

## Preparation of compressed air ▶ Maintenance units and components

### Pressure regulator, Series AS1-RGS-...-DS

▶ G 1/4 ▶ Air supply: right ▶ Qn=1000 l/min ▶ Activation: manual ▶ with continuous pressure supply ▶ with pressure gauge in hand wheel



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Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust (> 3 bar)
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

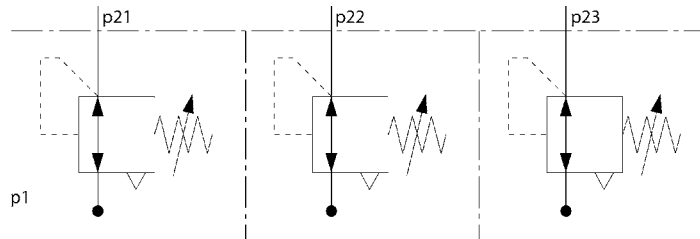
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

		Port	Qn	Working pressure	Adjustment range	Weight	Part No.
				min./max.	min. - max..		
			[l/min]	[bar]	[bar]	[kg]	
		G 1/4	1000	0.2 / 12	0.2 - 4	0.239	R412014720
				0.5 / 12	0.5 - 8		R412014721
				0.5 / 12	0.5 - 10		R412014722

Nominal flow Qn at p1 = 6.3 bar and Δp = 1 bar  
Panel nut included in scope of delivery

#### Application example



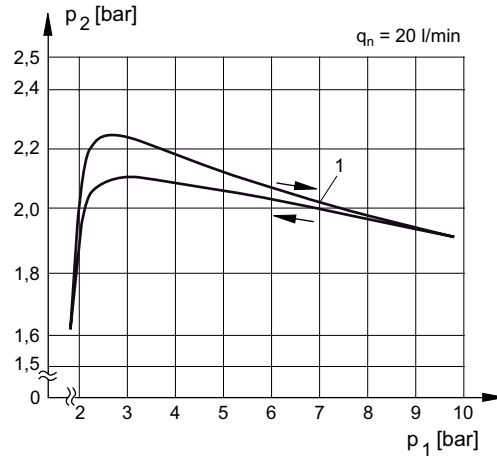
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p1 = working pressure  
p21; p22; p23 = secondary pressure

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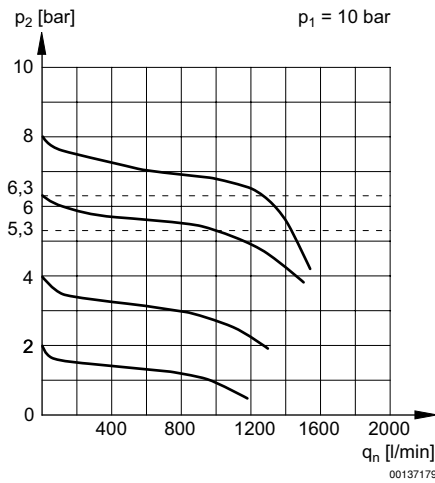
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#### Pressure characteristics curve



$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

#### Flow rate characteristic



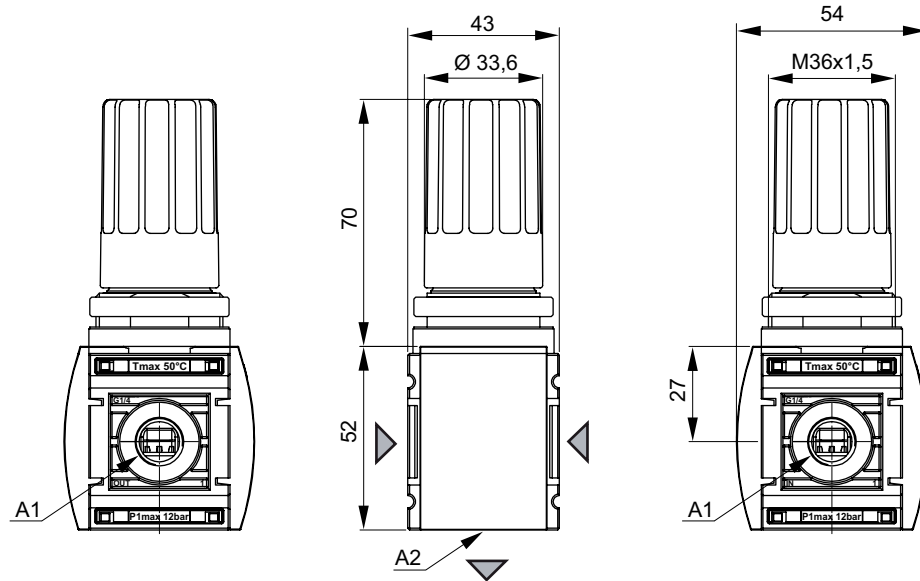
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

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**Dimensions**



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A1 = input  
A2 = output