

BULKMETERS



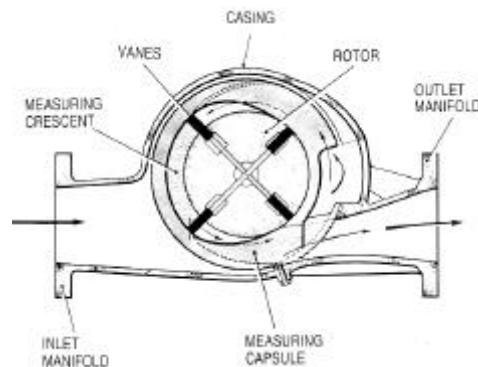
TYPE: MIC 1000 & MIC 3000

Operations

P.D. Meters MIC series are double case meters.

They consist of an external casing which supports line's pressure and an internal measuring chamber, fitted with rotor and vanes. The calibration mechanism, fitted with counter, is mounted on the front side of external casing.

The product enters through the inlet manifold and causes the rotor to revolve in the counterclockwise direction by exerting pressure on the vanes (see figure). The proximity of the rotor to the chamber forms an efficient seal, whilst the profile of measuring chamber ensures that the vanes are guided through the measuring crescent, where the volume of product is accurately measured.



Materials of components and Accessories

- External body and covers in carbon steel
- Internal chamber and rotor in meehanite cast iron
- Vanes in aluminium alloy and rilsan tip
- Mechanical seal in stainless steel/stellite with static ring in metallized carbon
- Static o-ring in viton
- Bearings in AISI 440 C stainless steel with retainer in self lubricating material

Meter can be fitted with:

- Ticket printer
- Preset counter with ex-proof electrical switches
- Automatic mechanical temperature compensator
- Totalizer counter for net volume
- Ex-proof pulse transmitter with proximity switches (Cenelec approved).
- "Vega" electronic counter

Special Executions

- Execution with magnetic drive
- Execution with bearings in oil bath and flow pressure balanced lubrication
- Execution with proportional mechanism

Ball Bearings Lubrication

The main characteristic of the ball bearings lubrication system is to maintain the pressure of lubricating oil balanced to the flow pressure.

The seal elements on rotor spindle give a very low friction, thus they don't affect the measurement accuracy.

The lubrication system shields from wear the bearings and other dynamic components of the meter (rotor, vanes, measuring chamber) with considerable saving on maintenance.

Technical Characteristics

Max. Working pressure

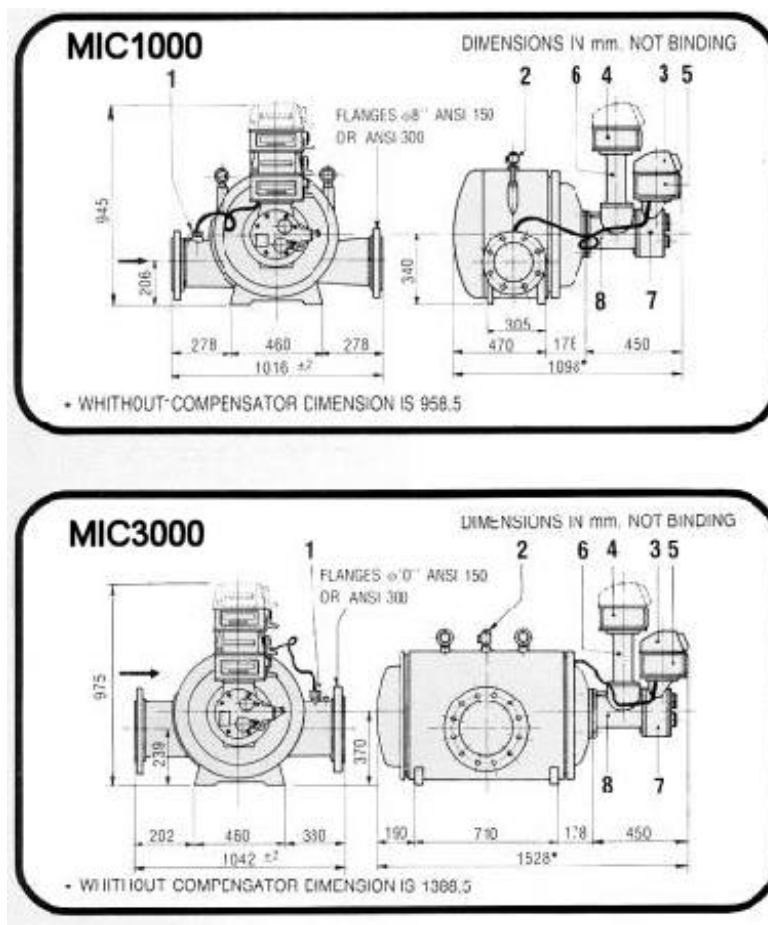
1930 kPa ANSI 150
3200 kPa ANSI 300

Max. Test pressure

2990 kPa ANSI 150
4800 kPa ANSI 300

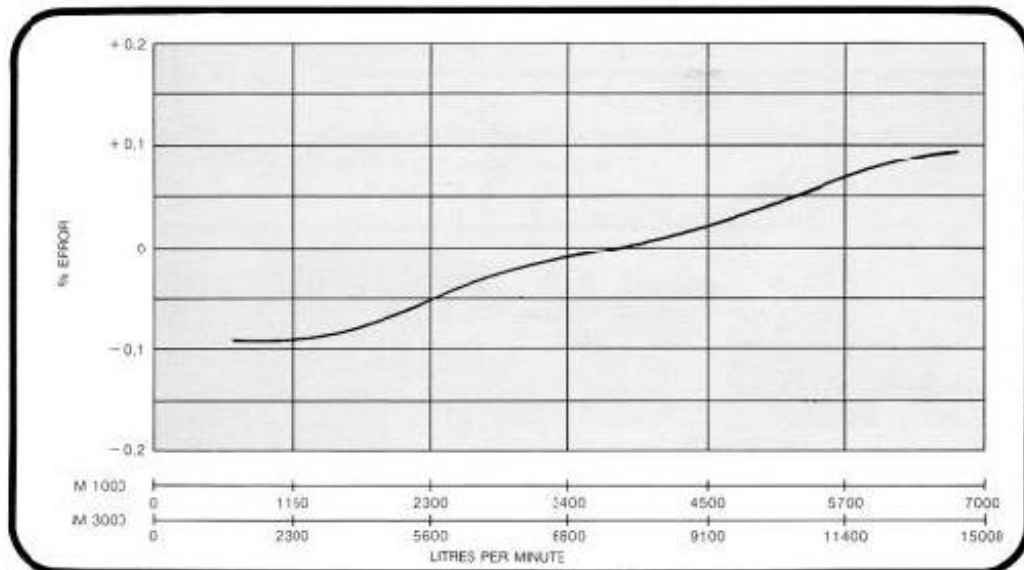
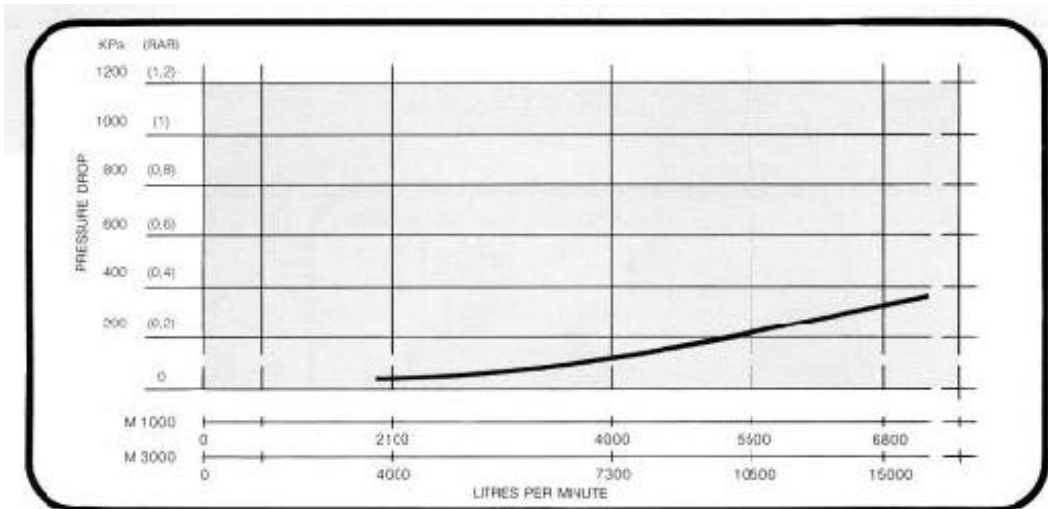
Legend

- | | |
|---|-------------------------|
| 1 Probe of temperature compensator | 2 Pressure relief valve |
| 3 Net volume ticket printer | 4 Gross volume register |
| 5 Net volume register | 6 Extension 250 mm |
| 7 Automatic temperature compensator calibrating mechanism | |
| 8 Net volume calibrating mechanism | |



	MIC 1000	MIC 3000
Flanges	8"	10"
Max. Rate of flow	7850 l/min.	15700 l/min.
Min. Rate of flow	700 l/min.	1400 l/min.
Direction of flow	right	right to left
Accuracy	$\pm 0,1\%$	$\pm 0,1\%$
Repeatability	$\pm 0,01\%$	$\pm 0,01$

Accuracy and Head Losses Curves



FLANGE DRILLING ANSI 150 AND ANSI 300 RF					SHIPPING SPECIFICATIONS		
DIMENSIONS IN mm.	M 1000		M 3000		net weight Kg.	M 1000	M 3000
	ANSI 150	ANS 300	ANSI 150	ANSI 300			
Nominal diameter	200	200	250	250		430	735
Outer flange diameter	343	381	405	444	Gross Weight Kg.	540	945
Holes circle diameter	298,4	330,2	362	387,4	Dimensions cm.	115x117x111	198x125x154
Number of holes	8	12	12	16			
Diameter of holes	22	25,4	25,4	28,6			