

Flowmeters Fixable on Dashboard I.

The **MR** and **XR** (stainless steel), as well as **XRm** (plastic) type housings are primarily indispensable for measurements where the small geometrical dimension and weight are basic requirements. At the rear part of the devices, positioned horizontally there are two C"1/4 connections that are compatible with, and easily joinable to any pipe systems. The rear panel of the housings has been developed in a way that they are fixable on dashboards without difficulties. In the casing shielded with plexiglass and corrosion resistant plates the measuring tube is properly protected against the mechanical impacts that occur in industrial environment. These structures are produced both furnished with valve and without valve*. The clamping block is made from 1.4301 (304L) stainless steel, and POM-C (polyacetal) having excellent strength and impact resistant features, as well as exceptionally good chemical and heat resistance characteristics. The XR and XRm types may be furnished with **inductive detector** upon request.



Measurable media (except for water and air):

Majority of gases, concentrated alkali liquors, concentrated saline solutions, organic liquids, aromatic hydrocarbons, ketones, ethers, esters and other liquids, to which the applied stainless steel or polyformaldehyde can resist.

Max. pressure: 6 bar

Max temperature: ~100°C

Minimum pressure demand:

Depending on the measuring range

for liquid: 0,05...2 bar

for gases: 0,01...1 bar

type code	special design*	material	max. measurable volume		installationn diameter			accessories
			20°C water	20°C air 1,013 bar	connectios		total dim.	
					size	distance		
MR-02; -12	s, h	304L	...50 l/h	...2 Nm ³ /h	C"1/4	90	115	restrictors (C"1/4 ÷ C"1/8) Pipe connections to plastic and metal pipes Hose connections Push-on connections
MR-03; -13							152	
XR-01; -11			...100 l/h	...2,5 Nm ³ /h		190	223	
XR-02; -12			...150 l/h	...3 Nm ³ /h		250	283	
XRm-00; -10		POM-C	...50 l/h	...2 Nm ³ /h		127	152	
XRm-01; -11			...100 l/h	...2,5 Nm ³ /h		190	223	
XRm-02; -12			...150 l/h	...3 Nm ³ /h		250	283	

* The first digit in the type code refers to the version i.e. „0” to versions with valve, „1” to versions without valve.

The net diameter of the conical valves in the valve type housings is Ø2,9 mm. Upon special requirements (e.g. high pressure, or low stream) the conical valve may be supplied with diameter Ø1,3 mm. This is marked with an „s” following the type code (e.g. XR-02s). When smaller valve is applied the maximum measurable volumes are considerably lower.

The letter „h” following the type code refers to the fact that the valve is located at the outlet end (e.g. MR-03h).

The lower measuring point of the measuring tubes is generally 10% of the top measuring point.

In the case of media whose density and viscosity are significantly different from that of water of 20°C and air of 20°C with 1,013 bar (abs), the limits of measurement ranges may vary **significantly** both in positive and negative directions.