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Pressure regulator made of red brass
Series PR03

Design type	Pressure regulator without secondary venting with integrated fine mesh filter at the inlet, Connection fitting and union nut, Pressure setting via non-rising stem
Function	Secondary pressure regulation
Connection	R1/2"...R2" according to ISO7/1
Pressure gauge connection	G1/4" according to ISO228/1
Materials	Housing and spring bonnet Red brass, Union nut Brass, Fine mesh filter 1.4404, Seals and diaphragms EPDM or rather FKM
Application range	gaseous and liquid media that do not attack the materials used (not suitable for steam)
Medium temperature	see table
Ambient temperature	-10...+95°C
Inlet pressure	see table
Control range	see table
Flow direction	is marked by an arrow
Mounting type	Installation in rigid piping system
Mounting position	any
Scope of delivery	without Pressure gauge

Table:

Seal	Inlet pressure max. [bar]	Control range [bar]	Medium temperature [°C]	Type
EPDM	25	0,5...2	-20...120	PR03-..-0.5/2
EPDM	40	1...8	-20...120	PR03-..-1/8
EPDM	40	5....15	-20...95	PR03-..-5/15
FKM	25	0,5...2	-10...120	PR03-..-0.5/2-V
FKM	40	1...8	-10...120	PR03-..-1/8-V
FKM	40	5....15	-10...95	PR03-..-5/15-V

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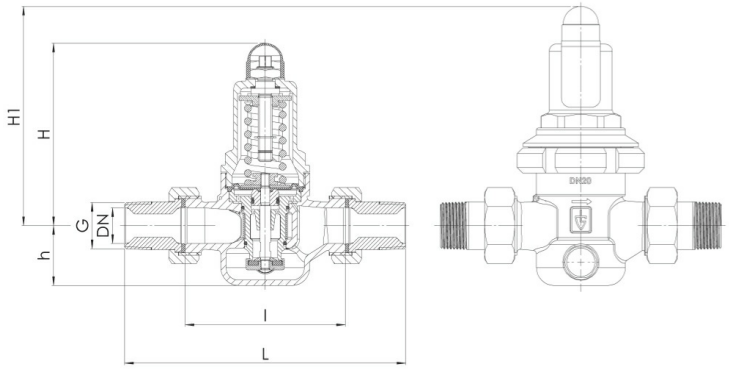
Dimensions



Pressure range 1..8bar/5...15bar

G	DN	H	h	l	L	Mesh size Fine mesh filter [mm]	Kvs value [m^3/h]	Weight [approx. kg]	Type
R1/2"	15	102	33	80	142	0,6	3	1,2	PR03-12-1/8(5/15)
R3/4"	20	102	33	90	158	0,6	3,5	1,3	PR03-34-1/8(5/15)
R1"	25	130	45	100	180	0,6	6,7	2,4	PR03-10-1/8(5/15)
R11/4"	32	130	45	105	193	0,6	7,6	2,6	PR03-114-1/8(5/15)
R11/2"	40	165	70	130	226	0,75	12,5	5,5	PR03-112-1/8(5/15)
R2"	50	165	70	140	252	0,75	15	6,0	PR03-20-1/8(5/15)

Pressure range 0,5...2bar

G	DN	H1	h	l	L	Mesh size Fine mesh filter [mm]	Kvs value [m^3/h]	Weight [approx. kg]	Type
R1/2"	15	128	33	80	142	0,6	3	1,5	PR03-12-0.5/2
R3/4"	20	128	33	90	158	0,6	3,5	1,6	PR03-34-0.5/2
R1"	25	150	45	100	180	0,6	6,7	2,9	PR03-10-0.5/2
R11/4"	32	150	45	105	193	0,6	7,6	3,1	PR03-114-0.5/2
R11/2"	40	185	70	130	226	0,75	12,5	6,2	PR03-112-0.5/2
R2"	50	185	70	140	252	0,75	15	6,7	PR03-20-0.5/2

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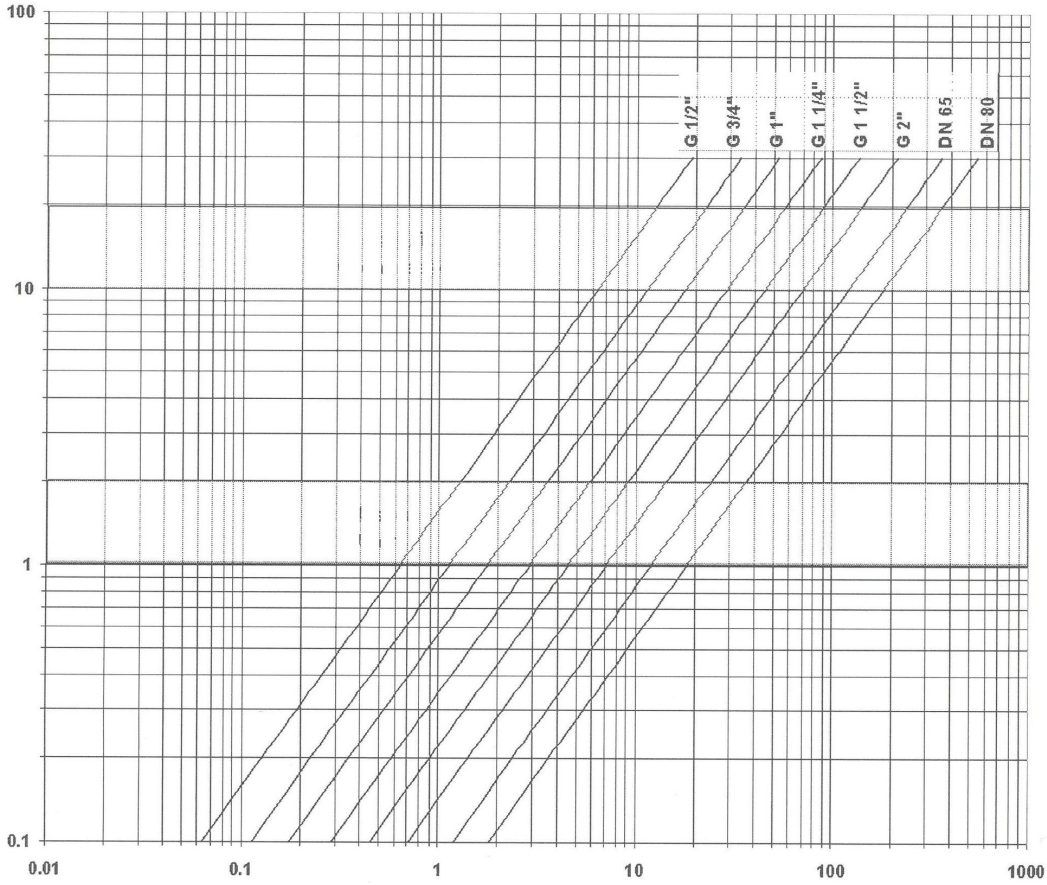
Flow diagram



Vertical axis: Flow rate in m/s
Horizontal axis: Flow rate in m³/h

For liquids, a flow velocity of 2 m/s should not be exceeded.
With compressed air, a flow velocity of 20 m/s should not be exceeded.
When using the diagram for compressed air, the flow rate V must always be entered in operating cubic metres/hour.. The conversion into operating cubic meters is carried out by dividing the standard cubic meters by the **Absolute pressure = Operating pressure + 1 [bar].**

Illustrations non-binding
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