

ASAHI VALVE AND PIPING SYSTEMS

ASAHI AV VALVES

3-WAY BALL VALVE TYPE 23H 25mm - 40mm(1inch - 1¹/₂inch)



3-WAY BALL VALVE TYPE 23H 25mm - 40mm(1inch - 1 1/2inch)

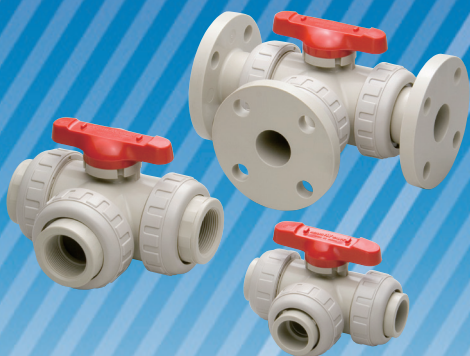
FEATURES

Horizontal Model

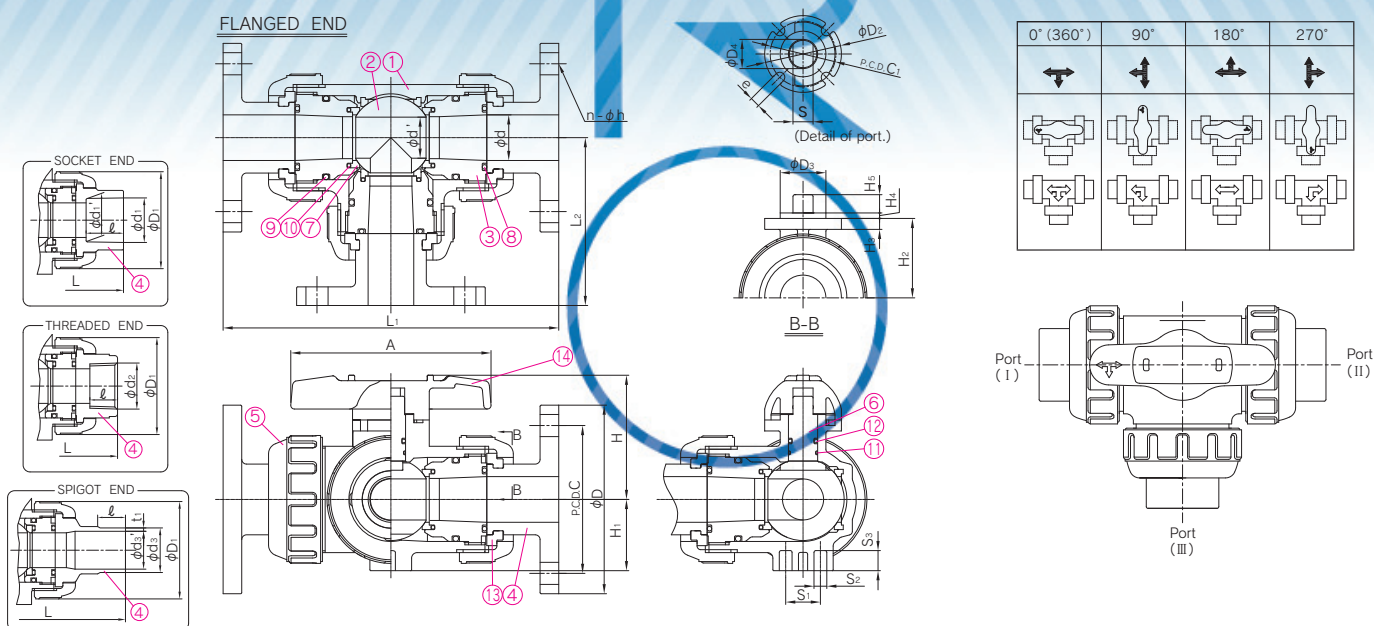
The 3-WAY BALL VALVE TYPE 23H is horizontal model(T port).

Same Features as TYPE23

- a) Compact and Economic
- b) Reversible Flow Direction
- c) Equipped ISO Mounting Flange
- d) Interchangeable with Ball Valve Type21



DIMENSION



MATERIAL AND WORKING TEMPERATURE

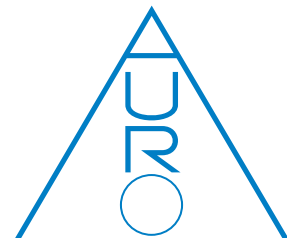
| Body Material | Working Temperature °C (°F) | Max.Working Pressure(at R.T.) MPa{kgf/cm²}[PSI] | End Connectors | | | |
|-------------------|--------------------------------|--|----------------|--------------|-------------|------------|
| | | | Socket End | Threaded End | Flanged End | Spigot End |
| Polypropylene(PP) | -20 - 80(-5 - 175) | 1.0{10.2}[150] | ○ ※ | ○ | ○ | ○ |

* PP 3-WAY BALL VALVES of the Socket End are welded valves.

Note : 1. There is a dead space in a ball valve. Volatile liquids, such as a hydrogen peroxide (H₂O₂) and Sodium hypochlorite (NaClO) may vaporize in the dead space, thus causing an abnormal pressure increase in the valve. (Important: Gas is compressible. Thus if its pressure rises abnormally, the valve can burst ejecting dangerous fragments.

PARTS & MATERIALS

| No. | DESCRIPTION | Pcs. | MATERIAL | No. | DESCRIPTION | Pcs. | MATERIAL |
|-----|---------------|------|-------------|-----|-------------|------|----------------------------|
| ① | BODY | 1 | PP | ⑧ | O-RING(A) | 3 | EPDM,FKM,others |
| ② | BALL | 1 | PP (T Port) | ⑨ | O-RING(B) | 3 | EPDM,FKM,others |
| ③ | CARRIER | 3 | PP | ⑩ | O-RING(C) | 3 | EPDM,FKM,others |
| ④ | END CONNECTOR | 3 | PP | ⑪ | O-RING(D) | 1 | EPDM,FKM,others |
| ⑤ | UNION NUT | 3 | PPG | ⑫ | O-RING(E) | 1 | EPDM,FKM,others |
| ⑥ | STEM | 1 | PP | ⑬ | STOP RING | 3 | PVDF(Used for Flanged End) |
| ⑦ | SEAT | 4 | PTFE | ⑭ | HANDLE | 1 | ABS |



DIMENSIONS TABLE

| DIN | | Unit:mm | | | | | | | | | | | | | | | | | | | | |
|--------------|---------|-------------|-----|---|----|----|----------------|----------------|----------------|------------------|------|----------------|----------------|----------------|----|----------------|----------------|----------------|------|-----|----------------|----------------|
| Nominal Size | mm inch | Flanged End | | | | | | Socket End | | | | | Threaded End | | | | Spigot End | | | | | |
| | | DIN PN10 | | | | t | L ₁ | L ₂ | d ₁ | d ₁ ' | ℓ | L ₁ | L ₂ | d ₂ | ℓ | L ₁ | L ₂ | d ₃ | ℓ | t | L ₁ | L ₂ |
| 25 | 1 | 115 | 85 | 4 | 14 | 14 | 189 | 94.5 | 31.5 | 31.3 | 18 | 152 | 76 | Rp 1 | 20 | 159 | 79.5 | 32 | 22.5 | 3.0 | 183 | 91.5 |
| 32 | 1 1/4 | 140 | 100 | 4 | 16 | 16 | 260 | 130 | 39.45 | 39.2 | 20.5 | 197 | 98.5 | Rp 1 1/4 | 22 | 208 | 104 | — | — | — | — | — |
| 40 | 1 1/2 | 150 | 110 | 4 | 16 | 16 | 248 | 124 | 49.45 | 49.2 | 23.5 | 197 | 98.5 | Rp 1 1/2 | 25 | 208 | 104 | 50 | 32 | 4.6 | 242 | 121 |

| Nominal Size | mm inch | d | d' | D ₁ | D ₂ | D ₃ | D ₄ | C ₁ | H | H ₁ | H ₂ | H ₃ | H ₄ | H ₅ | A | S | S ₁ | S ₂ | S ₃ | e |
|--------------|---------|----|----|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|----------------|----------------|----------------|-----|----|----------------|----------------|----------------|-----|
| 25 | 1 | 25 | 22 | 70 | 42 | 25 | 15 | 36 | 68 | 39 | 43.5 | 6 | 3 | 10 | 110 | 11 | 19 | 7.3 | 11 | 5.5 |
| 32 | 1 1/4 | 40 | 34 | 100 | 57 | 35 | 23 | 50 | 89 | 55 | 61 | 10 | 3 | 12 | 131 | 18 | 30 | 9 | 15 | 6.5 |
| 40 | 1 1/2 | 40 | 34 | 100 | 57 | 35 | 23 | 50 | 89 | 55 | 61 | 10 | 3 | 12 | 131 | 18 | 30 | 9 | 15 | 6.5 |

| ANSI | | Unit:mm | | | | | | | | | | | | | | | |
|--------------|---------|---------------|------|---|------|------|----------------|----------------|----------------|------|----------------|----------------|-----------------|------|----------------|----------------|--|
| Nominal Size | mm inch | Flanged End | | | | | | Socket End | | | | | Threaded End | | | | |
| | | ANSI Class150 | | | | t | L ₁ | L ₂ | d ₁ | ℓ | L ₁ | L ₂ | d ₂ | ℓ | L ₁ | L ₂ | |
| 25 | 1 | 4.25 | 3.13 | 4 | 0.62 | 0.55 | 8.50 | 4.25 | 1.30 | 1.13 | 6.77 | 3.39 | 1-11 1/2NPT | 0.79 | 6.26 | 3.13 | |
| 32 | 1 1/4 | 4.62 | 3.50 | 4 | 0.62 | 0.63 | 10.24 | 5.12 | 1.65 | 1.25 | 8.74 | 4.37 | 1 1/4-11 1/2NPT | 0.87 | 8.19 | 4.09 | |
| 40 | 1 1/2 | 5.00 | 3.88 | 4 | 0.62 | 0.63 | 10.24 | 5.12 | 1.89 | 1.37 | 8.94 | 4.47 | 1 1/2-11 1/2NPT | 0.98 | 8.19 | 4.09 | |

| Nominal Size | mm inch | d | d' | D ₁ | D ₂ | D ₃ | D ₄ | C ₁ | H | H ₁ | H ₂ | H ₃ | H ₄ | H ₅ | A | S | S ₁ | S ₂ | S ₃ | e |
|--------------|---------|------|------|----------------|----------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|------|------|----------------|----------------|----------------|------|
| 25 | 1 | 0.98 | 0.87 | 2.76 | 1.65 | 0.98 | 0.59 | 1.42 | 2.68 | 1.54 | 1.71 | 0.24 | 0.12 | 0.39 | 4.33 | 0.43 | 0.75 | 0.29 | 0.43 | 0.22 |
| 32 | 1 1/4 | 1.57 | 1.34 | 3.94 | 2.24 | 1.38 | 0.91 | 1.97 | 3.50 | 2.17 | 2.40 | 0.39 | 0.12 | 0.47 | 5.16 | 0.71 | 1.18 | 0.35 | 0.59 | 0.26 |
| 40 | 1 1/2 | 1.57 | 1.34 | 3.94 | 2.24 | 1.38 | 0.91 | 1.97 | 3.50 | 2.17 | 2.40 | 0.39 | 0.12 | 0.47 | 5.16 | 0.71 | 1.18 | 0.35 | 0.59 | 0.26 |



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