

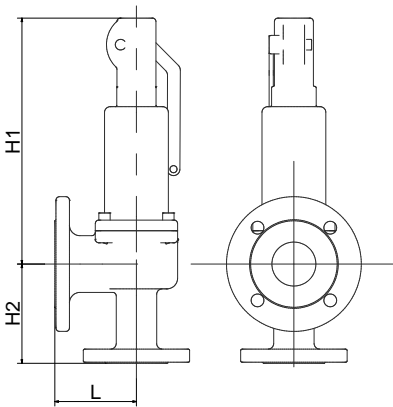
**Description:**

- standard safety valve
- angular shape
- spring-loaded
- without lifting device
- enlarged outlet
- flange acc. to EN1092-1
- inlet: PN25 (cast iron with spheroidal graphite PN16)
- outlet: PN16
- seal cap prevents unauthorized changing of set pressure
- TÜV certified

Range of application:

- Protection of systems from exceeding a defined maximum pressure
- reaction pressure is set by the manufacturer
- seawater resistant with red brass design
- Fluid media: Boiling temperature of the medium under atmospheric pressure is prohibited!
- max. permitted medium temperature depending on sealing material:
 - NBR: 130°C
 - EPDM: 150°C
 - FKM: 200°C
 - FFKM: 260°C
 - PTFE: 225°C

The following properties apply to all types of SVF04:



match code	connection size		nominal size [mm]	L [mm]	reaction pressure [bar]	
	inlet	outlet			red brass / stainless steel	cast iron with spheroidal graphite
SVF04-56-x/58-x xxx370	DN40	DN65	37	115	0.5-25	0.5-16
SVF04-57-x/59-x xxx460	DN50	DN80	46	120	0.5-25	0.5-16

options:

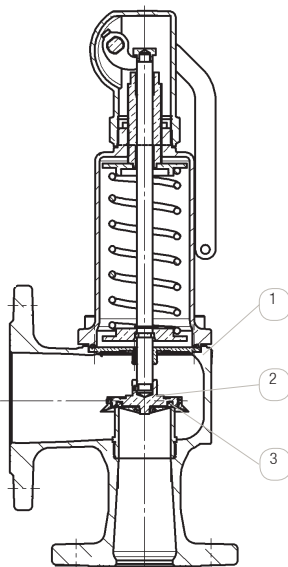
- LF: lifting lever
- OF: free of oil and grease
- ZG: certificate

design for neutral fluids, air, neutral gases and technical steam:

match code	H1 [mm]	H2 [mm]	weight [kg]
SVF04-56-x/58-x xxx370	1/2	11.5	17
SVF04-57-x/59-x xxx460	3/4	15	19

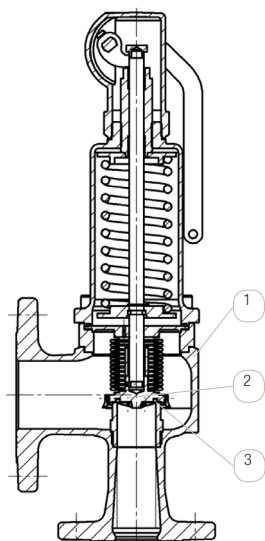
range of application in detail:

- protection of pressure tanks and systems
- protection of steam boiler (with PTFE sealing)



pos.	part	red brass	stainless steel	cast iron with spheroidal graphite	options	
1	body	CC491K	B 1.4408	O GGG40.3	M	
2	interior	CC491K	B 1.4571	O 1.4571	O	
3	sealing	NBR (fluids)	B NBR (fluids)	B NBR (fluids)	B PTFE	T
		EPDM (gases/steam)	E EPDM (gases/steam)	E EPDM (gases/steam)	E FKM	V

For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.



design with bellows for aggressive media (gas-tight):

match code	without bellows			with bellows		
	H1 [mm]	H2 [mm]	weight [kg]	H1 [mm]	H2 [mm]	weight [kg]
SVF04-56-x/58-x xxx370-FB	345	140	17	362	140	18
SVx04-57-x/59-x xxx460-FB	345	150	19	362	150	20

range of application in detail:

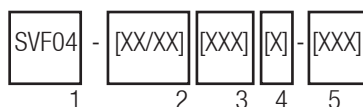
- toxic, flammable media
- non-neutral gases, steam, fluids

further options:

- OF: BAM approval for oxygen
- FFKM-sealing (additional charge)

The valve is equipped with bellows and metal-supported o-ring sealing.

pos.	part	red brass		stainless steel		cast iron with spheroidal gra- phite	options	
1	body	CC491K	B	1.4408	O	GGG40.3	M	
2	interior	CC491K	B	1.4571	O	1.4571	O	
3	sealing	NBR (fluids)	B	NBR (fluids)	B	NBR (fluids)	B	PTFE T
		EPDM (gases/steam)	E	EPDM (gases/steam)	E	EPDM (gases/steam)	E	FKM V FFKM
4	bellows	bronze		stainless steel		stainless steel		



Order information:

1: type:

- SVF04

2: connection size (see table):

- inlet: 56-58
- outlet: 57-59
- attached is the nominal pressure

of the flange:

1 = PN16

2 = PN25

3: materials:

- 1. digit: body material
B = red brass
O = stainless steel
M=cast iron with spheroidal graphite
- 2. digit: interior
B = red brass
O = stainless steel

- 3. digit: sealing

B=NBR
E=EPDM
T=PTFE
V=FKM

4. nominal size in 1/10mm (see table)

5: options (see "options" and "further options")

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!

SUPPLEMENT: RELIEF CAPACITY

Relief capacity at 10% pressure surge for each set pressure at the inlet of each connection size

- measured with water in m³/h for fluids (table 1)
- measured with air in Nm³/h for gases (table 2)
- measured with steam in kg/h for steam (table 3)

relief capacity for safety valves with and without bellows

comment:

The **set pressure** is the gauge pressure at which a direct-loaded safety valve begins to open under test conditions (atmospheric pressure).

The **reaction pressure** is the gauge pressure at which a direct-loaded safety valve begins to open under operating conditions.

A **standard cubic meters** m³ acc. to DIN 1343 is the amount that is at a pressure $p_n = 1.01325$, a humidity of 0% (dry gas) and a temperature of $t_n = 0$ ° C a cubic meter.

set pressure [bar]	relief capacity [m ³ /h] acc. to connection size		set pressure [bar]	relief capacity [Nm ³ /h] acc. to connection size		set pressure [bar]	relief capacity kg ³ /h] acc. to connection size	
	DN40	DN50		DN40	DN50		DN40	DN50
0.5	23	36	0.5	667	995	0.5	503	750
1	32	49	1	983	1472	1	785	1176
1.5	39	60	1.5	1299	1948	1.5	1032	1547
2	45	69	2	1615	2461	2	1273	1939
2.5	50	77	2.5	1926	2926	2.5	1510	2294
3	55	85	3	2208	3404	3	1771	2661
3.5	59	91	3.5	2491	3839	3.5	1987	2985
4	63	98	4	2773	4275	4	2206	3315
4.5	67	104	4.5	3056	4710	4.5	2424	3643
5	71	109	5	3338	5146	5	2641	3970
5.5	74	114	5.5	3621	5581	5.5	2860	4299
6	77	120	6	3903	6016	6	3080	4629
6.5	81	124	6.5	4186	6452	6.5	3295	4951
7	84	129	7	4468	6887	7	3508	5272
7.5	86	134	7.5	4751	7323	7.5	3725	5598
8	89	138	8	5033	7758	8	3941	5923
8.5	92	142	8.5	5316	8194	8.5	4157	6247
9	95	146	9	5598	8629	9	4372	6570
9.5	97	150	9.5	5881	9064	9.5	4587	6893
10	100	154	10	6163	9500	10	4801	7215
11	105	162	11	6728	10371	11	5227	7856
12	109	169	12	7293	11241	12	5652	8494
13	114	176	13	7858	12112	13	6080	9138
14	118	183	14	8423	12983	14	6511	9784
15	122	189	15	8988	13854	15	6937	10425
16	126	195	16	9553	14725	16	7365	11069
17	130	201	17	10118	15595	17	7781	11693
18	134	207	18	10683	16466	18	8207	12334
19	138	213	19	11248	17337	19	8632	12973
20	141	218	20	11813	18208	20	9061	13617
21	145	224	21	12378	19079	21	9490	14261
22	148	229	22	12943	19949	22	9918	14905
23	151	234	23	13508	20820	23	10346	15547
24	155	239	24	14073	21691	24	10773	16190
25	158	244	25	14638	22562	25	11200	16831