



SP 90
Threaded connection acc. to ISO 228



SP 90
Threaded connection acc. to ISO 7



SP 90
Flange connection acc. to DIN EN 1092



Overflow valve / Bypass valve
Female thread / Male thread / Flanges
Standard pressure
Red bronze

Media

The overflow valves are suitable for use with water and neutral, non-sticky liquids, but can also be used for air and neutral gases.

Overflow valves of this series are diaphragm-controlled and spring-loaded.

DGRL 2014/68/EU **CE**

Classification societies*

- DNV GL
- LR
- BV
- ABS
- CCS

Custom tariff number

84814010

*not valid for threaded connection acc. to ISO 7



Features

- pressure-relieved single seated valve
- diaphragm-controlled
- continuously adjustable pressure setting
- max. inlet pressure up to 16 bar
- setting range: 0,5 - 10 bar
- Cartridge/ internal parts exchangeable
- double-ended G 1/4" manometer fitting
- assembly position: any desired, preferably vertical

Temperatures

Seals and wetted internal parts allow a max. temperature of up to 190 °C.



from -30 °C to +190 °C

Pressures



max. 16 bar

Seals and temperatures

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

Connections



Female thread acc. to ISO 228
from G 1/2" to G 2"



Male thread acc. to ISO 7
from R 1/2" to R 2"



Flange connection
acc. DIN EN 1092 PN 40 (DN 15 - DN 50)

Materials

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



Type

Pressures

max. 16 bar



Technical data

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

A

B

setting range [bar]

SP 90	0,5 - 10		0,5 - 10	
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Connections

Female thread
from G 1/2" to G 2"



dimensions [mm] and weight [kg]

SP 90	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	0,9	0,95	1,26	1,48	4,49	4,95

Male thread
from R 1/2" to R 2"



SP 90	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	1,0	1,17	1,59	2,28	4,57	5,1	

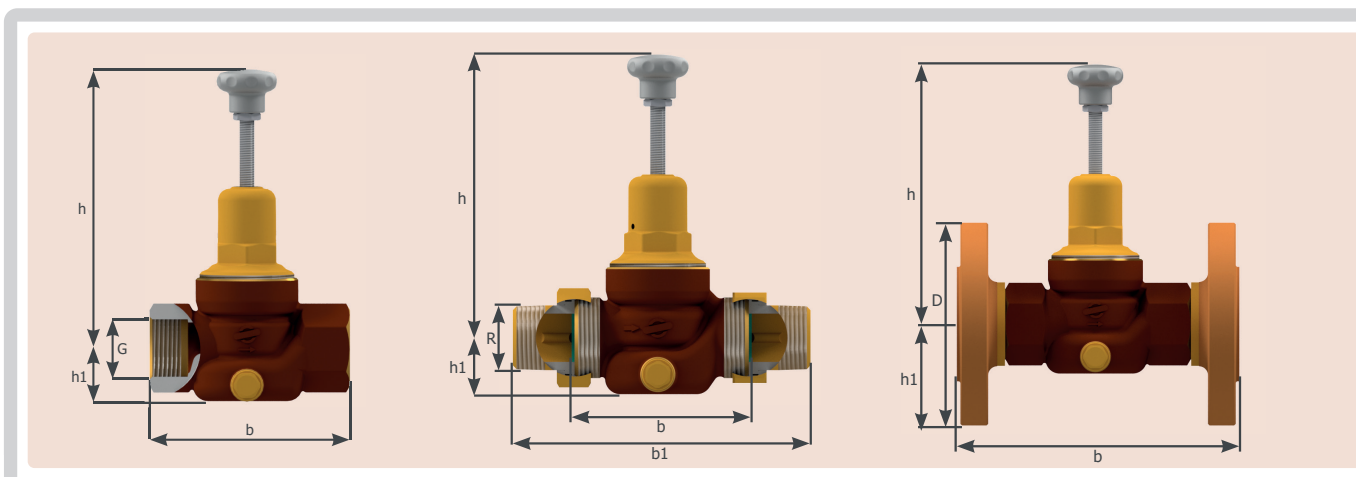
Flange connection
from DN 15 to DN 50



SP 90	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	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 number

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

SP 90 (female thread)	019002-10120	019003-10120	019004-10120	019005-10120	019006-10120	019007-10120
SP 90 (male thread)	019002-20120	019003-20120	019004-20120	019005-20120	019006-20120	019007-20120
SP 90 (flanges)	019002-56120	019003-56120	019004-56120	019005-56120	019006-56120	019007-56120

(for an overview of options, see below)

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

Options

C C - connections

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

M - material wetted parts

1 -	brass / stainless steel	standard
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E - elastomers

2 -	EPDM	standard
3 -	FKM	

F - finishes

0 -	without additional finishes
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Configuration example of an item number with additional options

connection: 2" NPT seals: EPDM temperature: 30 °C
 without additional finishes

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