

INTERCHANGEABLE CONNECTORS FOR PRESSURE GAUGES

Section: 1

Sheet No.: 260GB

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TEMPRESS interchangeable connectors

- Standard fitting on all TEMPRESS pressure gauges
- Manufactured in three different materials
 - BRASS
 - NICKEL-PLATED STEEL
 - STAINLESS STEEL, AISI 316
- More than 20 thread types available
eg. G $\frac{1}{2}$ B, $\frac{1}{2}$ NPT, M12x1,5



All TEMPRESS pressure gauges, with the exception of one, are supplied with the interchangeable connector that best meets the customer's requirements. Should a thread other than the original be required, the nipple can be easily exchanged for one from the chart below.

NB. DN80 duplex and differential pressure gauge

80M11 / 80M51 / 80M12 / 80M52
use two nipples for DN63, see page 2

80M21 / 80M61 / 80M22 / 80M62
use 1 nipple for DN80 (bottom), see page 1
use 1 nipple for DN63 (top), see page 2

Interchangeable connectors for pressure gauges DN 80, DN 100, DN 160, DN 250, DN 96x96 and DN 144x144						
Thread type	BRASS	Max. press.	Ni.-PLAT. STEEL	Max. press.	AISI 316	Max. press.
G1/8B	No. 683	630 bar			No. 5958	1000 bar
G1/4B	No. 671	500 bar	No. 1630	630 bar	No. 689	800 bar
G1/4B w. spigot	No. 6381	500 bar				
G3/8B	No. 523	630 bar	No. 494	1000 bar	No. 679	1250 bar
G3/8B w. spigot	No. 252	630 bar				
G1/2B	No. 560	800 bar	No. 36	1250 bar	No. 678	1600 bar
G1/2B w. spigot	No. 6382	800 bar				
G1/2B DIN	No. 3407	800 bar	No. 1893	1250 bar	No. 3420	1600 bar
G3/4B	No. 4801	1250 bar			No. 4481	1600 bar
3/8 BSPT					No. 2900	1250 bar
1/4 flare (7/16-20 UNF(SAE))	No. 672	500 bar			No. 314	800 bar
1/8 NPT	No. 686	630 bar	No. 5736	630 bar	No. 3734 Nr. 4690 No. 677	800 bar
1/4 NPT	No. 682	500 bar				1250 bar
3/8 NPT	No. 3190	630 bar				1600 bar
1/2 NPT						
M20x1,5	No. 4667	800 bar			No. 5199	1600 bar
M12x1,5 (for Ø6 mm tube, compress. gland)			No. 673	315 bar	No. 2367	315 bar
M14x1,5 (for Ø8 mm tube, compress. gland)			No. 4061	315 bar	No. 3286	315 bar
M16x1,5 (for Ø10 mm tube, compress. gland)			No. 788	315 bar	No. 1945	315 bar
Union M12x1,5			No. 1387			
- M14x1,5			No. 150			
- M16x1,5			No. 6525			
Olive Ø6 mm			No. 1388			
- Ø8 -			No. 2860			
- Ø10 -			No. 6535			
G1/8 female thread	No. 4941	400 bar				
G1/4 -	No. 2751	200 bar				
1/4 NPT	No. 6516	500 bar				
Throttle screw standard	No. 152				No. 1427	
- heavy duty	No. 2129					
Gasket PTFE	No. 1051					
				Extra gasket	Fiber	Copper
				G1/4	No. H143	No. 8760
				G3/8	No. H144	
				G1/2	No. H145	No. 8637

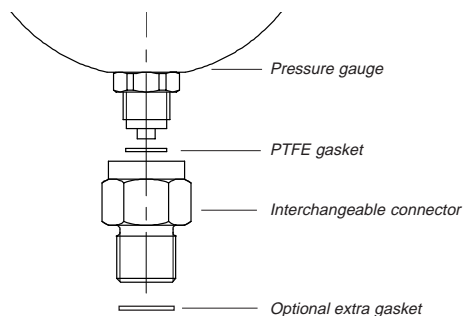
Agent:



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315 bar	–	4500 psi
500 -	–	7300 -
630 -	–	9200 -
800 -	–	11700 -
1000 -	–	14600 -
1250 -	–	18200 -
1600 -	–	23500 -

NB. DN 63 pressure gauge with rear centre connection
This instrument type does not have an interchangeable connector.

Thread type	BRASS	Max. press.	Ni.-PLAT. STEEL	Max. press.	AISI 316	Max. press.
G1/8B	No. 684	630 bar			No. 692	1000 bar
G1/4B	No. 675	800 bar			No. 688	1250 bar
G1/4B DIN	No. 5635	800 bar			No. 3828	1250 bar
G3/8B	No. 680	1000 bar			No. 141	1600 bar
G3/8B w. spigot	No. 6379	1000 bar				
G1/2B	No. 690	1250 bar			No. 693	1600 bar
G1/2B w. spigot	No. 6380	1250 bar				
1/4 BSPT					No. 3339	1250 bar
1/4 flare (7/16-20 UNF(SAE))	No. 687	800 bar			No. 3219	1250 bar
3/8 flare (5/8-18 UNF(SAE))	No. 6931	1000 bar				
1/8 NPT	No. 4047	630 bar			No. 5158	1000 bar
1/4 NPT	No. 681	800 bar			No. 4050	1250 bar
1/2 NPT					No. 4051	1600 bar
M10x0,75			No. 1804	800 bar		
M12x1,5 (for Ø6 mm rør, compression gland)			No. 691	315 bar	No. 3872	315 bar
M14x1,5 (for Ø8 mm rør, compression gland)			No. 4052	315 bar		
Union M12x1,5			No. 1387			
- M14x1,5			No. 150			
Olive Ø6 mm			No. 1388			
- Ø8 -			No. 2860			
Throttle screw standard	No. 152				No. 1427	
- heavy duty	No. 2129					
Gasket PTFE	No. 161				Extra gasket	Fiber
					G1/4	No. H143
					G3/8	No. H144
					G1/2	No. H145
						No. 8760
						No. 8637

Throttle screw

All interchangeable connectors have a thread in the internal inlet hole for mounting a throttle screw.

The role of the throttle screw is to even out pulsations in the medium before it reaches the measuring system. This restricts the amount of pointer vibration, allowing the precise pressure to be read.

Throttle screws are available in standard and heavy duty versions. The standard throttle screw should always be used for pressures of ≥ 60 bar. However, it should also be mounted for lower pressures where pulsations in the medium occur. The heavy duty version may be used where large pulsations and pressure peaks occur in the medium.

Compression connection

The interchangeable connectors with M12, M14 and M16 thread types are designed for a compression connection. This method of connection requires only a $\text{Ø}6$, $\text{Ø}8$ or $\text{Ø}10$ mm tube without a collar. Using a union and olive, the tube is mounted directly on the connector.

Gasket between nipple and pressure gauge

The gasket between the instrument and the interchangeable connector is made of PTFE (Teflon) and is specially designed to create a perfect seal.

Always use the original gasket. The wrong gasket may lead to leakage and, at worst, measuring errors.

Always replace the gasket if the connector has been dismounted.

Gasket between connector and external fitting

Fibre or copper gaskets are ideal for sealing the join between the connector and, for example, the valve on which the pressure gauge is mounted.

Never use fibre or copper gaskets between the instrument and the connector.

Connector mounting or replacement

Tightening momentum: DN63 / DN72x72 14 Nm
all others 20 Nm

Due to the stress deformation of the PTFE gasket, the connector should be tightened immediately before mounting the pressure gauge.