

Instrument Valves



Production and development of standard valves
and customized valve solutions for offshore production platforms



EV METALVÆRK A/S

www.evmetal.dk

ISO 9001 : 2015
Management System Certification

BUREAU VERITAS
Certification Denmark A/S



VALVE DESIGNS

Examples of customized valves available as standard.

CHEMICAL INJECTION VALVE MANIFOLD (3-WAY)

Anti-Galvanic-Corrosion design.
Anti-Crevice-Corrosion design.
Antistatic design, w/non-rotating stem.
Double block & bleed needle valve.
Outlet flange electrically isolated from the valve body by a unique design.

Design pressure: 10.000Psi
MinT / MaxT: -20°C/+130°C.
Dim.: ½" NPT, ¾" NPTF
Valve bore: 5,1mm
Materials: (6Mo) 254SMo
+ carbon steel (outlet flange)
Tests: Acc. to API6A, API6D

(Also available as fire safe design)



DOUBLE BLOCK & BLEED VALVE

Ball-Needle-Ball

Design pressure: 6.500Psi
MinT / MaxT: -20°C/+130°C.
Dim.: ½" NPTF
Materials: SAF2507, AISI316L



BALL VALVE WITH BLEED FUNCTION

Full bore

Compact flanged design.
Design pressure: 3.500Psi
MinT / MaxT: -20°C/+130°C.
Dim.: 2"
Materials: AISI316, SAF2507

FIRE SAFETY VALVE WITH FUSIBLE PLUG (FSV)

Lockable handle (ø50mm/ø70mm).
Antistatic design.

Design pressure: 10.000Psi
MinT / MaxT: -29°C/+130°C.
Inlet.: Grayloc® 1 1/2 GR11 hub
or similar

2xOutlet: ½ NPTF
Materials: AISI316L PED, ASME B16.34,
Tests: Acc. to API6A, API6D, PL-3 PR-2
(Also available as double block valve)



3-WAY MANIFOLD FOR TP TRANSMITTER

Anti-Crevice-Corrosion design.
Antistatic design w/non-rotating stem.

Design pressure: 10.000Psi
MinT / MaxT: -29°C/+130°C.
Materials: AISI316, 22Cr, 25Cr, 6Mo.
(Also available as 5-way manifold)

VALVE DESIGNS

Examples of customized valves available as standard.

BLOCK & BLEED VALVE WITH LOCKABLE HANDLE

Antistatic design, w/non-rotating stem.
Design pressure: 6.500Psi
MinT / MaxT: -20°C/+130°C.
Dim.: 1/2" NPT
Materials: AISI316, SAF2507



CHECK VALVE/NON RETURN VALVE

Design pressure: 7.250Psi
MinT / MaxT: -20°C/+130°C.
Dim.: G1/2"
Materials: AISI316, SAF2507
Inconel® 625 alloy spring



PILOT TRIP VALVE

Fire protection valve.
Needle valve with metal seat.
Trip test: 2 barg closing pressure
Locked with safety split.
Design pressure: 500Psi
MinT / MaxT: -20°C/+130°C.
Materials: AISI316
Dim.: 1/4" NPT

SDBB VALVE WITH PATENTED ANTI-CREVICE-CORROSION DESIGN

Slim Line Double Block & Bleed Valve
Anti-Crevice-Corrosion design.
Design pressure: Up to 6.250Psi
MinT / MaxT: -20°C/+130°C.
Dim.: 2" NPT
Valve bore: 5.1mm
ANSI Class#: 2500
Conn.: RF, RTJ, Hub, Thread
Instr.: 1/2" NPT
Vent.: 1/4" NPT
Materials: Class HH, SAF2205
Tests: Acc. to API6FA,
API6D PL-3 PR-2



VALVE DESIGNS

Examples of customized valves available as standard.

SDBB VALVE WITH PATENTED ANTI-CREVICE-CORROSION DESIGN

Slim Line Double Block & Bleed Valve.
Anti-Crevice-Corrosion design.
Design pressure: Up to 6.500Psi
MinT / MaxT: -20°C/+130°C.
Dim.: ½" to 2"
Valve bore: 5.1mm
ANSI Class#: 150 to 2500
Conn.: RF, RTJ, Hub, Thread
Instr.: ½" NPT
Vent.: ¼" NPT
Materials: AISI316, 22Cr, 25Cr, 6Mo.
Tests: Acc. to API6FA,
API6D PL-3 PR-2



SDBB VALVE WITH PATENTED ANTI-CREVICE-CORROSION DESIGN

Slim Line Double Block & Bleed Valve.
Anti-Crevice-Corrosion design.
Design pressure: 6.250Psi
MinT / MaxT: -20°C/+130°C.
Dim.: ½" to 2"
Valve bore: 5.1mm
ANSI Class#: 150 to 2500
Conn.: RF, RTJ, Hub, Thread
Instr.: ½" NPT
Vent.: ¼" NPT
Material: Class HH, SAF2205
Tests: Acc. to API6FA,
API6D PL-3 PR-2



TRUNNION MOUNTED BALL VALVE

PIG launcher valve.
MinT / MaxT: -40°C/+93°C.
ASME B16.34 Class2500.
PED Fluid group 1 & 2.
T-bar or Handwheel.
Springs: Inconel X-750
Seat: PEEK
Seals: PTFE, HNBR, Graphite
Design pressure: 4.500Psi.
Full bore.
MinT / MaxT: -40°C/+90°C.
Dim.: 1" NPT or 1"/ 1½"/ 2" welded conn.
Materials: AISI316L (painted)



VALVE DESIGNS

Examples of customized valves available as standard.

MANUAL METERING VALVE

High precision needle valve for corrosion inhibitor injection.
Flow: 3.0L/h to 8.0L/h.
3.0L/h to 27.0L/h
15.0L/h to 38.0/h
Design pressure: 2.000Psi.
MinT / MaxT: -40°C/+90°C.
Dim.: ¼" NPTF
Materials: 6Mo (1.4547)



AUTOMATIC METERING VALVE FOR 24V ELECTRICAL ACTUATOR

High precision needle valve for corrosion inhibitor injection.
Flow: 0.5L/h to 10L/h, dp 43,5Psi
Design pressure: 5.220Psi
MinT / MaxT: -10°C/+40°C.
Dim.: ¼" NPTF
Materials: AISI316L (1.4404)
(Actuator acc. to customer specifications).

MANUAL NEEDLE VALVE FOR HYDROGEN (H2)

Design pressure: 21.500Psi
MinT / MaxT: -40°C/+230°C.
Dim.: ¼", 3/8", 9/16", ¾"
(Cone&Thread)
Materials: AISI316L

Please explore EV Metals complete valve and fitting program for hydrogen (H2) on www.evmetal.dk



MANUAL NEEDLE VALVE

Lockable handle (ø50mm/ ø70mm).
Design pressure: 10.000Psi
MinT / MaxT: -29°C/+130°C.
Dim.: ½ NPTF
Materials: AISI316L
Tests: Acc. to API6A, API6D, PL-3 PR-2



EV Metalværk A/S has more than **90 years of experience** covering:

- Ability to process complex parts with tight tolerances and parts in hard-to-machine materials.
- Ability to listen and to understand client's issues and needs.
- Experience with the demands of international clients as their preferred partner.
- Focus on personal safety and testing products to own or client's requirements.
- Prototyping, serial production, assembly, and continual improvements.
- High product safety and long product lifetime.
- Manufacturing and sales of EV Metals own products.
- Production and sales of valves, fittings, and other CNC components.
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