

REFERENCE

CERTIFICATE

ISO 9001 : 2008  
 ISO 14001 : 2004  
 BS OHSAS 18001 : 2007

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**INFORMATION**

The manifolds described in the operating instructions has been manufactured using state-of-the-art technology. All components are subject to stringent quality and environmental criteria and safe-guarding our skilled personnel during production. Our integrated management systems are certified to ISO 9001:2008, ISO 14001:2004 & BS OHSAS 18001:2007.

These operating instructions contain important information on handling the manifolds. Working safely requires that all safety instructions and work instructions are observed.

Observe the relevant local accident prevention regulations and general safety regulations for the manifolds use.

The operating instructions are part of the instruments and must be kept in the immediate vicinity of the manifold and readily accessible to skilled personnel at any time.

Skilled personal must have carefully read and understood the operating instruction manual prior to beginning of the mounting.

Manufacturer's liability is void in the case of any damage caused by using the product contrary to its intended use, non-compliance with these operating instructions, assignment of insufficient qualified skilled personnel or unauthorized modifications to the manifolds.

This instruction manual is subject to change without notice and the manufacturer reserves all rights.



**WARNING! / CAUTION!**

.....indicates potentially dangerous situations.



**INFORMATION**

.....Indicates recommendations and information for efficient and trouble-free operation.

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**SAFETY**



**WARNING!**

Before installation, commissioning and operation ensure that the appropriate manifold has been selected in terms of pressure rating, design and specific mounting styles.

Before installation, commissioning and operation ensure that the 5-valve manifolds material used is chemically resistant / neutral to the medium being measured and that it withstands the mechanical stresses from the process.

Non-observance can result in serious injury and/or damage to equipment.

For hazardous media such as oxygen, acetylene, flammable or toxic gases or liquids, and refrigeration plants, compressors, etc., in addition to all standard regulations, the appropriate existing codes or regulations must also be followed.

Make sure that the manifold is sufficiently earthed.

## INTENDED USE



### CAUTION!

Manifolds are used to mount pressure and differential pressure instruments to the process. Furthermore, 2-valve, 3-valve & 5-valve manifolds enable the removal of the pressure and differential pressure instruments without having to shut down the process; and they guard against damage to either the environment or to personnel, which might be caused by escaping process media.

The manifolds has been designed and built solely for the intended use described here, and may only be used accordingly. Suited to control oil, water, toxic fluids, chemicals, air, and steam; a 2-valve manifolds has (1) isolate and (1) vent valve where as a 3-valve manifolds has (2) isolate, (1) equalizing valves with plugged vents and a 5-valve manifolds has (2) isolate, (1) equalizing, and (2) vents/vent valves. Each valve stem is precision machined with hard seats to reduce operating torque.

The technical specifications contained in these operating instructions must be observed. Should the 2-valve, 3-valve 5-valve manifolds be improperly handled or operated outside of its technical specifications, it has to be inspected immediately.

The manufacturer shall not be liable for claims of any type based on operation contrary to the intended use.

## COMMISSIONING & OPERATION



### MOUNTING

The connections to the manifold connection shall be matched to the pressure and differential pressure instrument which is going to be mounted. The manifold can be mounted in any position. The manifolds are fitted with color coded caps for valve function identification.



ISOLATE



EQUALIZE



VENT / TEST



Do not remove the instrument from Manifold when the system is under pressure.  
Do not remove the safety pin provided on the body.  
Do not use the manifolds above the recommended working pressure and temperature in the specifications.



### OPERATION

Make sure that the threaded joints are tight. Open the vent valve by moving the handle in the counterclockwise direction, close the isolation valve by moving the handle in the clockwise direction and remove the vent plug to drain out the fluid. To isolate the system, close the vent valve by moving the handle in the clockwise direction and open the isolation valve by moving the handle in the counterclockwise direction.

Mount the instrument while the manifolds is isolated from the process, i.e., the isolate valve is in close position. Open the equalize valve by moving the handle in the counterclockwise direction, now open the isolates gradually until the pressure reaches in an equilibrium and the instrument shows a 'zero' value. At this, close the equalize valve by moving the handle in the clockwise direction.

Manifolds are suitable for wide use over a broad range of industrial applications including oil refineries, nuclear power stations, petrochemical processing, and many more.

**MAINTENANCE****WARNING!****Dismounting**

Only disconnect Manifolds once the system has been depressurized!

**Risk of burns!**

Let the instrument cool down sufficiently before dismounting it!

When dismounting it, there is a risk that dangerously hot pressure media may escape.

Residual media on dismantled Manifolds can result in a risk to persons, the environment and equipment. Take sufficient precautionary measures.

**MAINTENANCE**

After final installation of the Manifolds, some routine maintenance is required.

We recommend a visual check of the Manifolds for leaks and damages at regular intervals.

The Manifolds are not field-repairable with the exception of previously stated maintenance.

Field repair should not be attempted and may void the warranty.

Check with our Customer Service to get the compliant registered in case the material falls in the warranty period.

Please include a brief description of the problem with a photograph with any other relevant application notes that we should know.