

Data sheet

Safety relief valves

Type SFA 10, SFA 15 and SFA 15-50



The SFA 10 and SFA 15/15-50 are standard, **back pressure dependent** safety relief valves in angle-way execution, specially designed for protection of vessels and other components against excessive pressure.

The valve is designed to meet the strict quality demands and safety requirements for refrigeration installations, specified by the international classification societies.

The spring housing is closed tightly to avoid refrigerant leakage.

The inlet flow diameters of the valves are:

- 6.8 mm (¼ in.) for the SFA 10
- 13 mm (½ in.) for both SFA 15 and SFA 15-50

The SFA 15-50 has a 50% reduced capacity compared to SFA 50.

The valves can be ordered with set pressure:

- between 10 and 27 bar (145 and 392 psig) for SFA 10.
- between 10 and 40 bar (145 and 580 psig) for SFA 15/15-50

Standard pressure setting valves having "TÜV Pressure Setting Certificate" with each valve, are also available.

Features

- Applicable for the refrigerants HCFC, HFC, R717 (Ammonia), R744 (CO₂) within a temperature range of -50 °C to 100 °C (-58 °F to 212 °F)
- Easy installation by threaded connections and Union fitted welding nipples
- Wide capacity range
- Stable set-point and reliable resetting
- Leak proof internal and external
- Easy selection by use of Cool selector
- Available with or without TÜV pressure setting certificate
- Classification:
To get an updated list of certification on the products please contact your local Danfoss Sales Company.

Technical data

- *Refrigerants*

Applicable for the refrigerants HCFC, HFC, R717 (Ammonia), R744 (CO₂) within a temperature range of -50 °C to 100 °C (-58 °F to 212 °F) and a set pressure not lower than -30 °C (-22 °F) saturation temperature.

Flammable hydrocarbons are not recommended. For further information please contact your local Danfoss Sales Company.

At static temperatures below -30 °C (-22 °F) the O-ring becomes harder and full tightness of the valve cannot be guaranteed. Above -30 °C (-22 °F) the O-ring will become soft and fully functional again.

Observe for R744 (CO₂)! Due to above the min set pressure for correct functional valve in R744 (CO₂) is 27 bar (392 psig), to ensure proper function of the valve in case of a sudden relief.

At static temperatures above 60 °C (140 °F) the lifetime of the O-ring will be gradually reduced, and the valve should be serviced more frequently.

In case the valve has relieved please refer to the SFA 10 installation instruction.

- *Pressure*

Pressure setting range:

SFA 10: 10 – 27 bar (145 – 392 psig).

SFA 15/15-50: 10 – 40 bar (145 – 580 psig).

For further information please contact your local Danfoss Sales Company.

Important: The SFA safety relief valve is dependent on the back pressure (if the back pressure is higher than the atmospheric pressure, the opening pressure will be higher than stated set pressure).

- *Pressure setting*

The operating pressure of the plant should be at least 15% below the set pressure and the upstream pressure loss <3% of the valve set pressure. This allows a perfect re-seating of the safety relief valve after having been activated.

- Special circumstances such as vibrations (which should be avoided) and oscillating pressure may require an increased difference between the operational pressure and the closing pressure.

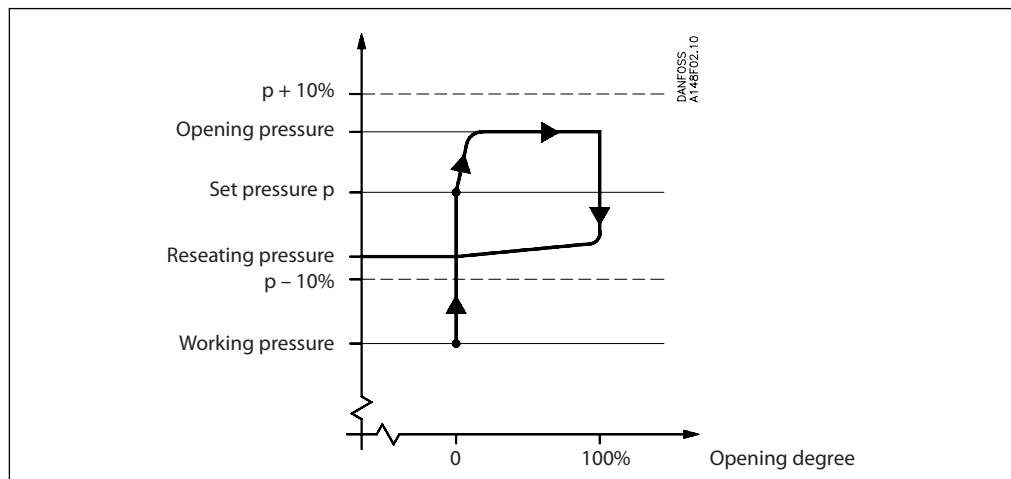


Pressure Equipment Directive (PED)

The SFA valves are approved in accordance with the European standard specified in the Pressure Equipment Directive and are CE marked. For further details / restrictions - see Installation guide.

	SFA 10	SFA 15/15-50
Nominal bore	6.8 mm (¼ in.)	13 mm (0.512 in.)
Classified for	Fluid group I	
Category	IV	

Design



SFA is designed as a direct loaded safety valve recommended particularly for refrigeration applications. On a rise in pressure above the set pressure, the safety relief valve will initially start opening slightly, to minimize the outlet of

refrigerant. If the pressure continues to increase, the valve will open fully. The safety relief valve will be fully open before the pressure is 10% higher than set pressure, and fully closed before the pressure is 10% below set pressure.

Connections

Available with the following connections:

- Outside pipe thread T (ISO 228/1)
- Welding fittings, outlet (EN 10220)

Housing

Made of special steel approved for low temperature operation. Spindle, cone, and seat are made of stainless steel, to ensure precise operation even during extraordinary conditions. The gasket of the valve cone is made of a special chloroprene (neoprene) compound.

Installation

To ensure exact operation of the safety relief valve it should be installed with the spring housing upwards. When the valve is mounted, it is important to avoid the influence of static, dynamic and thermal stress.

A very precise technique has been applied for the production of the seal. However, this seal can still be damaged, if dirt is blown from the pipe system into the valve.

It is recommended that safety relief valves exhaust into the open air with a U-pipe filled with oil on the discharge branch, to prevent dirt from penetrating into the valve.

In extreme environments it is recommended to use a valve with bellow instead, to protect the valve from refrigerant contaminated with dirt and particles.

It is also recommended that the valves be installed in pairs in conjunction with the double stop valve type DSV10, DSV1 or DSV2. For further information please see the data sheet for DSV.

Re-calibration/servicing

In certain countries the authorities demand that the valves are checked at least once a year (see local rules).

Control/Identification

After adjustment of the set pressure at Danfoss, the valves are sealed. For that reason Danfoss can only guarantee correct operation, if the seal remains unbroken.

All valves are provided with a metal plate with the following information:

- Flow diameter
- Set pressure
- Date of production
- Production number
- Type approved code.

Transport/Handling

The valves are fitted with special protection covers and packed into purpose made transportation cartons.

It is important that the cover remains fitted around the valve until it is installed.

To ensure the exact and precise operation of the valve it must be handled with care.

Capacity

The design and construction of the safety relief valve has been tested and approved by TÜV. This test comprises control of the function of the valve as well as measuring of the capacity, which is the basis of the curves and tables on the following pages. The values in the table are based on saturated gas.

If e.g. back pressure or superheated gas have to be taken into consideration, the formulas or the Danfoss computation program (Coolselector2™) can be used.

Table 1.

Valve	Nominal size		Flow diameter	Flow area	De-rated, certified coefficient of discharge K_{dr}	Effective discharge area $A_0 \times K_{dr}$
	Inlet	Outlet	d_o	A_0		
SFA 10	10 mm	15 mm	6.8 mm	36.3 mm ²	0.85	30.9 mm ²
	¾ in.	½ in.	0.268 in.	0.056 in ²		0.048 in ²
SFA 15	15 mm	20 mm	13 mm	133 mm ²	0.73	97 mm ²
	½ in.	¾ in.	0.512 in.	0.206 in ²		0.150 in ²
SFA 15-50	15 mm	20 mm	13 mm	133 mm ²	0.39	52 mm ²
	½ in.	¾ in.	0.512 in.	0.206 in ²		0.080 in ²

The discharge capacity of the safety relief valves are based on (ISO 4126-1 / EN 1313 6).

$$q_m = 0.2883 \times C \times A_0 \times K_{dr} \times K_b \sqrt{p}$$

q_m Discharge capacity (kg/h).

C Discharge function depending of the actual refrigerant (κ) see table 2 (-).

A_0 Flow area of the safety relief valve (mm²).

K_{dr} De-rated coefficient of discharge ($K_{dr} = K_d \times 0.9$), (the K_{dr} is certified by TÜV) see table 1 (-).

K_b Correction factor for sub-critical flow (-).

$K_b = 1.0$ when the back pressure is lower than approx. $0.5 \times$ relieving pressure ($P_b < 0.5 \times p$).

For all SFV safety valves $K_b = 1.0$

v Specific volume of the vapour at the relieving pressure p . (m³/kg).

p_{set} Set pressure, the predetermined pressure at which a pressure relief valve under operation starts to open (p_{set} is indicated on the metal plate on the safety relief valve). (barauge)

p_{atm} Atmospheric pressure (1 bar).

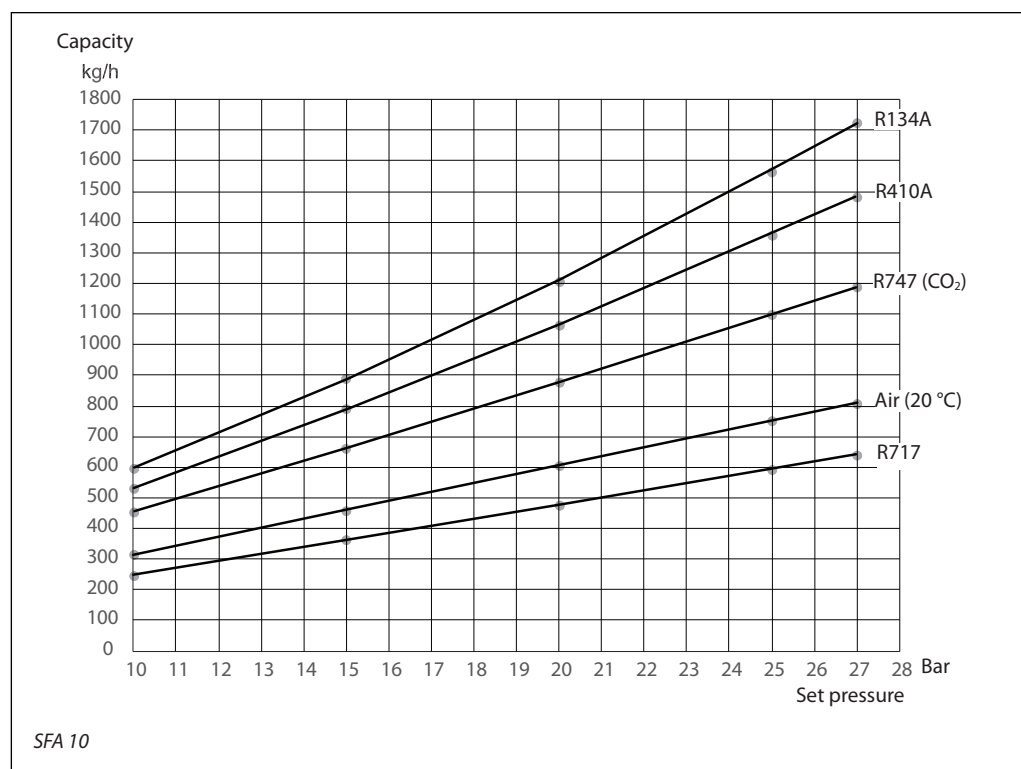
p Relieving pressure, $p = p_{set} \times 1.1 + P_{atm}$ (bar absolute).

For further details see the above-mentioned ISO or EN standards.

Table 2. Properties of refrigerants

Refrigerant	Isentropic exponent κ	Discharge function C
R22	1.17	2.54
R134a	1.12	2.50
R404A	1.12	2.49
R410A	1.17	2.54
R717 (Ammonia)	1.31	2.64
R744 (CO ₂)	1.30	2.63
Air	1.40	2.70

Capacity

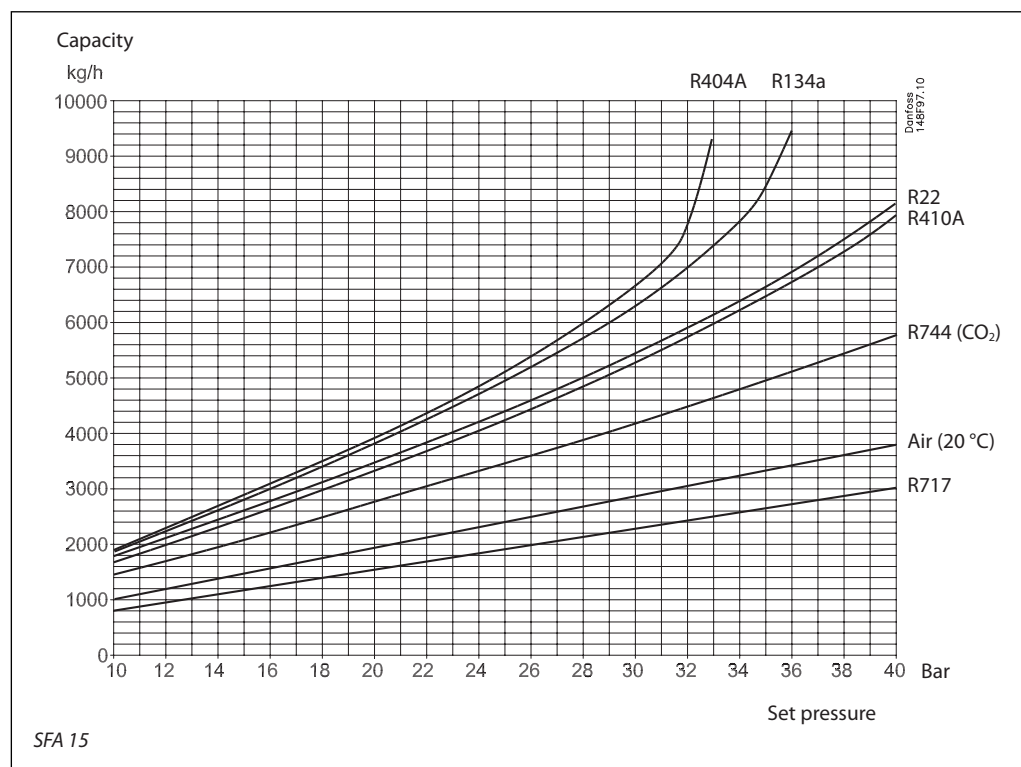


Capacity

Set pressure	qm	R134a	R410A	R717	R744 (CO ₂)	Air (20 °C)
10 bar 145 psig	kg/h lb/min	595.1 22.0	533.4 19.7	248.3 9.2	453.2 16.8	315.3 11.7
15 bar 218 psig	kg/h lb/min	889.0 32.9	791.2 29.3	361.7 13.4	662.7 24.5	460.5 17.0
20 bar 290 psig	kg/h lb/min	1208 44.7	1064 39.4	476.8 17.6	877.6 32.5	605.8 22.4
25 bar 363 psig	kg/h lb/min	1567 58.0	1359 50.3	593.9 22.0	1099 40.7	751.0 27.8
27 bar 392 psig	kg/h lb/min	1727 63.9	1484 54.9	641.4 23.7	1190 44.0	809.1 29.9

SFA 10

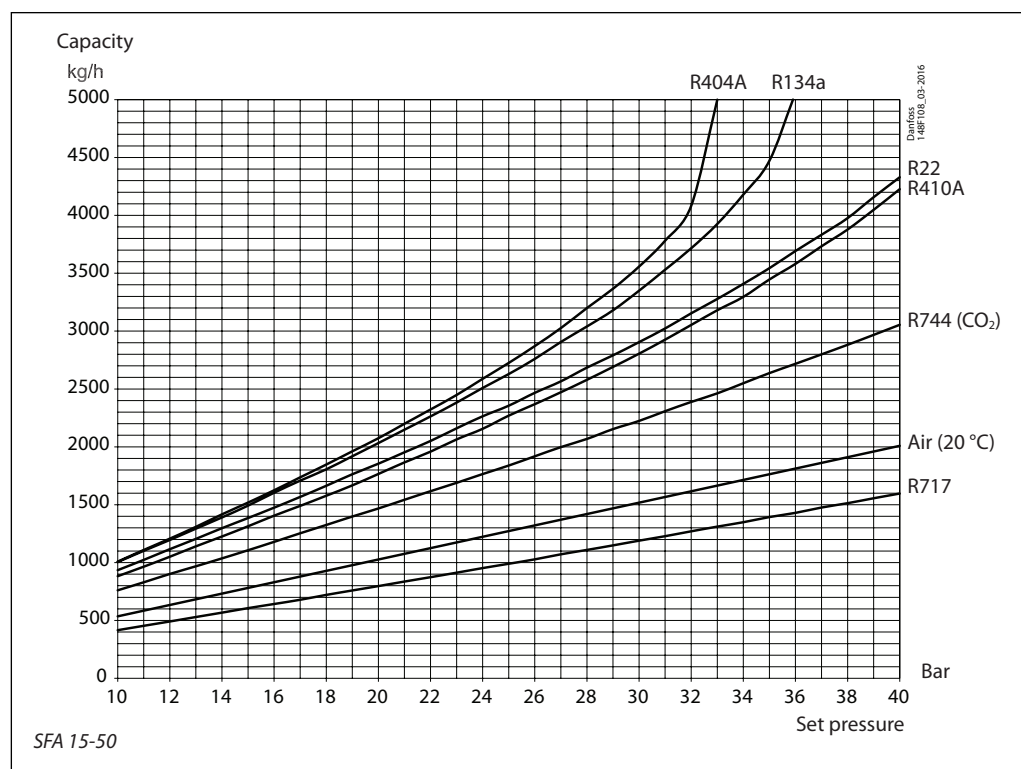
Capacity



Capacity

Set pressure	qm	R22	R134a	R404A	R410A	R717	R744 (CO ₂)	Air (20 °C)
SFA 15								
10 bar	kg/h	1749	1881	1888	1652	779	1424	1003
145 psig	lb/min	64	69	69	61	29	52	37
15 bar	kg/h	2592	2793	2842	2459	1135	2072	1462
218 psig	lb/min	95	103	104	90	42	76	54
20 bar	kg/h	3471	3804	3883	3305	1492	2747	1922
290 psig	lb/min	128	140	143	121	55	101	71
25 bar	kg/h	4409	4921	5101	4248	1853	3441	2381
363 psig	lb/min	162	181	187	156	68	126	87
30 bar	kg/h	5437	6269	6659	5250	2227	4163	2841
435 psig	lb/min	200	230	245	193	82	153	104
35 bar	kg/h	6633	8370		6450	2608	4936	3301
508 psig	lb/min	244	308		237	96	181	121
40 bar	kg/h	8104			7911	2989	5718	3760
580 psig	lb/min	298			291	110	210	138

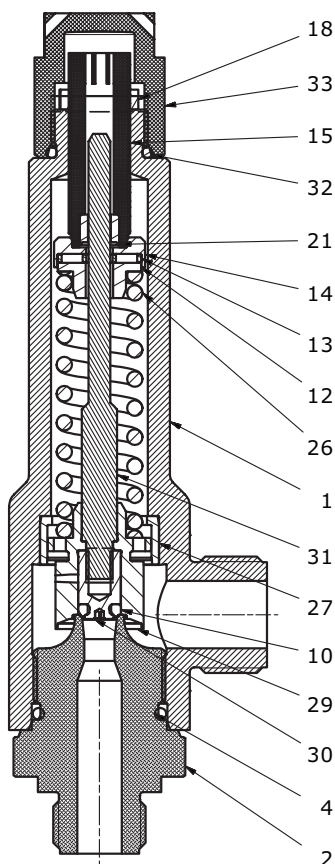
Capacity



Capacity

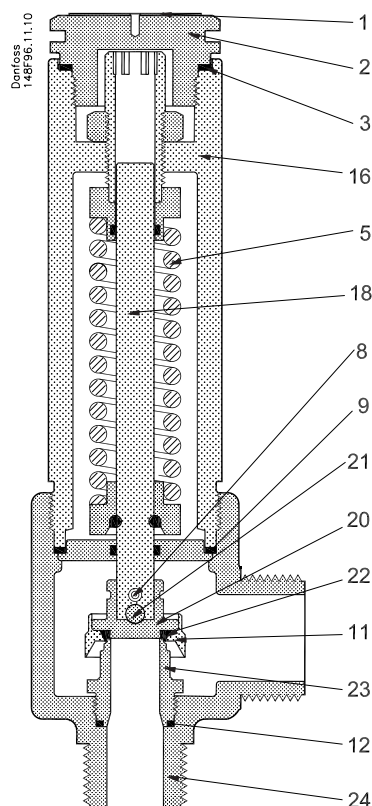
Set pressure	qm	R22	R134a	R404A	R410A	R717	R744 (CO ₂)	Air (20 °C)
SFA 15-50								
10 bar	kg/h	935	1005	1009	883	416	761	536
145 psig	lb/min	34	37	37	32	15	28	20
15 bar	kg/h	1385	1492	1519	1314	607	1107	781
218 psig	lb/min	51	55	56	48	22	41	29
20 bar	kg/h	1854	2033	2075	1766	797	1468	1027
290 psig	lb/min	68	75	76	65	29	54	38
25 bar	kg/h	2356	2629	2725	2270	990	1838	1272
363 psig	lb/min	87	97	100	83	36	68	47
30 bar	kg/h	2905	3349	3557	2805	1190	2224	1518
435 psig	lb/min	107	123	131	103	44	82	56
35 bar	kg/h	3544	4472		3446	1393	2637	1763
508 psig	lb/min	130	164		127	51	97	65
40 bar	kg/h	4329			4226	1597	3055	2009
580 psig	lb/min	159			155	59	112	74

Material specification SFA 10



No.	Part	Material	DIN	ISO	ASTM
1	Bonnet long version	Steel, Carbon	P285QH		
2	Inlet body, SFA 10	Stainless Steel, Austenitic	X5CrNi 18-10		AISI 304
4	O-ring 25.07 x 2.62 CR	Rubber			
10	O-ring 6.02 x 2.62 CR	Rubber			
12	Lower bearing retainer	Stainless Steel, Austenitic	X8CrNiS18-9		AISI 303
13	Needle roller thrust bearings	Stainless Steel	SUS304-JIS G4305 G102Cr18Mo-GB/T3086		AISI 304
14	Top bearing retainer	Stainless Steel, Austenitic	X8CrNiS18-9		AISI 303
15	Adjusting screw	Steel	115Mn30		
18	Locknut SFA 10	Steel	115Mn30		
21	Bushing PTFE	Polystyrene, High Impact			
26	Spring	Steel			
27	Bushing SFA 10	Stainless Steel	X2CrNiMo17		AISI 316L
29	Cone for SFA 10	Stainless Steel	X5CrNi 18-10		AISI 304
30	O-ring Lock screw	Stainless Steel	X5CrNi 18-10		AISI 304
31	Spindle SFA 10	Stainless Steel	X5CrNi 18-10		AISI 304
32	O-ring 19.30 x 2.40	Generic			
33	Cap on SFA 10	Stainless Steel	X5CrNi 18-10		AISI 304

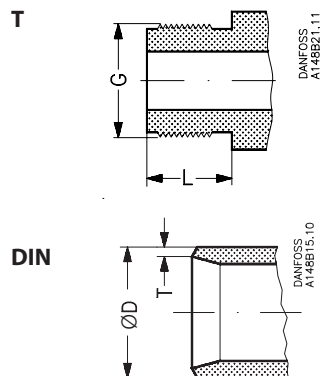
Material specification SFA 15/ SFA 15-50



No.	Part	Material	DIN	ISO	ASTM
1	Marking label	Stainless steel			
2	Threaded plug	Steel			
3	Packing washer	Aluminium (Non-asbestos gasket)			
5	Spring	Steel	Class C, DIN17223		
8	Split	Steel	94 ELFORZ		
9	Packing washer	Aluminium (Non-asbestos gasket)			
11	Retainer	Stainless steel	X8CrNiS 18-9		AISI 303, A276
12	Packing washer	Aluminium (Non-asbestos gasket)			
16	Valve top	Steel	G20Mn5QT Alt. S235JRG2 Alt. S355J2G3	Fe360BFN Fe510D1	LCC, A352 A284C A572-50
18	Valve spindle	Stainless steel	X5CrNi 18-10		AISI 304, A276
20	Valve cone	Stainless steel	X8CrNiS 18-9		AISI 303, A276
21	Steel ball	Steel			
22	Valve cone seal	Cloroprene (Neoprene)			
23	Valve seat	Stainless steel	X8CrNiS 18-9		AISI 303, A276
24	Valve housing	Steel	G20Mn5QT Alt. P285QH		LCC, A352 LF2, A350

Data sheet | Safety relief valves, Type SFA 10, SFA 15 and SFA 15-50

Connections



Type	Size mm	Size in.	Inlet	Outlet				L mm	L in.	
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T outside pipe thread, (ISO 228/1)

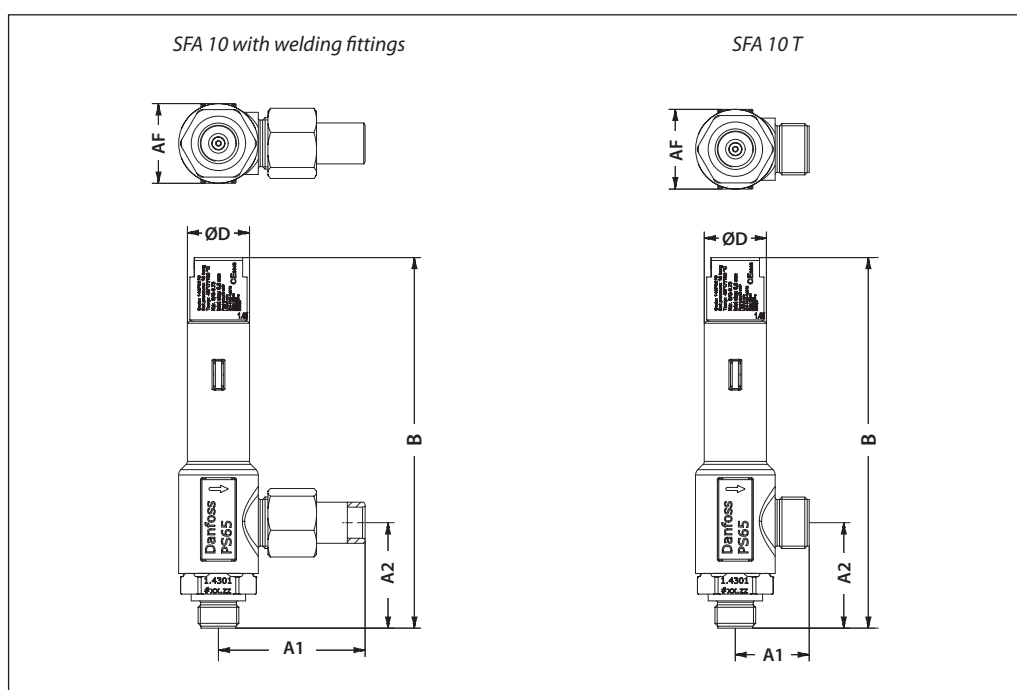
SFA 10	10	$\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$				18	0.71	
SFA 15/15-50	15	$\frac{1}{2}$	G $\frac{3}{4}$	G 1				15	0.59	

Type	Size mm	Size in.	Inlet (mm)		Inlet (in.)		Outlet (mm)		Outlet (in.)	
			OD	T	OD	T	OD	T	OD	T

Welding fittings, DIN (2448)

SFA 10	10	$\frac{3}{8}$	-	-	-	-	21.1	2.2	0.83	0.087
SFA 15/15-50	15	$\frac{1}{2}$	21.3	2.3	0.839	0.091	26.9	2.3	1.059	0.091

Dimensions and weights



Valve size		A1	A2	B		ØD		AF		Weight
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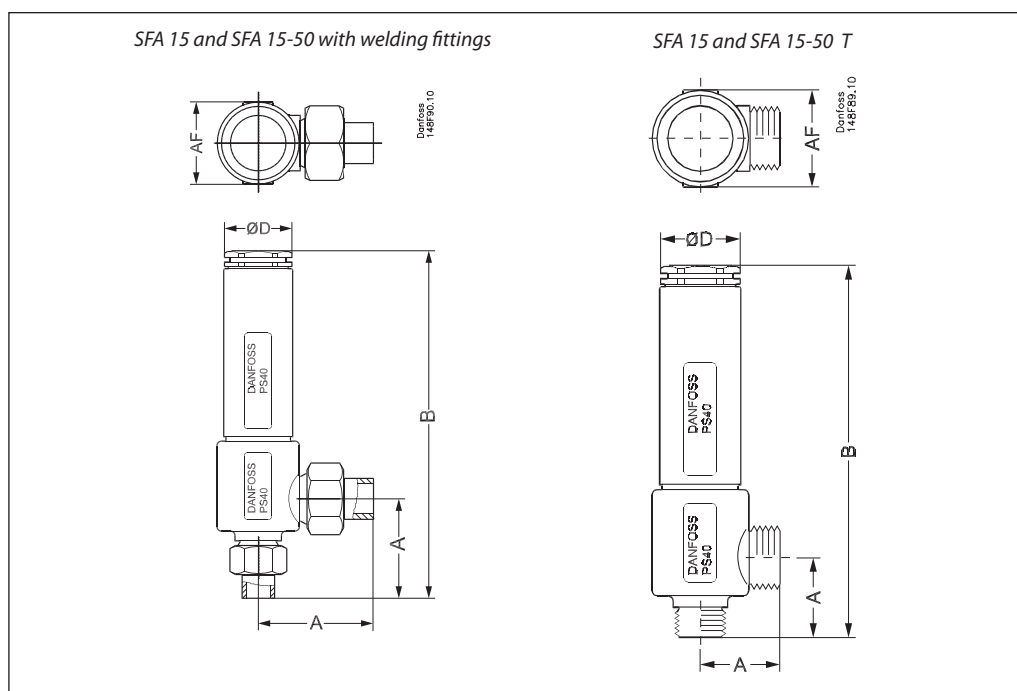
SFA T, with threaded connections ISO 228/1 pipe threads

SFA 10 T	mm in.	38 1.5	54 2.13	175 6.89		32 1.26		41 1.61		0.95 kg 2.1 lbs
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SFA with welding fittings, DIN 2448

SFA 10	mm in.	76 2.99	54 2.13	175 6.89		32 1.26		41 1.61		1.25 kg 2.31 lbs
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Specified weights are approximate values only.



Valve size			A	B		ØD		AF		Weight
<i>SFA 15 T, with threaded connections ISO 228/1 pipe threads</i>										
SFA 15 and SFA 15-50 T (½ in.)	mm		45	210		45		55		2.2 kg
	in.		1.77	8.27		1.81		2.17		4.9 lbs
<i>SFA with welding fittings, DIN 2448</i>										
SFA 15 and SFA 15-50 (½ in.)	mm		83	248		45		55		2.5 kg
	in.		3.27	9.76		1.81		2.17		5.5 lbs

Specified weights are approximate values only.

Ordering
Certified SFA valves with standard set pressure

Size		Type	Set pressure bar (psig)	Code number
mm.	in.			
10	3/8	SFA 10 T 210	10 (145)	148F4210
10	3/8	SFA 10 T 211	11 (160)	148F4211
10	3/8	SFA 10 T 212	12 (174)	148F4212
10	3/8	SFA 10 T 213	13 (189)	148F4213
10	3/8	SFA 10 T 214	14 (203)	148F4214
10	3/8	SFA 10 T 215	10 (218)	148F4215
10	3/8	SFA 10 T 216	16 (232)	148F4216
10	3/8	SFA 10 T 217	17 (247)	148F4217
10	3/8	SFA 10 T 218	18 (261)	148F4218
10	3/8	SFA 10 T 219	19 (276)	148F4219
10	3/8	SFA 10 T 220	20 (290)	148F4220
10	3/8	SFA 10 T 221	21 (305)	148F4221
10	3/8	SFA 10 T 222	22 (319)	148F4222
10	3/8	SFA 10 T 223	23 (334)	148F4223
10	3/8	SFA 10 T 224	24 (348)	148F4224
10	3/8	SFA 10 T 225	25 (363)	148F4225
10	3/8	SFA 10 T 226	26 (377)	148F4226
10	3/8	SFA 10 T 227	27 (392)	148F4227

Certified SFA valves with standard set pressure and TÜV pressure setting certificate with each valve

Size		Type	Set pressure bar (psig)	Code number
mm.	in.			
10	3/8	SFA 10 T 310	10 (145)	148F4310
10	3/8	SFA 10 T 311	11 (160)	148F4311
10	3/8	SFA 10 T 312	12 (174)	148F4312
10	3/8	SFA 10 T 313	13 (189)	148F4313
10	3/8	SFA 10 T 314	14 (203)	148F4314
10	3/8	SFA 10 T 315	10 (218)	148F4315
10	3/8	SFA 10 T 316	16 (232)	148F4316
10	3/8	SFA 10 T 317	17 (247)	148F4317
10	3/8	SFA 10 T 318	18 (261)	148F4318
10	3/8	SFA 10 T 319	19 (276)	148F4319
10	3/8	SFA 10 T 320	20 (290)	148F4320
10	3/8	SFA 10 T 321	21 (305)	148F4321
10	3/8	SFA 10 T 322	22 (319)	148F4322
10	3/8	SFA 10 T 323	23 (334)	148F4323
10	3/8	SFA 10 T 324	24 (348)	148F4324
10	3/8	SFA 10 T 325	25 (363)	148F4325
10	3/8	SFA 10 T 326	26 (377)	148F4326
10	3/8	SFA 10 T 327	27 (392)	148F4327

Certified SFA valves with standard set pressure

Size		Type	Set pressure bar (psig)	Code number
mm	in.			
15	1/2	SFA 15 T 210	10 (145)	148F3210
15	1/2	SFA 15 T 211	11 (160)	148F3211
15	1/2	SFA 15 T 212	12 (174)	148F3212
15	1/2	SFA 15 T 213	13 (189)	148F3213
15	1/2	SFA 15 T 214	14 (203)	148F3214
15	1/2	SFA 15 T 215	15 (218)	148F3215
15	1/2	SFA 15 T 216	16 (232)	148F3216
15	1/2	SFA 15 T 217	17 (247)	148F3217
15	1/2	SFA 15 T 218	18 (261)	148F3218
15	1/2	SFA 15 T 219	19 (276)	148F3219
15	1/2	SFA 15 T 220	20 (290)	148F3220
15	1/2	SFA 15 T 221	21 (305)	148F3221
15	1/2	SFA 15 T 222	22 (319)	148F3222
15	1/2	SFA 15 T 223	23 (334)	148F3223
15	1/2	SFA 15 T 224	24 (348)	148F3224
15	1/2	SFA 15 T 225	25 (363)	148F3225
15	1/2	SFA 15 T 226	26 (377)	148F3226
15	1/2	SFA 15 T 227	27 (392)	148F3227
15	1/2	SFA 15 T 228	28 (406)	148F3228
15	1/2	SFA 15 T 229	29 (421)	148F3229
15	1/2	SFA 15 T 230	30 (435)	148F3230
15	1/2	SFA 15 T 231	31 (450)	148F3231
15	1/2	SFA 15 T 232	32 (464)	148F3232
15	1/2	SFA 15 T 233	33 (479)	148F3233
15	1/2	SFA 15 T 234	34 (493)	148F3234
15	1/2	SFA 15 T 235	35 (508)	148F3235
15	1/2	SFA 15 T 236	36 (522)	148F3236
15	1/2	SFA 15 T 237	37 (537)	148F3237
15	1/2	SFA 15 T 238	38 (551)	148F3238
15	1/2	SFA 15 T 239	39 (566)	148F3239
15	1/2	SFA 15 T 240	40 (580)	148F3240

Certified SFA valves with standard set pressure and TÜV pressure setting certificate with each valve

Size		Type	Set pressure bar (psig)	Code number
mm	in.			
15	1/2	SFA 15 T 310	10 (145)	148F3310
15	1/2	SFA 15 T 311	11 (160)	148F3311
15	1/2	SFA 15 T 312	12 (174)	148F3312
15	1/2	SFA 15 T 313	13 (189)	148F3313
15	1/2	SFA 15 T 314	14 (203)	148F3314
15	1/2	SFA 15 T 315	15 (218)	148F3315
15	1/2	SFA 15 T 316	16 (232)	148F3316
15	1/2	SFA 15 T 317	17 (247)	148F3317
15	1/2	SFA 15 T 318	18 (261)	148F3318
15	1/2	SFA 15 T 319	19 (276)	148F3319
15	1/2	SFA 15 T 320	20 (290)	148F3320
15	1/2	SFA 15 T 321	21 (305)	148F3321
15	1/2	SFA 15 T 322	22 (319)	148F3322
15	1/2	SFA 15 T 323	23 (334)	148F3323
15	1/2	SFA 15 T 324	24 (348)	148F3324
15	1/2	SFA 15 T 325	25 (363)	148F3325
15	1/2	SFA 15 T 326	26 (377)	148F3326
15	1/2	SFA 15 T 327	27 (392)	148F3327
15	1/2	SFA 15 T 328	28 (406)	148F3328
15	1/2	SFA 15 T 329	29 (421)	148F3329
15	1/2	SFA 15 T 330	30 (435)	148F3330
15	1/2	SFA 15 T 331	31 (450)	148F3331
15	1/2	SFA 15 T 332	32 (464)	148F3332
15	1/2	SFA 15 T 333	33 (479)	148F3333
15	1/2	SFA 15 T 334	34 (493)	148F3334
15	1/2	SFA 15 T 335	35 (508)	148F3335
15	1/2	SFA 15 T 336	36 (522)	148F3336
15	1/2	SFA 15 T 337	37 (537)	148F3337
15	1/2	SFA 15 T 338	38 (551)	148F3338
15	1/2	SFA 15 T 339	39 (566)	148F3339
15	1/2	SFA 15 T 340	40 (580)	148F3340

Certified SFA valves with standard set pressure

Size		Type	Set pressure bar (psig)	Code number
mm	in.			
15	½	SFA 15-50 T 210	10 (145)	148F4000
15	½	SFA 15-50 T 211	11 (160)	148F4001
15	½	SFA 15-50 T 212	12 (174)	148F4002
15	½	SFA 15-50 T 213	13 (189)	148F4003
15	½	SFA 15-50 T 214	14 (203)	148F4004
15	½	SFA 15-50 T 215	15 (218)	148F4005
15	½	SFA 15-50 T 216	16 (232)	148F4006
15	½	SFA 15-50 T 217	17 (247)	148F4007
15	½	SFA 15-50 T 218	18 (261)	148F4008
15	½	SFA 15-50 T 219	19 (276)	148F4009
15	½	SFA 15-50 T 220	20 (290)	148F4010
15	½	SFA 15-50 T 221	21 (305)	148F4011
15	½	SFA 15-50 T 222	22 (319)	148F4012
15	½	SFA 15-50 T 223	23 (334)	148F4013
15	½	SFA 15-50 T 224	24 (348)	148F4014
15	½	SFA 15-50 T 225	25 (363)	148F4015
15	½	SFA 15-50 T 226	26 (377)	148F4016
15	½	SFA 15-50 T 227	27 (392)	148F4017
15	½	SFA 15-50 T 228	28 (406)	148F4018
15	½	SFA 15-50 T 229	29 (421)	148F4019
15	½	SFA 15-50 T 230	30 (435)	148F4020
15	½	SFA 15-50 T 231	31 (450)	148F4021
15	½	SFA 15-50 T 232	32 (464)	148F4022
15	½	SFA 15-50 T 233	33 (479)	148F4023
15	½	SFA 15-50 T 234	34 (493)	148F4024
15	½	SFA 15-50 T 235	35 (508)	148F4025
15	½	SFA 15-50 T 236	36 (522)	148F4026
15	½	SFA 15-50 T 237	37 (537)	148F4027
15	½	SFA 15-50 T 238	38 (551)	148F4028
15	½	SFA 15-50 T 239	39 (566)	148F4029
15	½	SFA 15-50 T 240	40 (580)	148F4030

Certified SFA valves with standard set pressure and TÜV pressure setting certificate with each valve

Size		Type	Set pressure bar (psig)	Code number
mm	in.			
15	½	SFA 15-50 T 310	10 (145)	148F4100
15	½	SFA 15-50 T 311	11 (160)	148F4101
15	½	SFA 15-50 T 312	12 (174)	148F4102
15	½	SFA 15-50 T 313	13 (189)	148F4103
15	½	SFA 15-50 T 314	14 (203)	148F4104
15	½	SFA 15-50 T 315	15 (218)	148F4105
15	½	SFA 15-50 T 316	16 (232)	148F4106
15	½	SFA 15-50 T 317	17 (247)	148F4107
15	½	SFA 15-50 T 318	18 (261)	148F4108
15	½	SFA 15-50 T 319	19 (276)	148F4109
15	½	SFA 15-50 T 320	20 (290)	148F4110
15	½	SFA 15-50 T 321	21 (305)	148F4111
15	½	SFA 15-50 T 322	22 (319)	148F4112
15	½	SFA 15-50 T 323	23 (334)	148F4113
15	½	SFA 15-50 T 324	24 (348)	148F4114
15	½	SFA 15-50 T 325	25 (363)	148F4115
15	½	SFA 15-50 T 326	26 (377)	148F4116
15	½	SFA 15-50 T 327	27 (392)	148F4117
15	½	SFA 15-50 T 328	28 (406)	148F4118
15	½	SFA 15-50 T 329	29 (421)	148F4119
15	½	SFA 15-50 T 330	30 (435)	148F4120
15	½	SFA 15-50 T 331	31 (450)	148F4121
15	½	SFA 15-50 T 332	32 (464)	148F4122
5	½	SFA 15-50 T 333	33 (479)	148F4123
15	½	SFA 15-50 T 334	34 (493)	148F4124
15	½	SFA 15-50 T 335	35 (508)	148F4125
15	½	SFA 15-50 T 336	36 (522)	148F4126
15	½	SFA 15-50 T 337	37 (537)	148F4127
15	½	SFA 15-50 T 338	38 (551)	148F4128
15	½	SFA 15-50 T 339	39 (566)	148F4129
15	½	SFA 15-50 T 340	40 (580)	148F4130

Ordering*Spare parts*

Type	Code number
SFA 10/DSV 10 Inspection kit	148F3068
SFA 10 Repair kit, ≤27 bar	148F3069
SFA 15/DSV 1 inspection kit	148F3029
Repair kit SFA 15	148F3036
Repair kit SFA 15-50	148F3150

Accessories

Type	Code number
DSV/SFA/SFV Non-stick grease	148F3064
DSV 10 Plug and alu gasket for testing (1 set)	148F3063
Nipples + gaskets set for SFA 10, SFV 15/SFA 15 and SFA 15-50 *	148F3019

** Weld nipple for SFA 10 inlet (G ½") not available and not included in 148F3019*

