bidirectional Flow Control Available
- Double O-RING mount on Stem Secures Air Tightness

· Built-in PTFE Seal

· Various Connection (Flange, Thread, Socket)



| NO | PARTS | MATERIALS |
|----|-----------------|----------------------------|
| 1 | HANDLE CAP BOLT | 15A~50A : SS41(ABS COATED) |
| | | 65A~100A : SS41(PP COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP / PVDF / PVC / CPVC |
| 4 | GLAND CAP | PP / PVDF / PVC / CPVC |
| 5 | BALL | PP / PVDF / PVC / CPVC |
| 6 | BODY | PP / PVDF / PVC / CPVC |
| 7 | NIP SEAL | PTFE |
| 8 | STEM O-RING | EPDM |
| | | FPM |
| 9 | END CONNECTOR | PP / PVDF / PVC / CPVC |
| 10 | O-RING | EPDM |
| | | FPM |
| 11 | FACE O-RING | EPDM |
| | | FPM |
| 12 | SIDE O-RING | EPDM FPM |
| 13 | CARRIER | PP / PVDF / PVC / CPVC |
| 14 | SUS BOLT | 15A~50A : SUS 304 |
| | | 65A~100A : N/A |



PP&PVDF

JIS

| Size | Parts | L | H | JIS B 0203 | MAX Working Pressure (kg/cm²) |
|------|-------|-----|-----|------------|----------------------------------|
| | | | | A | |
| 15 | | 100 | 55 | PT 1/2" | 10 |
| 20 | | 117 | 64 | PT 3/4" | 10 |
| 25 | | 133 | 72 | PT 1" | 10 |
| 30 | | 144 | 81 | PT 1 1/4" | 10 |
| 40 | | 168 | 92 | PT 1 1/2" | 10 |
| 50 | | 192 | 94 | PT 2" | 10 |
| 65 | | 206 | 116 | PT 2 1/2" | 10 |
| 80 | | 261 | 141 | PT 3" | 10 |
| 100 | | 362 | 175 | PT 4" | 10 |

PVC&CPVC

JIS

| Size | Parts | L | H | JIS B 0203 | MAX Working Pressure (kg/cm²) |
|------|-------|-----|-----|------------|----------------------------------|
| | | | | A | |
| 15 | | 103 | 55 | PT 1/2" | 10 |
| 20 | | 120 | 64 | PT 3/4" | 10 |
| 25 | | 137 | 72 | PT 1" | 10 |
| 30 | | 147 | 81 | PT 1 1/4" | 10 |
| 40 | | 173 | 92 | PT 1 1/2" | 10 |
| 50 | | 198 | 94 | PT 2" | 10 |
| 65 | | 214 | 116 | PT 2 1/2" | 10 |
| 80 | | 270 | 141 | PT 3" | 10 |
| 100 | | 368 | 175 | PT 4" | 10 |

True Union Ball Valves

Socket Type

- Material : PVC, C-PVC, PP, PVDF

· Size : 15mm - 100mm, ½" - 4"

· Pressure Rating : JIS 10kgf/cm², 150 PSI
- Seals : PTFE

· O-Ring : EPDM or FPM

· Connections : Socket
- Full Bore Type

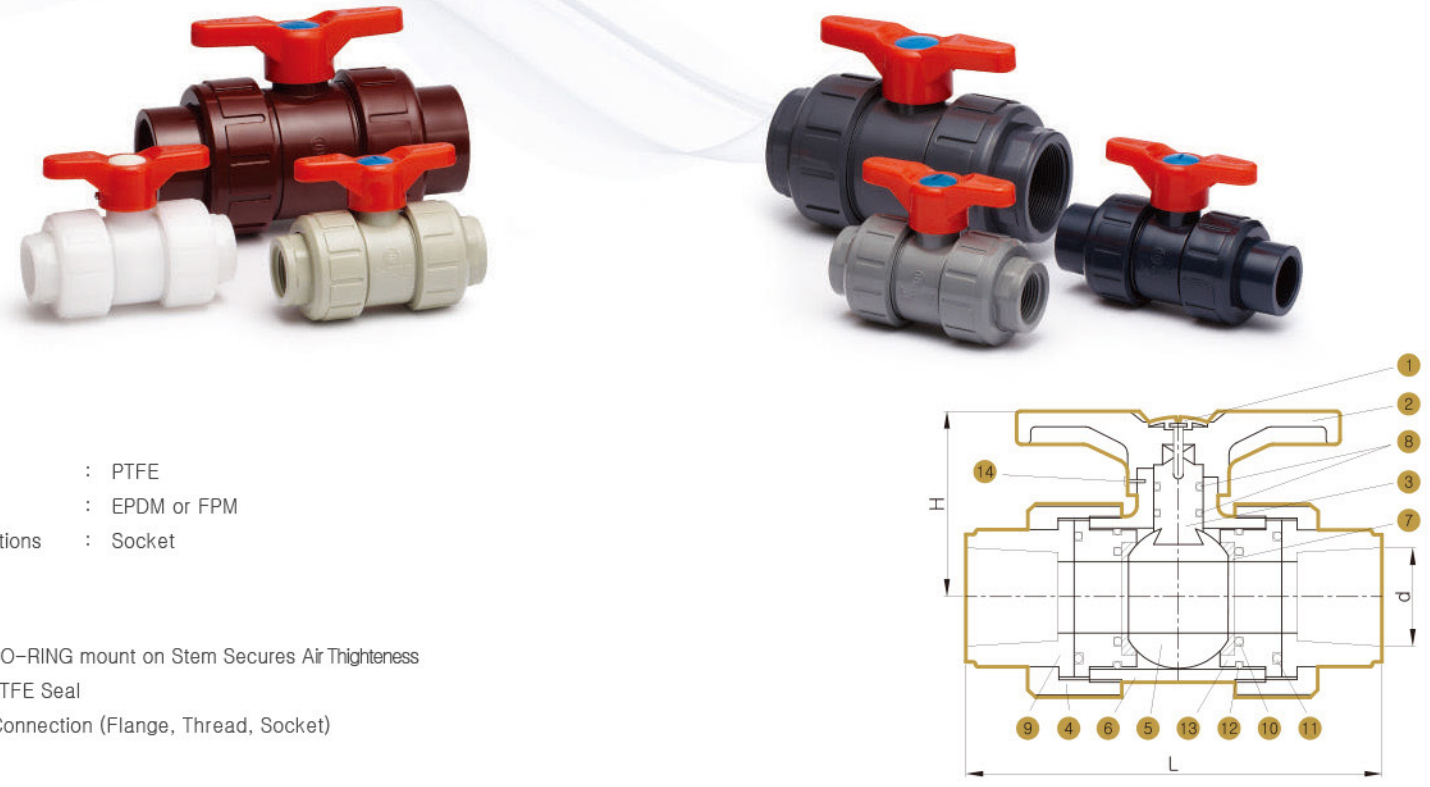
· Excellent Durability and Simple Operation

· Installed Union for Simple Replacement Process

· Bidirectional Flow Control Available
- Double O-RING mount on Stem Secures Air Tightness

· Built-in PTFE Seal

· Various Connection (Flange, Thread, Socket)



| NO | PARTS | MATERIALS |
|----|-----------------|----------------------------|
| 1 | HANDLE CAP BOLT | 15A~50A : SS41(ABS COATED) |
| | | 65A~100A : SS41(PP COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 5 | BALL | PP/PVDF/PVC/CPVC |
| 6 | BODY | PP/PVDF/PVC/CPVC |
| 7 | NIP SEAL | PTFE |
| 8 | STEM O-RING | EPDM |
| | | FPM |
| 9 | END CONNECTOR | PP/PVDF/PVC/CPVC |
| 10 | O-RING | EPDM |
| | | FPM |
| 11 | FACE O-RING | EPDM |
| | | FPM |
| 12 | SIDE O-RING | EPDM |
| | | FPM |
| 13 | CARRIER | PP/PVDF/PVC/CPVC |
| 14 | SUS BOLT | 15A~50A : SUS 304 |
| | | 65A~100A : N/A |

PP&PVDF

| JIS | | | | | unit : mm |
|------|-------|-------|-----|-----|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 22.4 | 113 | 55 | 10 |
| 20 | | 26.4 | 130 | 64 | 10 |
| 25 | | 32.4 | 156 | 72 | 10 |
| 30 | | 38.4 | 160 | 81 | 10 |
| 40 | | 48.4 | 186 | 92 | 10 |
| 50 | | 60.4 | 213 | 94 | 10 |
| 65 | | 76.6 | 237 | 116 | 10 |
| 80 | | 89.7 | 297 | 141 | 10 |
| 100 | | 114.7 | 362 | 175 | 10 |

| ANSI | | | | | unit : inch |
|------|-------|-------|--------|-------|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 0.848 | 4.449 | 2.165 | 10 |
| 20 | | 1.058 | 5.118 | 2.520 | 10 |
| 25 | | 1.325 | 6.142 | 2.835 | 10 |
| 30 | | 1.670 | 6.299 | 3.189 | 10 |
| 40 | | 1.912 | 7.323 | 3.622 | 10 |
| 50 | | 2.387 | 8.368 | 3.701 | 10 |
| 65 | | 2.889 | 9.331 | 4.567 | 10 |
| 80 | | 3.516 | 11.693 | 5.551 | 10 |
| 100 | | 4.518 | 14.252 | 6.890 | 10 |

PVC&CPVC

| JIS | | | | | unit : mm |
|------|-------|-------|-----|-----|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 22.4 | 114 | 55 | 10 |
| 20 | | 26.4 | 129 | 64 | 10 |
| 25 | | 32.4 | 156 | 72 | 10 |
| 30 | | 38.4 | 157 | 81 | 10 |
| 40 | | 48.4 | 190 | 92 | 10 |
| 50 | | 60.4 | 218 | 94 | 10 |
| 65 | | 76.6 | 242 | 116 | 10 |
| 80 | | 89.7 | 301 | 141 | 10 |
| 100 | | 114.7 | 370 | 175 | 10 |

| ANSI | | | | | unit : inch |
|------|-------|-------|--------|-------|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 0.848 | 4.488 | 2.165 | 10 |
| 20 | | 1.058 | 5.079 | 2.520 | 10 |
| 25 | | 1.325 | 6.142 | 2.835 | 10 |
| 30 | | 1.670 | 6.181 | 3.189 | 10 |
| 40 | | 1.912 | 7.480 | 3.622 | 10 |
| 50 | | 2.387 | 8.583 | 3.701 | 10 |
| 65 | | 2.889 | 9.528 | 4.567 | 10 |
| 80 | | 3.516 | 11.850 | 5.551 | 10 |
| 100 | | 4.518 | 14.567 | 6.890 | 10 |

3-Way Union Ball Valves

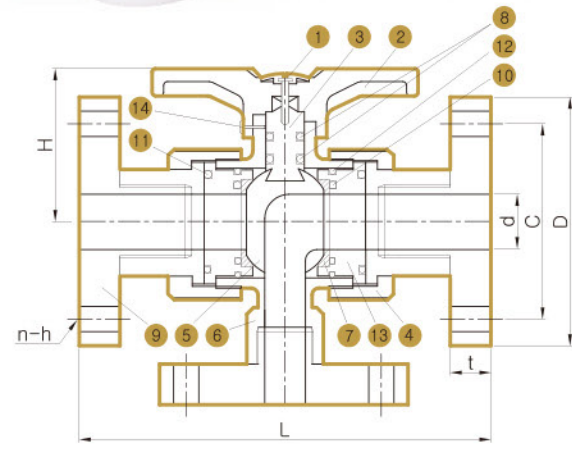


Flange Type

- Material : PVC, C-PVC, PP, PVDF
 - Size : 15mm - 50mm, ½" - 2"
 - Pressure Rating : JIS 10kgf/cm², 150 PSI
 - Seals : PTFE
- O-Ring : EPDM or FPM
 - Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- 3-piece Structures of L-PORT TYPE
- Excellent Durability and Simple Operation
- 360° Spinning Handle Allows the Flexible Choice of Pipe Sides(Left or Right)
- Double O-RING mount on Stem Secures Air Tightness
- Built-in PTFE Seal
- Various Connection (Flange, Thread, Socket)



| NO | PARTS | MATERIALS |
|----|-----------------|-------------------|
| 1 | HANDLE CAP BOLT | SS41 (ABS COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 5 | BALL | PP/PVDF/PVC/CPVC |
| 6 | BODY | PP/PVDF/PVC/CPVC |
| 7 | NIP SEAL | PTFE |
| 8 | STEM O-RING | EPDM / FPM |
| 9 | END CONNECTOR | PP/PVDF/PVC/CPVC |
| 10 | O-RING | EPDM / FPM |
| 11 | FACE O-RING | EPDM / FPM |
| 12 | SIDE O-RING | EPDM / FPM |
| 13 | CARRIER | PP/PVDF/PVC/CPVC |
| 14 | SUS BOLT | SUS 304 |

PP&PVDF

| JIS | | | | | | | | | unit : mm |
|------|-------|----|-----|----|---------|-----|------|----|-------------------------------|
| Size | Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | | |
| 15 | | 12 | 133 | 14 | 95 | 70 | 4-15 | 55 | 10 |
| 20 | | 18 | 150 | 15 | 100 | 75 | 4-15 | 64 | 10 |
| 25 | | 23 | 163 | 15 | 125 | 90 | 4-19 | 72 | 10 |
| 30 | | 28 | 180 | 16 | 135 | 100 | 4-19 | 81 | 10 |
| 40 | | 37 | 200 | 16 | 140 | 105 | 4-19 | 92 | 10 |
| 50 | | 48 | 235 | 20 | 155 | 120 | 4-19 | 94 | 10 |

| ANSI | | | | | | | | | unit : inch |
|------|-------|------|------|------|----------------|------|--------|------|-------------------------------|
| Size | Parts | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | | |
| 15 | | 0.47 | 5.24 | 0.55 | 3.50 | 2.38 | 4-0.63 | 2.17 | 10 |
| 20 | | 0.71 | 5.91 | 0.59 | 3.88 | 2.75 | 4-0.63 | 2.52 | 10 |
| 25 | | 0.91 | 6.42 | 0.59 | 4.25 | 3.12 | 4-0.63 | 2.83 | 10 |
| 30 | | 1.10 | 7.09 | 0.63 | 4.62 | 3.50 | 4-0.63 | 3.19 | 10 |
| 40 | | 1.46 | 7.87 | 0.63 | 5.00 | 3.88 | 4-0.63 | 3.62 | 10 |
| 50 | | 1.89 | 9.25 | 0.79 | 6.00 | 4.75 | 4-0.75 | 3.70 | 10 |

PVC&CPVC

| JIS | | | | | | | | | unit : mm |
|------|-------|----|-----|----|---------|-----|------|----|-------------------------------|
| Size | Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | | |
| 15 | | 12 | 133 | 14 | 95 | 70 | 4-15 | 55 | 10 |
| 20 | | 18 | 150 | 15 | 100 | 75 | 4-15 | 64 | 10 |
| 25 | | 23 | 168 | 15 | 125 | 90 | 4-19 | 72 | 10 |
| 30 | | 28 | 180 | 16 | 135 | 100 | 4-19 | 81 | 10 |
| 40 | | 37 | 205 | 16 | 140 | 105 | 4-19 | 92 | 10 |
| 50 | | 48 | 240 | 20 | 155 | 120 | 4-19 | 94 | 10 |

| ANSI | | | | | | | | | unit : inch |
|------|-------|------|------|------|----------------|------|--------|------|-------------------------------|
| Size | Parts | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm²) |
| | | | | | D | C | n-h | | |
| 15 | | 0.47 | 5.24 | 0.55 | 3.50 | 2.38 | 4-0.63 | 2.17 | 10 |
| 20 | | 0.71 | 5.91 | 0.59 | 3.88 | 2.75 | 4-0.63 | 2.52 | 10 |
| 25 | | 0.91 | 6.61 | 0.59 | 4.25 | 3.12 | 4-0.63 | 2.83 | 10 |
| 30 | | 1.10 | 7.09 | 0.63 | 4.62 | 3.50 | 4-0.63 | 3.19 | 10 |
| 40 | | 1.46 | 8.07 | 0.63 | 5.00 | 3.88 | 4-0.63 | 3.62 | 10 |
| 50 | | 1.89 | 9.45 | 0.79 | 6.00 | 4.75 | 4-0.75 | 3.70 | 10 |

3-Way Union Ball Valves

Thread Type

- Material

: PVC, C-PVC, PP, PVDF
- Size

: 15mm - 50mm, ½" - 4"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- Seals

: PTFE
- O-Ring

: EPDM or FPM
- Connections

: PT Thread

Special Features

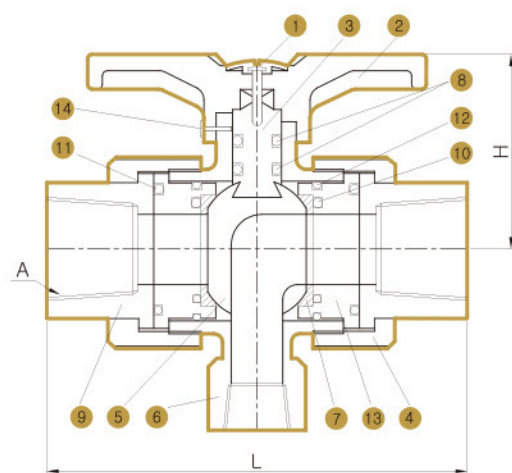
- 3-piece Structures of L-PORT TYPE

· Excellent Durability and Simple Operation

· 360° Spinning Handle Allows the Flexible Choice of Pipe Sides(Left or Right)
- Double O-RING mount on Stem Secures Air Tightness

· Built-in PTFE Seal

· Various Connection (Flange, Thread, Socket)



| NO | PARTS | MATERIALS |
|----|-----------------|-------------------|
| 1 | HANDLE CAP BOLT | SS41 (ABS COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 5 | BALL | PP/PVDF/PVC/CPVC |
| 6 | BODY | PP/PVDF/PVC/CPVC |
| 7 | NIP SEAL | PTFE |
| 8 | STEM O-RING | EPDM / FPM |
| 9 | END CONNECTOR | PP/PVDF/PVC/CPVC |
| 10 | O-RING | EPDM / FPM |
| 11 | FACE O-RING | EPDM / FPM |
| 12 | SIDE O-RING | EPDM / FPM |
| 13 | CARRIER | PP/PVDF/PVC/CPVC |
| 14 | SUS BOLT | SUS 304 |

PP&PVDF

| JIS | | | | | unit : mm |
|-------|-----|----|-----------------|-------------------------------------|-----------|
| Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) | |
| Size | | | | | |
| 15 | 102 | 55 | PT 1/2" | 10 | |
| 20 | 117 | 64 | PT 3/4" | 10 | |
| 25 | 135 | 72 | PT 1" | 10 | |
| 30 | 148 | 81 | PT 1 1/4" | 10 | |
| 40 | 170 | 92 | PT 1 1/2" | 10 | |
| 50 | 196 | 94 | PT 2" | 10 | |

PVC&CPVC

| JIS | | | | | unit : mm |
|-------|-----|----|-----------------|-------------------------------------|-----------|
| Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) | |
| Size | | | | | |
| 15 | 104 | 55 | PT 1/2" | 10 | |
| 20 | 120 | 64 | PT 3/4" | 10 | |
| 25 | 137 | 72 | PT 1" | 10 | |
| 30 | 150 | 81 | PT 1 1/4" | 10 | |
| 40 | 171 | 92 | PT 1 1/2" | 10 | |
| 50 | 200 | 94 | PT 2" | 10 | |



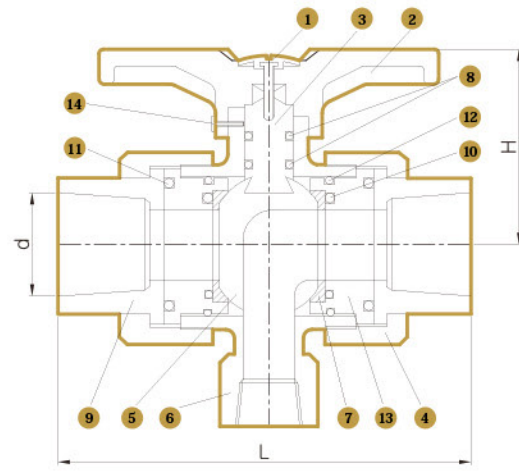
3-Way Union Ball Valves

Socket Type

- Material : PVC, C-PVC, PP, PVDF
 - Size : 15mm - 50mm, ½" - 4"
 - Pressure Rating : JIS 10kgf/cm², 150 PSI
- Seals : PTFE
 - O-Ring : EPDM or FPM
 - Connections : Socket

Special Features

- 3-piece Structures of L-PORT TYPE
 - Excellent Durability and Simple Operation
 - 360° Spinning Handle Allows the Flexible Choice of Pipe Sides(Left or Right)
- Double O-RING mount on Stem Secures Air Tightness
 - Built-in PTFE Seal
 - Various Connection (Flange, Thread, Socket)



| NO | PARTS | MATERIALS |
|----|-----------------|-------------------|
| 1 | HANDLE CAP BOLT | SS41 (ABS COATED) |
| 2 | HANDLE | PP |
| 3 | STEM | PP/PVDF/PVC/CPVC |
| 4 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 5 | BALL | PP/PVDF/PVC/CPVC |
| 6 | BODY | PP/PVDF/PVC/CPVC |
| 7 | NIP SEAL | PTFE |
| 8 | STEM O-RING | EPDM / FPM |
| 9 | END CONNECTOR | PP/PVDF/PVC/CPVC |
| 10 | O-RING | EPDM / FPM |
| 11 | FACE O-RING | EPDM / FPM |
| 12 | SIDE O-RING | EPDM / FPM |
| 13 | CARRIER | PP/PVDF/PVC/CPVC |
| 14 | SUS BOLT | SUS 304 |

PP&PVDF

| JIS | | | | | unit : mm |
|------|-------|------|-----|----|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 22.4 | 114 | 55 | 10 |
| 20 | | 26.4 | 130 | 64 | 10 |
| 25 | | 32.4 | 159 | 72 | 10 |
| 30 | | 38.4 | 160 | 81 | 10 |
| 40 | | 48.4 | 188 | 92 | 10 |
| 50 | | 60.4 | 216 | 94 | 10 |

PVC&CPVC

| JIS | | | | | unit : mm |
|------|-------|------|-----|----|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 22.4 | 115 | 55 | 10 |
| 20 | | 26.4 | 130 | 64 | 10 |
| 25 | | 32.4 | 159 | 72 | 10 |
| 30 | | 38.4 | 160 | 81 | 10 |
| 40 | | 48.4 | 191 | 92 | 10 |
| 50 | | 60.4 | 220 | 94 | 10 |

| ANSI | | | | | unit : inch |
|------|-------|-------|------|------|-------------------------------|
| Size | Parts | d | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 0.848 | 4.53 | 2.17 | 10 |
| 20 | | 1.058 | 5.12 | 2.52 | 10 |
| 25 | | 1.325 | 6.26 | 2.83 | 10 |
| 30 | | 1.670 | 6.30 | 3.19 | 10 |
| 40 | | 1.912 | 7.52 | 3.62 | 10 |
| 50 | | 2.387 | 8.66 | 3.70 | 10 |

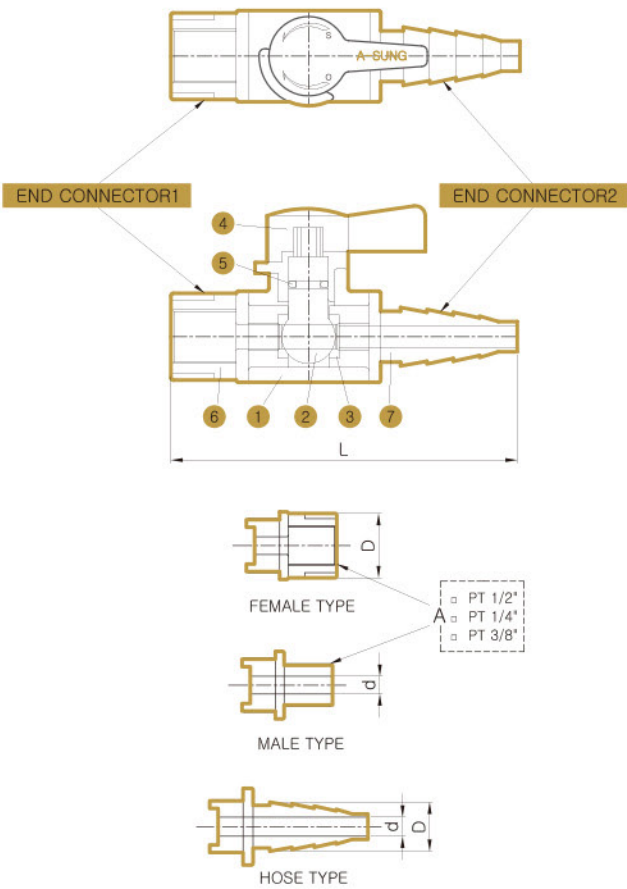


Lab Cock Valves

- Material : PVC
 - Size : 6mm - 13mm, 1/4" - 3/8"
 - Pressure Rating : JIS 10kgf/cm², 150 PSI
 - Seals : EPDM
 - O-Ring : EPDM
- Connections
 - Hose : 6mm(1/4")
 - Male Thread : 6mm(1/4"), 15mm(1/2")
 - Female Thread : 6mm(1/4"), 13mm(3/8")

Special Features

- Full Port
 - Simple Operation
 - Bidirectional Flow Control Available
- Manufactured in Smallest Size among Ball Valve Category
 - Various types of Connections



| NO | PARTS | MATERIALS |
|----|-----------------|-----------|
| 1 | BODY | PVC |
| 2 | BALL & STEM | PVC |
| 3 | NIP SEAL | EPDM |
| 4 | HANDLE | PP |
| 5 | O-RING | EPDM |
| 6 | END CONNECTOR 1 | PVC |
| 7 | END CONNECTOR 2 | PVC |

PVC

| unit : mm | | | | |
|-----------------|-----|-----|-----|-------------------------------|
| Type \ Parts | D | d | L | MAX Working Pressure (kg/cm²) |
| FEMALE + FEMALE | 23 | N/A | 71 | 3 |
| FEMALE + MALE | 23 | 6 | 71 | 3 |
| MALE + MALE | N/A | 6 | 71 | 3 |
| FEMALE + HOSE | 16 | 6 | 91 | 3 |
| MALE + HOSE | 16 | 6 | 91 | 3 |
| HOSE + HOSE | 16 | 6 | 111 | 3 |



Compact Ball Valves

Socket Type

- Material : PVC

· Size : 15mm - 150mm, 1/2" - 6"

· Pressure Rating : JIS 10kgf/cm², 150 PSI
- Seals : PE

· O-Ring : EPDM

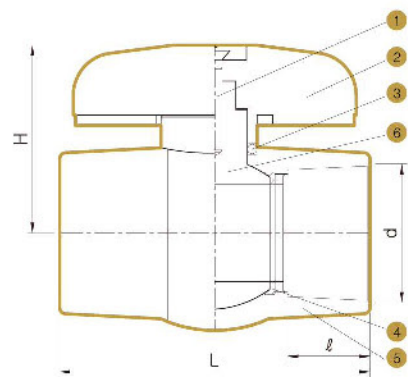
· Connections : Socket

Special Features

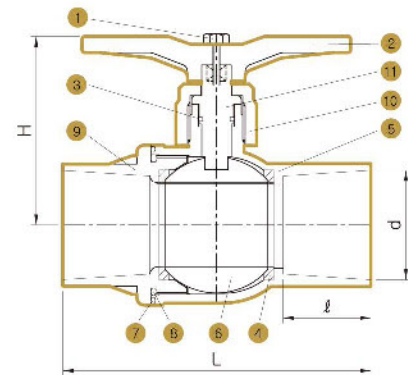
- Full Bore Type

· Excellent Durability and Simple Operation
- Bidirectional Flow Control

· Appropriate for Water Pipe (Inappropriate for Industrial Use)



13A~50A



65A~150A

| NO | PARTS | MATERIALS |
|----|-----------------|-------------------|
| 1 | HANDLE PIN BOLT | SS41 (ABS COATED) |
| 2 | HANDLE | PP |
| 3 | O-RING | EPDM |
| 4 | NIP SEAL | PLASTOMER |
| 5 | BODY | PVC |
| 6 | BALL | PVC |

| NO | PARTS | MATERIALS |
|----|-----------------|------------------|
| 1 | HANDLE PIN BOLT | SS41 (PP COATED) |
| 2 | HANDLE | PP |
| 3 | O-RING | EPDM |
| 4 | NIP SEAL | PE |
| 5 | BODY | PVC |
| 6 | BALL | PVC |
| 7 | SIDE O-RING | EPDM |
| 8 | FACE O-RING | EPDM |
| 9 | BODY CAP | PVC |
| 10 | GRAND CAP | PP |
| 11 | STEM | PVC |

PVC

JIS

| | | unit : mm | | | | |
|------|-------|-----------|-----|-----|-----|--|
| Size | Parts | d | L | ℓ | H | MAX Working Pressure (kg/cm ²) |
| 13 | | 18.4 | 68 | 20 | 32 | 5 |
| 15 | | 22.4 | 84 | 23 | 43 | 5 |
| 20 | | 26.4 | 96 | 28 | 55 | 5 |
| 25 | | 32.4 | 106 | 29 | 66 | 5 |
| 30 | | 38.4 | 112 | 31 | 66 | 5 |
| 40 | | 48.4 | 130 | 33 | 75 | 5 |
| 50 | | 60.4 | 146 | 38 | 89 | 5 |
| 65 | | 76.6 | 270 | 69 | 170 | 5 |
| 80 | | 89.7 | 280 | 72 | 170 | 5 |
| 100 | | 114.7 | 333 | 94 | 182 | 5 |
| 125 | | 141.2 | 396 | 140 | 170 | 5 |
| 150 | | 166.3 | 450 | 140 | 182 | 5 |



Diaphragm Valves

Thermo Plastic Valves



Diaphragm Valves

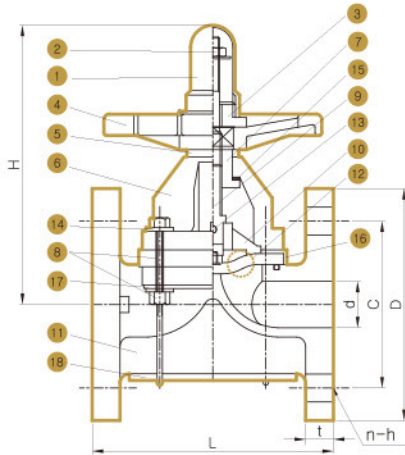
Flange Type

- Material – Body : PVC, C-PVC, PP, PVDF
 - Material – Bonnet : PVC, C-PVC, PP, PVDF
 - Size : 15mm - 250mm, $\frac{1}{2}$ " - 10"
 - Pressure Rating : JIS 10kgf/cm², 150 PSI
 - O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM
PTFE/PVDF/EPDM
 - Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

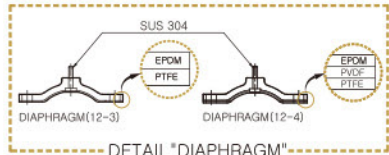
Special Features

- Up-and-Down Operation Method Allows Rate of Flow Control
- Excellent Durability and Convenient Handle Operation
- Superb Performance on Sludge or Slimy Liquid Line
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable
- Actuator Installation Capable

| NO | PARTS | MATERIALS |
|------|-----------------------|-----------------------------|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUTS | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HAND WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP/PVDF/PVC/CPVC |
| 7 | SLEEVE | BC |
| 8 | BOLT & NUT | SS41 (PP COATED) SUS 304 |
| 9 | STEM & STUD BOLT UNIT | BC + SS41 (PLATING : Zn) |
| 10 | COMPRESSOR | AL |
| 11 | BODY | PP/PVDF/PVC/CPVC |
| 12-1 | DIAPHRAGM | EPDM |
| 12-2 | | FPM |
| 12-3 | | EPDM + PTFE |
| 12-4 | | EPDM + PVDF + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | PTFE N/A |
| 16 | DIAPHRAGM COVER PLATE | SUS 304 |
| 17 | SUS PLATE | SUS 304 N/A |
| 18 | SUS LINER | SUS 304 N/A |



15A ~ 25A



PP&PVDF

JIS

| Parts Size | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm ²) | |
|---------------|-----|-----|------|---------|-----|-------|-----|--|--------------------------------|
| | | | | D | C | n-h | | RUBBER DIAPHRAGM (12-1, 12-2) | PTFE DIAPHRAGM (12-3, 12-4) |
| 15 | 16 | 112 | 13.0 | 95 | 70 | 4-15 | 95 | 10 | 10 |
| 20 | 20 | 121 | 14.5 | 100 | 75 | 4-15 | 100 | 10 | 10 |
| 25 | 25 | 132 | 14.5 | 125 | 90 | 4-19 | 110 | 10 | 10 |
| 30 | 40 | 181 | 17.5 | 135 | 100 | 4-19 | 181 | 10 | 10 |
| 40 | 40 | 181 | 17.5 | 140 | 105 | 4-19 | 181 | 10 | 10 |
| 50 | 52 | 211 | 21.0 | 155 | 120 | 4-19 | 220 | 10 | 10 |
| 65 | 67 | 251 | 22.0 | 175 | 140 | 4-19 | 260 | 10 | 10 |
| 80 | 78 | 281 | 22.0 | 185 | 150 | 8-19 | 270 | 10 | 10 |
| 100 | 100 | 342 | 25.0 | 210 | 175 | 8-19 | 300 | 10 | 10 |
| 125 | 125 | 414 | 27.0 | 250 | 210 | 8-23 | 420 | 7.5 | 7.5 |
| 150 | 145 | 482 | 28.5 | 280 | 240 | 8-23 | 475 | 7.5 | 5 |
| 200 | 194 | 572 | 35.0 | 330 | 290 | 12-23 | 630 | 5 | 4 |
| 250 | 247 | 687 | 35.0 | 400 | 355 | 12-25 | 700 | 5 | 4 |

unit : mm

ANSI

| Parts Size | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm ²) | |
|---------------|------|-------|------|----------------|-------|---------|-------|--|--------------------------------|
| | | | | D | C | n-h | | RUBBER DIAPHRAGM (12-1, 12-2) | PTFE DIAPHRAGM (12-3, 12-4) |
| 15 | 0.63 | 4.41 | 0.51 | 3.50 | 2.38 | 4-0.63 | 3.74 | 10 | 10 |
| 20 | 0.79 | 4.76 | 0.57 | 3.88 | 2.75 | 4-0.63 | 3.94 | 10 | 10 |
| 25 | 0.98 | 5.20 | 0.57 | 4.25 | 3.12 | 4-0.63 | 4.33 | 10 | 10 |
| 30 | 0.98 | 5.20 | 0.57 | 4.62 | 3.50 | 4-0.63 | 4.33 | 10 | 10 |
| 40 | 1.57 | 7.13 | 0.69 | 5.00 | 3.88 | 4-0.63 | 7.13 | 10 | 10 |
| 50 | 2.05 | 8.31 | 0.83 | 6.00 | 4.75 | 4-0.75 | 8.66 | 10 | 10 |
| 65 | 2.64 | 9.88 | 0.87 | 7.00 | 5.50 | 4-0.75 | 10.24 | 10 | 10 |
| 80 | 3.07 | 11.06 | 0.87 | 7.50 | 6.00 | 4-0.75 | 10.63 | 10 | 10 |
| 100 | 3.94 | 13.46 | 0.98 | 9.00 | 7.50 | 8-0.75 | 11.81 | 10 | 10 |
| 125 | 4.92 | 16.30 | 1.06 | 10.00 | 8.50 | 8-0.87 | 16.54 | 7.5 | 7.5 |
| 150 | 5.71 | 18.98 | 1.12 | 11.00 | 9.50 | 8-0.87 | 18.70 | 7.5 | 5 |
| 200 | 7.64 | 22.52 | 1.38 | 13.50 | 11.75 | 8-0.87 | 24.80 | 5 | 4 |
| 250 | 9.72 | 27.05 | 1.38 | 16.00 | 14.25 | 12-0.98 | 27.56 | 5 | 4 |

unit : inch

Diaphragm Valves

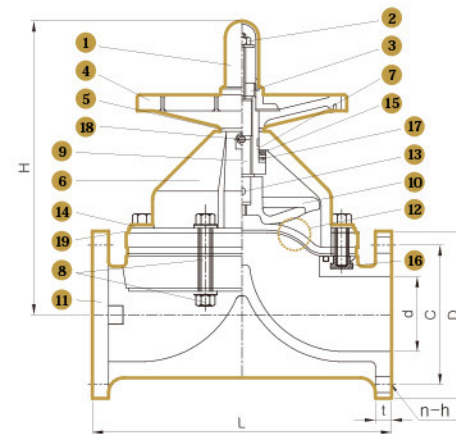
Flange Type

- Material – Body : PVC, C-PVC, PP, PVDF
- Material – Bonnet : PVC, C-PVC, PP, PVDF
- Size : 15mm - 250mm, $\frac{1}{2}$ " - 10"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM
PTFE/PVDF/EPDM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

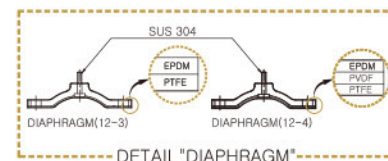
Special Features

- Up-and-Down Operation Method Allows Rate of Flow Control
- Excellent Durability and Convenient Handle Operation
- Superb Performance on Sludge or Slimy Liquid Line
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable
- Actuator Installation Capable

| NO | PARTS | MATERIALS |
|------|---------------------|---|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUTS | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HAND WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP/PVDF/PVC/CPVC |
| 7 | SLEEVE | FC (PLATING : Zn) |
| 8 | BOLT & NUT | SS41 (PP COATED) |
| 9 | STEM | S45C (PLATING : Zn) |
| 10 | COMPRESSOR | 40A – 50A : AL 65A – 250A : FCD |
| 11 | BODY | PP/PVDF/PVC/CPVC |
| 12-1 | DIAPHRAGM | EPDM |
| 12-2 | | FPM |
| 12-3 | | EPDM + PTFE |
| 12-4 | | EPDM + PVDF + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | PTFE |
| 16 | INSERTED NUT | BC |
| 17 | THRUST BALL BEARING | 40A – 80A : N/A 100A – 250A : STANDARDIZED |
| 18 | GREASE NIPPLE | 40A – 80A : N/A 100A – 250A : BC |
| 19 | SUS PLATE | SUS 304 N/A |



30A ~ 250A



DETAIL "DIAPHRAGM"



PVC&CPVC

JIS

| Parts Size | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm ²) | |
|---------------|-----|-----|------|---------|-----|-------|-----|--|--------------------------------|
| | | | | D | C | n-h | | RUBBER DIAPHRAGM (12-1, 12-2) | PTFE DIAPHRAGM (12-3, 12-4) |
| 15 | 16 | 113 | 13.0 | 95 | 70 | 4-15 | 95 | 10 | 10 |
| 20 | 20 | 123 | 15.0 | 100 | 75 | 4-15 | 100 | 10 | 10 |
| 25 | 25 | 133 | 15.0 | 125 | 90 | 4-19 | 110 | 10 | 10 |
| 30 | 40 | 183 | 17.0 | 135 | 100 | 4-19 | 181 | 10 | 10 |
| 40 | 40 | 183 | 17.0 | 140 | 105 | 4-19 | 181 | 10 | 10 |
| 50 | 52 | 214 | 20.0 | 155 | 120 | 4-19 | 220 | 10 | 10 |
| 65 | 67 | 255 | 21.0 | 175 | 140 | 4-19 | 260 | 10 | 10 |
| 80 | 78 | 285 | 22.0 | 185 | 150 | 8-19 | 270 | 10 | 10 |
| 100 | 100 | 347 | 21.5 | 210 | 175 | 8-19 | 300 | 10 | 10 |
| 125 | 125 | 415 | 25.0 | 250 | 210 | 8-23 | 420 | 7.5 | 7.5 |
| 150 | 145 | 486 | 28.0 | 280 | 240 | 8-23 | 475 | 7.5 | 5 |
| 200 | 194 | 575 | 34.0 | 330 | 290 | 12-23 | 630 | 5 | 4 |

unit : mm

ANSI

| Parts Size | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm ²) | |
|---------------|------|-------|------|----------------|-------|--------|-------|--|--------------------------------|
| | | | | D | C | n-h | | RUBBER DIAPHRAGM (12-1, 12-2) | PTFE DIAPHRAGM (12-3, 12-4) |
| 15 | 0.63 | 4.45 | 0.51 | 3.50 | 2.38 | 4-0.63 | 3.74 | 10 | 10 |
| 20 | 0.79 | 4.84 | 0.59 | 3.88 | 2.75 | 4-0.63 | 3.94 | 10 | 10 |
| 25 | 0.98 | 5.24 | 0.59 | 4.25 | 3.12 | 4-0.63 | 4.33 | 10 | 10 |
| 30 | 0.98 | 5.24 | 0.59 | 4.62 | 3.50 | 4-0.63 | 4.33 | 10 | 10 |
| 40 | 1.57 | 7.20 | 0.67 | 5.00 | 3.88 | 4-0.63 | 7.13 | 10 | 10 |
| 50 | 2.05 | 8.43 | 0.79 | 6.00 | 4.75 | 4-0.75 | 8.66 | 10 | 10 |
| 65 | 2.64 | 10.04 | 0.83 | 7.00 | 5.50 | 4-0.75 | 10.24 | 10 | 10 |
| 80 | 3.07 | 11.22 | 0.87 | 7.50 | 6.00 | 4-0.75 | 10.63 | 10 | 10 |
| 100 | 3.94 | 13.66 | 0.85 | 9.00 | 7.50 | 8-0.75 | 11.81 | 10 | 10 |
| 125 | 4.92 | 16.34 | 0.98 | 10.00 | 8.50 | 8-0.87 | 16.54 | 7.5 | 7.5 |
| 150 | 5.71 | 19.13 | 1.10 | 11.00 | 9.50 | 8-0.87 | 18.70 | 7.5 | 5 |
| 200 | 7.64 | 22.64 | 1.34 | 13.50 | 11.75 | 8-0.87 | 24.80 | 5 | 4 |

unit : inch

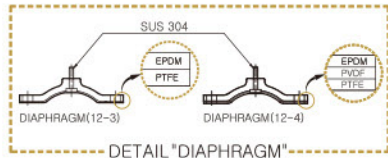
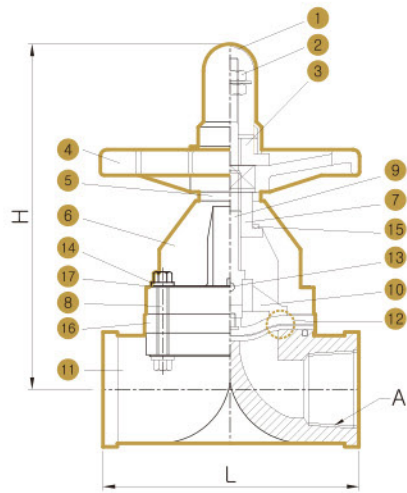
Diaphragm Valves

Thread Type

- Material – Body : PVC, C-PVC, PP, PVDF
- Material – Bonnet : PVC, C-PVC, PP, PVDF
- Size : 15mm - 25mm, ½" - 1"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM, PTFE/PVDF/EPDM
- Connections : PT Thread

Special Features

- Up-and-Down Operation Method Allows Rate of Flow Control
- Excellent Durability and Convenient Handle Operation
- Superb Performance on Sludge or Slimy Liquid Line
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable
- Actuator Installation Capable



| NO | PARTS | MATERIALS |
|-------|-----------------------|-------------------------------|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUTS | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HAND WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP / PVDF / PVC / CPVC |
| 7 | SLEEVE | BC |
| 8 | BOLT & NUT | SS41 (PP COATED) SUS 304 |
| 9 | STEM & STUD BOLT UNIT | BC + SS41 (PLATING : Zn) |
| 10 | COMPRESSOR | AL |
| 11 | BODY | PP / PVDF / PVC / CPVC |
| 12 -1 | DIAPHRAGM | EPDM |
| 12 -2 | | FPM |
| 12 -3 | | EPDM + PTFE |
| 12 -4 | | EPDM + PVDF + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | PTFE N/A |
| 16 | DIAPHRAGM COVER PLATE | SUS 304 |
| 17 | SUS PLATE | SUS 304 N/A |

PP&PVDF

| JIS | | unit : mm | | |
|------|-------|-----------|-----|-------------------------------|
| Size | Parts | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 81 | 138 | 7.5 |
| 20 | | 95 | 140 | 7.5 |
| 25 | | 106 | 148 | 7.5 |

PVC&CPVC

| JIS | | unit : mm | | |
|------|-------|-----------|-----|-------------------------------|
| Size | Parts | L | H | MAX Working Pressure (kg/cm²) |
| 15 | | 82 | 138 | 7.5 |
| 20 | | 95 | 140 | 7.5 |
| 25 | | 109 | 148 | 7.5 |



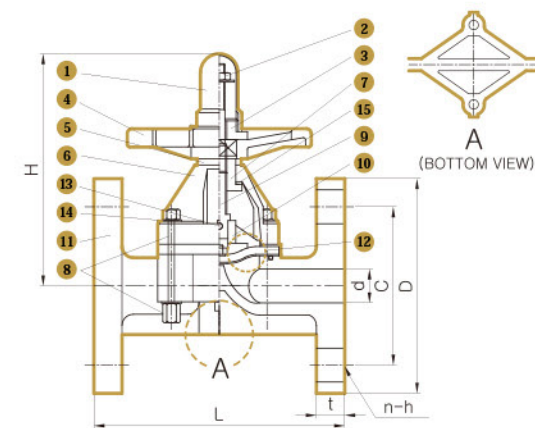
New Diaphragm Valves

Flange Type

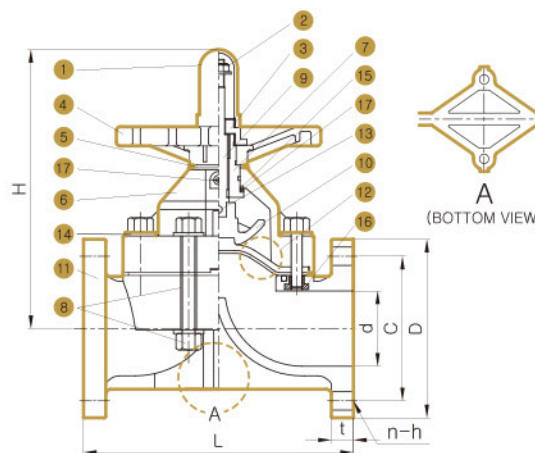
- Material - Body : PVC, C-PVC, PP, PVDF
- Material - Bonnet : PVC, C-PVC, PP, PVDF
- Size : 15mm - 250mm, $\frac{1}{2}$ " - 10"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM, PTFE/PVDF/EPDM
- Connections : ANSI 150 PSI Flanged, JIS 10kgf/cm² Flanged

Special Features

- Up-and-Down Operation Method Allows Rate of Flow Control
- Excellent Durability and Convenient Handle Operation
- Superb Performance on Sludge or Slimy Liquid Line
- Sophisticated design
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable
- Actuator Installation Capable



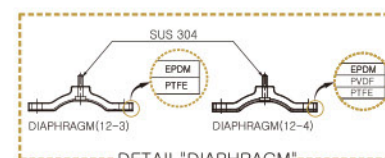
15A~30A



40A~100A

| NO | PARTS | MATERIALS |
|-------|-----------------------|----------------------------|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUTS | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HAND WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP/PVDF/PVC/CPVC |
| 7 | SLEEVE | BC |
| 8 | BOLT & NUT | SS41(PP COATED) SUS 304 |
| 9 | STEM + STUD BOLT UNIT | BC + SS41 (PLATING : Zn) |
| 10 | COMPRESSOR | AL |
| 11 | BODY | PP/PVDF/PVC/CPVC |
| 12 -1 | DIAPHRAGM | EPDM |
| 12 -2 | | FPM |
| 12 -3 | | EPDM + PTFE |
| 12 -4 | | EPDM + PVDF + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | PTFE N/A |

| NO | PARTS | MATERIALS |
|--------|----------------|-------------------------------------|
| 1 ~ 15 | | 15A ~30A와 동일 |
| 16 | THRUST BEARING | 40A~80A : N/A 100A : STANDARDIZE |
| 17 | GREASE NIPPLE | 40A~50A : N/A 65A~100A : BC |



DETAIL "DIAPHRAGM"

THERMO PLASTIC VALVES

PP&PVDF

JIS

| Parts | | JIS 10K | | | | | | | MAX Working Pressure (kg/cm ²) |
|-------|--|---------|-----|------|-----|-----|------|-----|--|
| | | d | L | t | D | C | n-h | H | |
| Size | | | | | | | | | |
| 15 | | 16 | 111 | 13.0 | 95 | 70 | 4-15 | 132 | 10 |
| 20 | | 20 | 120 | 14.5 | 100 | 75 | 4-15 | 133 | 10 |
| 25 | | 25 | 131 | 14.5 | 125 | 90 | 4-19 | 139 | 10 |
| 30 | | 32 | 143 | 17.5 | 135 | 100 | 4-19 | 149 | 10 |
| 40 | | 40 | 181 | 17.5 | 140 | 105 | 4-19 | 210 | 10 |
| 50 | | 52 | 211 | 21.0 | 155 | 120 | 4-19 | 233 | 10 |
| 65 | | 67 | 251 | 22.0 | 175 | 140 | 4-19 | 265 | 10 |
| 80 | | 78 | 281 | 22.0 | 185 | 150 | 8-19 | 289 | 10 |
| 100 | | 100 | 340 | 25.0 | 210 | 175 | 8-19 | 372 | 10 |

PVC&CPVC

JIS

| Parts | | JIS 10K | | | | | | | MAX Working Pressure (kg/cm ²) |
|-------|--|---------|-----|------|-----|-----|------|-----|--|
| | | d | L | t | D | C | n-h | H | |
| Size | | | | | | | | | |
| 15 | | 16 | 113 | 13.5 | 95 | 70 | 4-15 | 132 | 10 |
| 20 | | 20 | 122 | 15.0 | 100 | 75 | 4-15 | 133 | 10 |
| 25 | | 25 | 133 | 14.5 | 125 | 90 | 4-19 | 139 | 10 |
| 30 | | 32 | 146 | 17.0 | 135 | 100 | 4-19 | 149 | 10 |
| 40 | | 40 | 183 | 17.0 | 140 | 105 | 4-19 | 210 | 10 |
| 50 | | 52 | 214 | 21.0 | 155 | 120 | 4-19 | 233 | 10 |
| 65 | | 67 | 255 | 22.0 | 175 | 140 | 4-19 | 265 | 10 |
| 80 | | 78 | 285 | 23.0 | 185 | 150 | 8-19 | 289 | 10 |
| 100 | | 100 | 345 | 24.0 | 210 | 175 | 8-19 | 372 | 10 |

True Union Diaphragm Valves

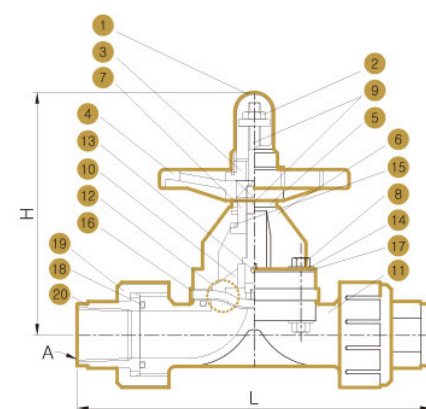
Thread Type

- Material – Body : PVC, C-PVC, PP, PVDF
- Material – Bonnet : PVC, C-PVC, PP, PVDF
- Size : 15mm - 50mm, $\frac{1}{2}$ " - 2"
- Pressure Rating : JIS 10kgf/cm², 150 PSI

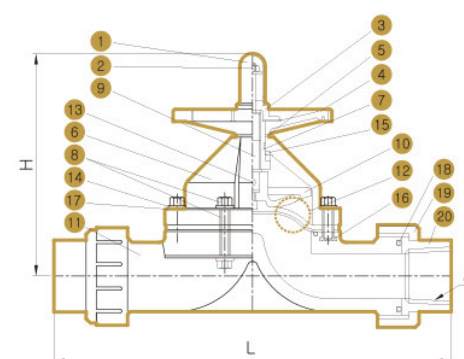
- O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM
PTFE/PVDF/EPDM
- Connections : PT Thread

Special Features

- Up-and-Down Operation Method Allows Rate of Flow Control
- Excellent Durability and Convenient Handle Operation
- Superb Performance on Sludge or Slimy Liquid Line
- Installed Union for Simple Replacement Process
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable
- Available to Control the Rate of Flow
- Various Connections (Flange, Thread, Socket)
- Actuator Installation Capable

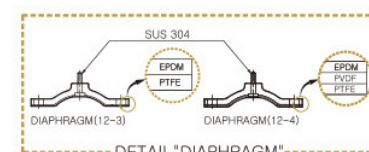


15A ~ 30A



40A ~ 50A

| NO | PARTS | MATERIALS |
|--------------|-----------------------|------------------------|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUTS | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HAND WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP / PVDF / PVC / CPVC |
| 7 | SLEEVE | BC |
| 8 | BOLT & NUT | SS41 (PP COATED) |
| 9 | STEM + STUD BOLT UNIT | BC |
| 10 | COMPRESSOR | AL |
| 11 | BODY | PP / PVDF / PVC / CPVC |
| 12-1 | DIAPHRAGM | EPDM |
| 12-2 | | FPM |
| 12-3 | | EPDM + PTFE |
| 12-4 | | EPDM + PVDF + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | N/A |
| 16 (15A~30A) | DIAPHRAGM COVER PLATE | SUS 304 |
| 16 (40A~50A) | INSERTED NUT | BC |
| 17 | SUS PLATE | N/A |
| 18 | O-RING(A) | EPDM FPM |
| 19 | GLAND CAP | PP / PVDF / PVC / CPVC |
| 20 | END CONNECTOR | PP / PVDF / PVC / CPVC |



DETAIL "DIAPHRAGM"

THERMO PLASTIC VALVES



PP&PVDF

JIS

| Size | Parts | L | H | JIS B 0203 | MAX Working Pressure (kgf/cm ²) |
|------|-------|-----|-----|------------|---|
| | | | | A | |
| 15 | | 140 | 95 | PT 1/2" | 7.5 |
| 20 | | 158 | 100 | PT 3/4" | 7.5 |
| 25 | | 180 | 110 | PT 1" | 7.5 |
| 40 | | 267 | 195 | PT 1 1/2" | 7.5 |
| 50 | | 310 | 210 | PT 2" | 7.5 |

unit : mm

PVC&CPVC

JIS

| Size | Parts | L | H | JIS B 0203 | MAX Working Pressure (kgf/cm ²) |
|------|-------|-----|-----|------------|---|
| | | | | A | |
| 15 | | 141 | 95 | PT 1/2" | 7.5 |
| 20 | | 159 | 100 | PT 3/4" | 7.5 |
| 25 | | 182 | 110 | PT 1" | 7.5 |
| 40 | | 270 | 195 | PT 1 1/2" | 7.5 |
| 50 | | 310 | 210 | PT 2" | 7.5 |

unit : mm

ANSI

| Size | Parts | L | H | ANSI/ASME B1.20.1 | MAX Working Pressure (kgf/cm ²) |
|------|-------|-------|------|-------------------|---|
| | | | | A | |
| 15 | | 5.55 | 3.74 | NPT 1/2" | 7.5 |
| 20 | | 6.26 | 3.94 | NPT 3/4" | 7.5 |
| 25 | | 7.17 | 4.33 | NPT 1" | 7.5 |
| 30 | | 7.28 | 5.69 | NPT 1 1/4" | 7.5 |
| 40 | | 10.63 | 7.68 | NPT 1 1/2" | 7.5 |
| 50 | | 12.20 | 8.27 | NPT 2" | 7.5 |

unit : inch

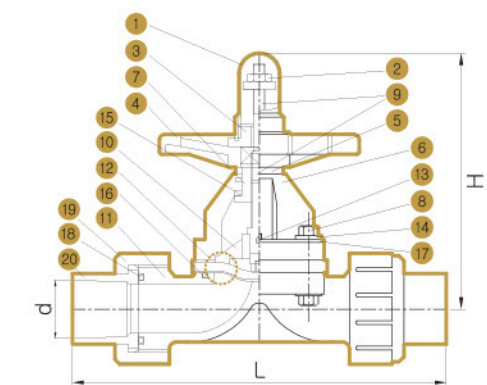
True Union Diaphragm Valves

Socket Type

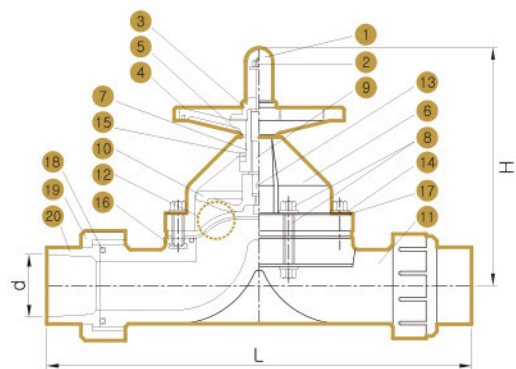
- Material – Body : PVC, C-PVC, PP, PVDF
- Material – Bonnet : PVC, C-PVC, PP, PVDF
- Size : 15mm - 50mm, $\frac{1}{2}$ " - 2"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM, PTFE/PVDF/EPDM
- Connections : Socket

Special Features

- Up-and-Down Operation Method Allows Rate of Flow Control
- Excellent Durability and Convenient Handle Operation
- Superb Performance on Sludge or Slimy Liquid Line
- Installed Union for Simple Replacement Process
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable
- Available to Control the Rate of Flow
- Various Connections (Flange, Thread, Socket)
- Actuator Installation Capable

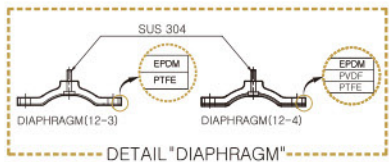


15A~30A



15A~30A

| NO | PARTS | MATERIALS |
|--------------|-----------------------|-----------------------------|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUTS | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HAND WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP / PVDF / PVC / CPVC |
| 7 | SLEEVE | BC |
| 8 | BOLT & NUT | SS41 (PP COATED) SUS 304 |
| 9 | STEM + STUD BOLT UNIT | BC |
| 10 | COMPRESSOR | AL |
| 11 | BODY | PP / PVDF / PVC / CPVC |
| 12-1 | DIAPHRAGM | EPDM |
| 12-2 | | FPM |
| 12-3 | | EPDM + PTFE |
| 12-4 | | EPDM + PVDF + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | N/A |
| 16 (15A~30A) | DIAPHRAGM COVER PLATE | SUS 304 |
| 16 (40A~50A) | INSERTED NUT | BC |
| 17 | SUS PLATE | SUS 304 N/A |
| 18 | O-RING(A) | EPDM FPM |
| 19 | GLAND CAP | PP / PVDF / PVC / CPVC |
| 20 | END CONNECTOR | PP / PVDF / PVC / CPVC |



DETAIL "DIAPHRAGM"

PP&PVDF

JIS

| unit : mm | | | | |
|-----------|------|-----|-----|--|
| Parts | d | L | H | MAX Working Pressure (kg/cm ²) |
| Size | | | | |
| 15 | 22.4 | 150 | 95 | 7.5 |
| 20 | 26.9 | 168 | 100 | 7.5 |
| 25 | 32.4 | 203 | 110 | 7.5 |
| 40 | 48.4 | 285 | 195 | 7.5 |
| 50 | 60.4 | 323 | 210 | 7.5 |

PVC&CPVC

JIS

| unit : mm | | | | |
|-----------|------|-----|-----|--|
| Parts | d | L | H | MAX Working Pressure (kg/cm ²) |
| Size | | | | |
| 15 | 22.4 | 152 | 95 | 7.5 |
| 20 | 26.4 | 170 | 100 | 7.5 |
| 25 | 32.4 | 203 | 110 | 7.5 |
| 40 | 48.4 | 288 | 195 | 7.5 |
| 50 | 60.4 | 330 | 210 | 7.5 |

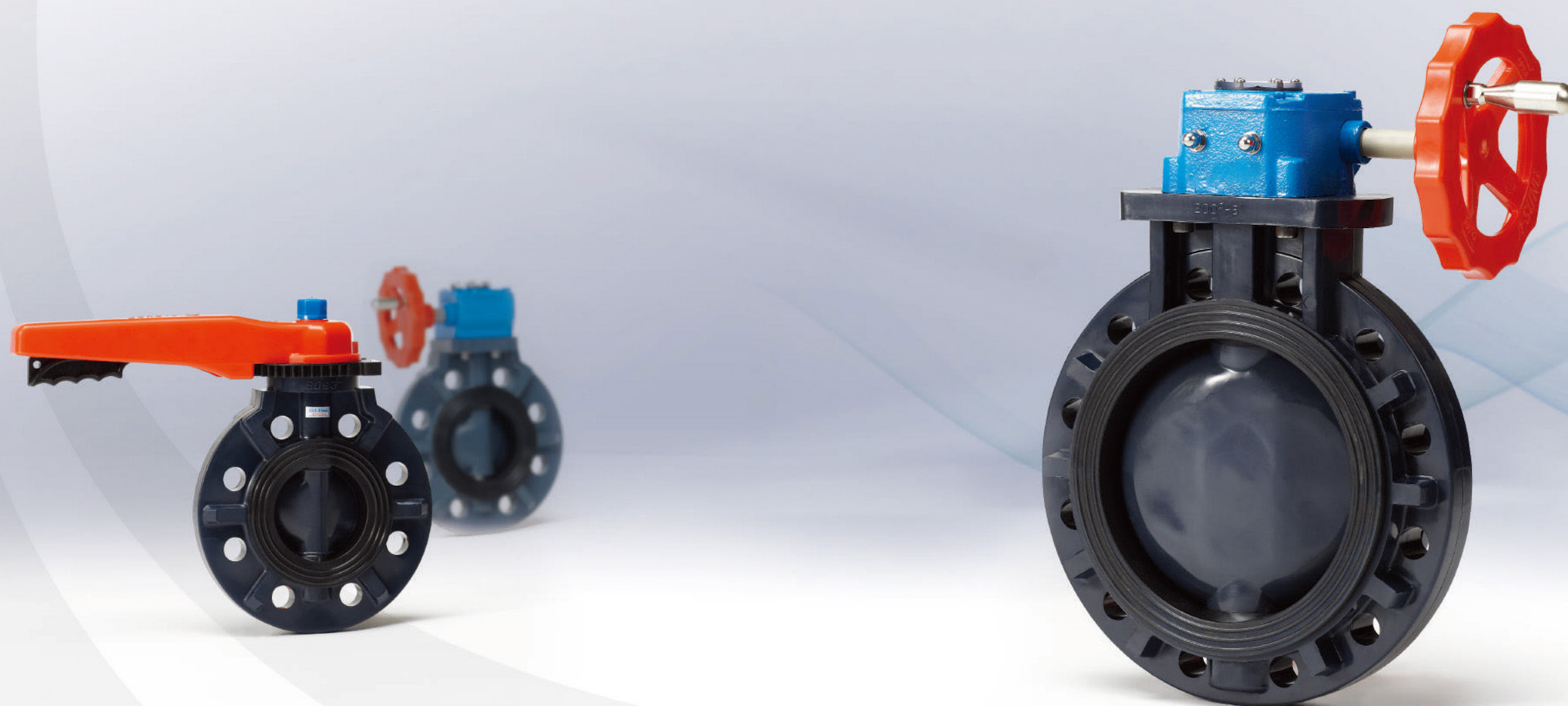
ANSI

| unit : inch | | | | |
|-------------|-------|-------|------|--|
| Parts | d | L | H | MAX Working Pressure (kg/cm ²) |
| Size | | | | |
| 15 | 0.848 | 5.98 | 3.74 | 7.5 |
| 20 | 1.058 | 6.69 | 3.94 | 7.5 |
| 25 | 1.325 | 7.99 | 4.33 | 7.5 |
| 30 | 1.670 | 7.99 | 5.69 | 7.5 |
| 40 | 1.912 | 11.34 | 7.68 | 7.5 |
| 50 | 2.387 | 12.99 | 8.27 | 7.5 |



Butterfly Valves

Thermo Plastic Valves



Butterfly Valves

Lever Type

- Material

: Body/Disc
PP/PP, PP/C-PVC,
PP/PVDF, PVDF/PVDF
- Size

: 1½" - 6" Lever Handle
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- Seat

: EPDM or FPM
- Connections

: ANSI 150 Flanged
JIS 10kgf/cm²

Special Features

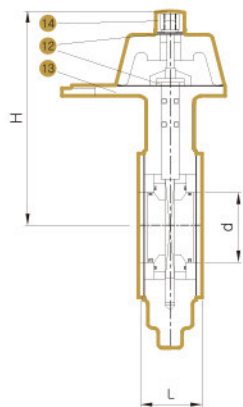
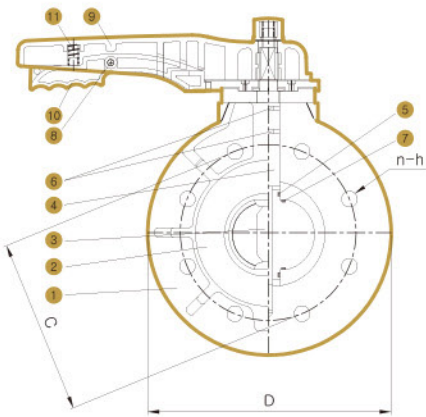
- Designed to Install in Confined Space Easily

· Fluid Passage and Pipe are Aligned to Stabilize the Flow Rate and Pressure

· Designed to Minimize the DISC Flow Loss
- Lever (Small,Medium Caliber), Gear (Small, Medium, Large) Type Operator Installed

· Size Available Upto 600mm, 24"

· Actuator Installation Capable



| NO | PARTS | MATERIALS |
|----|------------------|---|
| 1 | BODY | PP / PVDF / CLEAN PVC |
| 2 | SEAT | EPDM |
| 3 | DISC | PP / PVDF / PVC / CPVC / CLEAN PVC |
| 4 | STEM | 40A~100A : SUS 410 125A~150A : SCM4 (PP/PVDF/CLEAN PVC COATED) |
| 5 | DISC SIDE O-RING | EPDM |
| 6 | STEM O-RING | EPDM |
| 7 | DISC FACE O-RING | FPM |
| 8 | SET PIN | PP |
| 9 | HANDLE | PP |
| 10 | LEVER | PPG |
| 11 | SPRING | SUS 304 |
| 12 | WASHER | SUS 304 |
| 13 | GEAR PLATE | PPG (SUS SCREW BOLT FIXED) |
| 14 | NUT | SS41 (PP COATED) |

PP&CPVC&PVDF

| JIS | | unit : mm | | | | | |
|-------|------|-----------|----|-----|---------|------|-------------------------------|
| Parts | Size | d | L | D | JIS 10K | | MAX Working Pressure (kg/cm²) |
| | | | | | C | n-h | H |
| | 40 | 49 | 39 | 150 | 105 | 4-19 | 163 |
| | 50 | 58 | 42 | 165 | 120 | 4-19 | 165 |
| | 65 | 69 | 47 | 185 | 140 | 4-19 | 180 |
| | 80 | 79 | 45 | 200 | 150 | 8-19 | 185 |
| | 100 | 101 | 56 | 229 | 175 | 8-19 | 206 |
| | 125 | 129 | 66 | 254 | 210 | 8-23 | 262 |
| | 150 | 150 | 73 | 285 | 240 | 8-23 | 281 |

| ANSI | | unit : inch | | | | | |
|-------|------|-------------|------|-------|----------------|--------|-------------------------------|
| Parts | Size | d | L | D | ANSI CLASS 150 | | MAX Working Pressure (kg/cm²) |
| | | | | | C | n-h | H |
| | 40 | 1.93 | 1.54 | 5.91 | 3.88 | 4-0.63 | 6.42 |
| | 50 | 2.28 | 1.65 | 6.50 | 4.75 | 4-0.75 | 6.50 |
| | 65 | 2.72 | 1.85 | 7.28 | 5.50 | 4-0.75 | 7.09 |
| | 80 | 3.11 | 1.77 | 7.87 | 6.00 | 4-0.75 | 7.28 |
| | 100 | 3.98 | 2.20 | 9.02 | 7.50 | 8-0.75 | 8.11 |
| | 125 | 5.08 | 2.60 | 10.00 | 8.50 | 8-0.87 | 10.31 |
| | 150 | 5.91 | 2.87 | 11.22 | 9.50 | 8-0.87 | 11.06 |



Butterfly Valves

Gear Type

- Material

: Body/Disc
PP/PP, PP/CPVC,
PP/PVDF, PVDF/PVDF
- Size

: 1½"-24" Gear Box
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- Seat

: EPDM or FPM
- Connections

: ANSI 150 Flanged
JIS 10kgf/cm²

Special Features

- Designed to Install in Confined Space Easily

· Fluid Passage and Pipe are Aligned to Stabilize the Flow Rate and Pressure

· Designed to Minimize the DISC Flow Loss

· Lever (Small,Medium Caliber), Gear (Small, Medium, Large) Type Operator Installed
- Size Available Upto 600mm, 24"

· Actuator Installation Capable

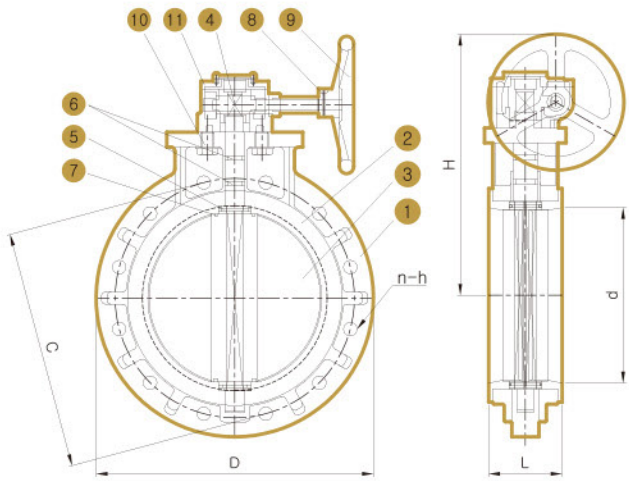
· Produced in Standard Pressure and High Pressure Separately

PP&PVDF

JIS

unit : mm

| <div>Parts</div> <div>Size</div> | | d | L | D | JIS 10K | | H | PRESSURE OPTION | |
|----------------------------------|-----|-----|-----|-----|---------|-----|-----|--|------------------------|
| | | | | | C | n-h | | MAX Working Pressure (kg/cm ²) | |
| | | | | | | | | NORMAL PRESSURE (일반용) | HIGH PRESSURE (고압용) |
| | | | | | | | | | |
| 40 | 49 | 39 | 150 | 105 | 4-19 | 170 | 10 | 10 | |
| 50 | 58 | 42 | 165 | 140 | 4-19 | 190 | 10 | 10 | |
| 65 | 69 | 47 | 185 | 140 | 4-19 | 190 | 10 | 10 | |
| 80 | 79 | 45 | 200 | 150 | 8-19 | 190 | 10 | 10 | |
| 100 | 101 | 56 | 229 | 175 | 8-19 | 250 | 10 | 10 | |
| 125 | 129 | 66 | 254 | 210 | 8-23 | 270 | 10 | 10 | |
| 150 | 150 | 73 | 285 | 240 | 8-23 | 280 | 10 | 10 | |
| 200 | 208 | 94 | 340 | 290 | 12-23 | 350 | 7.5 | 10 | |
| 250 | 256 | 111 | 413 | 355 | 12-25 | 380 | 7.5 | 10 | |
| 300 | 315 | 131 | 495 | 400 | 16-25 | 460 | 5 | 8 | |
| 350 | 351 | 134 | 522 | 445 | 16-25 | 480 | 3 | 8 | |
| 400 | 400 | 172 | 600 | 510 | 16-27 | 530 | 3 | 7 | |
| 450 | 452 | 179 | 630 | 565 | 20-27 | 630 | 3 | 6 | |
| 500 | 502 | 193 | 699 | 620 | 20-27 | 660 | 3 | 5 | |
| 600 | 604 | 209 | 813 | 730 | 24-33 | 690 | 3 | 5 | |



| NO | PARTS | MATERIALS |
|----|---------------------|---|
| 1 | BODY | PP / PVDF / CLEAN PVC |
| 2 | SEAT | EPDM FPM |
| 3 | DISC | PP / PVDF / PVC / CPVC / CLEAN PVC |
| 4 | STEM | 40~150A = SUS 410 200~500A = SCM4 (PP/PVDF/CLEAN PVC COATED) 600A = SUS 410 |
| 5 | DISC SIDE O-RING | EPDM FPM |
| 6 | STEM O-RING | EPDM FPM |
| 7 | DISC FACE O-RING | EPDM FPM |
| 8 | SET PIN | SCM |
| 9 | HAND WHEEL | PP (S45C INSERTED) |
| 10 | BOLT | 40A~250A=SS41(PP/PVDF/CLEAN PVC COATED) 300A~600A=SUS 304 |
| 11 | GEAR BOX | 40A~250A = ABS 300A~600A = FC |

ANSI

| ANSI | | | | | | | unit : inch | | |
|-------|----------------|------|-------|-------|----------------|-------|-------------|-------------------------------|------------------------|
| Parts | | d | L | D | ANSI CLASS 150 | | H | PRESSURE OPTION | |
| Size | ANSI CLASS 150 | | | | C | n-h | | MAX Working Pressure (kg/cm²) | |
| | | | | | | | | NORMAL PRESSURE (일반용) | HIGH PRESSURE (고압용) |
| 40 | 1.93 | 1.54 | 5.91 | 3.88 | 4-0.63 | 6.69 | 10 | 10 | |
| 50 | 2.28 | 1.65 | 6.50 | 4.75 | 4-0.75 | 7.09 | 10 | 10 | |
| 65 | 2.72 | 1.85 | 7.28 | 5.50 | 4-0.75 | 7.48 | 10 | 10 | |
| 80 | 3.11 | 1.77 | 7.87 | 6.00 | 4-0.75 | 7.48 | 10 | 10 | |
| 100 | 3.98 | 2.20 | 9.02 | 7.50 | 8-0.75 | 9.84 | 10 | 10 | |
| 125 | 5.08 | 2.60 | 10.00 | 8.50 | 8-0.87 | 10.63 | 10 | 10 | |
| 150 | 5.91 | 2.87 | 11.22 | 9.50 | 8-0.87 | 11.02 | 10 | 10 | |
| 200 | 8.19 | 3.70 | 13.39 | 11.75 | 8-0.87 | 13.78 | 7.5 | 10 | |
| 250 | 10.08 | 4.37 | 16.26 | 14.25 | 12-0.98 | 14.96 | 7.5 | 10 | |
| 300 | 12.40 | 5.16 | 19.49 | 17.00 | 12-0.98 | 18.11 | 5 | 8 | |
| 350 | 13.82 | 5.28 | 20.55 | 18.75 | 12-1.10 | 18.90 | 3 | 8 | |
| 400 | 15.75 | 6.77 | 23.62 | 21.25 | 16-1.10 | 20.87 | 3 | 7 | |
| 450 | 17.80 | 7.05 | 24.80 | 22.75 | 16-1.26 | 24.80 | 3 | 6 | |
| 500 | 19.76 | 7.60 | 27.52 | 25.00 | 16-1.26 | 25.98 | 3 | 5 | |
| 600 | 23.78 | 8.23 | 32.01 | 29.50 | 20-1.38 | 27.17 | 3 | 5 | |

Check & Foot Valves

Thermo Plastic Valves



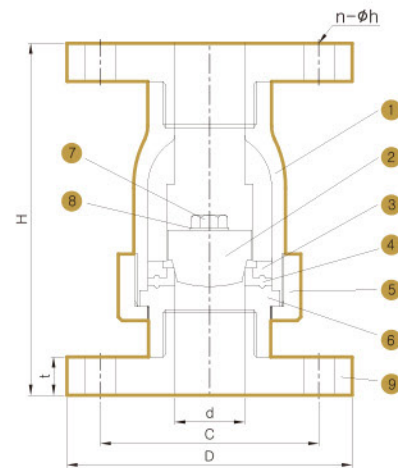
Check Valves

Flange Type

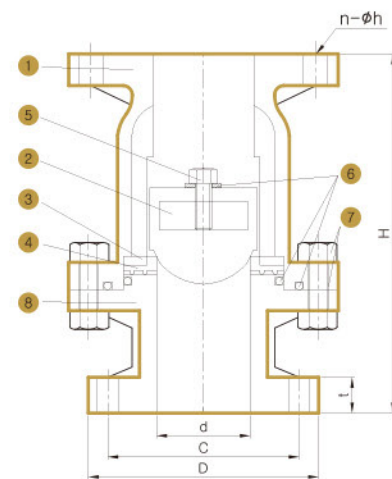
- Material : PVC, C-PVC, PP, PVDF
- Size : 15mm - 300mm, $\frac{1}{2}$ " - 12"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- Vertical Pipe Exclusive
- Optimized Disc Design
- Excellent Backdraft Prevention by Gravity Operation System
- Please Install According to Fluid Direction



15A~50A



65A~200A

| NO | PARTS | MATERIALS |
|----|-----------------|-------------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | DISC | S45C(PP/PVDF/PVC/CPVC COATED) |
| 3 | STOP RING | PP/PVDF/PVC/CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 6 | END CONNECTOR 1 | PP/PVDF/PVC/CPVC |
| 7 | BOLT | PP/PVDF/PVC/CPVC |
| 8 | O-RING | EPDM FPM |
| 9 | END CONNECTOR 2 | PP/PVDF/PVC/CPVC |

| NO | PARTS | MATERIALS |
|----|---------------|-------------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | DISC | S45C(PP/PVDF/PVC/CPVC COATED) |
| 3 | STOP RING | PP/PVDF/PVC/CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | BOLT | PP/PVDF/PVC/CPVC |
| 6 | O-RING | EPDM FPM |
| 7 | BOLT & NUT | SS41 (PP COATED) SUS 304 |
| 8 | END CONNECTOR | PP/PVDF/PVC/CPVC |

PVC&CPVC

JIS

| Parts Size | d | t | h | JIS 10K | | | MAX Working Pressure (kg/cm ²) |
|---------------|-----|------|-----|---------|-----|-------|---|
| | | | | D | C | n-h | |
| 15 | 15 | 14 | 111 | 95 | 70 | 4-15 | 7.5 |
| 20 | 20 | 15 | 133 | 100 | 75 | 4-15 | 7.5 |
| 25 | 25 | 15 | 169 | 125 | 90 | 4-19 | 7.5 |
| 30 | 30 | 15.5 | 176 | 135 | 100 | 4-19 | 7.5 |
| 40 | 40 | 16 | 178 | 140 | 105 | 4-19 | 7.5 |
| 50 | 50 | 21 | 226 | 155 | 120 | 4-19 | 7.5 |
| 65 | 65 | 20 | 228 | 175 | 140 | 4-19 | 7.5 |
| 80 | 75 | 22 | 244 | 185 | 150 | 8-19 | 7.5 |
| 100 | 100 | 23 | 298 | 210 | 175 | 8-19 | 7.5 |
| 125 | 125 | 24 | 335 | 250 | 210 | 8-23 | 5 |
| 150 | 150 | 25 | 394 | 280 | 240 | 8-23 | 5 |
| 200 | 202 | 29 | 446 | 330 | 290 | 12-23 | 5 |

unit : mm

ANSI

| Parts Size | d | t | h | ANSI CLASS 150 | | | MAX Working Pressure (kg/cm ²) |
|---------------|------|------|-------|----------------|-------|--------|---|
| | | | | D | C | n-h | |
| 15 | 0.59 | 0.51 | 4.17 | 3.50 | 2.38 | 4-0.63 | 7.5 |
| 20 | 0.79 | 0.59 | 5.04 | 3.88 | 2.75 | 4-0.63 | 7.5 |
| 25 | 0.98 | 0.59 | 6.42 | 4.25 | 3.12 | 4-0.63 | 7.5 |
| 30 | 0.98 | 0.61 | 6.54 | 4.62 | 3.50 | 4-0.63 | 7.5 |
| 40 | 1.57 | 0.63 | 6.81 | 5.00 | 3.88 | 4-0.63 | 7.5 |
| 50 | 1.97 | 0.83 | 8.66 | 6.00 | 4.75 | 4-0.75 | 7.5 |
| 65 | 2.56 | 0.79 | 8.98 | 7.00 | 5.50 | 4-0.75 | 7.5 |
| 80 | 2.95 | 0.87 | 9.61 | 7.50 | 6.00 | 4-0.75 | 7.5 |
| 100 | 3.94 | 0.93 | 11.73 | 9.00 | 7.50 | 8-0.75 | 7.5 |
| 125 | 4.92 | 0.94 | 13.19 | 10.00 | 8.50 | 8-0.87 | 5 |
| 150 | 5.91 | 0.98 | 15.51 | 11.00 | 9.50 | 8-0.87 | 5 |
| 200 | 7.95 | 1.14 | 17.56 | 13.50 | 11.75 | 8-0.87 | 5 |

unit : inch

Check Valves

Flange Type

- Material

: PVC, C-PVC, PP, PVDF
- Size

: 15mm - 300mm, ½" - 12"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- O-Ring

: EPDM or FPM
- Connections

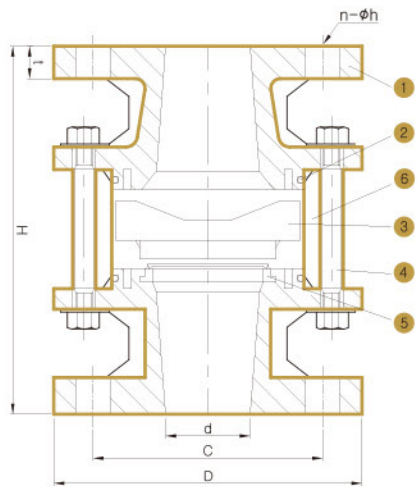
: ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- Vertical Pipe Exclusive

· Excellent Backdraft Prevention by Gravity Operation System
- Optimized Disc Design

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|-----------------|-----------|
| 1 | FLANGE | PP |
| 2 | O-RING | EPDM |
| 3 | LIFT | PVC |
| 4 | STUD BOLT & NUT | SUS 304 |
| 5 | SEAT | EPDM |
| 6 | BODY | PP |

250A~300A

PP&PVDF

JIS

| Parts Size | d | t | h | JIS 10K | | | unit : mm MAX Working Pressure (kg/cm²) |
|---------------|-----|----|-----|---------|-----|-------|--|
| | | | | D | C | n-h | |
| 15 | 15 | 13 | 106 | 95 | 70 | 4-15 | 7.5 |
| 20 | 20 | 15 | 128 | 100 | 75 | 4-15 | 7.5 |
| 25 | 25 | 15 | 163 | 125 | 90 | 4-19 | 7.5 |
| 30 | 30 | 16 | 173 | 135 | 100 | 4-19 | 7.5 |
| 40 | 40 | 16 | 173 | 140 | 105 | 4-19 | 7.5 |
| 50 | 50 | 21 | 220 | 155 | 120 | 4-19 | 7.5 |
| 65 | 65 | 20 | 224 | 175 | 140 | 4-19 | 7.5 |
| 80 | 75 | 23 | 240 | 185 | 150 | 8-19 | 7.5 |
| 100 | 100 | 24 | 296 | 210 | 175 | 8-19 | 7.5 |
| 125 | 125 | 24 | 330 | 250 | 210 | 8-23 | 5 |
| 150 | 150 | 25 | 385 | 280 | 240 | 8-23 | 5 |
| 200 | 202 | 29 | 446 | 330 | 290 | 12-23 | 5 |
| 250 | 252 | 30 | 462 | 400 | 355 | 12-25 | 5 |
| 300 | 300 | 34 | 500 | 445 | 400 | 16-25 | 5 |

ANSI

| Parts Size | d | t | h | ANSI CLASS 150 | | | unit : inch MAX Working Pressure (kg/cm²) |
|---------------|------|------|-------|----------------|-------|--------|--|
| | | | | D | C | n-h | |
| 15 | 0.59 | 0.51 | 4.17 | 3.50 | 2.38 | 4-0.63 | 7.5 |
| 20 | 0.79 | 0.59 | 5.04 | 3.88 | 2.75 | 4-0.63 | 7.5 |
| 25 | 0.98 | 0.59 | 6.42 | 4.25 | 3.12 | 4-0.63 | 7.5 |
| 30 | 0.98 | 0.61 | 6.54 | 4.62 | 3.50 | 4-0.63 | 7.5 |
| 40 | 1.57 | 0.63 | 6.81 | 5.00 | 3.88 | 4-0.63 | 7.5 |
| 50 | 1.97 | 0.83 | 8.66 | 6.00 | 4.75 | 4-0.75 | 7.5 |
| 65 | 2.56 | 0.79 | 8.82 | 7.00 | 5.50 | 4-0.75 | 7.5 |
| 80 | 2.95 | 0.91 | 9.45 | 7.50 | 6.00 | 4-0.75 | 7.5 |
| 100 | 3.94 | 0.94 | 11.65 | 9.00 | 7.50 | 8-0.75 | 7.5 |
| 125 | 4.92 | 0.94 | 12.99 | 10.00 | 8.50 | 8-0.87 | 5 |
| 150 | 5.91 | 0.98 | 15.16 | 11.00 | 9.50 | 8-0.87 | 5 |
| 200 | 7.95 | 1.14 | 17.56 | 13.50 | 11.75 | 8-0.87 | 5 |

Check Valves

Thread Type

- Material

: PVC, C-PVC, PP, PVDF
- Size

: ½"-2"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- O-Ring

: EPDM or FPM
- Connections

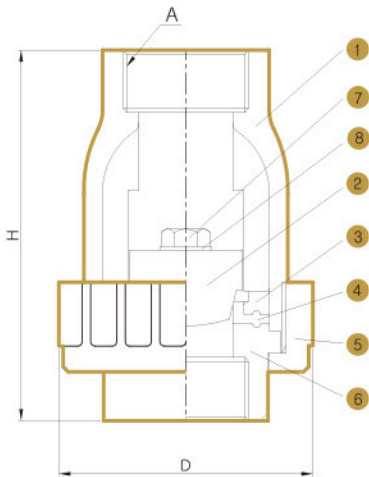
: PT Thread

Special Features

- Vertical Pipe Exclusive

· Excellent Backdraft Prevention by Gravity Operation System
- Optimized Disc Design

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|---------------|--------------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | DISC | S45C (PP/PVDF/PVC/CPVC COATED) |
| 3 | STOP RING | PP/PVDF/PVC/CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 6 | END CONNECTOR | PP/PVDF/PVC/CPVC |
| 7 | BOLT | PP/PVDF/PVC/CPVC |
| 8 | O-RING | EPDM FPM |



PP&PVDF

| JIS | | | | | unit : mm |
|------|-------|-----|-----|-----------------|----------------------------------|
| Size | Parts | H | D | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 15 | | 81 | 48 | PT 1/2" | 7.5 |
| 20 | | 100 | 62 | PT 3/4" | 7.5 |
| 25 | | 134 | 80 | PT 1" | 7.5 |
| 40 | | 141 | 97 | PT 1 1/2" | 7.5 |
| 50 | | 178 | 119 | PT 2" | 7.5 |

PVC&CPVC

| JIS | | | | | unit : mm |
|------|-------|-----|-----|-----------------|----------------------------------|
| Size | Parts | H | D | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 15 | | 83 | 49 | PT 1/2" | 7.5 |
| 20 | | 101 | 62 | PT 3/4" | 7.5 |
| 25 | | 137 | 80 | PT 1" | 7.5 |
| 40 | | 144 | 98 | PT 1 1/2" | 7.5 |
| 50 | | 182 | 120 | PT 2" | 7.5 |

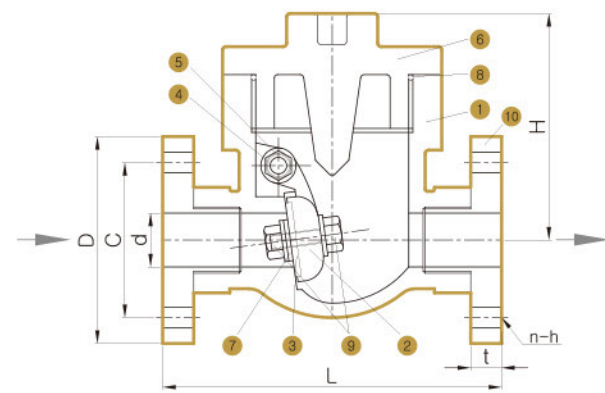
Swing Check Valves

Flange Type

- Material : PVC, C-PVC, PP, PVDF
- Size : 15mm - 300mm, $\frac{1}{2}$ " - 12"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

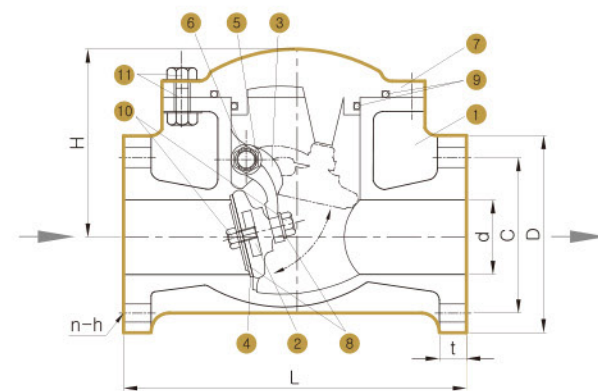
Special Features

- Applicable to Vertical and Horizontal Pipe
- Optimized Disc Design
- Backdraft Prevention Under Low Pressure
- Fluid Passage and Pipe are Aligned to Stabilize the Flow Rate and Pressure
- Please Install According to Fluid Direction



20A~25A

| NO | PARTS | MATERIALS |
|----|-------------------|-------------------------------------|
| 1 | BODY | PP / PVDF / PVC / CPVC |
| 2 | DISC & SWING ARM | S45C(PP / PVDF / PVC / CPVC COATED) |
| 3 | SEAT | EPDM FPM |
| 4 | SHAFT & BOLT | PP / PVDF / PVC / CPVC |
| 5 | O-RING | EPDM FPM |
| 6 | BONNET | PP / PVDF / PVC / CPVC |
| 7 | SEAT SUPPORT | EPDM FPM |
| 8 | BONNET O-RING | EPDM FPM |
| 9 | HOLDER BOLT & NUT | PP / PVDF / PVC / CPVC |
| 10 | FLANGE | PP / PVDF / PVC / CPVC |



30A~100A

| NO | PARTS | MATERIALS |
|----|-------------------|-------------------------------------|
| 1 | BODY | PP / PVDF / PVC / CPVC |
| 2 | DISC | S45C(PP / PVDF / PVC / CPVC COATED) |
| 3 | SWING ARM | PP / PVDF / PVC / CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | SHAFT & BOLT | PP / PVDF / PVC / CPVC |
| 6 | O-RING | EPDM FPM |
| 7 | BONNET | PP / PVDF / PVC / CPVC |
| 8 | SEAT SUPPORT | PP / PVDF / PVC / CPVC |
| 9 | BONNET O-RING | EPDM FPM |
| 10 | HOLDER BOLT & NUT | PP / PVDF / PVC / CPVC |
| 11 | BOLT & NUT | SS41 (PP COATED) SUS 304 |

PP&PVDF

JIS

| Parts Size | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm ²) |
|---------------|-----|-----|----|---------|-----|-------|-----|---|
| | | | | D | C | n-h | | |
| 20 | 20 | 140 | 15 | 100 | 75 | 4-15 | 90 | 7.5 |
| 25 | 25 | 158 | 15 | 125 | 90 | 4-19 | 120 | 7.5 |
| 30 | 40 | 180 | 18 | 135 | 100 | 4-19 | 138 | 7.5 |
| 40 | 40 | 180 | 18 | 140 | 105 | 4-19 | 138 | 7.5 |
| 50 | 50 | 200 | 21 | 155 | 120 | 4-19 | 164 | 7.5 |
| 65 | 65 | 240 | 23 | 175 | 140 | 4-19 | 168 | 7.5 |
| 80 | 80 | 259 | 25 | 185 | 150 | 8-19 | 171 | 7.5 |
| 100 | 100 | 300 | 25 | 210 | 175 | 8-19 | 213 | 5 |
| 125 | 125 | 352 | 28 | 250 | 210 | 8-23 | 248 | 5 |
| 150 | 150 | 405 | 29 | 280 | 240 | 8-23 | 283 | 5 |
| 200 | 202 | 500 | 34 | 330 | 290 | 12-23 | 360 | 5 |
| 250 | 250 | 598 | 38 | 400 | 355 | 12-25 | 370 | 5 |

unit : mm

ANSI

| Parts Size | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm ²) |
|---------------|------|-------|------|----------------|-------|---------|-------|---|
| | | | | D | C | n-h | | |
| 20 | 0.79 | 5.51 | 0.59 | 3.88 | 2.75 | 4-0.63 | 3.54 | 7.5 |
| 25 | 0.98 | 6.22 | 0.59 | 4.25 | 3.12 | 4-0.63 | 4.72 | 7.5 |
| 30 | 1.57 | 7.09 | 0.71 | 4.62 | 3.50 | 4-0.63 | 5.43 | 7.5 |
| 40 | 1.57 | 7.09 | 0.71 | 5.00 | 3.88 | 4-0.63 | 5.43 | 7.5 |
| 50 | 1.97 | 7.87 | 0.83 | 6.00 | 4.75 | 4-0.75 | 6.46 | 7.5 |
| 65 | 2.56 | 9.45 | 0.91 | 7.00 | 5.50 | 4-0.75 | 6.61 | 7.5 |
| 80 | 3.15 | 10.20 | 0.98 | 7.50 | 6.00 | 4-0.75 | 6.73 | 7.5 |
| 100 | 3.94 | 12.01 | 0.98 | 9.00 | 7.50 | 8-0.75 | 8.39 | 5 |
| 125 | 4.92 | 13.90 | 1.10 | 10.0 | 8.50 | 8-0.87 | 9.76 | 5 |
| 150 | 5.91 | 15.91 | 1.14 | 11.0 | 9.50 | 8-0.87 | 11.14 | 5 |
| 200 | 7.95 | 19.69 | 1.34 | 13.5 | 11.75 | 8-0.87 | 14.17 | 5 |
| 250 | 9.84 | 23.54 | 1.50 | 15.75 | 13.98 | 12-0.98 | 14.57 | 5 |

unit : inch

Swing Check Valves

Flange Type

- Material : PVC, C-PVC, PP, PVDF

· Size : 15mm - 300mm, ½" - 12"

· Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM

· Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

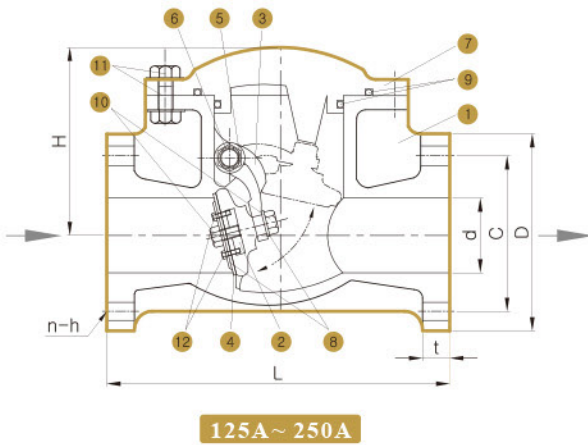
Special Features

- Applicable to Vertical and Horizontal Pipe

· Optimized Disc Design

· Backdraft Prevention Under Low Pressure
- Fluid Passage and Pipe are Aligned to Stabilize the Flow Rate and Pressure

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|-------------------|--------------------------------------|
| 1 | BODY | PP / PVDF / PVC / CPVC |
| 2 | DISC | S45C (PP / PVDF / PVC / CPVC COATED) |
| 3 | SWING ARM | PP / PVDF / PVC / CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | SHAFT & BOLT | PP / PVDF / PVC / CPVC |
| 6 | O-RING | EPDM FPM |
| 7 | BONNET | PP / PVDF / PVC / CPVC |
| 8 | SEAT SUPPORT | PP / PVDF / PVC / CPVC |
| 9 | BONNET O-RING | EPDM FPM |
| 10 | HOLDER BOLT & NUT | PP / PVDF / PVC / CPVC |
| 11 | BOLT & NUT | SS41 (PP COATED) SUS 304 |
| 12 | BOLT | SS41 (PP COATED) |



PVC&CPVC

JIS

| Parts Size | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) |
|---------------|-----|-----|----|---------|-----|-------|-----|-------------------------------|
| | | | | D | C | n-h | | |
| 20 | 20 | 140 | 15 | 100 | 75 | 4-15 | 90 | 7.5 |
| 25 | 25 | 158 | 15 | 125 | 90 | 4-19 | 120 | 7.5 |
| 30 | 40 | 185 | 18 | 135 | 100 | 4-19 | 138 | 7.5 |
| 40 | 40 | 185 | 18 | 140 | 105 | 4-19 | 138 | 7.5 |
| 50 | 50 | 203 | 21 | 155 | 120 | 4-19 | 164 | 7.5 |
| 65 | 65 | 245 | 23 | 175 | 140 | 4-19 | 168 | 7.5 |
| 80 | 80 | 263 | 24 | 185 | 150 | 8-19 | 171 | 7.5 |
| 100 | 100 | 305 | 25 | 210 | 175 | 8-19 | 213 | 5 |
| 125 | 125 | 355 | 28 | 250 | 210 | 8-23 | 248 | 5 |
| 150 | 150 | 405 | 29 | 280 | 240 | 8-23 | 283 | 5 |
| 200 | 202 | 500 | 34 | 330 | 290 | 12-23 | 360 | 5 |
| 250 | 250 | 598 | 38 | 400 | 355 | 12-25 | 370 | 5 |

ANSI

| Parts Size | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm²) |
|---------------|------|-------|------|----------------|-------|---------|-------|-------------------------------|
| | | | | D | C | n-h | | |
| 20 | 0.79 | 5.51 | 0.59 | 3.88 | 2.75 | 4-0.63 | 3.54 | 7.5 |
| 25 | 0.98 | 6.38 | 0.59 | 4.25 | 3.12 | 4-0.63 | 4.72 | 7.5 |
| 30 | 1.57 | 7.28 | 0.71 | 4.62 | 3.50 | 4-0.63 | 5.43 | 7.5 |
| 40 | 1.57 | 7.28 | 0.71 | 5.00 | 3.88 | 4-0.63 | 5.43 | 7.5 |
| 50 | 1.97 | 7.99 | 0.83 | 6.00 | 4.75 | 4-0.75 | 6.46 | 7.5 |
| 65 | 2.56 | 9.65 | 0.91 | 7.00 | 5.50 | 4-0.75 | 6.61 | 7.5 |
| 80 | 3.15 | 10.35 | 0.94 | 7.50 | 6.00 | 4-0.75 | 6.73 | 7.5 |
| 100 | 3.94 | 12.01 | 0.98 | 9.00 | 7.50 | 8-0.75 | 8.39 | 5 |
| 125 | 4.92 | 13.98 | 1.10 | 10.0 | 8.50 | 8-0.87 | 9.76 | 5 |
| 150 | 5.91 | 15.94 | 1.14 | 11.0 | 9.50 | 8-0.87 | 11.14 | 5 |
| 200 | 7.95 | 19.69 | 1.34 | 13.5 | 11.75 | 8-0.87 | 14.17 | 5 |
| 250 | 9.84 | 23.54 | 1.50 | 15.75 | 13.98 | 12-0.98 | 14.57 | 5 |

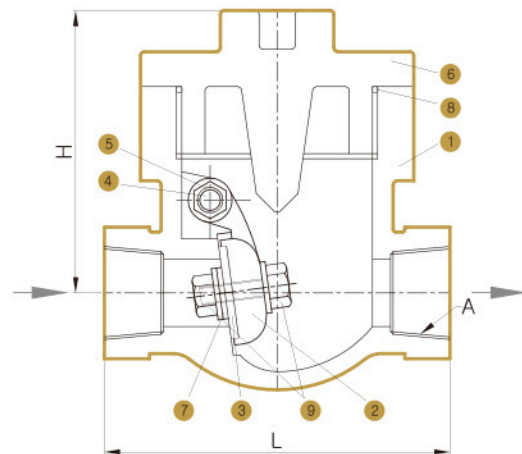
Swing Check Valves

Thread Type

- Material : PVC, C-PVC, PP, PVDF
- Size : 20mm - 25mm, ¾" - 1"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Connections : PT Thread

Special Features

- Applicable to Vertical and Horizontal Pipe
- Optimized Disc Design
- Backdraft Prevention Under Low Pressure
- Fluid Passage and Pipe are Aligned to Stabilize the Flow Rate and Pressure
- Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|-------------------|------------------------|
| 1 | BODY | PP / PVDF / PVC / CPVC |
| 2 | DISC & SWING ARM | PP / PVDF / PVC / CPVC |
| 3 | SEAT | EPDM FPM |
| 4 | SHAFT & BOLT | PP / PVDF / PVC / CPVC |
| 5 | O-RING | EPDM FPM |
| 6 | BONNET | PP / PVDF / PVC / CPVC |
| 7 | SEAT SUPPORT | EPDM FPM |
| 8 | BONNET O-RING | EPDM FPM |
| 9 | HOLDER BOLT & NUT | PP / PVDF / PVC / CPVC |

PP&PVDF

| JIS | | | | | unit : mm |
|------|-------|-----|-----|-----------------|-------------------------------------|
| Size | Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 20 | | 110 | 95 | PT 3/4" | 7.5 |
| 25 | | 128 | 105 | PT 1" | 7.5 |

PVC&CPVC

| JIS | | | | | unit : mm |
|------|-------|-----|-----|-----------------|-------------------------------------|
| Size | Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 20 | | 112 | 95 | PT 3/4" | 7.5 |
| 25 | | 120 | 105 | PT 1" | 7.5 |



Foot Valves

Flange Type

- Material – Body

: PVC, C-PVC, PP, PVDF
- Size

: 20mm - 150mm, ½" - 6"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- O-Ring

: EPDM or FPM
- Connections

: ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

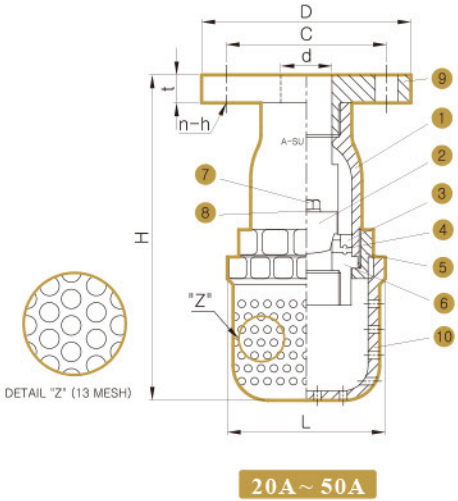
Special Features

- Applicable to Vertical Pipe

· Excellent Backdraft Prevention by Gravity Operation System

· Optimized Disc Design

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|-----------------|-------------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | DISC | S45C(PP/PVDF/PVC/CPVC COATED) |
| 3 | STOP RING | PP/PVDF/PVC/CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 6 | END CONNECTOR 1 | PP/PVDF/PVC/CPVC |
| 7 | BOLT | PP/PVDF/PVC/CPVC |
| 8 | O-RING | EPDM FPM |
| 9 | END CONNECTOR 2 | PP/PVDF/PVC/CPVC |
| 10 | FOOT STRAINER | PP/PVDF/PVC/CPVC |

PP&PVDF

| JIS | | | | | | | | | unit : mm |
|-------|-----|-----|----|---------|-----|------|-----|-------------------------------|-----------|
| Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) | |
| Size | | | | D | C | n-h | | | |
| 20 | 20 | 70 | 15 | 100 | 75 | 4-15 | 152 | 7.5 | |
| 25 | 25 | 92 | 15 | 125 | 90 | 4-19 | 193 | 7.5 | |
| 30 | 40 | 112 | 16 | 135 | 100 | 4-19 | 204 | 7.5 | |
| 40 | 40 | 112 | 16 | 140 | 105 | 4-19 | 204 | 7.5 | |
| 50 | 50 | 134 | 21 | 155 | 120 | 4-19 | 263 | 7.5 | |
| 65 | 65 | 180 | 20 | 175 | 140 | 4-19 | 255 | 7.5 | |
| 80 | 75 | 196 | 23 | 185 | 150 | 8-19 | 275 | 7.5 | |
| 100 | 100 | 263 | 24 | 210 | 175 | 8-19 | 350 | 7.5 | |
| 125 | 125 | 305 | 24 | 250 | 210 | 8-23 | 392 | 7.5 | |
| 150 | 150 | 366 | 25 | 280 | 240 | 8-23 | 474 | 7.5 | |

| ANSI | | | | | | | | | unit : inch |
|-------|------|-------|------|----------------|------|--------|-------|-------------------------------|-------------|
| Parts | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm²) | |
| Size | | | | D | C | n-h | | | |
| 20 | 0.79 | 2.76 | 0.61 | 3.88 | 2.75 | 4-0.63 | 5.98 | 7.5 | |
| 25 | 0.98 | 3.62 | 0.59 | 4.25 | 3.12 | 4-0.63 | 7.60 | 7.5 | |
| 30 | 1.57 | 4.41 | 0.65 | 4.62 | 3.50 | 4-0.63 | 8.11 | 7.5 | |
| 40 | 1.57 | 4.41 | 0.65 | 5.00 | 3.88 | 4-0.63 | 8.11 | 7.5 | |
| 50 | 1.97 | 5.28 | 0.83 | 6.00 | 4.75 | 4-0.75 | 10.35 | 7.5 | |
| 65 | 2.56 | 7.09 | 0.79 | 7.00 | 5.50 | 4-0.75 | 10.04 | 7.5 | |
| 80 | 2.95 | 7.72 | 0.91 | 7.50 | 6.00 | 8-0.75 | 10.83 | 7.5 | |
| 100 | 3.94 | 10.35 | 0.91 | 9.00 | 7.50 | 8-0.75 | 13.78 | 7.5 | |
| 125 | 4.92 | 12.01 | 0.91 | 10.00 | 8.50 | 8-0.87 | 15.43 | 7.5 | |
| 150 | 5.91 | 14.41 | 0.98 | 11.00 | 9.50 | 8-0.87 | 18.66 | 7.5 | |



Foot Valves

Flange Type

- Material – Body

· Size

· Pressure Rating
- : PVC, C-PVC, PP, PVDF

: 20mm - 150mm, ½" - 6"

: JIS 10kgf/cm², 150 PSI
- O-Ring

· Connections
- : EPDM or FPM

: ANSI 150 PSI Flanged

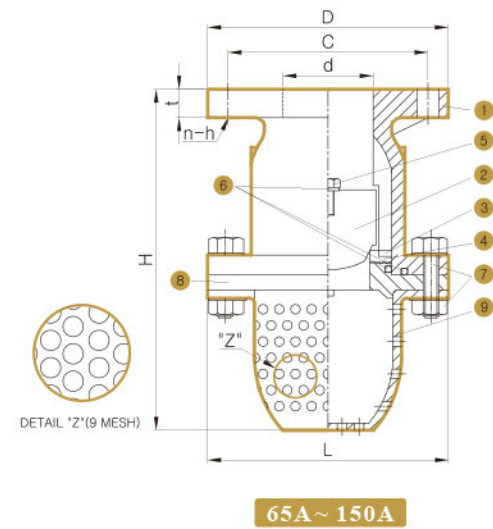
JIS 10kgf/cm² Flanged

Special Features

- Applicable to Vertical Pipe

· Optimized Disc Design
- Excellent Backdraft Prevention by Gravity Operation System

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|---------------|--------------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | DISC | S45C (PP/PVDF/PVC/CPVC COATED) |
| 3 | STOP RING | PP/PVDF/PVC/CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | BOLT | PP/PVDF/PVC/CPVC |
| 6 | O-RING | EPDM FPM |
| 7 | BOLT & NUT | PPG |
| 8 | SEAT SUPPORT | PP/PVDF/PVC/CPVC |
| 9 | FOOT STRAINER | PP/PVDF/PVC/CPVC |

PVC&CPVC

| JIS | | | | | | | | | unit : mm |
|-------|-----|-----|----|---------|-----|------|-----|-------------------------------|-----------|
| Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm²) | |
| Size | | | | D | C | n-h | | | |
| 20 | 20 | 70 | 15 | 100 | 75 | 4-15 | 155 | 7.5 | |
| 25 | 25 | 92 | 15 | 125 | 90 | 4-19 | 200 | 7.5 | |
| 30 | 40 | 112 | 16 | 135 | 100 | 4-19 | 210 | 7.5 | |
| 40 | 40 | 112 | 16 | 140 | 105 | 4-19 | 210 | 7.5 | |
| 50 | 50 | 134 | 21 | 155 | 120 | 4-19 | 270 | 7.5 | |
| 65 | 65 | 180 | 20 | 175 | 140 | 4-15 | 261 | 7.5 | |
| 80 | 75 | 196 | 22 | 185 | 150 | 8-19 | 279 | 7.5 | |
| 100 | 100 | 263 | 23 | 210 | 175 | 8-19 | 355 | 7.5 | |
| 125 | 125 | 305 | 24 | 250 | 210 | 8-23 | 396 | 7.5 | |
| 150 | 150 | 366 | 25 | 280 | 240 | 8-23 | 478 | 7.5 | |

| ANSI | | | | | | | | | unit : inch |
|-------|------|-------|------|----------------|------|--------|-------|-------------------------------|-------------|
| Parts | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm²) | |
| Size | | | | D | C | n-h | | | |
| 20 | 0.79 | 2.76 | 0.59 | 3.88 | 2.75 | 4-0.63 | 6.06 | 7.5 | |
| 25 | 0.98 | 3.62 | 0.59 | 4.25 | 3.12 | 4-0.63 | 7.87 | 7.5 | |
| 30 | 1.57 | 4.41 | 0.63 | 4.62 | 3.50 | 4-0.63 | 8.11 | 7.5 | |
| 40 | 1.57 | 4.41 | 0.63 | 5.00 | 3.88 | 4-0.63 | 8.11 | 7.5 | |
| 50 | 1.97 | 5.28 | 0.83 | 6.00 | 4.75 | 4-0.75 | 10.63 | 7.5 | |
| 65 | 2.56 | 7.09 | 0.83 | 7.00 | 5.50 | 4-0.75 | 10.28 | 7.5 | |
| 80 | 2.95 | 7.72 | 0.87 | 7.50 | 6.00 | 8-0.75 | 10.38 | 7.5 | |
| 100 | 3.94 | 10.35 | 0.91 | 9.00 | 7.50 | 8-0.75 | 13.78 | 7.5 | |
| 125 | 4.92 | 12.01 | 0.91 | 10.00 | 8.50 | 8-0.87 | 15.43 | 7.5 | |
| 150 | 5.91 | 14.41 | 0.98 | 11.00 | 9.50 | 8-0.87 | 18.66 | 7.5 | |



Foot Valves

Thread Type

- Material – Body

: PVC, C-PVC, PP, PVDF
- Size

: 20mm - 50mm, ¾" - 2"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- O-Ring

: EPDM or FPM
- Connections

: PT Thread

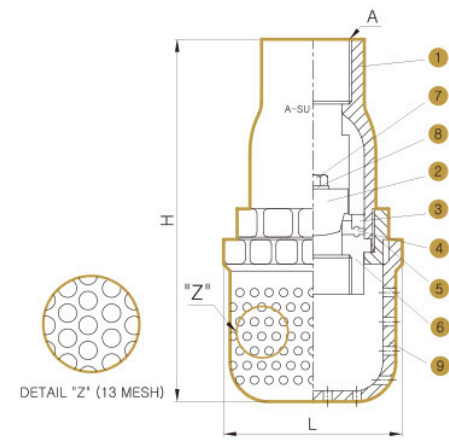
Special Features

- Applicable to Vertical Pipe

· Excellent Backdraft Prevention by Gravity Operation System

· Optimized Disc Design

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|-----------------|--------------------------------------|
| 1 | BODY | PP / PVDF / PVC / CPVC |
| 2 | DISC | S45C (PP / PVDF / PVC / CPVC COATED) |
| 3 | STOP RING | PP / PVDF / PVC / CPVC |
| 4 | SEAT | EPDM FPM |
| 5 | GLAND CAP | PP / PVDF / PVC / CPVC |
| 6 | END CONNECTOR 1 | PP / PVDF / PVC / CPVC |
| 7 | BOLT | PP / PVDF / PVC / CPVC |
| 8 | O-RING | EPDM FPM |
| 9 | FOOT STRAINER | PP / PVDF / PVC / CPVC |



PP&PVDF

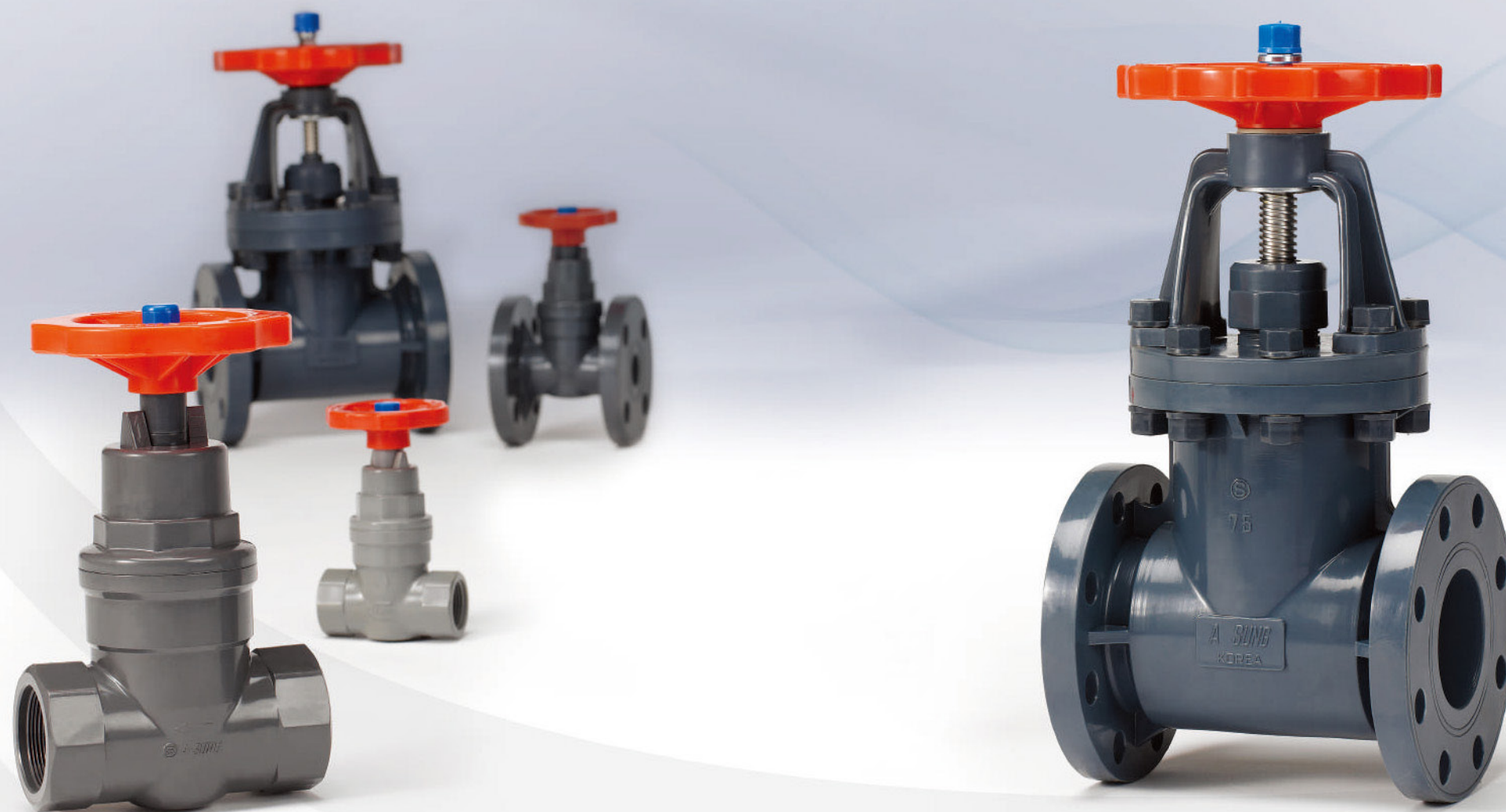
| JIS | | | | | unit : mm |
|-------|-----|-----|-----------------|-------------------------------------|-----------|
| Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) | |
| Size | | | | | |
| 20 | 70 | 137 | PT ¾" | 7.5 | |
| 25 | 92 | 180 | PT 1" | 7.5 | |
| 40 | 112 | 190 | PT 1 ½" | 7.5 | |
| 50 | 134 | 242 | PT 2" | 7.5 | |

PVC&CPVC

| JIS | | | | | unit : mm |
|-------|-----|-----|-----------------|-------------------------------------|-----------|
| Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) | |
| Size | | | | | |
| 20 | 70 | 140 | PT ¾" | 7.5 | |
| 25 | 92 | 183 | PT 1" | 7.5 | |
| 40 | 112 | 195 | PT 1 ½" | 7.5 | |
| 50 | 134 | 247 | PT 2" | 7.5 | |

Gate & Glove Valves

Thermo Plastic Valves



Sluice Gate Valves

Flange Type

- Material : PP

· Size : 40mm - 250mm, 1½" - 10"

· Pressure Rating : JIS 10kgf/cm²
- O-Ring : EPDM or FPM

· Connections : JIS 10kgf/cm² Flanged

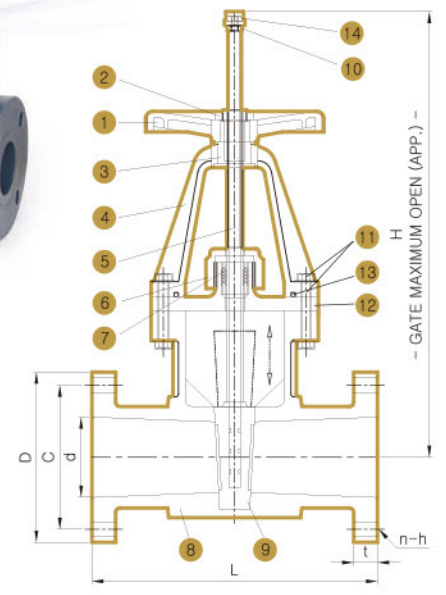
Special Features

- Up-and-Down Operation

· OSY Type Allows the Open and Shut Status Check

· Excellent Durability and Simple Handle Operation
- Fluid Passage and Pipe are Aligned to Stabilize the Flow Rate and Pressure

· Ideal for Fully Open Line



| NO | PARTS | MATERIALS |
|----|------------------|-------------------------------|
| 1 | HAND WHEEL | PP |
| 2 | LOCK NUT | PP |
| 3 | SLEEVE | FC (PLATING : Zn) |
| 4 | YOKE | PP/PVDF/PVC/CPVC |
| 5 | SPINDLE | SUS 304 |
| 6 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 7 | V-RING | PE |
| 8 | BODY | PP/PVDF/PVC/CPVC |
| 9 | GATE | S45C(PP/PVDF/PVC/CPVC COATED) |
| 10 | STEM STOPPER NUT | SUS 304 |
| 11 | BOLT & NUT | SS41 (PP COATED) |
| 12 | BONNET | PP/PVDF/PVC/CPVC |
| 13 | O-RING | EPDM FPM |
| 14 | STOPPER | SS41 (PLATING : Zn) |

PP&PVDF

| JIS | | unit : mm | | | | | | |
|------|-------|-----------|-----|----|---------|-----|-------|------------------------------|
| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/or) |
| | | | | | D | C | n-h | |
| 40 | | 40 | 170 | 17 | 140 | 105 | 4-19 | 10 |
| 50 | | 52 | 190 | 20 | 155 | 120 | 4-19 | 10 |
| 65 | | 65 | 200 | 21 | 175 | 140 | 4-19 | 10 |
| 80 | | 78 | 220 | 22 | 185 | 150 | 8-19 | 10 |
| 100 | | 100 | 250 | 22 | 210 | 175 | 8-19 | 7 |
| 125 | | 125 | 264 | 24 | 250 | 210 | 8-23 | 5 |
| 150 | | 150 | 290 | 25 | 280 | 240 | 8-23 | 5 |
| 200 | | 200 | 375 | 29 | 330 | 290 | 12-23 | 5 |
| 250 | | 200 | 390 | 30 | 400 | 355 | 12-25 | 5 |

| ANSI | | unit : inch | | | | | | |
|------|-------|-------------|-------|------|----------------|-------|--------|------------------------------|
| Size | Parts | d | L | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/or) |
| | | | | | D | C | n-h | |
| 40 | | 1.57 | 6.69 | 0.67 | 5.00 | 3.88 | 4-0.63 | 10 |
| 50 | | 1.97 | 7.48 | 0.79 | 6.00 | 4.75 | 4-0.75 | 10 |
| 65 | | 2.56 | 7.87 | 0.83 | 7.00 | 5.50 | 4-0.75 | 10 |
| 80 | | 3.07 | 8.66 | 0.87 | 7.50 | 6.00 | 4-0.75 | 10 |
| 100 | | 3.94 | 9.84 | 0.87 | 9.00 | 7.50 | 8-0.75 | 7 |
| 125 | | 4.92 | 10.39 | 0.94 | 10.00 | 8.50 | 8-0.87 | 5 |
| 150 | | 5.91 | 11.42 | 0.98 | 11.00 | 9.50 | 8-0.87 | 5 |
| 200 | | 7.87 | 14.76 | 1.14 | 13.50 | 11.75 | 8-0.87 | 5 |

PVC&CPVC

| JIS | | unit : mm | | | | | | |
|------|-------|-----------|-----|----|---------|-----|-------|------------------------------|
| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/or) |
| | | | | | D | C | n-h | |
| 40 | | 40 | 170 | 17 | 140 | 105 | 4-19 | 10 |
| 50 | | 52 | 190 | 20 | 155 | 120 | 4-19 | 10 |
| 65 | | 65 | 200 | 21 | 175 | 140 | 4-19 | 10 |
| 80 | | 78 | 220 | 22 | 185 | 150 | 8-19 | 10 |
| 100 | | 100 | 250 | 22 | 210 | 175 | 8-19 | 7 |
| 125 | | 125 | 262 | 22 | 250 | 210 | 8-23 | 5 |
| 150 | | 150 | 290 | 25 | 280 | 240 | 8-23 | 5 |
| 200 | | 200 | 375 | 29 | 330 | 290 | 12-23 | 5 |
| 250 | | 200 | 390 | 30 | 400 | 355 | 12-25 | 5 |

| ANSI | | unit : inch | | | | | | |
|------|-------|-------------|-------|------|----------------|-------|--------|------------------------------|
| Size | Parts | d | L | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/or) |
| | | | | | D | C | n-h | |
| 40 | | 1.57 | 6.69 | 0.67 | 5.00 | 3.88 | 4-0.63 | 10 |
| 50 | | 1.97 | 7.48 | 0.79 | 6.00 | 4.75 | 4-0.75 | 10 |
| 65 | | 2.56 | 7.87 | 0.83 | 7.00 | 5.50 | 4-0.75 | 10 |
| 80 | | 3.07 | 8.66 | 0.87 | 7.50 | 6.00 | 4-0.75 | 10 |
| 100 | | 3.94 | 9.84 | 0.87 | 9.00 | 7.50 | 8-0.75 | 7 |
| 125 | | 4.92 | 10.39 | 0.94 | 10.00 | 8.50 | 8-0.87 | 5 |
| 150 | | 5.91 | 11.42 | 0.98 | 11.00 | 9.50 | 8-0.87 | 5 |
| 200 | | 7.87 | 14.76 | 1.14 | 13.50 | 11.75 | 8-0.87 | 5 |

Glove (Stop) Valves

Flange Type

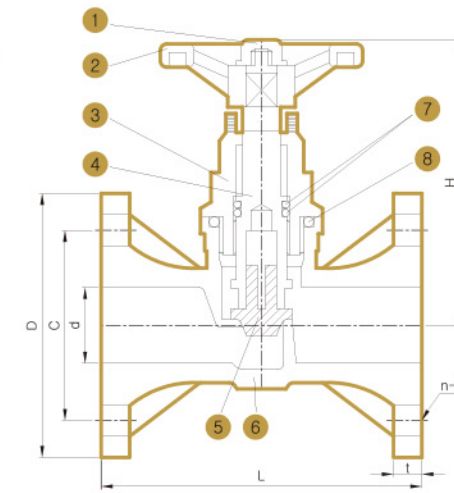
- Material : PVC, C-PVC, PVDF
- Size : 15mm - 50mm, $\frac{1}{2}$ " - 2"
- Pressure Rating : JIS 10kgf/cm², 150 PSI

Special Features

- Up-and-Down DISC Operation
- Optimized Disc Design
- S-Type Designed for Pressure Reducing Effect

- O-Ring : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

- Easy to Control Flow Rate and Suitable for Small Caliber
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear



| NO | PARTS | MATERIALS |
|----|---------------|-------------------|
| 1 | LOCK NUT | PP |
| 2 | HANDLE | PP |
| 3 | BONNET | PP/PVDF/ PVC/CPVC |
| 4 | STEM | PP/PVDF/ PVC/CPVC |
| 5 | DISC | PP/PVDF/ PVC/CPVC |
| 6 | BODY | PP/PVDF/ PVC/CPVC |
| 7 | STEM O-RING | EPDM / FPM |
| 8 | BONNET O-RING | EPDM / FPM |

PP&PVDF

JIS

| Size | Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm ²) |
|------|-------|----|-----|----|---------|-----|--------|-------|--|
| | | | | | D | C | n-h | | |
| 15 | | 17 | 85 | 14 | 95 | 70 | 4 - 15 | 117.5 | 10 |
| 20 | | 22 | 95 | 15 | 100 | 75 | 4 - 15 | 130 | 10 |
| 25 | | 27 | 110 | 15 | 125 | 90 | 4 - 19 | 137 | 10 |
| 30 | | 34 | 134 | 15 | 135 | 100 | 4 - 19 | 154 | 10 |
| 40 | | 42 | 157 | 16 | 140 | 105 | 4 - 19 | 194 | 10 |
| 50 | | 54 | 183 | 18 | 155 | 120 | 4 - 19 | 239 | 10 |

ANSI

| Size | Parts | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm ²) |
|------|-------|------|------|------|----------------|------|----------|------|--|
| | | | | | D | C | n-h | | |
| 15 | | 0.67 | 3.35 | 0.55 | 3.50 | 2.38 | 4 - 0.63 | 4.63 | 10 |
| 20 | | 0.87 | 3.74 | 0.59 | 3.88 | 2.75 | 4 - 0.63 | 5.12 | 10 |
| 25 | | 1.06 | 4.33 | 0.59 | 4.25 | 3.12 | 4 - 0.63 | 5.39 | 10 |
| 30 | | 1.34 | 5.28 | 0.59 | 4.62 | 3.50 | 4 - 0.63 | 6.06 | 10 |
| 40 | | 1.65 | 6.18 | 0.63 | 5.00 | 3.88 | 4 - 0.63 | 7.64 | 10 |
| 50 | | 2.13 | 7.20 | 0.71 | 6.00 | 4.75 | 4 - 0.75 | 9.41 | 10 |

PVC&CPVC

JIS

| Size | Parts | d | L | t | JIS 10K | | | H | MAX Working Pressure (kg/cm ²) |
|------|-------|----|-----|----|---------|-----|--------|-------|--|
| | | | | | D | C | n-h | | |
| 15 | | 17 | 85 | 14 | 95 | 70 | 4 - 15 | 117.5 | 10 |
| 20 | | 22 | 95 | 15 | 100 | 75 | 4 - 15 | 130 | 10 |
| 25 | | 27 | 110 | 15 | 125 | 90 | 4 - 19 | 137 | 10 |
| 30 | | 34 | 134 | 15 | 135 | 100 | 4 - 19 | 154 | 10 |
| 40 | | 42 | 157 | 16 | 140 | 105 | 4 - 19 | 194 | 10 |
| 50 | | 54 | 183 | 18 | 155 | 120 | 4 - 19 | 239 | 10 |

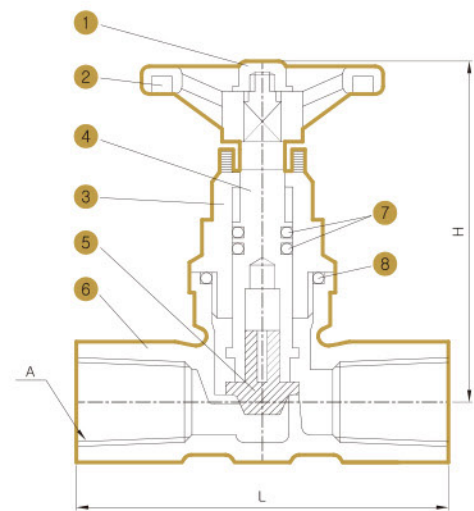
ANSI

| Size | Parts | d | L | t | ANSI CLASS 150 | | | H | MAX Working Pressure (kg/cm ²) |
|------|-------|------|------|------|----------------|------|----------|------|--|
| | | | | | D | C | n-h | | |
| 15 | | 0.67 | 3.35 | 0.55 | 3.50 | 2.38 | 4 - 0.63 | 4.63 | 10 |
| 20 | | 0.87 | 3.74 | 0.59 | 3.88 | 2.75 | 4 - 0.63 | 5.12 | 10 |
| 25 | | 1.06 | 4.33 | 0.59 | 4.25 | 3.12 | 4 - 0.63 | 5.39 | 10 |
| 30 | | 1.34 | 5.28 | 0.59 | 4.62 | 3.50 | 4 - 0.63 | 6.06 | 10 |
| 40 | | 1.65 | 6.18 | 0.63 | 5.00 | 3.88 | 4 - 0.63 | 7.64 | 10 |
| 50 | | 2.13 | 7.20 | 0.71 | 6.00 | 4.75 | 4 - 0.75 | 9.41 | 10 |

Glove (Stop) Valves

Thread Type

- Material : PVC, C-PVC, PVDF
 - Size : 15mm - 50mm, ½" - 2"
 - Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
 - Connections : PT Thread
- Up-and-Down DISC Operation
 - Optimized Disc Design
 - S-Type Designed for Pressure Reducing Effect
- Easy to Control Flow Rate and Suitable for Small Caliber
 - Installed GAUGE CAP to Facilitate Checking Status of Switchgear



| NO | PARTS | MATERIALS |
|----|---------------|------------------|
| 1 | LOCK NUT | PP |
| 2 | HANDLE | PP |
| 3 | BONNET | PP/PVDF/PVC/CPVC |
| 4 | STEM | PP/PVDF/PVC/CPVC |
| 5 | DISC | PP/PVDF/PVC/CPVC |
| 6 | BODY | PP/PVDF/PVC/CPVC |
| 7 | STEM O-RING | EPDM / FPM |
| 8 | BONNET O-RING | EPDM / FPM |



PP&PVDF

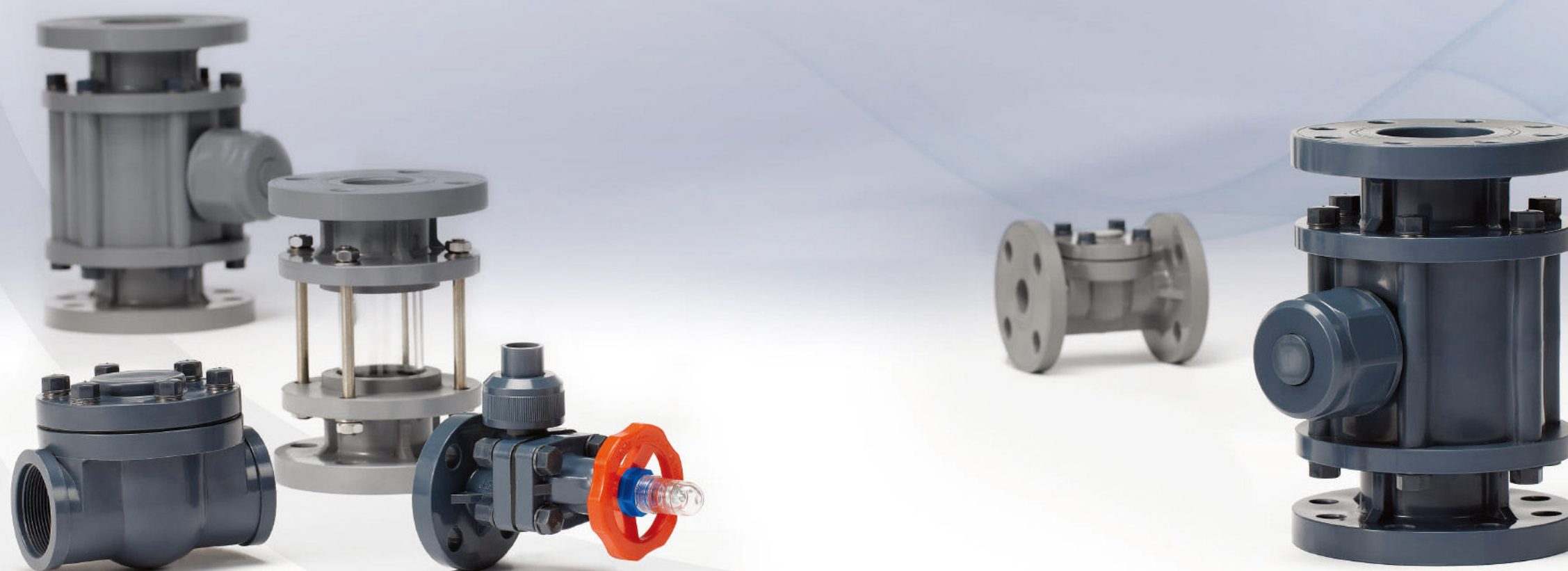
| JIS | | | | | unit : mm |
|-------|-----|-----|-----------------|-------------------------------------|-----------|
| Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) | |
| Size | | | | | |
| 15 | 70 | 123 | PT 1/2" | 10 | |
| 20 | 80 | 140 | PT 3/4" | 10 | |
| 25 | 95 | 145 | PT 1" | 10 | |
| 30 | 120 | 165 | PT 1 1/4" | 10 | |
| 40 | 132 | 192 | PT 1 1/2" | 10 | |
| 50 | 168 | 247 | PT 2" | 10 | |

PVC&CPVC

| JIS | | | | | unit : mm |
|-------|-----|-----|-----------------|-------------------------------------|-----------|
| Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) | |
| Size | | | | | |
| 15 | 70 | 123 | PT 1/2" | 10 | |
| 20 | 80 | 140 | PT 3/4" | 10 | |
| 25 | 95 | 145 | PT 1" | 10 | |
| 30 | 120 | 165 | PT 1 1/4" | 10 | |
| 40 | 132 | 192 | PT 1 1/2" | 10 | |
| 50 | 168 | 247 | PT 2" | 10 | |

Others

Thermo Plastic Valves



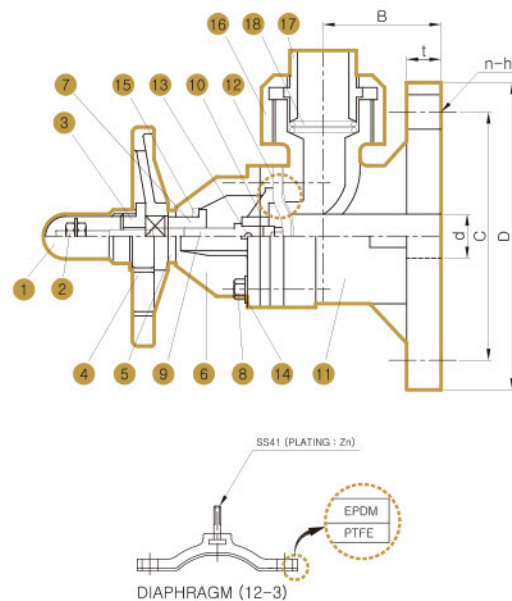
Gauge Valves

Flange Type

- Material : PP, PVDF
- Size : 20mm, $\frac{3}{4}$ "
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Diaphragm : EPDM, PTFE/EPDM
PTFE/PVDF/EPDM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- Angle Valve
- Up-Down Operation Method
- Ideal to Measure Fluid Amount in Storage Tank
- Installed GAUGE CAP to Facilitate Checking Status of Switchgear
- Variety Types of DIAPHRAGM Materials are Applicable



| NO | PARTS | MATERIALS |
|------|---------------------|--|
| 1 | GAUGE CAP | ACRYL |
| 2 | STOPPER NUT | SS41 (PLATING : Zn) |
| 3 | LOCK NUT | PP |
| 4 | HANDLE WHEEL | PP |
| 5 | THRUST WASHER | PVC |
| 6 | BONNET | PP/PVDF / PVC/CPVC |
| 7 | SLEEVE | BC |
| 8 | BOLT & NUT | SS41 (PP COATED) |
| 9 | STEM+STUD BOLT UNIT | BC + SS41 (PLATING : Zn) |
| 10 | COMPRESSOR | AL |
| 11 | BODY | PP/PVDF / PVC/CPVC |
| 12-1 | | EPDM |
| 12-2 | DIAPHRAGM | FPM |
| 12-3 | | EPDM + PTFE |
| 13 | PIN | SCM |
| 14 | WASHER | SUS 304 |
| 15 | PTFE RING | FPM & EPDM+PTFE DIAPHRAGM=PTFE EPDM DIAPHRAGM=N/A |
| 16 | GLAND CAP | PP/PVDF / PVC/CPVC |
| 17 | BODY CAP | PP/PVDF / PVC/CPVC |
| 18 | O-RING | EPDM FPM&EPDM+PTFE DIAPHRAGM= FPM |



PP&PVDF

JIS

| Parts Size | d | B | t | JIS 10K | | | MAX Working Pressure (kg/cm ²) |
|---------------|----|----|----|---------|----|------|---|
| | | | | D | C | n-h | |
| 20 | 20 | 50 | 15 | 100 | 75 | 4-15 | 10 |

ANSI

| Parts Size | d | B | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/cm ²) |
|---------------|------|------|------|----------------|------|--------|---|
| | | | | D | C | n-h | |
| 20 | 0.79 | 1.97 | 0.59 | 3.88 | 2.75 | 4-0.63 | 10 |

PVC&CPVC

JIS

| Parts Size | d | B | t | JIS 10K | | | MAX Working Pressure (kg/cm ²) |
|---------------|----|----|----|---------|----|------|---|
| | | | | D | C | n-h | |
| 20 | 20 | 50 | 15 | 100 | 75 | 4-15 | 10 |

ANSI

| Parts Size | d | B | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/cm ²) |
|---------------|------|------|------|----------------|------|--------|---|
| | | | | D | C | n-h | |
| 20 | 0.79 | 1.97 | 0.59 | 3.88 | 2.75 | 4-0.63 | 10 |

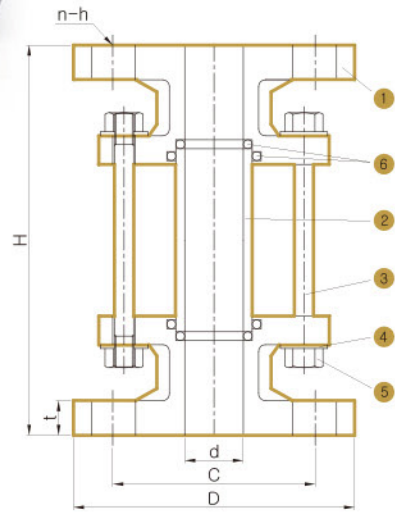
Sight Glass

Flange Type

- Material : PVC, PP, C-PVC, PVDF
- Size : 15mm – 250mm, $\frac{1}{2}$ " – 10"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- O-Ring : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- Suited to Check the Fluid Flow
- Installed Glass to Enhance Visibility
- Manufactured in Flange Type Only



| NO | PARTS | MATERIALS |
|----|-----------------|------------------|
| 1 | BODY CAP FLANGE | PP/PVDF/PVC/CPVC |
| 2 | GLASS | GLASS |
| 3 | STUD BOLT | SUS 304 |
| 4 | WASHER | SUS 304 |
| 5 | NUT | SUS 304 |
| 6 | O-RING | EPDM |
| | | FPM |

PP&PVDF

JIS

| Parts Size | d | H | t | JIS 10K | | | MAX Working Pressure (kg/cm ²) |
|---------------|-----|-----|------|---------|-----|-------|---|
| | | | | D | C | n-h | |
| 15 | 15 | 144 | 15.0 | 95 | 70 | 4-15 | 10 |
| 20 | 20 | 150 | 15.0 | 100 | 75 | 4-15 | 10 |
| 25 | 25 | 170 | 15.0 | 125 | 90 | 4-19 | 10 |
| 30 | 30 | 175 | 16.0 | 135 | 100 | 4-19 | 10 |
| 40 | 40 | 191 | 19.0 | 140 | 105 | 4-19 | 10 |
| 50 | 50 | 210 | 20.0 | 155 | 120 | 4-19 | 10 |
| 65 | 65 | 261 | 21.0 | 175 | 140 | 4-19 | 10 |
| 80 | 75 | 265 | 21.0 | 185 | 150 | 8-19 | 10 |
| 100 | 100 | 300 | 23.0 | 210 | 175 | 8-19 | 10 |
| 125 | 125 | 359 | 25.0 | 250 | 210 | 8-23 | 7.5 |
| 150 | 150 | 360 | 25.0 | 280 | 240 | 8-23 | 7.5 |
| 200 | 202 | 400 | 27.0 | 330 | 290 | 12-23 | 5 |
| 250 | 250 | 460 | 30.0 | 400 | 355 | 12-25 | 5 |

ANSI

| Parts Size | d | H | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/cm ²) |
|---------------|------|-------|------|----------------|-------|---------|---|
| | | | | D | C | n-h | |
| 15 | 0.59 | 5.67 | 0.59 | 3.50 | 2.38 | 4-0.63 | 10 |
| 20 | 0.79 | 5.91 | 0.59 | 3.88 | 2.75 | 4-0.63 | 10 |
| 25 | 0.95 | 6.57 | 0.63 | 4.25 | 3.12 | 4-0.63 | 10 |
| 30 | 1.18 | 7.09 | 0.63 | 4.62 | 3.50 | 4-0.63 | 10 |
| 40 | 1.57 | 7.52 | 0.75 | 5.00 | 3.88 | 4-0.63 | 10 |
| 50 | 1.97 | 8.27 | 0.79 | 6.00 | 4.75 | 4-0.75 | 10 |
| 65 | 2.56 | 10.28 | 0.83 | 7.00 | 5.50 | 4-0.75 | 10 |
| 80 | 2.95 | 10.43 | 0.83 | 7.50 | 6.00 | 4-0.75 | 10 |
| 100 | 3.94 | 11.81 | 0.91 | 9.00 | 7.50 | 8-0.75 | 10 |
| 125 | 4.92 | 14.13 | 0.98 | 10.00 | 8.50 | 8-0.87 | 7.5 |
| 150 | 5.91 | 14.17 | 0.98 | 11.00 | 9.50 | 8-0.87 | 7.5 |
| 200 | 7.95 | 15.75 | 1.06 | 13.50 | 11.75 | 8-0.87 | 5 |
| 250 | 9.84 | 18.15 | 1.22 | 16.00 | 14.25 | 12-0.98 | 5 |

PVC&CPVC

JIS

| Parts Size | d | H | t | JIS 10K | | | MAX Working Pressure (kg/cm ²) |
|---------------|-----|-----|------|---------|-----|-------|---|
| | | | | D | C | n-h | |
| 15 | 15 | 146 | 16.0 | 95 | 70 | 4-15 | 10 |
| 20 | 20 | 150 | 15.0 | 100 | 75 | 4-15 | 10 |
| 25 | 25 | 170 | 15.0 | 125 | 90 | 4-19 | 10 |
| 30 | 30 | 175 | 16.0 | 135 | 100 | 4-19 | 10 |
| 40 | 40 | 191 | 19.0 | 140 | 105 | 4-19 | 10 |
| 50 | 50 | 210 | 19.0 | 155 | 120 | 4-19 | 10 |
| 65 | 65 | 260 | 20.0 | 175 | 140 | 4-19 | 10 |
| 80 | 75 | 265 | 20.0 | 185 | 150 | 8-19 | 10 |
| 100 | 100 | 300 | 23.0 | 210 | 175 | 8-19 | 10 |
| 125 | 125 | 359 | 25.0 | 250 | 210 | 8-23 | 7.5 |
| 150 | 150 | 360 | 25.0 | 280 | 240 | 8-23 | 7.5 |
| 200 | 202 | 400 | 27.0 | 330 | 290 | 12-23 | 5 |
| 250 | 250 | 461 | 31.0 | 400 | 355 | 12-25 | 5 |

ANSI

| Parts Size | d | H | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/cm ²) |
|---------------|------|-------|------|----------------|-------|---------|---|
| | | | | D | C | n-h | |
| 15 | 0.59 | 5.67 | 0.59 | 3.50 | 2.38 | 4-0.63 | 10 |
| 20 | 0.79 | 5.91 | 0.59 | 3.88 | 2.75 | 4-0.63 | 10 |
| 25 | 0.95 | 6.69 | 0.63 | 4.25 | 3.12 | 4-0.63 | 10 |
| 30 | 1.18 | 6.89 | 0.63 | 4.62 | 3.50 | 4-0.63 | 10 |
| 40 | 1.57 | 7.52 | 0.75 | 5.00 | 3.88 | 4-0.63 | 10 |
| 50 | 1.97 | 8.27 | 0.75 | 6.00 | 4.75 | 4-0.75 | 10 |
| 65 | 2.56 | 10.24 | 0.79 | 7.00 | 5.50 | 4-0.75 | 10 |
| 80 | 2.95 | 10.43 | 0.79 | 7.50 | 6.00 | 4-0.75 | 10 |
| 100 | 3.94 | 11.81 | 0.91 | 9.00 | 7.50 | 8-0.75 | 10 |
| 125 | 4.92 | 14.13 | 0.98 | 10.00 | 8.50 | 8-0.87 | 7.5 |
| 150 | 5.91 | 14.17 | 0.98 | 11.00 | 9.50 | 8-0.87 | 7.5 |
| 200 | 7.95 | 15.75 | 1.06 | 13.50 | 11.75 | 8-0.87 | 5 |
| 250 | 9.84 | 18.15 | 1.22 | 16.00 | 14.25 | 12-0.98 | 5 |

T-Strainer

Flange Type

- Material

: PVC, PP, C-PVC, PVDF
- Size

: 15mm - 300mm, ½" - 12"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- Packing

: EPDM or FPM
- Connections

: ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

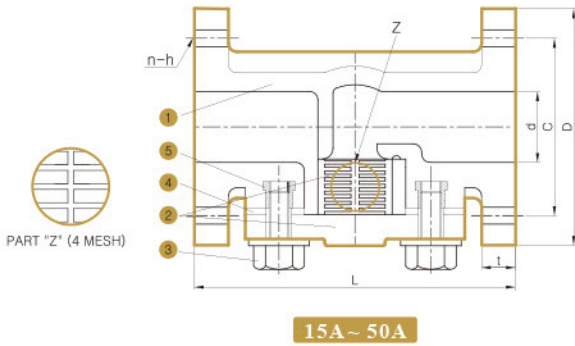
Special Features

- T-Type

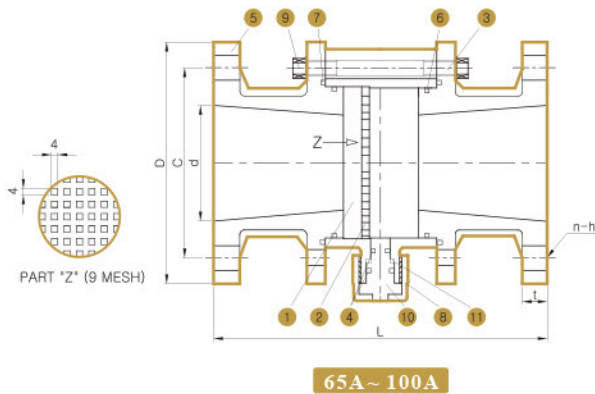
· Optimized Valve for Filtration

· Applicable to Vertical and Horizontal Pipe
- Used Plastic Filter for Outstanding Corrosion Resistance

· Please Install According to Fluid Direction



| NO | PARTS | MATERIALS |
|----|-----------------|-----------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | BONNET & FILTER | PP/PVDF/PVC/CPVC |
| 3 | BOLT | SS41 (PP COATED) SUS 304 |
| 4 | PACKING | EPDM FPM |
| 5 | INSERTED NUT | BC |



| NO | PARTS | MATERIALS |
|----|-------------|---------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | FILTER | PP/PVDF/PVC/CPVC |
| 3 | STUD BOLT | SS41 (PLATING : Zn) |
| 4 | O-RING | EPDM FPM |
| 5 | FLANGE | PP/PVDF/PVC/CPVC |
| 6 | SIDE O-RING | EPDM FPM |
| 7 | FACE O-RING | EPDM FPM |
| 8 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 9 | NUT | SS41(PP COATED) |
| 10 | STEM | PP/PVDF/PVC/CPVC |
| 11 | STEM RING | PE PTFE |

PVC&CPVC

JIS

| Parts Size | d | L | t | JIS 10K | | | MAX Working Pressure (kgf/cm²) |
|---------------|-----|-----|------|---------|-----|------|-----------------------------------|
| | | | | D | C | n-h | |
| 15 | 15 | 115 | 13 | 95 | 70 | 4-15 | 10 |
| 20 | 20 | 122 | 14 | 100 | 75 | 4-15 | 10 |
| 25 | 25 | 140 | 15 | 125 | 90 | 4-19 | 10 |
| 30 | 30 | 175 | 16 | 135 | 100 | 4-19 | 10 |
| 40 | 40 | 169 | 16 | 140 | 105 | 4-19 | 10 |
| 50 | 50 | 191 | 16 | 155 | 120 | 4-19 | 10 |
| 65 | 65 | 265 | 20.5 | 175 | 140 | 4-19 | 7.5 |
| 80 | 75 | 266 | 22.0 | 185 | 150 | 8-19 | 7.5 |
| 100 | 100 | 301 | 23.0 | 210 | 175 | 8-19 | 7.5 |
| 125 | 125 | 362 | 25.0 | 250 | 210 | 8-25 | 5 |
| 150 | 150 | 364 | 25.0 | 280 | 240 | 8-25 | 5 |

ANSI

| Parts Size | d | L | t | ANSI CLASS 150 | | | MAX Working Pressure (kgf/cm²) |
|---------------|------|-------|------|----------------|------|--------|-----------------------------------|
| | | | | D | C | n-h | |
| 15 | 0.59 | 4.53 | 0.51 | 3.50 | 2.38 | 4-0.63 | 10 |
| 20 | 0.79 | 4.80 | 0.55 | 3.88 | 2.75 | 4-0.63 | 10 |
| 25 | 0.98 | 5.51 | 0.59 | 4.25 | 3.12 | 4-0.63 | 10 |
| 30 | 1.18 | 6.89 | 0.63 | 4.62 | 3.50 | 4-0.63 | 10 |
| 40 | 1.57 | 6.65 | 0.63 | 5.00 | 3.88 | 4-0.63 | 10 |
| 50 | 1.97 | 7.52 | 0.63 | 6.00 | 4.75 | 4-0.63 | 10 |
| 65 | 2.64 | 10.43 | 0.81 | 7.00 | 5.50 | 4-0.75 | 7.5 |
| 80 | 2.95 | 10.47 | 0.87 | 7.50 | 6.00 | 4-0.75 | 7.5 |
| 100 | 3.94 | 11.85 | 0.91 | 9.00 | 7.50 | 8-0.75 | 7.5 |
| 125 | 4.92 | 14.25 | 0.98 | 10.00 | 8.50 | 8-0.87 | 5 |
| 150 | 5.91 | 14.33 | 0.98 | 11.00 | 9.50 | 8-0.87 | 5 |

T-Strainer

Flange Type

- Material : PVC, PP, C-PVC, PVDF
- Size : 15mm - 300mm, ½" - 12"
- Pressure Rating : JIS 10kgf/cm², 150 PSI
- Packing : EPDM or FPM
- Connections : ANSI 150 PSI Flanged
JIS 10kgf/cm² Flanged

Special Features

- T-Type
- Optimized Valve for Filtration
- Applicable to Vertical and Horizontal Pipe
- Used Plastic Filter for Outstanding Corrosion Resistance
- Please Install According to Fluid Direction

PP&PVDF

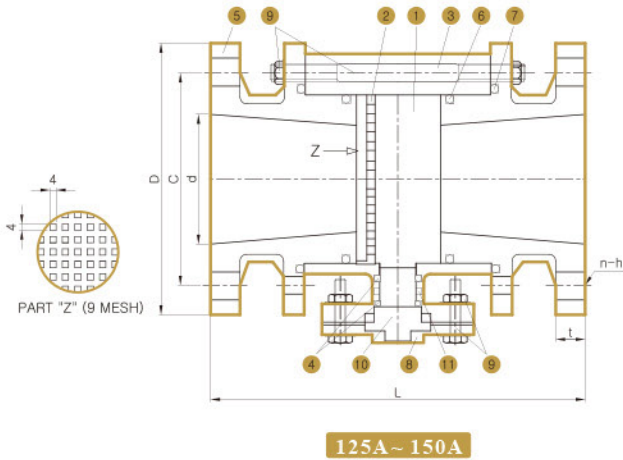


JIS

| Size | Parts | d | L | t | JIS 10K | | | MAX Working Pressure (kg/cm²) |
|------|-------|-----|-----|------|---------|-----|-------|-------------------------------|
| | | | | | D | C | n-h | |
| 15 | | 15 | 114 | 13.0 | 95 | 70 | 4-15 | 10 |
| 20 | | 20 | 120 | 14.0 | 100 | 75 | 4-15 | 10 |
| 25 | | 25 | 137 | 14.5 | 125 | 90 | 4-19 | 10 |
| 30 | | 30 | 166 | 16.0 | 135 | 100 | 4-19 | 10 |
| 40 | | 40 | 166 | 16.0 | 140 | 105 | 4-19 | 10 |
| 50 | | 50 | 186 | 16.0 | 155 | 120 | 4-19 | 10 |
| 65 | | 65 | 261 | 20.5 | 175 | 140 | 4-19 | 7.5 |
| 80 | | 75 | 266 | 22.0 | 185 | 150 | 8-19 | 7.5 |
| 100 | | 100 | 300 | 23.0 | 210 | 175 | 8-19 | 7.5 |
| 125 | | 125 | 360 | 25.0 | 250 | 210 | 8-25 | 5 |
| 150 | | 150 | 363 | 25.5 | 280 | 240 | 8-25 | 5 |
| 200 | | 202 | 404 | 27.0 | 330 | 290 | 12-23 | 5 |
| 250 | | 250 | 463 | 30.0 | 403 | 355 | 12-25 | 5 |
| 300 | | 230 | 540 | 30.0 | 445 | 400 | 16-25 | 5 |

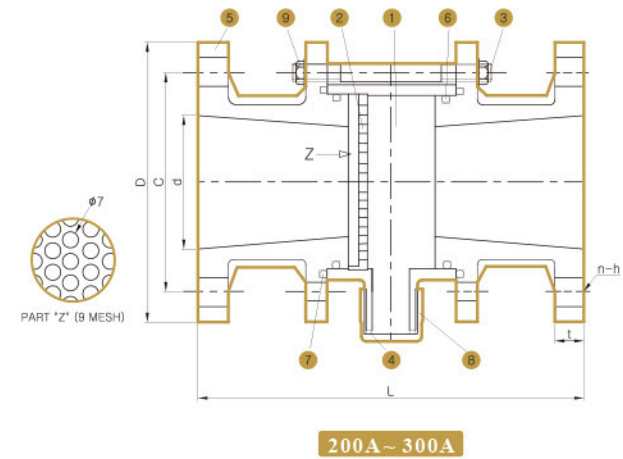
ANSI

| Size | Parts | d | L | t | ANSI CLASS 150 | | | MAX Working Pressure (kg/cm²) |
|------|-------|------|-------|------|----------------|-------|---------|-------------------------------|
| | | | | | D | C | n-h | |
| 15 | | 0.59 | 4.49 | 0.51 | 3.50 | 2.38 | 4-0.63 | 10 |
| 20 | | 0.79 | 4.72 | 0.55 | 3.88 | 2.75 | 4-0.63 | 10 |
| 25 | | 0.98 | 5.39 | 0.57 | 4.25 | 3.12 | 4-0.63 | 10 |
| 30 | | 1.18 | 6.54 | 0.63 | 4.62 | 3.50 | 4-0.63 | 10 |
| 40 | | 1.57 | 6.54 | 0.63 | 5.00 | 3.88 | 4-0.63 | 10 |
| 50 | | 1.97 | 7.32 | 0.63 | 6.00 | 4.75 | 4-0.75 | 10 |
| 65 | | 2.64 | 10.28 | 0.81 | 7.00 | 5.50 | 4-0.75 | 7.5 |
| 80 | | 2.95 | 10.47 | 0.87 | 7.50 | 6.00 | 4-0.75 | 7.5 |
| 100 | | 3.94 | 11.81 | 0.91 | 9.00 | 7.50 | 8-0.75 | 7.5 |
| 125 | | 4.92 | 14.17 | 0.98 | 10.00 | 8.50 | 8-0.87 | 5 |
| 150 | | 5.91 | 14.29 | 1.00 | 11.00 | 9.50 | 8-0.87 | 5 |
| 200 | | 7.95 | 15.91 | 1.06 | 13.05 | 11.75 | 8-0.87 | 5 |
| 250 | | 9.84 | 18.23 | 1.18 | 16.00 | 14.25 | 12-0.98 | 5 |
| 300 | | 9.06 | 21.26 | 1.08 | 19.00 | 17.00 | 12-0.98 | 5 |



125A~150A

| NO | PARTS | MATERIALS |
|----|-------------|---------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | FILTER | PP/PVDF/PVC/CPVC |
| 3 | STUD BOLT | SS41 (PLATING : Zn) |
| 4 | O-RING | EPDM FPM |
| 5 | FLANGE | PP/PVDF/PVC/CPVC |
| 6 | SIDE O-RING | EPDM FPM |
| 7 | FACE O-RING | EPDM FPM |
| 8 | GLAND CAP | PP/PVDF/PVC/CPVC |
| 9 | BOLT & NUT | SS41 (PP COATED) |
| 10 | STEM | PP/PVDF/PVC/CPVC |
| 11 | STEM RING | PE PTFE |



200A~300A

| NO | PARTS | MATERIALS |
|----|-------------|---------------------|
| 1 | BODY | PP |
| 2 | FILTER | PP |
| 3 | STUD BOLT | SS41 (PLATING : Zn) |
| 4 | O-RING | EPDM FPM |
| 5 | FLANGE | PP |
| 6 | SIDE O-RING | EPDM FPM |
| 7 | FACE O-RING | EPDM FPM |
| 8 | DRAIN CAP | PP |
| 9 | NUT | SUS 304 |

T-Strainer

Thread Type

- Material

: PVC, C-PVC, PP, PVDF
- Filter

: PVC, C-PVC, PP, PVDF
- Size

: 15mm - 50mm, ½" - 2"
- Pressure Rating

: JIS 10kgf/cm², 150 PSI
- Packing

: EPDM or FPM
- Connections

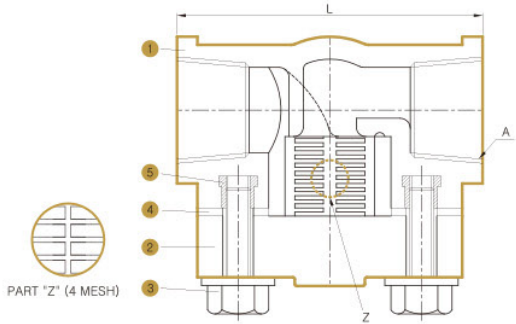
: PT Thread

Special Features

- T-Type

· Used Plastic Filter for Outstanding Corrosion Resistance
- Optimized Valve for Filtration

· Please Install According to Fluid Direction
- Applicable to Vertical and Horizontal Pipe



| NO | PARTS | MATERIALS |
|----|-----------------|-----------------------------|
| 1 | BODY | PP/PVDF/PVC/CPVC |
| 2 | BONNET & FILTER | PP/PVDF/PVC/CPVC |
| 3 | BOLT | SS41 (PP COATED) SUS 304 |
| 4 | PACKING | EPDM FPM |
| 5 | INSERTED NUT | BC |



PP&PVDF

| JIS | | | | | unit : mm |
|------|-------|-----|----|-----------------|-------------------------------------|
| Size | Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 15 | | 75 | 42 | PT 1/2" | 10 |
| 20 | | 91 | 52 | PT 3/4" | 10 |
| 25 | | 105 | 52 | PT 1" | 10 |
| 30 | | 128 | 73 | PT 1 1/4" | 10 |
| 40 | | 127 | 73 | PT 1 1/2" | 10 |
| 50 | | 151 | 82 | PT 2" | 10 |

PVC&CPVC

| JIS | | | | | unit : mm |
|------|-------|-----|----|-----------------|-------------------------------------|
| Size | Parts | L | H | JIS B 0203 A | MAX Working Pressure (kg/cm²) |
| 15 | | 77 | 42 | PT 1/2" | 10 |
| 20 | | 92 | 52 | PT 3/4" | 10 |
| 25 | | 107 | 52 | PT 1" | 10 |
| 30 | | 130 | 73 | PT 1 1/4" | 10 |
| 40 | | 128 | 73 | PT 1 1/2" | 10 |
| 50 | | 153 | 82 | PT 2" | 10 |