SITINDUSTRIE VALVO  VALVES

THROUGH CONDUIT VALVES
TECHNICAL CATALOGUE

Ed. 01/DIC-2004
We are pleased to introduce you to the Trough Conduit valves manufactured by Valvometal, branch of Sitindustrie Equipment, under the VALVO® trademark.

**Sitindustrie** started manufacturing valves for the industry in 1955, at its plant in Valduggia, Italy. Today, it is regarded as a reputed supplier of cast steel gate, globe and check valves, in both bolted and pressure seal bonnet.

Ball valves and through conduit gate valves have been added to the product range of the Company, being capable to offer full packages of valves as a total manufacturer. The primary markets served are the oil and gas exploration, production, petrochemical, refining, pipelines and power generation.

The Company adheres to a Quality Program in accordance with ISO 9001:2000 and also has accreditations for API 6D, API Q1, European Directive 97/23/CE (PED), UDT, Stoomwezen and other Third Party Agencies (Bureau Veritas, TUV, RINA, Lloyd’s Register, and other).

Design and manufacturing are carried out in accordance with the main international standards, i.e. ISO, API, ASME, ANSI, ASTM, NACE, BS, AFNOR, DIN and other.

Materials offered includes carbon steel, alloy and stainless steel, and non ferrous alloys.

A wide selection of materials is available for internal components.

A lengthy reference list, containing the most respected names in the industries in which we serve, guarantees the strength of the Company in developing the capabilities in the areas of projects and specialities.

The strength of the new solutions for projects and special valves is within our technical capabilities linked with full customer satisfaction.

Furthermore, **Sitindustrie** has launched a “zero-emission” design range of gate and globe valves, called ECO-VALVO, in response to industry requirement, to satisfy the most stringent and demanding applications of our customers worldwide.
**APPLICATIONS**
Trough Conduit valves are primarily used in chemical, petrochemical and oil & gas transmission pipelines, onshore terminals, offshore platforms. Trough Conduit valves are also available for underground services.

**MEDIA**
Trough Conduit valves are used in a wide range of flow media; they can be designed for use of corrosive fluids in addition to normal liquids and gases.

**ADVANTAGES**
Through Conduit valves are well known for easy in-line maintenance in consideration of their top entry construction. The cylindrical body shape allows for a high degree of reliability.

**PRODUCT RANGE**
Sitindustrie manufactures trough conduit gate valves either expanding or slab gate valves in a wide range of diameters, pressure classes, materials, and style of constructions.

They are rated, manufactured and tested according to **API 6D** and designed to **ASME code**

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# Through Conduit Valve

## Technical Catalogue

**SITINDUSTRIE** reserves the right to change, without notice, any data shown in the above datasheets.

### Part List and Standard Bill of Materials

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<tr>
<th>No</th>
<th>Part Name</th>
<th>Material</th>
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<td>Gland flange</td>
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The VALVO valve’s through conduit expanding gate design provides specific advantages resulting in reliable performance and long life. The Expanding Gate valves perform in critical applications as block valves in process system refineries, pipelines and isolation valves in power plant.

**Full Bore**
Permits the passage of cleaning and scraping tools. Turbulence and pressure drops are minimized.

**Through Conduit**
Valve body cavity is isolated from flow.

**Expanding Gate**
The valve’s parallel expanding gate provides a simultaneous tight mechanical seat seal upstream and downstream against the seats in both open or closed position. Seal is not affected by pressure changes, heat or vibration.

**Seats**
Seat faces are in full contact with the gate whether the valve is closed or open, hence outside the flow stream for a long life operation.

The seats are energized by line pressure and spring loaded and mechanical action of the double disc. Primary seat seal elastomer inserts are placed into a groove, supported by a secondary metal-to-metal seating.

Seats can be removed and replaced while the valve is in line.

Parallel expanding gate allows a tight mechanical seal both upstream and downstream.

**A.** During travel, the gate and segment assembly is collapsed and matches at all four surfaces. The face-to face width of gate is less than distance between seats so that gate & segment travel freely without sticking or wedging.

**B.** In closed position, the two top angles are in contact. With further downward movement the segment halted against the stop, so that the continued descent of the gate allow the solid gate segment -surface to expand, against the seats.

**C.** In open position the two bottom angles are in contact. With further upward movement of the segment the gate/segment assembly expand, sealing against the seats and isolating the body cavity from the flow.
**Block & Bleed Capability**
Tight closure at both seats allows body cavity to be drained with pressure both up and down stream.

**Stem & Stem Packing**
Improved Chevron type “V” style interlocking stem packing rings with provision made for sealant/lubricant injection into packing chamber.

**Sealant Injection**
Emergency sealing injection facility can be provided on valves 6” and larger size.

**Permanent Lubrication**
VALVO Valve’s gate and stem can be coated with solid film lubricant, corrosion resistant, low friction material which lubricates wearing surface.
Through Conduit Gate Valves are straight-through flow valves which provide positive shutoff, no pressure drop and flow turbulence. Through conduit Gate Valves are bi-directional.

They are recommended for use in a fully open or closed position. Throttling as partially open position promotes erosion, noise and excessive wear.

Sizes: Slab gate 2” to 60” - Expanding gate 2” - 36”

**Description and Features:**
- Slab or expanding gate
- Zero leakage
- Stem packable while in service
- Bolted construction for easy disassembly in the field
- Double block & Bleed
- Spring energized floating seats
- Self relieving seats
- Locking device (available on request)
- Emergency sealing injection system

**Design and Test Specifications**
- Pipeline steel valves API 6D
- Fire safe design API 6FA
- NACE MR 01-75
- Face-to-face, end-to-end ASME B 16.10
- End flanges (14” to 24”) ASMEB 16.5
- End flanges (24” and larger) MSS-SP-44
- Weld-ends ASME B 16.25

**Main Dimensions (mm)**
(Data of bigger sizes are available on request)

| DN | 4” | 6” | 8” | 10” | 12” | 14” | 16” | 18” | 20” | 22” | 24” | 26” | 28” | 30” | 32” | 36” | 38” | 40” | 42” | 48” |
|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L  |    | 229 | 272 | 300 | 330 | 356 | 381 | 406 | 432 | 457 | *   | 508 | 559 | 610 | 660 | 711 | 813 | *   | *   | *   |
| C  |    | 220 | 300 | 385 | 470 | 570 | 640 | 698 | 780 | 860 | 970 | 1063| 1105 | 1185 | 1270| 1355| 1590| *   | *   | *   |
| D  |    | 229 | 279 | 343 | 406 | 483 | 533 | 597 | 635 | 698 | 749 | 813 | 870 | 927 | 984 | 1060| 1168| *   | *   | *   |
| H  |    | 590 | 750 | 910 | 950 | 1095 | 1160| 1435| 1460| 1610| 1770| 2030| 2035| 2175| 2330| 2465| 2720| *   | *   | *   |

* Available on request
ASME Class 300 Lbs (PN50)

Through Conduit Gate Valves are straight-through flow valves which provide positive shutoff, no pressure drop and flow turbulence. Through conduit Gate Valves are bi-directional.

They are recommended for use in a fully open or closed position. Thrattling as partially open position promotes erosion, noise, and excessive wear.

Sizes: Slab gate 2” to 48” - Expanding gate 2” - 36”

DESCRIPTION AND FEATURES:

- slab or expanding gate
- zero leakage
- stem packable while in service
- Bolted construction for easy disassembly in the field
- Double block & Bleed
- Spring energized floating seats
- Self relieving seats
- Locking device (available on request)
- Emergency sealing injection system

Design and Test Specifications

- Pipeline steel valves API 6D
- Fire safe design API 6FA
- NACE MR 01-75
- Face-to-face, end-to-end ASME B 16.10
- End flanges (14” to 24”) ASMEB 16.5
- End flanges (24” and larger) MSS-SP-44
- Weld-ends ASME B 16.25

MAIN DIMENSIONS (mm)
(Data of bigger sizes are available on request)

| DN | 6” | 8” | 10” | 12” | 14” | 16” | 18” | 20” | 22” | 24” | 26” | 28” | 30” | 32” | 36” | 38” | 40” | 42” | 48” |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L  | 403| 419| 457 | 502 | 762 | 838 | 914 | 991 | 1092| 1143| 1245| 1346| 1397| *   | *   | *   | *   | *   |  |
| C  | 542| 410| 510 | 600 | 870 | 934 | 1005| 1010| 1169| 1248| 1326| 1385| 1473| *   | *   | *   | *   | *   |  |
| D  | 318| 381| 444 | 521 | 584 | 648 | 711 | 775 | 838 | 914 | 972 | 1035| 1092| *   | *   | *   | *   | *   |  |
| H  | 816| 860| 1080| 1240| 1370| 1522| 1670| 1795| 1963| 2081| 2228| 2365| 2502| *   | *   | *   | *   | *   |  |

* Available on request
ASME Class 400 Lbs (PN 68)

Through Conduit Gate Valves are straight-through flow valves which provide positive shutoff, no pressure drop and flow turbulence. Through conduit Gate Valves are bi-directional.

They are recommended for use in a fully open or closed position. Throttling a partially open position promotes erosion, noise and excessive wear.

Sizes: Slab gate 2” to 48” - Expanding gate 2” - 36”

**DESCRIPTION AND FEATURES:**

- slab or expanding gate
- zero leakage
- stem packable while in service
- Bolted construction for easy disassembly in the field
- Double block & Bleed
- Spring energized floating seats
- Self relieving seats
- Locking device (available on request)
- Emergency sealing injection system

**Design and Test Specifications**

- Pipeline steel valves API 6D
- Fire safe design API 6FA
- NACE MR 01-75
- Face-to-face, end-to-end ASME B 16.10
- End flanges (14” to 24”) ASMEB 16.5
- End flanges (24” and larger) MSS-SP-44
- Weld-ends ASME B 16.25

### MAIN DIMENSIONS (mm)

(Data of bigger sizes are available on request)

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* Available on request
ASME Class 600 Lbs (PN 100)

Through Conduit Gate Valves are straight-through flow valves which provide positive shutoff, no pressure drop and flow turbulence. Through conduit Gate Valves are bi-directional.

They are recommended for use in a fully open or closed position. throttling as partially open position promotes erosion, noise and excessive wear.

Sizes: Slab gate 2” to 48” - Expanding gate 2” - 36”

DESCRIPTION AND FEATURES:

- slab or expanding gate
- zero leakage
- stem packable while in service
- Bolted construction for easy disassembly in the field
- Double block & Bleed
- Spring energized floating seats
- Self relieving seats
- Locking device (available on request)
- Emergency sealing injection system

- Design and Test Specifications
  - Pipeline steel valves API 6D
  - Fire safe design API 6FA
  - NACE MR 01-75
  - Face-to-face, end-to-end ASME B 16.10
  - End flanges (14” to 24”) ASMEB 16.05
  - End flanges (24” and larger) MSS-SP-44
  - Weld-ends ASME B 16.25

MAIN DIMENSIONS (mm)
(Data of bigger sizes are available on request)

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* Available on request
**ASME Class 900 Lbs (PN150)**

Through Conduit Gate Valves are straight-through flow valves which provide positive shutoff, no pressure drop and flow turbulence. Through conduit Gate Valves are bi-directional.

They are recommended for use in a fully open or closed position. Thrifting in partially open position promotes erosion, noise and excessive wear.

Sizes: Slab gate 2" to 24" - Expanding gate 2" - 24"

**DESCRIPTION AND FEATURES:**

- slab or expanding gate
- zero leakage
- stem packable while in service
- Bolted construction for easy disassembly in the field
- Double block & Bleed
- Spring energized floating seats
- Self relieving seats
- Locking device (available on request)
- Emergency sealing injection system

**Design and Test Specifications**

- Pipeline steel valves API 6D
- Fire safe design API 6FA
- NACE MR 01-75
- Face-to-face, end-to-end ASME B 16.10
- End flanges (14" to 24") ASMEB 16.5
- End flanges (24" and larger) MSS-SP-44
- Weld-ends ASME B 16.25

**MAIN DIMENSIONS (mm)**

(Data of bigger sizes are available on request)

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SITINDUSTRIE reserves the right to change, without notice, any data shown in the above datasheets.
ASME Class 1500 Lbs (PN250)

Through Conduit Gate Valves are straight-through flow valves which provide positive shutoff, no pressure drop and flow turbulence. Through conduit Gate Valves are bi-directional.

They are recommended for use in a fully open or closed position. Throttling os partially open position promotes erosion, noise and excessive wear.

Sizes: Slab gate 2” to 16” - Expanding gate 2” - 16”

DESCRIPTION AND FEATURES:

- slab or expanding gate
- zero leakage
- stem packable while in service
- Bolted construction for easily disassembly in the field
- Double block & Bleed
- Spring energized floating seats
- Self relieving seats
- Locking device (available on request)
- Emergency sealing injection system

- Design and Test Specifications
  - Pipeline steel valves API 6D
  - Fire safe design API 6FA
  - NACE MR 01-75
  - Face-to-face, end-to-end ASME B 16.10
  - End flanges (14” to 24”) ASMEB 16.5
  - End flanges (24” and larger) MSS-SP-44
  - Weld-ends ASME B 16.25

MAIN DIMENSIONS (mm)
(Data of bigger sizes are available on request)

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For any information please contact:
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