



APPLICATIONS

Potable water, cold and hot water systems, any fluid without acidity or alkalinity.

OPERATING TEMPERATURE

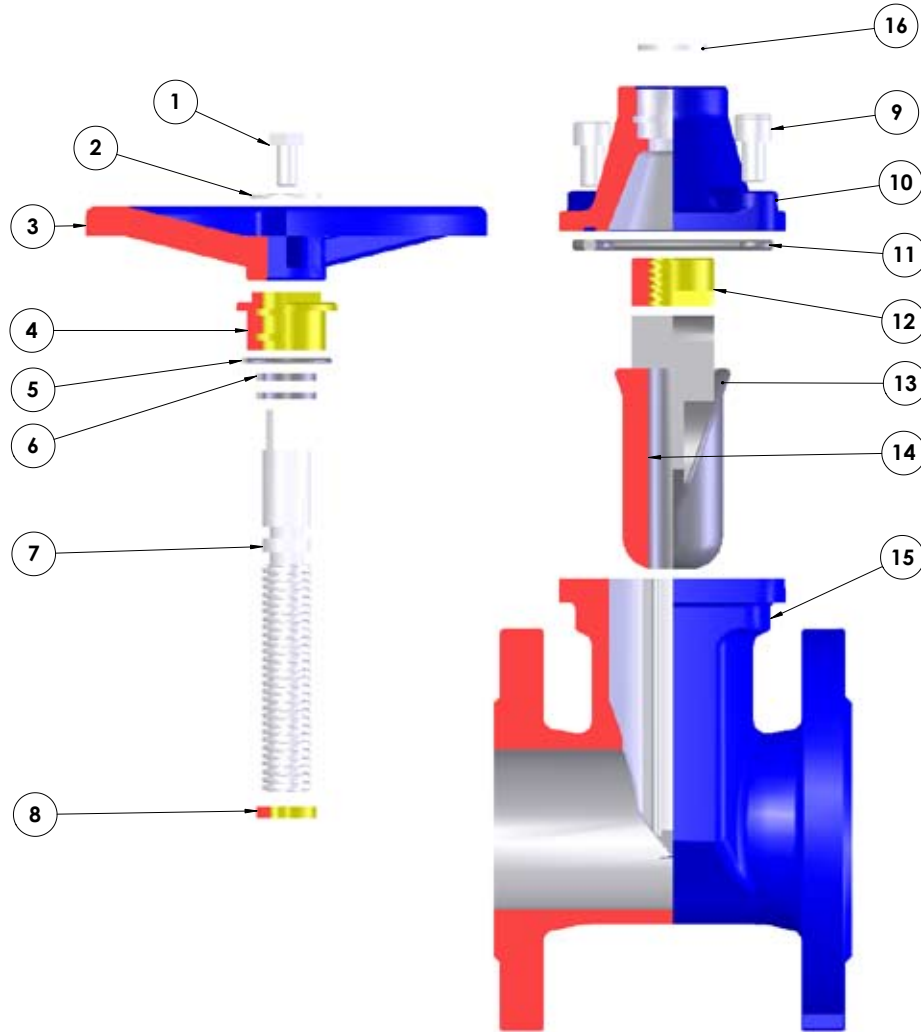
Max + 130°C 266°F

PRODUCT FEATURES

- Available in **PN10** (FAF 6110) and **PN16** (FAF 6100)
- Cast Iron Body & Bonnet.
- Wedge of ductile iron fully rubberized with vulcanized EPDM.
- Inside and outside epoxy powder coated min 250 µ.
- Valve mounting dimensions conform to DIN3202 F4 and EN558-1 Basic Series 14.
- Flanges are according to ISO 7005-2 and EN1092-2.
- Available from DN 50 to DN 300.
- Smooth water way.
- 100% Leak-Tight closure.

RESILIENT SEAL GATE VALVE (FAF 6100 - 6110)

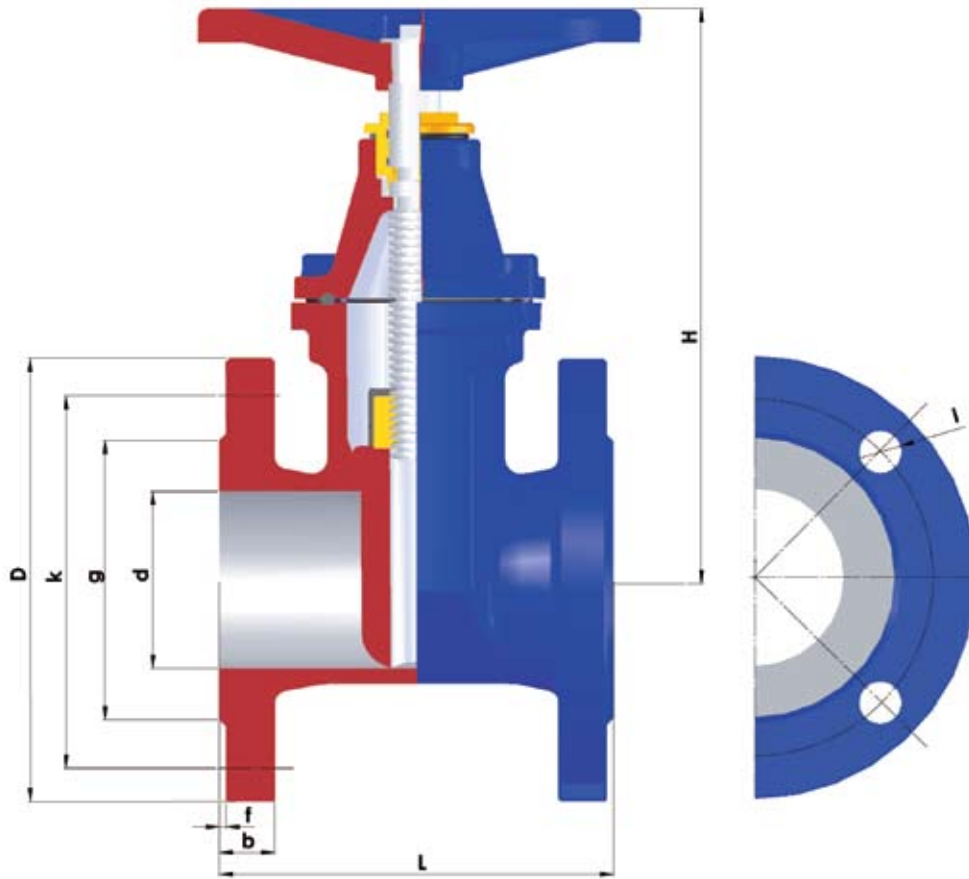
TECHNICAL DRAWING AND MATERIALS



PARTS AND MATERIALS

1. Bolt / DIN 933
2. Washer / Steel
3. Hand wheel / Ductile Iron
4. O-Ring Bush
5. O-Ring EPDM
6. O-Ring EPDM
7. Stem / SAE 420
8. Bushing / MS58
9. Bolt / DIN 933
10. Bonnet / GG25 Cast Iron
11. Bonnet Sealing Ring / EPDM
12. O-Ring Bush / MS58
13. Vulcanized Rubber / EPDM
14. Wedge / Ductile Iron
15. Body / GG25 Cast Iron
16. Ring / PTFE

DIMENSIONS AND PRODUCT DATA



RESILIENT SEAL GATE VALVE (FAF 6100)

DN	DIMENSIONS EN 558-1		CONNECTIONS ISO 7005-2 / EN 1092-2								
	∅ mm	L	H	d	g	k	D	l	b	f	Number of Holes
50	150	198	50	99	125	165	19	20	3	4	10
65	170	222	65	118	145	185	19	20	3	4	15
80	180	251	80	132	160	200	19	22	3	8	18
100	190	285	100	156	180	220	19	24	3	8	25
125	200	350	125	184	210	250	19	26	3	8	33
150	210	387	150	211	240	285	23	26	3	8	45
200	230	485	200	266	295	340	23	30	3	12	70
250	250	558	250	319	355	405	28	32	3	12	106
300	270	735	300	370	410	460	28	32	4	12	130

PN 16 RESILIENT SEAL GATE VALVE (FAF 6110)

DN	DIMENSIONS EN 558-1		CONNECTIONS ISO 7005-2 / EN 1092-2								
	∅ mm	L	H	d	g	k	D	l	b	f	Number of Holes
200	230	485	200	266	295	340	23	26	3	8	70
250	250	558	250	319	350	405	23	32	3	12	106
300	270	735	300	370	400	460	23	32	4	12	130
400	310	900	390	480	515	580	28	32	4	16	260

GATE VALVE MAINTENANCE INSTRUCTIONS

Follow the instructions below to perform maintenance and cleaning of PN 16 Gate Valves.

DISMOUNTING

- Make sure that there is no fluid supply on the line where the valve is detached.
- Unscrew the bolt (1) from the hand wheel (3). Remove the washer (2) and detach the hand wheel from the stem (7).
- Unscrew the plug (5) from the bonnet (10).
- Unscrew the opposite inbus bolts (9) and detach the bonnet (10) from the body (15).
- Holding the bonnet (10), remove the wedge set (13-14), the trapeze nut (12), the bonnet sealing ring (11), the stem (7) and the plug (5) sets by pulling up from the body.
- Unscrewing the wedge set, remove it from the stem.
- Detach the trapeze nut from the wedge set canal.
- Take out the stem by pulling it out of the bonnet.
- Remove the plug on the stem.
- Remove the PTFE ring (8) inside of the bonnet.
- Take out the bonnet sealing ring (11) slightly from the bonnet.

INSPECTION AND CLEANING

- Oiling the trapeze nut (12) and the stem (7), inspect if it works easily. If it is tight, request a new one from our company.
- Check if the plug (5) and bonnet (10) threads are deformed. If there is a cut or tear on your bonnet sealing ring (11), request a new one from our company.
- If there is a cut or tear on your wedge set (13-14), request a new one from our company.
- If the PTFE ring (8) is deformed, request a new one from our company.
- Inspect the inbus bolt threads. Replace the deformed ones.
- O-rings must be replaced with new ones.

MOUNTING

- Place the O-rings on the pulp and lightly grease over the O-rings.
- Mount the bonnet sealing ring (11) to its place on the bonnet.
- Mount the PTFE ring (8) to its place on the bonnet.
- Mount the plug (5) through the stem without damaging the O-rings (4).
- Place the stem and plug set into the bonnet. Tighten the plug and the bonnet with hand power.
- Mount the trapeze nut (12) to the canal of wedge set (13-14).
- Finish the mounting of the bonnet set by screwing the wedge set, that stem's (7) end would not come out of.
- Mount the bonnet set to the body (15) and tighten the inbus bolts (9) in the opposite pairs to eliminate the gaps.
- Tighten the plug (5) to the bonnet (10).
- Place the hand wheel (3) on the square over the stem, mounting the washer (2) to the bolt (1), tighten it to the stem and finish the valve mounting.
- Check the closed and open positions turning the hand wheel and let water flow inside the system. Inspect if there is a leak from the bonnet sealing ring or from the plug by opening and closing the valve again. If there is a leak depending on the leaking position, tighten the bonnet sealing ring or the plug.

Note: It is highly recommended to open and close our valves once in 15 days for a longer service life after installation.

PRESSURE / TEMPERATURE RATINGS FOR CAST IRON (GG 25) FLANGES (REFERENCE ISO 7005-2 TABLE 16)

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 / TEMPERATURE RATINGS FOR DUCTILE IRON (GGG 40) FLANGES (REFERENCE ISO 7005-2 TABLE 17)

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