

MFR6 "Mud Gauge" for boring or drilling

Ø 130 mm

Robust construction

Pressure ranges : from 0...60 bar to 0...1000 bar
from 0...1000 psi to 0...15000 psi

Designed for oil industries



This gauge is specially designed to measure the pressure of pulsating fluids including solid particles in suspension. It can also be used for any other fluid.

Its sturdy construction can undergo severe working conditions.

The pressure ranges meet every requirement of the oil industry.

Specifications (20°C)

Ranges	From 0... + 60 bar to 0...+ 1000 bar. From 0... + 1000 psi to 0...+ 15000 psi. (see standard graduations overleaf)
Degree of protection	IP 67
Case	Cast aluminium for $P \leq 400$ bar ($P \leq 6000$ psi) Aluminium bronze for $400 < P \leq 1000$ bar ($6000 < P \leq 15000$ psi)
Window	Thick plexiglas, unbreakable and shockproof
Window gasket	Elastomer
Dial	The dial, driven by the mechanism, moves in front of the pointer located in the center of the upper part of the dial. The increasing pressures appears clockwise on the dial.

Operating principle

The pressure is transmitted by a stainless steel diaphragm (1.4404 / AISI 316L) to a liquid (silicon oil) which totally fills the Bourdon tube, the capillary tube and the pressure chamber.

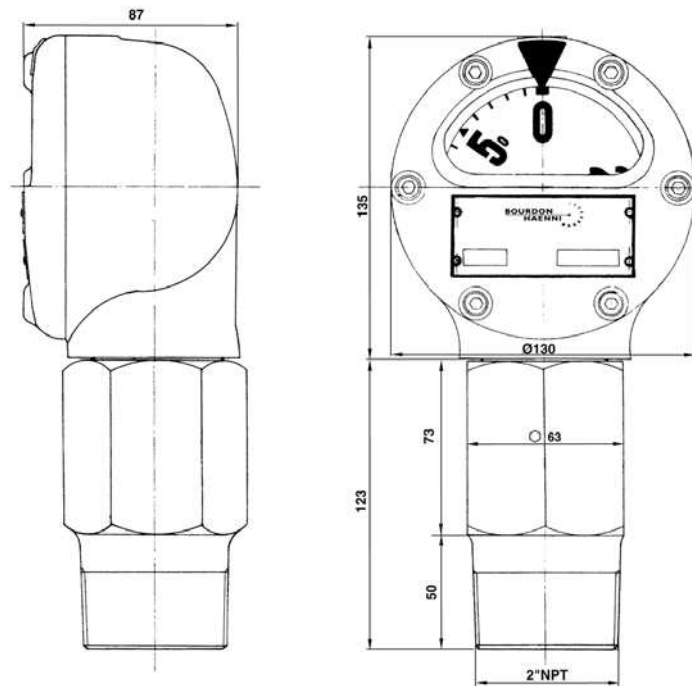
A rubber plug and a rubber diaphragm isolate the stainless steel diaphragm from the circuit.

The sudden pressure variations are dampened in the capillary tube (connection pipe).

The whole pressure element is mounted in an oil-filled case which absorbs all the displacements of the movable parts as well as the external vibrations. The oil also ensures the lubrication of the linkages, eliminates corrosion and avoids condensation on the window of the pressure gauge.

The magnifying movement is reinforced. The screws are positioned with epoxy resin and the Bourdon tube is designed to work with a very low fatigue rate.

Dimensions (mm)



Ranges

Ranges (bar)	0 ... +60	0 ... +100	0 ... +160	0 ... +250	0 ... + 400	0 ... +600	0 ... +1000
Ranges (psi)	0 ... +1000	0 ... +1500	—	0 ... +3000	0 ... +6000	0 ... +10000	0 ... +15000

It is recommended to choose a pressure gauge with a maximum graduation at least 50% superior to the normal working pressure.

Use

The MFR6 pressure gauge is designed for connection on a discharge circuit and is installed without any intermediate accessories, as the assembly includes dampening and isolation devices.

Codification - MFR

		MFRxxxx
Family	1' digit	M
Pressure gauges		
Type	2'...3' digit	FR
MFR		
Dial diameter	4' digit	6
Ø 130		
Unit of measurement ranges	5' digit	B H
bar psi		
Pressure range	6'...7' digit	xx
See codes in table		

bar	Ranges in bar	psi	Ranges in psi
29	0 + 60	30	0 + 1000
31	0 + 100	31	0 + 1500
33	0 + 160		
35	0 + 250	34	0 + 3000
38	0 + 400	38	0 + 6000
39	0 + 600	40	0 + 10000
41	0 + 1000	41	0 + 15000

UK/04-2007 This data sheet may only be reproduced in full