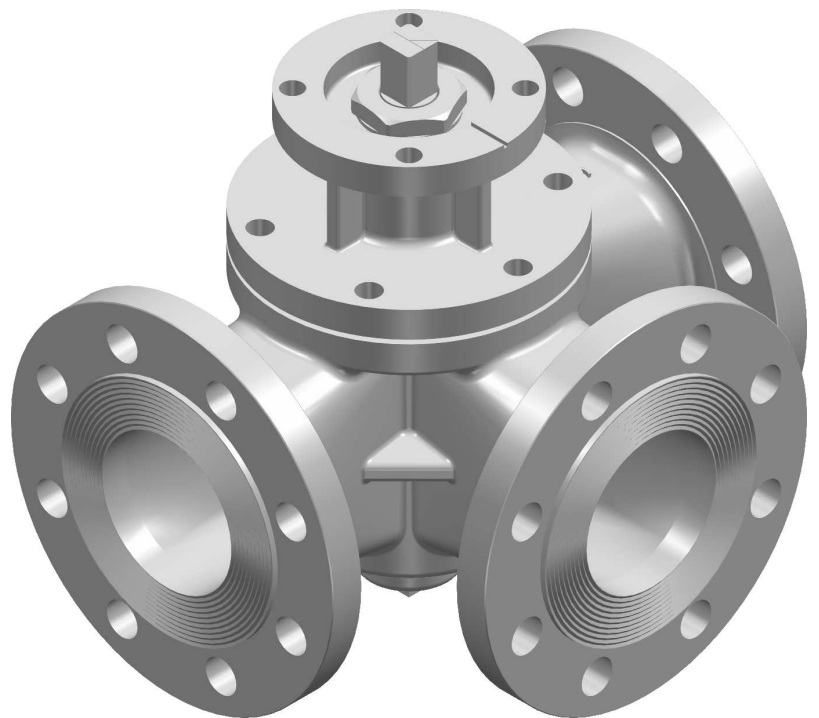




PONHAN 3-WAY COCK VALVE

USERMANUAL

Installation, operation and maintenance



MER ENN 120 ÅRS ERFARING SOM LEVERANDØR AV VENTILER OG INSTRUMENTERING

Oslo | Bergen | Arendal | Larvik | Trondheim

INNHold

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USED AND PERFORMANCE SPECIFICATIONS

USED

Product is used as a three-way control valves designed for either converting (blender) or diverging (diverter) applications.

- Blending or diverting applications
- Designed for control systems in industrial, utility and marine applications.
- Valve trim in ASTM B148 Aluminium-Bronze material
- Can be used with pneumatic or electropneumatic positioners

PERFORMANCE SPECIFICATION

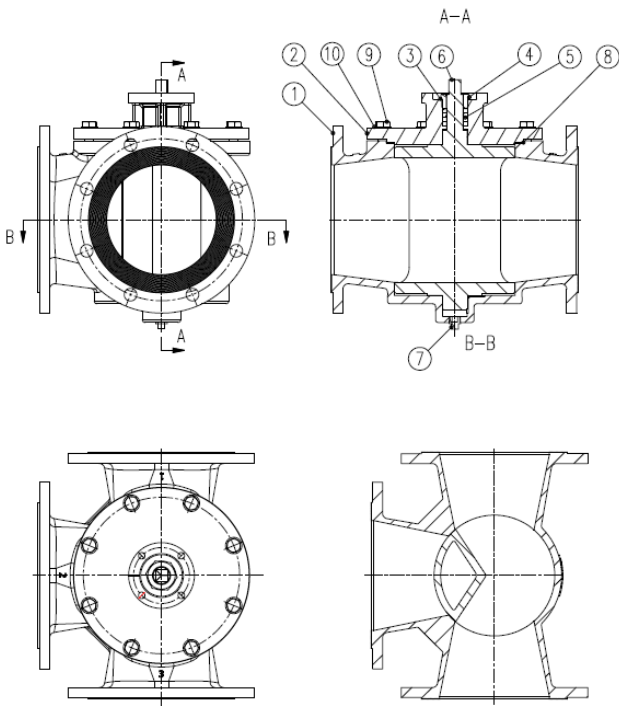
SHELL TEST	SHELL TEST (HYD.)	SHELL TEST (AIR)
2.4 MPa	NA	NA

STANDARDS USED

	STANDARD
Design	API 599-2013
INSPECTION & TEST	API 598-2016
END FLANGE DIMMENSION	HG/T 20592-2017
FACE TO FACE	USER STANDARD

STRUCTURAL FEATURES AND OPERATING PRINCIPLES

STRUCTURE DRAWING AND MATERIAL OF MAIN PARTS



NO.	PART NAME	MATERIAL
1	Body	A216 WCB
2	Bonnet	A216 WCB
3	Adjustable pad	A240 304
4	Gland	A276 316
5	Packing	PTFE
6	Plug	B148 C95800
7	Plug Screw	A276 316
8	Gasket	Spiral Wound Graphite/316
9	Bolt	A4-70
10	Washer	A240 304

SAFEKEEPING, INSTALLATION, USAGE AND CONTROLLING

SAFEKEEPING

- Valve must be kept in a dry and ventilated room
- Use plastic plug/cover when storing the valve

INSTALLATION

- Valve can be installed in any position, but it must be easy to maintain, repair and operate
- Before installation, turn the cock and check the inner cavity and sealing surface
- Before installation, carefully check whether the valve mark and nameplate are consistent with the working conditions
- Before installation, check whether the body cover bolts are tightened evenly and whether the packing is pressed evenly
- During installation, the connecting bolts should be tightened evenly and symmetrically to avoid uneven pretightening of the body and cover
- After installation, valve must be fully open for pipeline purge and pressure test

USE

- Valve operating conditions must be consistent with the nameplate and instructions
- Valve is equipped with position indicator and the selected operating device is easy to operate

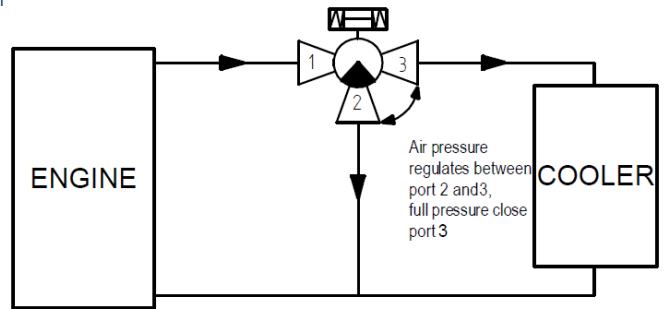
FLOW MIXING/DIVERTING OPTIONS

The 3 way valve is delivered with flow mixing and diverting options. The different setups can be viewed from the pictures below.

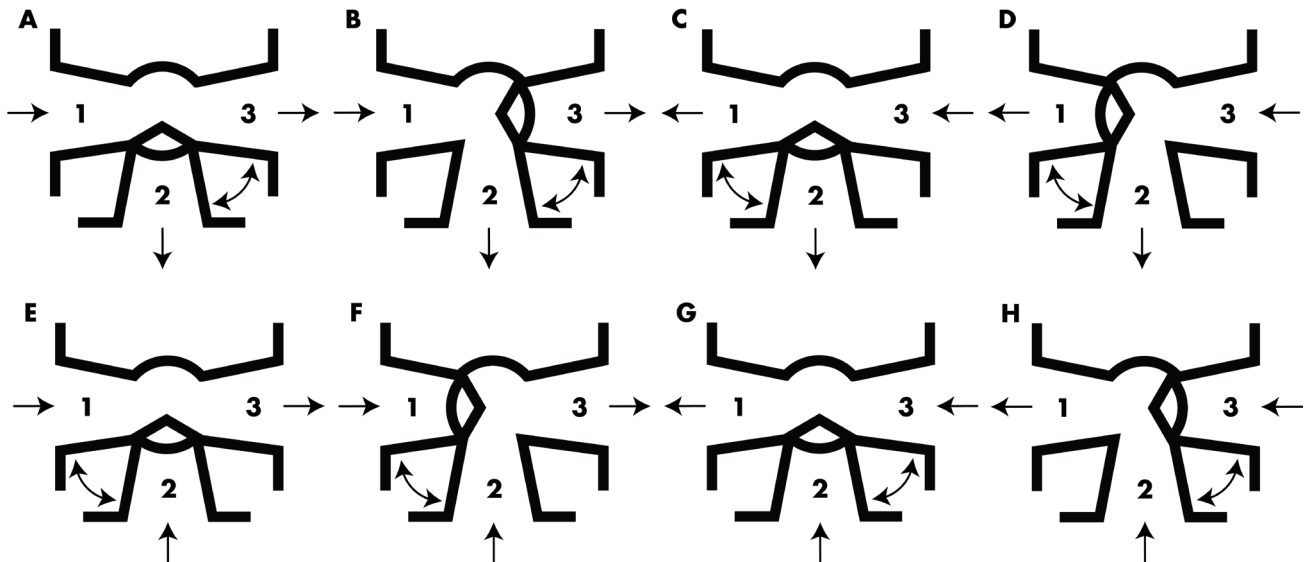
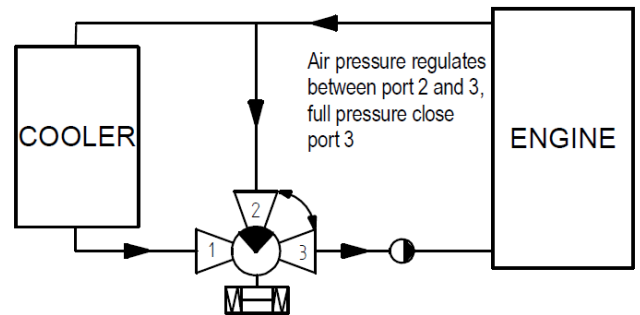
PICTURE A - D IS FOR DIVERTING.

PICTURE E - H IS FOR MIXING.

**SPRING CLOSURES PORT 2
AIR CLOSURES PORT 3
DIVERTING APPLICATION**



MIXING APPLICATION



CHECK

Valve should be checked periodically during use and repaired in time if any problem is found. After valve repair and assembly, pressure test shall be carried out according to relevant standards. Keep a record of the situation for examination.

TROUBLESHOOTING

FAULT	WHY	SOLUTION
Leakage at body and cover connection	Uneven fastening of connecting bolts	Loosen bolt and reset
Leakage at body and cover connection	Gasket damage	Replace gasket
Packing leakage	Packing not tight enough	Adjust gland
Packing leakage	Packing has been out of action for too long	Change packing

MATTERS NEEDING ATTENTION

- Selection of valve materials, the possibility of deterioration in use, and the necessary periodic inspection are the responsibility of the user
- Rapid fluctuation of pressure and temperature; Harsh working environment: such as field, vibration, fire, wind, earthquake, etc.) the structural requirements shall be specified in the contract accordingly
- Valve is only designed for minor corrosion.
- Valve pressure test according to the provisions of article 1.2, exceed (including instant) the consequences caused by this range is entirely the responsibility of the user
- Surface temperature of the valve may cause human contact scald in the process of operation. The user must set warning signs in the corresponding parts
- Valve shall not be removed under pressure
- Valve shall be repaired according to the material specified in table 3
- The valve design does not carry on the life calculation, the test and the fatigue strength check, the user must regularly overhaul, the replacement when using
- The design of the valve does not take into account the seismic load, the resulting consequences, the manufacturer is not responsible

Oslo



Trondheim



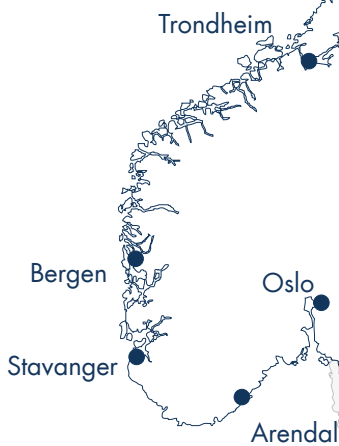
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Ved å bruke produkter fra J.S. Cock, kan vi sikre best mulig kvalitet for alle kritiske komponenter på installasjonen. Vår produktportefølje er meget omfattende og består av alle ventiltyper og instrumenter som brukes innen offshore, shipping og landsbasert industri.

J.S. Cockeren av Norges absolutte ledende leverandører og vi jobber kontinuerlig med å overgå våre kunders nåværende og fremtidige forventninger.



RIKTIG FØRSTE GANGEN