



APPLICATIONS:

Hot Water, Cold water, pressurized hot water installations, chemical fluids, compressed air, etc.

FAF 1270 & 1280 series ball valves are appropriate for District Heating applications.

Warning: For steam applications, please specifically indicate the medium type and the temperature value during ordering.

TEMPERATURE:

Max. +200°C

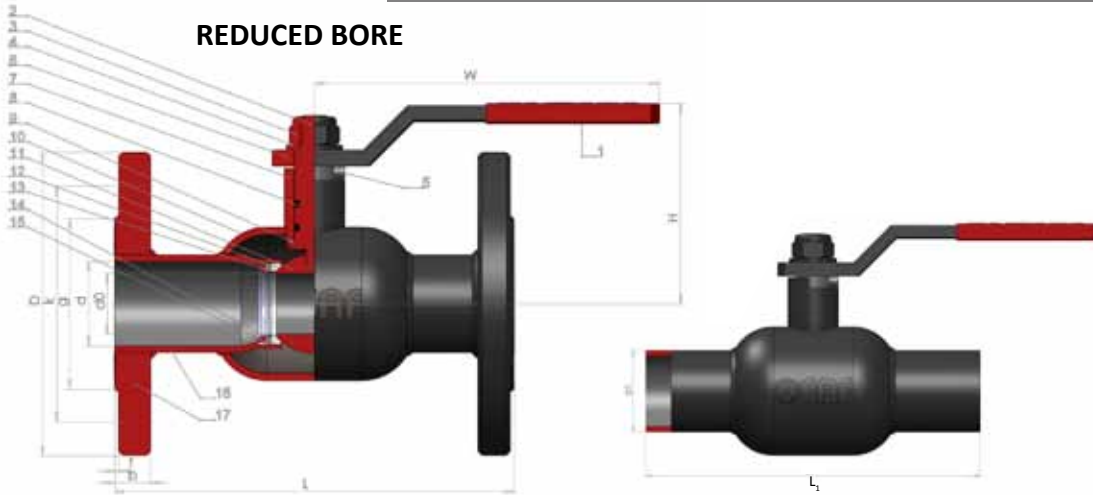
OPERATING PRESSURE:

FAF 1270 (Butt Welded)	FAF 1280 (Flanged)
PN25 (PN40 is available upto 2")	PN16 (PN25 is available upto 10") (PN40 is available upto 2")

PRODUCT FEATURES:

- The valve body is manufactured from steel pipe with pressing and automated welding technology
- CNC machined and polished ball enables low friction and minimum damage on seats
- Cast Stainless Steel floating ball enables better sealing for greater pressure values
- Blow-out proof stem with PTFE back seat
- O-rings on the stem can be replaced if needed
- PTFE seats are supported by silicone rings for damage protection and better sealing performance
- Reduced Bore (RB) and Full Bore (FB) alternatives are available for both FAF 1270 and FAF 1280
- Quarter-turn operation. Gearbox and actuator operation are applicable on request
- The handle can be repositioned 180° opposite, considering space limitations
- Long stem housing enables easy insulation of the product

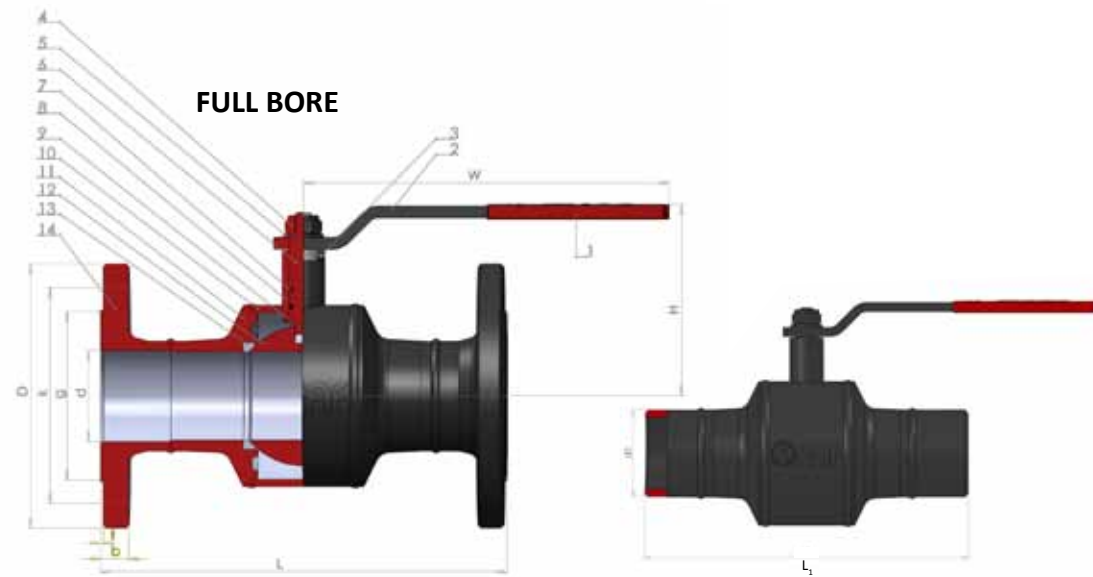
FULLY WELDED BALL VALVE, BUTT WELDED ENDS (FAF 1270)
 FULLY WELDED BALL VALVE, FLANGED ENDS (FAF 1280)



REDUCED BORE

PARTS AND MATERIALS

No.	Name	Red. Bore
1	Handle Cover	Plastic
2	Stem	SS 304, DIN 1.4301
3	Nut	DIN 934
4	Washer	Steel
5	Pin	Steel
6	Handle	ST 37
7	Stem Housing	ST 37
8	O-Ring	Viton
9	Thrust Washer	PTFE
10	Body	ST 37 or A 105
11	Ball	DIN 1.4086
12	Seat	PTFE
13	L-profile Ring	SS 304, DIN 1.4301
14	Ring	Silicone
15	Support Ring	ST 37
16	End Pipe	ST 37
17	Flange	ST 37



FULL BORE

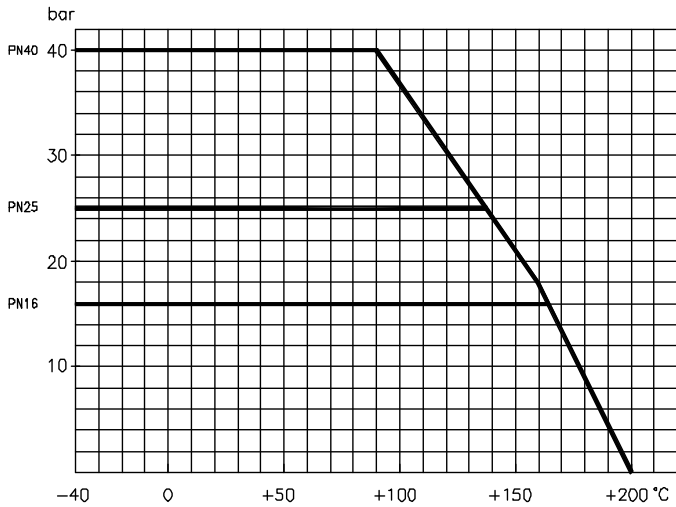
No.	Name	Full Bore
1	Handle Cover	Plastic
2	Handle	ST 37
3	Pin	Steel
4	Nut	DIN934
5	Washer	Steel
6	Stem	SS 304, DIN 1.4301
7	O-Ring	Viton
8	Stem Housing	ST 37
9	Thrust Washer	PTFE
10	Body (Center)	ST 42
11	Body (Side)	ST 37
12	Ball	DIN 1.4086
13	Seat	PTFE
14	Flange	ST 37

DIMENSION TABLE (mm)

DN	Full Bore		Reduced Bore			g	k	D	f	b	L			H	W	Weight (kg)		
	d (inner)	d ₁ (outer)	d (inner)	d ₀	d ₁ (outer)						Butt Welded	Reduced Bore	Flanged (FB)			FAF 1270	FAF 1280 (RB)	FAF 1280 (FB)
15	15	21.3	16.0	14	21.3	46	65	95	2	14	230	130	130	57	135	1.0	2.2	2.2
20	20	26.9	21.6	14	26.9	56	75	105	2	16	230	150	150	57	135	1.2	3.0	3.0
25	25	33.7	27.2	19	33.7	65	85	115	2	16	230	160	160	61	150	1.7	3.9	3.9
32	35	42.4	36.0	24	42.4	76	100	140	2	18	260	180	180	98	150	2.2	5.6	5.7
40	43	48.3	41.8	30	48.3	84	110	150	2	18	260	200	200	115	165	2.3	6.2	6.4
50	52	60.3	53.0	38	60.3	99	125	165	2	20	300	230	230	120	200	3.6	8.2	9.1
65	65	76.1	68.8	47	76.1	118	145	185	2	20	300	270	290	132	225	5.0	10.9	14.2
80	80	88.9	80.8	62	88.9	132	160	200	2	20	300	280	310	143	260	7.0	13.9	18.8
100	103	114.3	105.3	76	114.3	156	180	220	2	22	325	300	350	176	300	10.8	19.4	27.3
125	124	139.7	129.0	96	139.7	184	210	250	2	22	325	325	325	210	350	19.4	26.9	41.7
150	152	168.3	155.4	119	168.3	211	240	285	2	24	350	350	350	240	520	29.4	42.9	76.0
200	206	219.1	203.0	142	219.1	266	295	340	2	24	500	550	400	308	-	73.2	91.8	174.0
250	260	273	256.0	190	273	319	355	405	2	26	650	650	450	357	-	155.3	180.7	234.0
300*	-	-	299.8	240	323.9	370	410	460	2	28	700	750	-	433	-	209.0	245.4	-

* DN300 is only available for reduced bore. ** Flange dimensions in the dimension table are according to PN16, PN25 is optional.

TEMPERATURE PRESSURE RATINGS

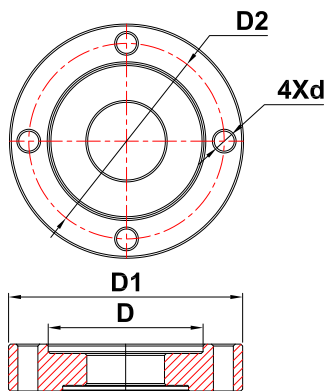


Application parameters should fall below the lines

Kv VALUE TABLE

DN	Reduced Bore	Full Bore
15	6	20
20	15	40
25	25	65
32	40	85
40	65	145
50	110	215
65	180	550
80	310	900
100	400	1500
125	650	2700
150	1050	4500
200	1450	9000
250	2500	15500
300	6000	52000

TOP FLANGE CONNECTION MEASUREMENTS (mm)



DN	D2	D1	D	4xd
15				
20				
25	F5	65	35	4x8
32				
40				
50	F7	90	55	4X10
65				
80				
100	F10	125	70	4X12
125				
150				
200	F14	175	100	4X18
250				
300				

TORQUE VALUES

DN	Torque (Nm)
15	5
20	5
25	7
32	7
40	7
50	10
65	12
80	24
100	48
125	100
150	180
200	250
250	350
300	500



INSTRUCTIONS FOR SAFER INSTALLATION AND USAGE

INSTALLATION (FAF 1270)

- 1) Make sure that the pipeline has been depressurized at the end, where the valve will be installed
- 2) Align the valve between the pipe ends, make sure that pipe ends and valve are on the same axis. Make sure that the valve is on open position during welding process. After checking obturator position, make the welding. (FAF recommends the use of electric welding methods.)
- 3) Before operating the valve please make sure that there's no welding residue inside the valve port or pipeline. Small residue particles may damage the seats and effect valve operation.

APPLICATION

Position of Valve Obturator (Ball)

The valve can be used without direction. If the handle needs to be reassembled, the handle should be mounted parallel with body when the valve is in open position.

Warranty

FAF Valve offers standard 2 years warranty for FAF 1270 and FAF 1280 series ball valves. Longer warranty period can only be granted with a written confirmation from our company.

Warranty of the product covers the problems due to material failure and improper welding or assembly.

Warranty does not apply for the following instances,

- Damages due to improper selection of valve or seat type
- Damages due to improper installation
- Damages due to applications where the flow parameters are beyond the ones defined in this catalogue
- Damages due to incorrect handling, operation or storage
- Damages due to environment affects. FAF recommends insulation in the application sites where outside temperature is very low or changes instantly.

If the user demands replacement of the valves under the terms of warranty then the defective product needs to be sent to FAF Regional Representative for detailed check.

Application Pressure

The nominal pressure of the valve is written on the valve label. The valve you purchased from FAF distributor has already been tested and quality checked. The body of the valve is tested with 1.5 times the Nominal Pressure* (NP) where valve seat (tightness) is tested with 1.1times the NP. Please note that even though the valve is tested under pressure greater than NP, it is not designed to operate with medium pressure values greater than NP. Operating the valve with pressure values higher than NP may damage the PTFE seats and badly affect the sealing.

*NP: Nominal Pressure is the pressure value on the label of the valve you purchased.

Temperature Changes

During application please consider the values in Temperature-Pressure ratings table in this catalogue.

FAF warranty does not apply for the applications where the valve is not used considering Pressure/Temperature ratings.

The user of the valve should know that PTFE, Silicone and VITON materials are used in the elements of valve sealing. Over heating of the valve during welding may soften or burn these materials and have a negative effect on valve sealing.

Valve Controls

FAF 1270 and FAF 1280 series ball valves are supplied with appropriate hand lever. On request valves can also be supplied with gearbox operator or actuator.

Maintenance

The valve cannot be disassembled for maintenance of seats, stem or ball. O-rings on the stem can be replaced if damaged. Please ask for "O-ring Replacement" instructions before changing the O-rings on the stem.