

# FLOW REGULATORS FOR SEMI-RIGID PIPE

## PLASTIC FLOW REGULATORS FOR SEMI-RIGID PIPE VMRP18 SERIES



## DESCRIPTION

Air flow regulator for semi-rigid pipes, consisting of a flat plastic disc to be inserted inside the corresponding GREY collar (Ø75 or Ø90) or AIRPIU' series joint. The disc consists of No. 4 cutter-removable rings, as well as a ring outside. It is possible to calibrate the pressure drop value as desired by removal of 1 or more of the 4 rings, using the table below to estimate the number of rings to be removed.

## TECHNICAL SPECIFICATIONS

Code VMRP1875	(flow regulator for Ø75 semi- rigid pipe)	Identification number of the outermost of the removed rings								
			0	1	2	3	4			
		Zeta coefficient [ ζ ] *	24,18	14,56	8,74	4,68	1,93			
	0 2 4 1 3	Flow rate (m <sup>3</sup> /h)	Tow rate (m³/h) Pressure drop Δp in the passage through the regulator (Pa)							
		10	6	4	2	1	1			
		20	23	14	8	4	2			
		30	52	31	18	10	4			
		40	97	58	34	19	8			

Code (flow regulator	Identification number of the outermost of the removed rings							
VMRP1890 for Ø90 semi- rigid pipe)		0	1	2	3	4		
	Zeta coefficient [ ζ ] *	26,36	16,07	9,45	5,33	2,34		
	Flow rate (m3/h)	Pressure drop $\Delta p$ in the passage through the regulator (Pa)						
0 2 4	20	25	15	9	5	2		
1 3	30	56	34	20	11	5		
	40	100	61	36	20	9		
	50	156	95	56	32	14		
	60	225	137	81	45	20		

\* Zeta coefficient [  $\zeta$  ] : coefficient of localized pressure drop; it is given by the formula: **\Delta p = \zeta \times \rho \times v^2 / 2** where:

Δp: localized pressure drop (Pa)
ρ: density of air (e.g. 1.2 kg/<sup>m3</sup>)
v: air velocity through the orifice, given by the controller once N rings are removed.

## DIMENSIONS

Dimensioned drawing of the controller cod. VMRP1875 - measurements in mm



#### Dimensioned drawing of the controller cod. VMRP1890 - measurements in mm





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