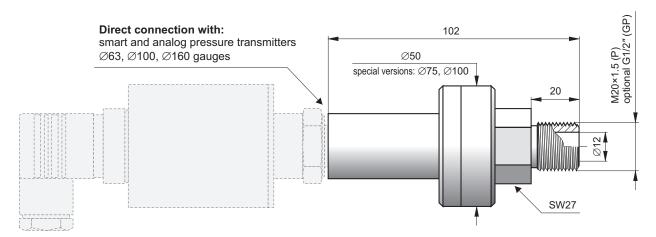


Threaded seals with large diaphragm S-Mazut



Application

The S-Mazut diaphragm seal is applicable to measurement of viscous liquids, at temperatures up to 150°C (300°C when remote diaphragm seal is used). A typical

application is to measure the pressure of heavy fuel oil (petroleum atmospheric residue) in burners and in heat centers of power boilers.

Recommended minimum measuring range (bar), depending on the type of the set: pressure measuring device - diaphragm seal

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	Diaphragm seal type	Pressure transmitter			∅100 gauge		
		S-Mazut	S-Mazut75	S-Mazut100	S-Mazut	S-Mazut75	S-Mazut100
	direct	2,5 bar	0,1 bar	0,05 bar	2,5 bar	1 bar	1 bar
	remote	6 bar	0,4 bar	0,25 bar	6 bar	2,5 bar	1 bar

Zero error from ambient temperature change

Diaphragm seal type		S-Mazut	S-Mazut75	S-Mazut100		
	direct	4 mbar / 10°C	2 mbar / 10°C	0,8 mbar / 10°C		
	Remote (capillary 2m)	5 mbar / 10°C	3 mbar / 10°C	1 mbar / 10°C		

For a set: pressure transmitter - special diaphragm seal (special diaphragm seal means the larger diaphragm diameter), there is the following relation: the quantity of thermal errors decreases proportionally to the cubed value of the active diameter of the separating diaphragm (i.e. to the diameter value raised to the third power).

An additional zero error, resulting from temperature fluctuations in a medium, depends on the temperature gradient in the oil-based diaphragm sealing system. The error value is, in any case, significantly smaller than the error value shown above.

Maximum measuring range 0...70 bar Overpressure limit

Overpressure limit		Special versions
S-Mazut	110 bar	Ø75 and Ø100 versions for low ranges
S-Mazut75	50 bar	Others
S-Mazut100	40 bar	

Medium temperature range

-10...315°C for remote seal -10...150°C for direct seal

Material of diaphragm and seal 316Lss

Ordering procedure

direct diaphragm seal:

pressure measuring device / S-Mazut / type of process connection P, GP / special version (description)

remote diaphragm seal:

pressure measuring device / S-MazutK / K = m / type of process connection P, GP / special version (description)

Transmitter or gauge

- see the code in the appropriate catalogue sheet

Capillary length

