
SMALL-FLOWS REGULATOR type R503



SMALL-FLOWS REGULATOR type R503 IS USED FOR CONSTANT MAINTAIN SETTING VALUE OF AIR OR WATER FLOW NOT DEPEND FROM INPUT AND OUTPUT PRESSURE FLUCTUATION.

IT MIGHT BE USED IN MEASURING LEVEL SYSTEMS, PRESSURE DIFFERENCE AND PRESSURE OF AGGRESSIVE MEDIUMS, AS DEVICE WHICH DOES PROTECTION FLUID FOR MEASURING CONDUCTOR.

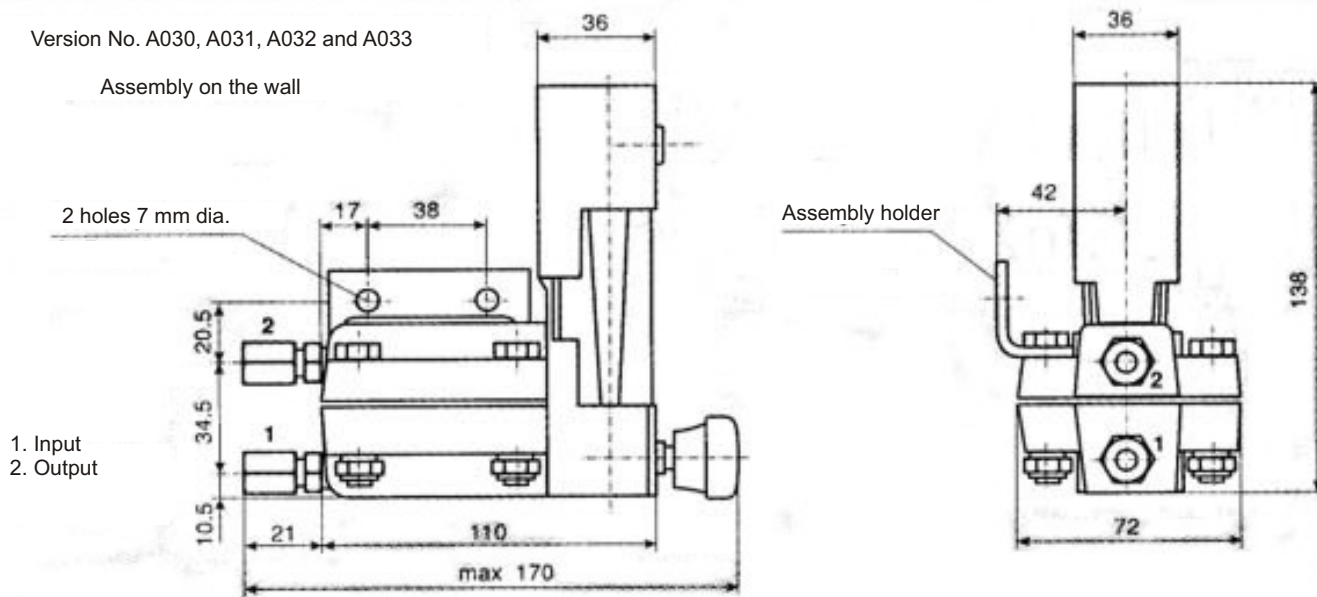
TECHNICAL DATA

- working medium	cleaned air or water
- input pressure	from 0,6 MPa to 2,5 MPa
- setting flow rangers for:	
air	4 ... 20 dm/h
water	4 ... 40 dm/h
- accuracy working	
change of pressure decrease on throttle valve under the influence of change voltage pressure or input pressure:	
for air	max 2 kPa
for water	max 3 kPa
- indicator	scaled rotameter acc. to specified flow range
- acceptable pressure	max to 4 MPa
- assembly	in the board or bracket construction (look at version's table)
- assembly position	look at version's table
- connectors	initial thread 1/8" NPT or connector acc. to table
- mass:	
version A030-A033 and A040-A043	2 kg
version A007, A008 and A017, A018	1,4 kg
version A009, A010 and A019, A020	1,3 kg
- materials:	
body	brass painted by phthaloyl grey lacquer
connectors	nickeled brass
throttle valve	stainless steel
screws	cadmium carbon steel
rotameter	glass "TERMOSIL" type
float	black glass for water, brass for air

DIMENSION DRAWINGS

Version No. A030, A031, A032 and A033

Assembly on the wall



WORKING RULES

Regulator working is based on balance rule between the spring, which exerts determine force on membrane and pressures difference on the both sides of membrane. The constant drop on throttle valve is keeping in balance and the flow, which value depends on degree of open the throttle valve is keeping in balance, too.

ORDERING METHOD

Small-flows regulator type R503, version No.					
Input pressure MPa		Working medium		Assembly method	Using
2,5	0,6	Air	Water		
A030	A032	x	-	on the wall, vertical	pointing and regulation of the flow
A031	A033	-	x		
A040	A042	x	-	in the board, vertical	
A041	A043	-	x		
A007	A017	x	-	arbitrary	regulation of the flow
A008	A018	-	x		

CONNECTORS

R903	For copper pipe ϕ 6mm
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In the order please specify: name and type the regulator, version's No. and special requirements

Example of ordering:

Small-flows regulator with regulator for measuring air flow at input pressure to 2 MPa, pointing and setting (regulating the flow, assembly on the wall, connectors for copper pipe ϕ 6mm has denotation:

Small-flows regulator type R503 - A030 - / R903

The right of introducing design changes in the product, without deteriorating of its operation parameters, is reserved.