



INDICATING FLOWMETER WITH BUILT-IN AIR VALVE, ROTROM ID/IDR type



DESCRIPTION

The flowmeter are made to measure small air flows. The measurement is made on flowmetric principle : the flow value is real horizontal on the upper edge of the imerser or horizontal median – in case of the spherical imerser – on a flow units graded scale.

The flow can be adjusted to any value of the measurement domain by using the built-in valve, and the flowmeter with regulator, ensure the constant maintainance of the flow at pressure variants from up stream and down stream of the device.

The working of the flowmeters in between optimum parameters is determined by the filtering of the measured air flows and ensuring of the linearity of the pipe for 10 Dn up stream and 5 Dn down stream of the flowmeter (Dn ~ 13 mm).

Constructive types :

- ROTROM - ID 2 : built-in valve in the lower body (fig.1)
- ROTROM - ID 3 : built-in valve in the device body (fig.2)
- ROTROM - ID 3.2 : built-in valve in the upper body (fig.3)
- ROTROM - ID : built-in valve in the upper body (fig. 4)
- ROTROM - IDR : built-in valve and regulator in the lower body (fig.5)

TECHNICAL DATA

Variant	Q_{min}	Q_{max}	ΔP_{max} bar	Accuracy %	P_{max} bar	t °C	Weight Kg
	Nl/h air						
ROTROM ID2 -2.1 V ₂ A	10	65	0,005	± 5	10	0...100	0,3
ROTROM ID2 -2.1 PTFE	4,5	27	0,001	± 15		0...60	
ROTROM ID2 -2.1 PVC - M	3	10	0,07				
ROTROM ID2 -2.2 V ₂ A	60	270	0,003			± 5	
ROTROM ID2 -2.2 PTFE	20	110	0,007				
ROTROM ID2 -2.3 V ₂ A	150	600	0,04				
ROTROM ID2 -2.3 PTFE	45	270	0,01				
ROTROM ID2 -2.4 V ₂ A	200	900	0,06				
ROTROM ID2 -2.4 PTFE	50	400	0,01				

Variant	Q_{min}	Q_{max}	ΔP_{max} bar	Accuracy %	P_{max} bar	t °C	Weight Kg
	Nl/h air						
ROTROM ID 3-V ₂ A	250	1500	0,1	±5	6	0...100	0,148
ROTROM ID 3-PTFE	100	700	0,1	±5	6	0...100	0,350
ROTROM ID 3.2-V ₂ A	250	1500					
ROTROM ID 3.2 -PTFE	100	700					

Variant	Q_{min}	Q_{max}	ΔP_{max} bar	Accuracy %	P_{max} bar	t °C	Weight Kg
	Nl/h air						
ROTROM-IDR -A / OL	10	75	0,15	±10	4	0...90	1,1
ROTROM-IDR -B / OL	15	95					
ROTROM-IDR -C / OL	45	220					
ROTROM-IDR -D / OL	70	400					
ROTROM-IDR -E / OL	140	660					

Variant	Q_{min}	Q_{max}	ΔP_{max} bar	Accuracy %	P_{max} bar	t °C	Weight Kg
	Nl/h air						
ROTROM-ID -A / OL	10	70	0,006	±10	4	0...60	0,4
ROTROM-ID -B / OL	15	100	0,007				
ROTROM-ID -C / OL	40	220	0,022				
ROTROM-ID -D / OL	60	380	0,030				
ROTROM-ID -E / OL	140	650	0,045				

ORDERING

The following will be indicated : Flowmeter type and measurement domain

For fluids different from the standard (air) only for type ROTROM-ID 2 there is a *Technical Ordering – Contracting Form (FCC)* used to complete the *Flow Scale Form (FSD)*, which accompanies every device.

APPLICATION

Fitting in the installation is made vertical ;

It will be attached with: 2 screws M3 on a support plate - ROTROM - ID 2

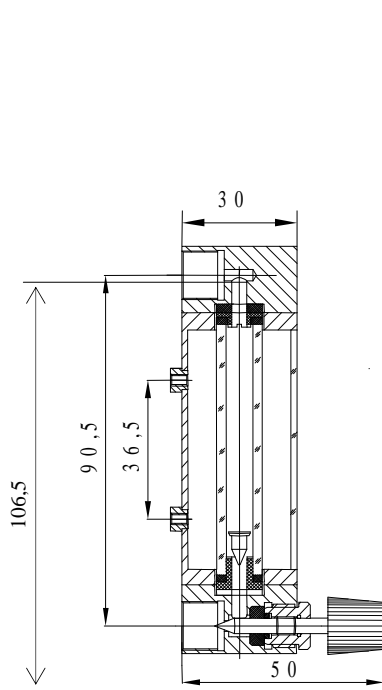
2 screws M6 - ROTROM - ID 3

2 screws M4 on a support plate - ROTROM - ID 3.2; ID2.1 PVC/M

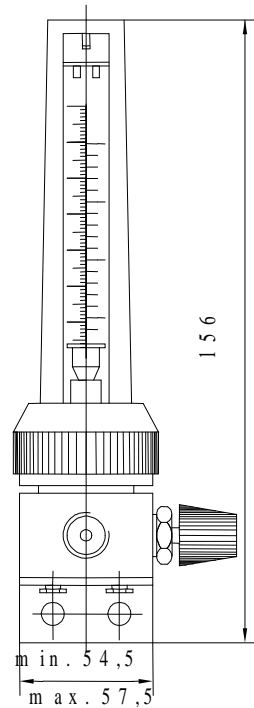
2 screws M5 on a support plate - ROTROM - IDR

2 screws M3 - ROTROM - ID

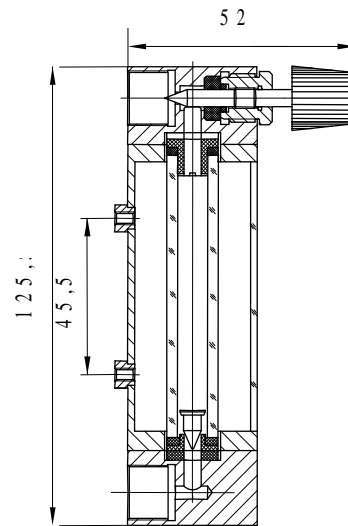
Fitting will be made using a $\phi 6 \times 1$ copper pipe, $\phi 6 \times 1$ polyethylene hose, ermeto fittings.



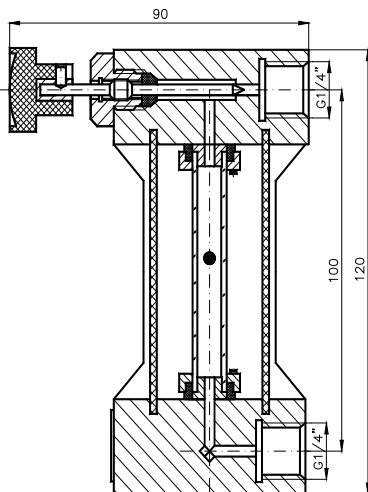
ROTROM-ID 2 Fig. 1



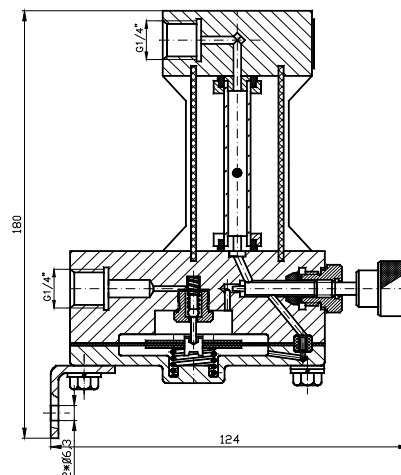
ROTROM-ID 3 Fig. 2



ROTROM-ID 3.2 Fig. 3



ROTROM-ID Fig. 4



ROTROM-IDR Fig. 5