

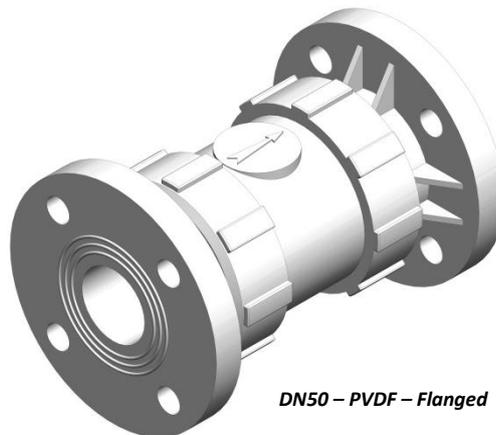
## CHECK VALVE WITH CONE AND SPRING – DOUBLE UNION

### DN25 (1") to DN50 (2") – PPGF, PVDF

Conform to the 2014/68/EU Directive



DN50 – PPGF – Flanged



DN50 – PVDF – Flanged



DN50 – PPGF – Threaded Sockets

## MAIN FEATURES

- This Check Valve consists of a contoured cone optimizing the pressure loss during the passage of the fluid
- The spring makes it possible to control the closing of the valve regardless of its installation position. This valve can be used in a horizontal position.
- A pressure of 0.1 bar is necessary to overcome the force of a standard spring or 0.5 bar for a “strong” spring in normal use in the flowing direction.
- A counter pressure of 0.3 bar is necessary to keep tightness in the non-flow direction.

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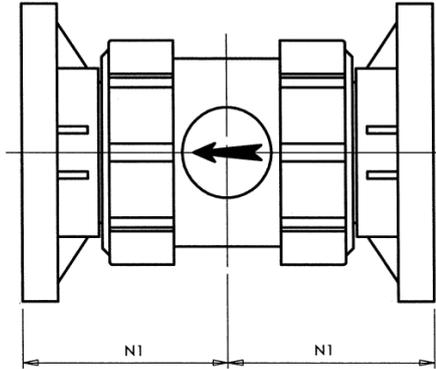
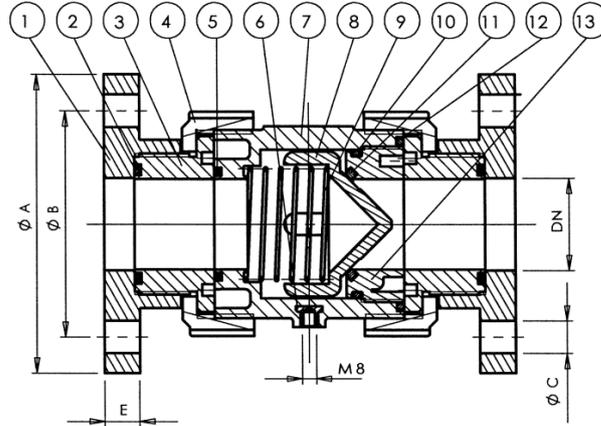
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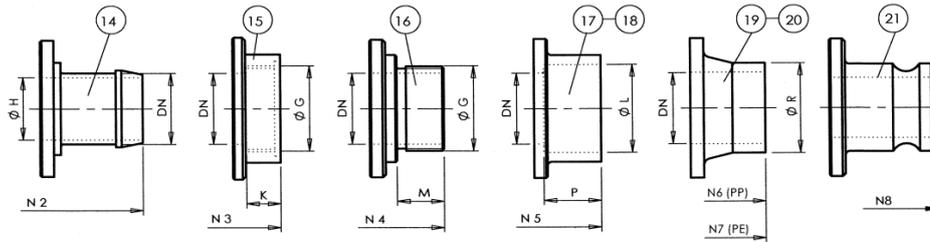
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## DIMENSIONS



FTF according to NF EN 558-1



DN	$\varnothing B$				$\varnothing C$			E	$\varnothing G$	$\varnothing H$	K	$\varnothing L$	M	N1	N2	N3	N4	N5	N6	N7	N8	P	$\varnothing R$
	DIN	ANSI	BS	DIN	ANSI	BS																	
25	115	85	79,5	82	14	16	14	16	1" GAZ	16	23	32	32	80	106	68	88	65	90	122	86	22	32
32	140	100	89	87,3	18	16	14	18	1" 1/4 GAZ	24	24	40,3	32	90	109,5	74	91,5	75	95	128	112	26	40
40	150	110	98,4	98,4	18	16	14	18	1" 1/2 GAZ	34	24	50,3	32	100	115,5	82	97,5	86	100	153	118	31	50
50	165	125	121	114,3	18	19	18	20	2" GAZ	44	24	63,3	31	115	119	86	101	96,5	103	168	120	37,5	63

DN = Drilling in accordance with EN 1092-1 PN10/PN16

ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

DN	Weight ( in kg)			
	PPGF		PVDF	
	With 2 Flanges	With 2 Fittings	With 2 Flanges	With 2 Fittings
25	0,67	0,47	1,07	0,75
32	0,86	0,75	1,38	1,2
40	1,34	0,93	2,14	1,52
50	1,63	1,13	2,6	1,81

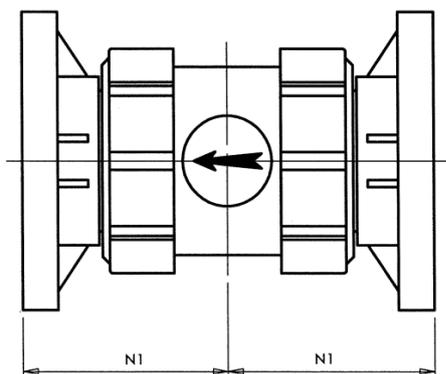
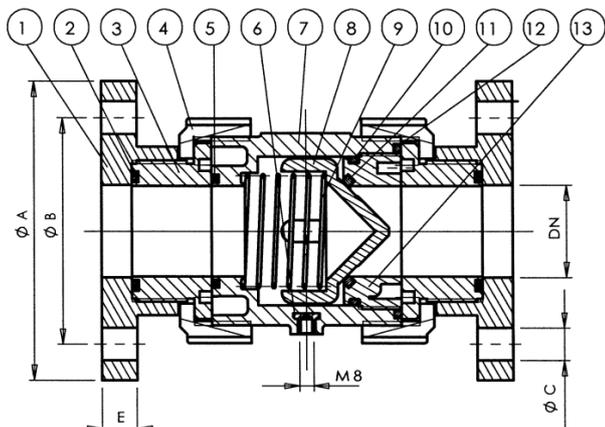
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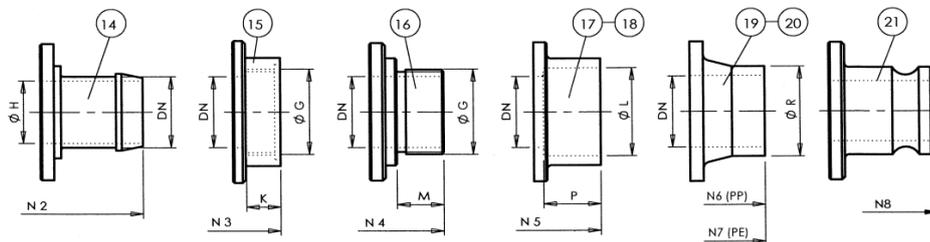
# PARTS LIST



FTF according to NF EN 558-1

N°	QTY	DESCRIPTION	MATERIAL
1	2	Flange	PPGF, PVDF
2*	2	O-ring	EPDM/FPM**/FEP
3	2	Left hand bush	PPGF, PVDF
4	2	Nut	PPGF, PVDF
5*	1	O-ring	EPDM/FPM**/FEP
6	1	Fixing Insert	SS 304
7	1	Body	PPGF, PVDF
8*	1	Cone	PPGF, PVDF
9***	1	Normal Spring	SS 316
		Strong Spring	Hastelloy C276
10*	1	O-ring	EPDM/FPM**/FEP
11	1	O-ring	EPDM/FPM**/FFPM
12*	1	O-ring	EPDM/FPM**/FEP
13	1	Adjusting end	PPGF, PVDF
14	1	Hose Tail	PPGF
		BSP Threaded Socket	PPGF, PVDF
15	1	NPT Threaded Socket	PPGF, PVDF
		BSP Threaded Spigot	PPGF
16	1	Metric Plain Socket	PVC-U/PVC-C/ABS
17	1	Metric Plain Socket	PP-H/PE-HD/PVDF
18	1	Metric Spigot	PP-H
19	1	Metric Spigot	PE-HD
20	1	Metric Spigot	PE-HD
21	1	Camlock	PPGF

(\*): Spare Parts (\*\*): FPM type SAFKM5 (\*\*\*) ECTFE coated spring upon request



The Flange (item 1) is delivered in standard with oval holes corresponding to the DIN, ANSI and BS standards.

The mechanical characteristics of the FPM seals subjected to an ambient temperature below  $-5^{\circ}\text{C}$  require the implementation of proper insulation on the valves equipped with such seals.

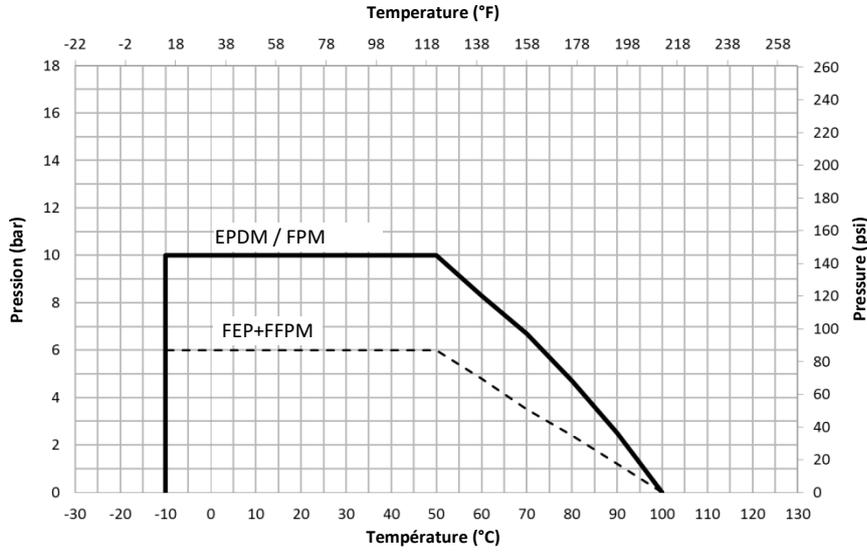
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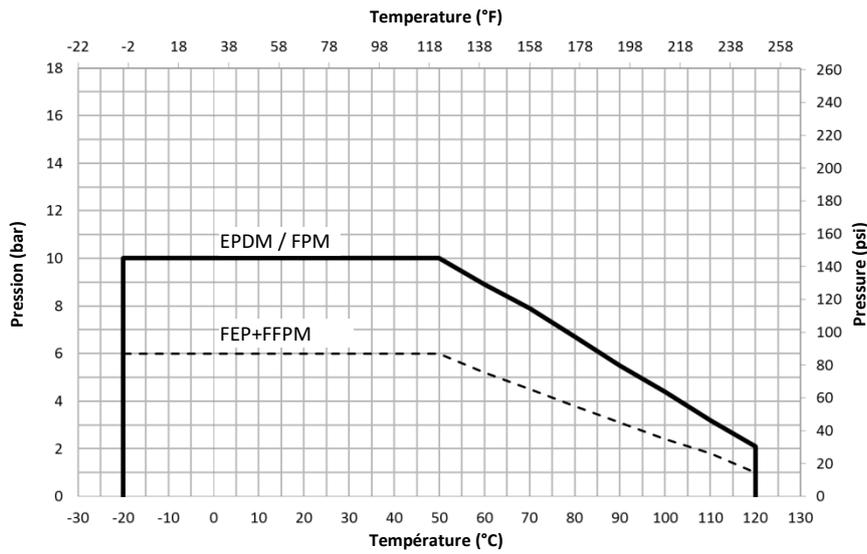
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# PRESSURE / TEMPERATURE CURVES



PPGF



PVDF

## Pressure/Temperature Summary

Type of Seals	WORKING PRESSURE (in bars at 20°C)	
	PPGF	PVDF
EPDM / FPM	10	10
FEP + FFPM	6	6

WORKING TEMPERATURE	
PPGF	PVDF
0°C to + 100°C	-20°C to + 120°C

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## PRESSURE LOSS

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DN	Kv (m <sup>3</sup> /h)
25	15,0
32	25,3
40	40,8
50	52,8

Kv defined according to NF EN 1267

Pressure Loss given in the flowing direction of a check valve equipped with a standard spring.

Our valves are guaranteed for an average fluid velocity in the pipeline of  $\leq 2$  m/s. Please contact us with the working conditions for any higher speed.

## CHEMICAL RESISTANCE

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The chemical resistance of the valve is subject to the type of fluid, the temperature, the pressure, as well as the materials and seals of the valve.

Please contact us to have a personalized analysis of the resistance of one of our products to a given fluid

You can also consult, for information only, the table given in ISO 10358. However, this table cannot be considered as a recommendation by SAFI who could not be held liable for the use of this document.

## DETERMINING A PRODUCT CODE

TYPE	SPECIFICATION	DN	Fitting (Inlet)	Fitting (Outlet)	Seals	Spring
<b>2001</b> = PPGF Check Valve	- = Standard Cone	<b>02</b> = DN25 <b>03</b> = DN32 <b>04</b> = DN40 <b>05</b> = DN50	<b>A</b> = BSP Threaded Socket <b>C</b> = Metric Plain Socket (Same material as body) <b>F</b> = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) <b>G</b> = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) <b>X</b> = With end nuts and o-rings , Without fittings  Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet	<b>A</b> = BSP Threaded Socket <b>C</b> = Metric Plain Socket (Same material as body) <b>F</b> = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) <b>G</b> = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) <b>X</b> = With end nuts and o-rings , Without fittings  Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet	<b>E</b> = EPDM <b>V</b> = FPM type SAFKM5 (for type 2001) <b>Z</b> = FPM type SAFKM5 (for type 2068) <b>P</b> = FEP+FFPM	<b>I</b> = Normal Spring in SS 316 <b>H</b> = Normal Spring in Hastelloy C276 <b>R</b> = Strong Spring in SS 316

Example : 2001-02AAVH

2001	-	02	A	A	V	H
PPGF Check Valve	Standard Cone	DN25	BSP Threaded Socket	BSP Threaded Socket	FPM type SAFKM5 (for type 2001)	Normal Spring in Hastelloy C276

Example : 2068-05AAZI

2068	-	05	A	A	Z	I
PVDF Check Valve	Standard Cone	DN50	BSP Threaded Socket	BSP Threaded Socket	FPM type SAFKM5 (for type 2068)	Normal Spring in Stainless Steel 316