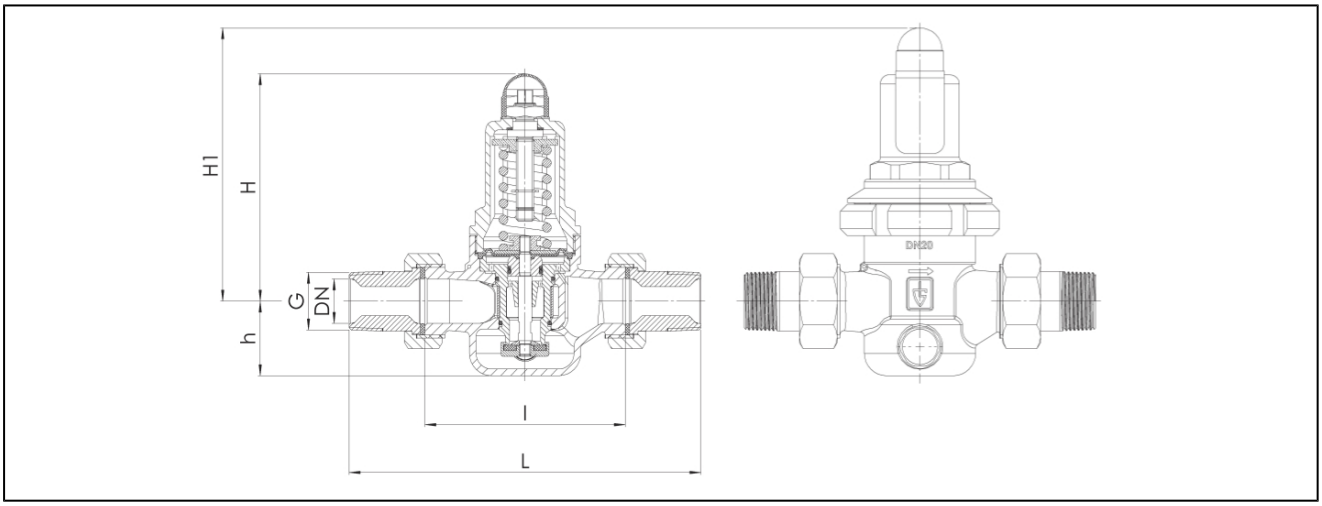
pressure regulator made of bronze
series PR03

design	pressure regulator without relieving with integrated fine screen at the inlet, screw fitting and swivel nut, pressure adjustment with non rising stem
connection	R1/2"...R2" according to ISO7/1
manometer connection	G1/4" according to ISO228/1
materials	body and spring cover bronze CC491K, detachable nipple brass CW614N, fine screen 1.4301, seals and diaphragm EPDM respectively FKM
function	control of outlet pressure
type of fixing	installed into rigid pipework
mounting position	any
application	gaseous and liquid fluids which do not affect the used materials (not suitable for steam)
medium temperature	see table
ambient temperature	-10°C...+95°C
inlet pressure	see table
adjustment range	see table
flow direction	is marked by an arrow
scope of supply	without manometer

table:

seal	Eingangsdruck max. [bar]	adjustment range [bar]	medium temperature [°C]	type
EPDM	25	0,5...2	-10...95	PR03-..-0.5/2
EPDM	25	1...8	-10...95	PR03-..-1/8
EPDM	30	5....15	-10...95	PR03-..-5/15
FKM	25	1...8	-10...160	PR03-..-1/8-V

dimensions



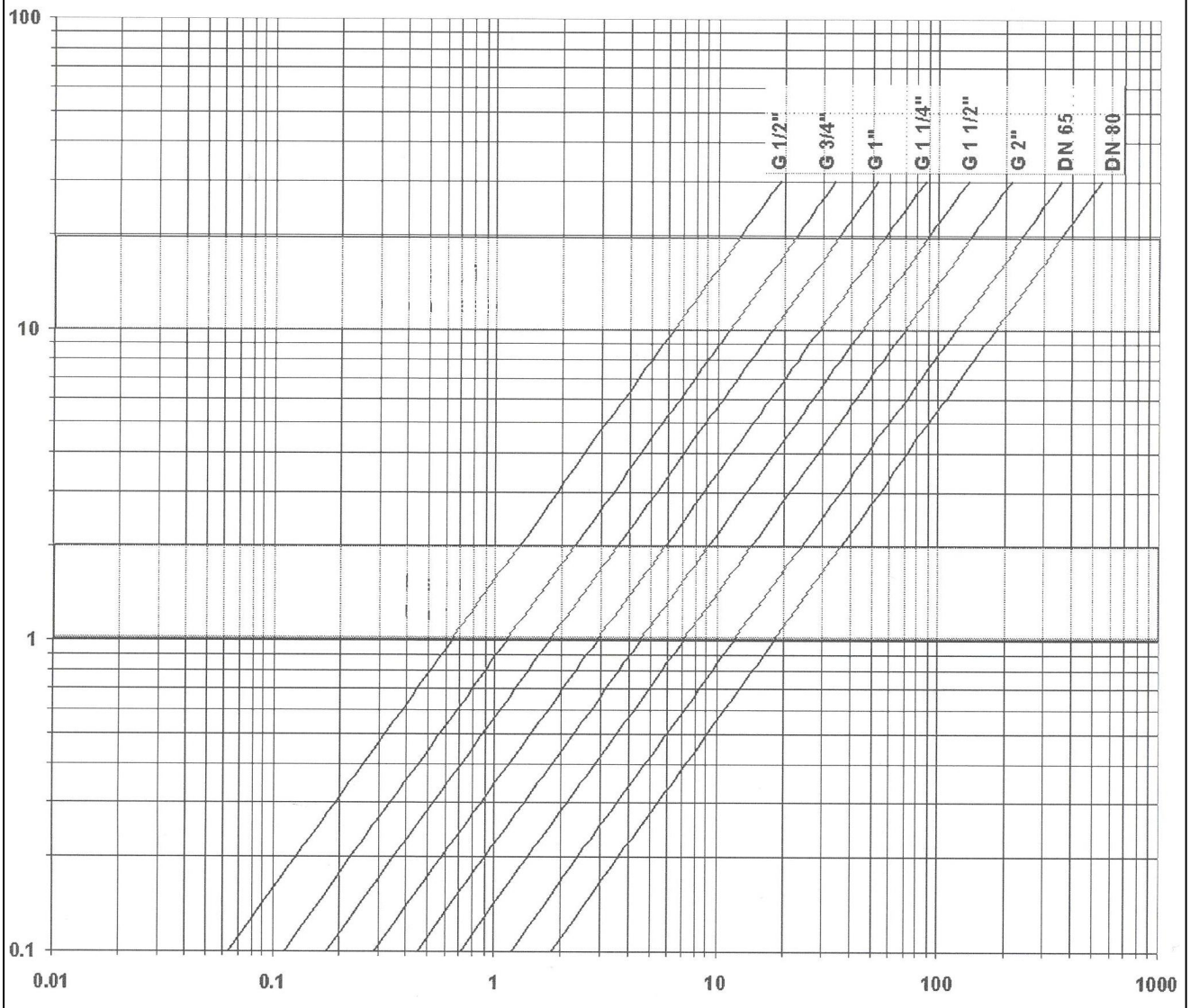
pressure range 1..8bar/5...15bar

G	DN	H	h	l	L	mesh size fine screen [mm]	weight [app. kg]	type
R1/2"	15	102	33	80	142	0,6	1,2	PR03-12-1/8(5/15)
R3/4"	20	102	33	90	158	0,6	1,3	PR03-34-1/8(5/15)
R1"	25	130	45	100	180	0,6	2,4	PR03-10-1/8(5/15)
R11/4"	32	130	45	105	193	0,6	2,6	PR03-114-1/8(5/15)
R11/2"	40	165	70	130	226	0,75	5,5	PR03-112-1/8(5/15)
R2"	50	165	70	140	252	0,75	6,0	PR03-20-1/8(5/15)

pressure range 0,5...2bar

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

flow diagram



vertical axis: flow rate into m/s
horizontal axis: flow throughput into m³/h

for liquids the flow rate should not exceed 2 m/s.
at compressed air the flow rate should not exceed 20 m/s.
by using the diagram for compressed air enter flow rate V in working cubic meters/hour. the conversion takes place in working cubic meters by dividing nominal cubic meters by the absolute pressure **absolute pressure = operating pressure + 1 [bar].**