

PRESSURES

Inlet pressure	max. 16 bar
Set pressure range	0,5 - 10 bar

CONNECTIONS

Female thread acc. ISO 228 (G 1/2" to G 2")
Optionally with NPT-thread
Male thread acc. ISO 7 (R 1/2" to R 2")
Flange connection acc. DIN EN 1092 PN 40 (DN 15 bis DN 50)
Optionally all sizes with ANSI or JIS

SEALS AND TEMPERATURES

EPDM	-30 °C to +130 °C
FKM	-10 °C to +190 °C

FEATURES

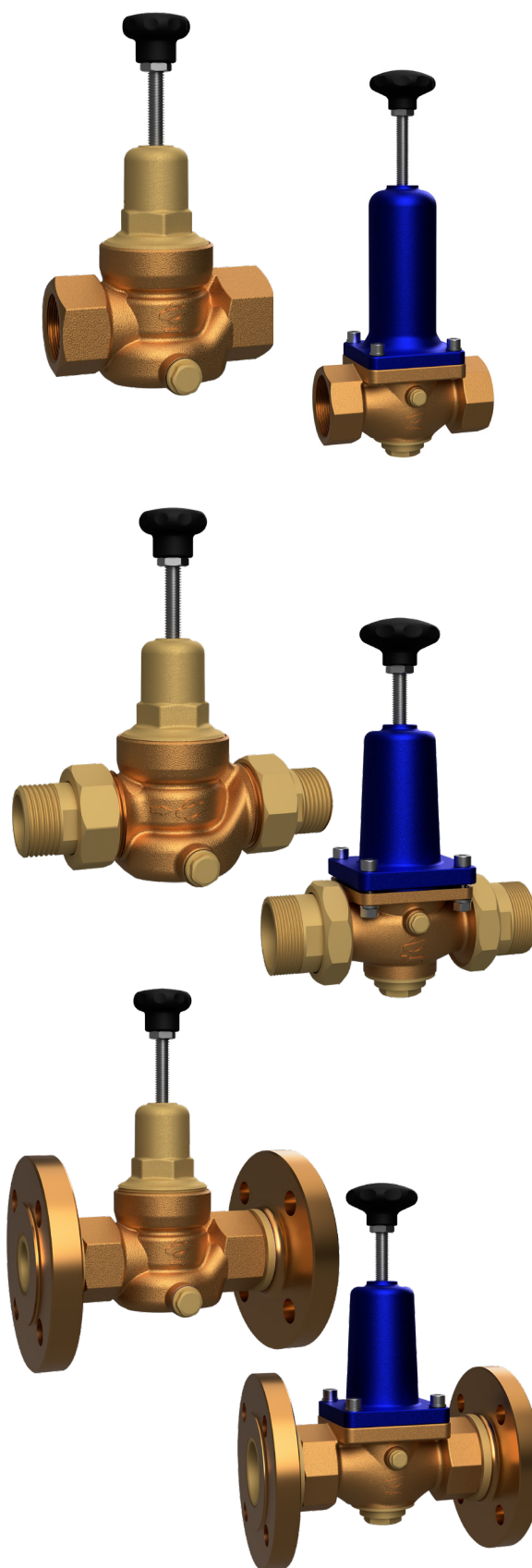
- diaphragm controlled
- continuously adjustable
- replaceable inner parts / cartridge principle
- double-sided G 1/4" manometer fitting
- assembly position: any desired, preferably vertical

MEDIA

- water / neutral, non-sticky liquids
- air and neutral gases

CONFORMITY / CUSTOMS TARIFF NUMBER / CLASSIFICATION SOCIETIES

- DGRL 2014/68/EU
- Customs tariff number 848 140 10
- Certifiable by external classification societies e.g.: DNV



Technical data

Nominal size	15	20	25	32	40	50
G/R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"

Type

A

B

Set pressure range [bar]

SP 90	0,5 - 10	0,5 - 10
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dimensions [mm]

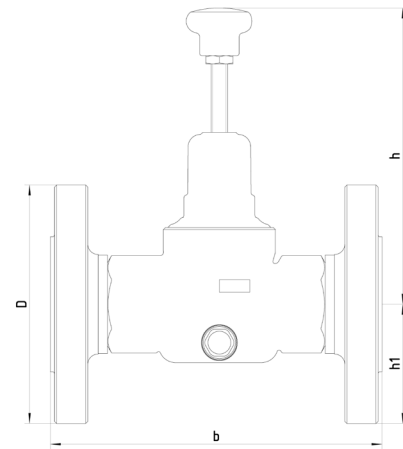
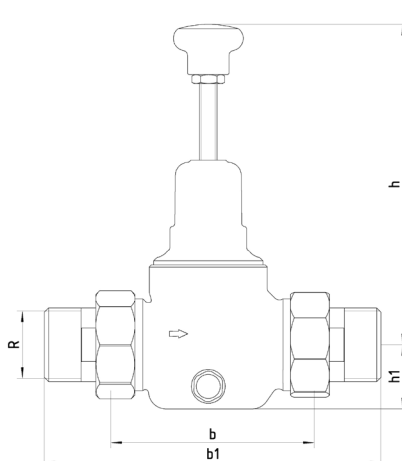
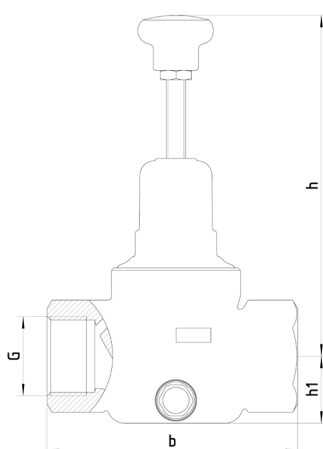
SP 90 - female	G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	b	85	95	105	120	150	160
	h1	27	27	28	47	46	46
	h	145	145	144	142	245	245
weight [kg]		0,9	0,95	1,26	1,48	4,49	4,95

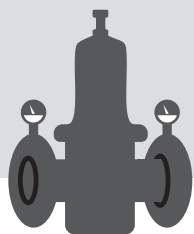
SP 90 - male	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	b	78	78	90	100	125	126
	b1	137	145	154	177	210	210
	h1	27	28	29	47	45	47
	h	145	145	144	170	246	246
weight [kg]		1,0	1,17	1,59	2,28	4,57	5,1

SP 90 - flange	b	130	150	160	180	200	230
	D	95	105	115	140	150	165
	h1	48	53	58	70	75	83
	h	145	145	144	142	247	245
weight [kg]		2,53	3,38	4,21	5,85	9,7	12,3

kvs-value [m³/h]

all types	3,1	3,5	5,8	6,3	9,8	10,5
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Article numbers, options, materials and manometer

Article numbers

Nominal size	15	20	25	32	40	50
G/R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"

Standard version

SP 90 - female	019002-10120	019003-10120	019004-10120	019005-10120	019006-10120	019007-10120
SP 90 - male	019002-20120	019003-20120	019004-20120	019005-20120	019006-20120	019007-20120
SP 90 - flange	019002-56120	019003-56120	019004-56120	019005-56120	019006-56120	019007-56120

Options overview

CC - connections

10 -	ISO 228
20 -	ISO 7
30 -	NPT - ASME B1.20.1
56 -	Flange DIN EN 1092 PN 40
61 -	ANSI B16.5 RF class 150lbs

E - elastomers

2 -	EPDM
3 -	FKM

F - finishes

0 -	without additional finishes
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M - material of wetted inner parts

1 -	brass / VA
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Configuration example of an article number with additional options

art.no. standard version						-	C	C	M	E	F
0	1	9	0	0	7	-	3	0	1	2	0

Connection: 2" NPT
without additional finishes

seals: EPDM

temperature: 30 °C

Manometer

diameter	connection	body	pressure range	max. temp.	art.no.
50 mm	G 1/4", central back	steel	0 - 10 bar	60 °C	009002
63 mm	G 1/4", central back	stainless steel	0 - 10 bar	200 °C	009014

Materials

	body	spring bonnet	seals	wetted inner parts	max. temperature
standard	red bronze CC499K	up to DN 32 brass from DN 40 cast iron	EPDM FKM	brass and stainless steel	130 °C 190 °C