MĚŘÍCÍ A REGULAČNÍ TECHNIKA

B.1.43.

PRESSURE GAUGE ASSEMBLY THCR-II A FOR KRYO USE

diameter 100, 160mm with multifunction valve



OTHERMI5

DIFFERENTIAL PRESSURE GAUGE:

indicates differential pressure between bottom and top layer of liquid in a container
model THCR-II
160mm/100mm
max. static pressure 40 bar
differential ranges: 0-15kPa (0-1,5m H2O) 0-20kPa (0-2,0m H2O) 0-30kPa (0-2,0m H2O)
accuracy: ±2,5% of the range
oxygen purity
connection M18X1.5 (metric) or ¼ - 18 NPTF

STATIC PRESSURE GAUGE:

measures pressure of the top vapour phase in a container
model 322ROB 100mm
pressure ranges: 0-1; 1,6; 2,5; 4; 6; 10; 16; 25; 40bar
accuracy: 1,6% from all range
oxygen purity
connection M20x1,5

OPTIONAL ACCESSORIES:

transducer for static pressure 4-20mA, 0-10V
 transducer for differential pressure (layer) 4-20mA, 0-10V

 switching contacts Min/Max
 individual procedural connection threads M, G, NPT design inner, outer, welding tubular connection
 mounting flanges

SPECIFICATION:

Model THCR-II A is a combined differential pressure gauge, used for indication of differential pressure in cryogenic containers that contain liquefied gases. THCR-II A contains three basic elements - differential pressure gauge, static pressure gauge and multifunction valve. All set is placed in an aluminum heavy-duty case for increased protection of the entire device.

MULTIFUNCTION VALVE: Replaces 4 original valves on the container. Broken differential or static pressure gauge may be replaced without isolation gas pipeline, only by gradual adjusting. When using multifunction valve, the whole process is simplified, random step may be eliminated and thus the differential pressure gauge is protected and its life-time is prolonged. Also the area of pipeline installation my be reduced compared to the original 4-valve design.

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Dimensions in mm									
А	В	С	D	E	F	G	Н		
210	325	120	165	95	120	270	10		

• inner scheme







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Dimensions in mm								
А	В	С	D	E				
122	62	170	8	12				

3 POSSIBLE MODES OF THE MULTIFUNCTION VALVE

Open:

At maximum stroke (lever fully opened in clock-wise direction) both the differential and static pressure gauges indicate operational values (see picture a).

Close:

Valve is fully closed (turn lever in anti-clockwise direction). There is no flow of medium, both pressure gauges indicate zero (see picture b).

Balance:

Lever is in any position. Standard pressure gauge indicates pressure of top vapour in a container. Differential pressure gauge does not indicate any value, needle points to zero. Protected from resonance and dynamic impacts (see picture c).



STATIC AND DIFFERENTIAL PRESSURE TRANSDUCERS

Pressure gauges THCR-II A may also be equipped with static and differential pressure transducers. All communication protocols possible, most often je 4-20mA, 0-10V DC etc. Connection by means of universal connector according to DIN 43 650.

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