

## PN 16 LIFT TYPE CHECK VALVE (FAF 2250)



### PRODUCT FEATURES

- Body and cover, GG 25 Cast Iron.
- Valve mounting dimensions conform to DIN 3202 F1.
- Flanges are according to ISO 7005-2.
- Can be installed horizontally and vertically.
- Raised faced flanged ends.
- Vertical lift pattern.

### APPLICATIONS

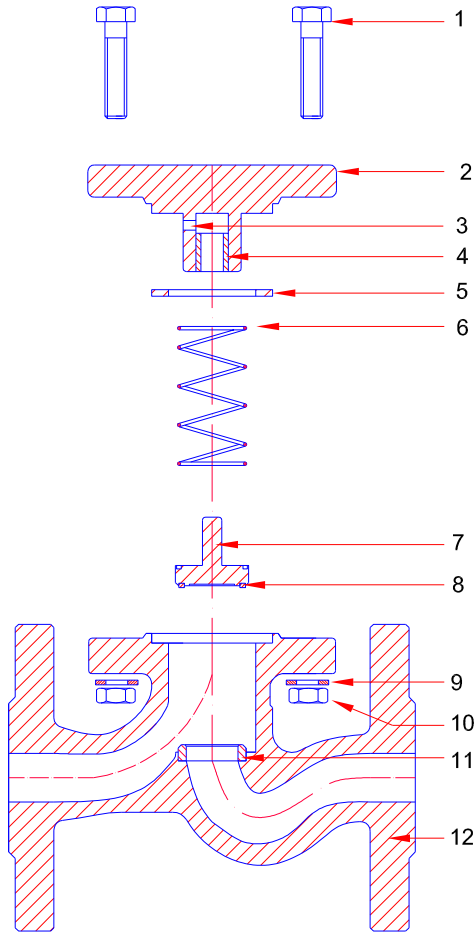
Steam, natural gas, cold water, hot water and pressurized hot water installations, fluids without acidic or alkaline properties, LPG, chemical fluids, compressed air etc.

### OPERATING TEMPERATURE

Max +200°C 392°F

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## TECHNICAL DRAWING AND MATERIALS



## PARTS and MATERIALS

1. Screw / DIN933
2. Cover / GG-25 Cast Iron
3. Discharge Hole
4. Cover bush / Ms 58 brass
5. Sealing Ring / Graphite
6. Spring / Stainless Steel SAE 304
7. Piston / Cast Iron
8. Disc Ring / Stainless Steel SAE-304
9. Washer / DIN 127
10. Nut / DIN934
11. Seat / Stainless Steel SAE-304
12. Body / GG-25 Cast Iron

## MATERIAL PROPERTIES

MATERIAL TYPE	MATERIAL PROPERTY
GG 25 Cast Iron	Tensile strength = 250-350 N/mm <sup>2</sup> Hardness = Max. 250 Brinell (BHN)
GGG 40 Ductile Iron	Tensile strength = 400-550 N/mm <sup>2</sup> Hardness = 135 - 185 Brinell (BHN)
Stainless Steel DIN 1-4086	C = 0.9 - 1.3 Si Max = 2 Mn Max. = 1 Cr = 27 - 30
Stainless Steel SAE-304	C max = 0.08 Si Max. = 1 Mn Max. = 2 Cr = 18-20 Ni = 8 - 10.5
Stainless Steel SAE-316	C max = 0.08 Si Max. = 1 Mn Max. = 2 Cr = 16-18 Ni = 10- 14
PTFE	Density= 2.13-2.23 gr/cm <sup>3</sup> Tensile strength = 250-300 kg/cm <sup>2</sup>
PTFE (25 % Carbon)	Operating Temperature = -85°C / +200°C 392°F Density= 2.1-2.2 gr/cm <sup>3</sup> Tensile strength = 165-170 kg/cm <sup>2</sup>
Graphitic Ring	Graphite purity = %98 Density= min. 1.6 gr/cm <sup>3</sup>
St 37	C = < 0.2 P Max. = 0.06 S Max. = 0.05 Tensile strength = 360-440 N/mm <sup>2</sup>
Steel (1030)	C = 0.30 P Max. = 0.06 S Max. = 0.06 Tensile strength = 490 N/mm <sup>2</sup>

## BOLT DIMENSIONS

DN	BOLT		NUT QUANTITY	TIGHTENING TORQUE (Kgm)	WRENCH OPENING (mm)
	DIMENSIONS	QUANTITY			
15	M 12 x 45	4 x 2	4 x 2	7	18
20	M 12 x 45	4 x 2	4 x 2	7	18
25	M 12 x 45	4 x 2	4 x 2	7	18
32	M 16 x 50	4 x 2	4 x 2	16	24
40	M 16 x 50	4 x 2	4 x 2	16	24
50	M 16 x 55	4 x 2	4 x 2	16	24
65	M 16 x 55	4 x 2	4 x 2	16	24
80	M 16 x 60	8 x 2	8 x 2	16	24
100	M 16 x 60	8 x 2	8 x 2	16	24
125	M 16 x 65	8 x 2	8 x 2	16	24
150	M 16 x 70	8 x 2	8 x 2	22.5	30
200	M 16 x 80	12 x 2	12 x 2	22.5	30
250	M 16 x 85	12 x 2	12 x 2	38	36

Note: Dimensions according to standard flanges

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### PN 16 FLANGED CHECK VALVE MAINTENANCE INSTRUCTIONS

Follow the instructions below to perform maintenance and cleaning of FAF PN 16 Flanged Check Valves.

#### DISMOUNTING :

- Make sure that there is no fluid supply on the line where the check valve is detached.
- Unscrew the screws (10) on the check valve cover (2), remove the washers (9) and detach the cover from the body (12).
- Remove the stainless steel spring (6) and piston (7) from the body.

#### INSPECTION AND CLEANING:

- Clean the cover, inspect and clean the discharge hole (3), and the gasket surface.
- Clean the piston (7) without damaging its disc ring. If residue observed on the piston spindle or in the cover bush (4), clean with wet sandpaper (400) in water. Check if the piston spindle operates easily in the cover bush.
- Inspect the disc ring (8), if it is deformed request a new one from our company.
- Clean the surface of the body (12) to eliminate any residual of the old gasket. Avoid any residue or dust on the stainless steel seat (11), use wet sandpaper (400) and water to clean.
- Combine cover (2), spring (6) and the piston (7) and place in the body. Feel the tension of the spring when you locate the cover. If you can not feel the spring tension, request a new spring from our company.
- You may request a new cover gaskets (5) from our company or you may have 2 mm Klingirit gasket material cut according to the gasket seat.

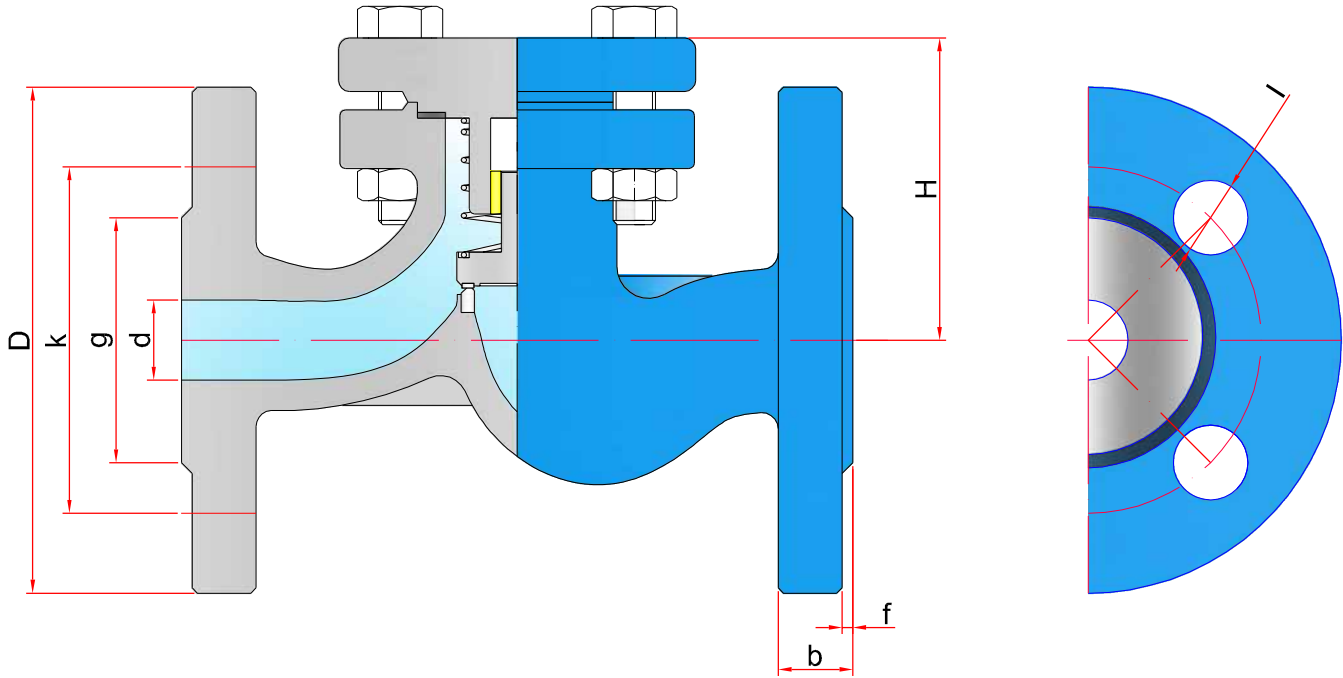
#### MOUNTING:

- Locate the gasket (5) on the body (12).
- Mount the cover (2) – spring (6) - piston (7) block on the body.
- Press on the cover and place the washers (9) and nuts (10) on the screw (1). Tighten the nuts in opposite pairs to eliminate the gaps and complete the mounting.

Pressure ISO PN	TEMPERATURE °C					
	-10 to 120	150	200	250	300	350
	Maximum operating pressure (bar)					
10	10	9,5	9	8	7	5,5
16	16	15,2	14,4	12,8	11,2	8,8
20	15,5	14,8	13,9	12,1	10,2	8,6
25	25	23,8	22,5	20	17,5	13,8
40	40	38	36	32	28	22
50	40,2	39	36	35	33	31

Pressure ISO PN	TEMPERATURE °C						
	-10 to 40	120	150	200	250	300	350
	Maximum operating pressure (bar)						
10	10	10	9,7	9,2	8,7	8	7
16	16	16	15,5	14,7	13,9	12,8	11,2
20	17,5	15,5	14,8	13,9	12,1	10,2	8,6
25	25	25	24,3	23	21,8	20	17,5
40	40	40	38,8	36,8	34,8	32	28
50	44	40,2	39	36	35	33	31

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DN	DIMENSIONS		FLANGE ACC. TO ISO 7005-2							PRODUCT DATA		
	Ømm	H	L	d	g	k	D	l	b	f	Number of Holes	KVS m³/h
15	60	130	15	46	65	95	14	14	2	4	3	2,40
20	65	150	20	56	75	105	14	16	2	4	5,5	3,26
25	70	160	25	65	85	115	14	16	3	4	8	4,58
32	85	180	32	76	100	140	19	18	3	4	13	7,01
40	90	200	40	84	110	150	19	18	3	4	20	8,98
50	100	230	50	99	125	165	19	20	3	4	33	11,97
65	120	290	65	118	145	185	19	20	3	4	50	16,61
80	140	310	80	132	160	200	19	22	3	8	88	22,98
100	160	350	100	156	180	220	19	24	3	8	119	31,17
125	180	400	125	184	210	250	19	26	3	8	187	43,81
150	200	480	150	211	240	285	23	26	3	8	266	66,21
200	250	600	200	266	295	340	23	30	3	12	478	121,12
250	300	730	250	319	355	405	28	32	3	12	740	201,10