



Safety relief valves and double stop valves, type SFVL and DSVL

Technical leaflet

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Introduction



DSVL

Features

SFVL

- The 843, 844, and 845 series stop valves feature: Stainless steel stems and seal caps A compact casted ductile iron valve body
 - Teflon packing gland
 - Teflon valve seat

seal.

primer paint

which is painted with corrosion inhibiting

 Full port pipe threaded connections for easy installation and disassembly. The connections

are marked for easy identification.

ant



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Technical data SFVL	 The SFVL series relief valves are available with pressure settings from 75 to 400 psi and a maximum working pressure of 500 psi. Common set pressures of 150, 250 and 300 psi are available from stock or with short lead-time. Other special pressure settings may be ordered (see capacity charts in technical information section.) The SFVL series relief valves are suitable for refrigerants R717 (ammonia NH₃), HFC and HCFC refrigerants. The temperature range is -20°F to +275°F (-29°C to 135°C). 	 The valve body is made from ductile iron that meets the ASME SA-395 specification grade 60-40-18. All upper and lower valve seats, springs, and spring guides are constructed from 304-grade stainless steel. Valve bodies are painted with a corrosion inhibiting primer paint The SFVL series relief valves are designed for use with 800 series DSVL (843, 844, or 845). 			
DSVL	 The series relief valves are suitable for refrigerants R717 (ammonia NH₃), HFC and HCFC refrigerants. The 843, 844, and 845 DSVL valves are approved: Maximum working pressure of 400 psig. Temperature range: -20°F to +300°F (-29°C to +149°C) 	 To receive an updated list of certification on the products please contact your local Danfoss Sales Company. 			
Design	 <i>Connections:</i> The valves are offered with threaded (NPT) connections. <i>Housing and internal materials:</i> The valve body is made from cast ductile iron that meets the ASME SA-395 specification grade 60-40-18. All upper and lower valve seats, springs, and spring guides are constructed from 304-grade stainless steel. The upper valve seat is teflon. 				

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Material specification



SFVL

No.	Part	Material
1	Lower seat	Stainless steel
2	Upper seat	Stainless steel
3	Teflon ring	Teflon
4	Uniform load spring guide	Stainless steel
5	Spring	Stainless steel
6	Housing	Ductile iron

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No.	Part	Material
1	Stem / spindle	Stainless steel
2	Packing nut	Stainless steel
3	Bonnet	Steel
4	Housing	Ductile iron
5	Upper and lower seat	Steel

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Capacities

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Dimensions and weights



Valve size		Α	В	с	øD	E	Weight
	in.	1.77	5.24	1.77	1.65	2.83	3.2 lb
SFVL 803/813	mm	45	133	45	42	72	1.4 kg
SFVL 804/814	in.	1.97	6.06	1.97	1.97	3.31	5.3 lb
	mm	50	154	50	50	84	2.4 kg
SFVL 805/815	in.	2.36	7.09	2.36	2.36	3.94	7.9 lb
	mm	60	180	60	60	100	3.5 kg

Valve size		Α	В	c	E	Weight
	in.	1.38	7.40	1.77	3.54	3.75 lb
DSVL 843	mm	35	188	45	90	1.7 kg
DSVL 844	in.	1.73	9.37	2.01	4.13	6.5 lb
	mm	44	238	51	105	2.9 kg
DSVL 845	in.	1.97	11.34	2.20	4.72	10.25 lb
	mm	50	288	56	120	4.6 kg



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Ordering

How to order The table below is used to identify the valve required. Please note that the type codes only serve to identify the valves, some of which may not form part of the standard product range. For further information please contact your local Danfoss Sales Company.

Safety valves, type: SFVL

Туре	Connections	Pressure setting [psig]	Code no.
			148F8000
		175	148F8035
SFVL 803	1/2 NFPT x 3/4 NFPT	250	148F8001
		260	148F8036
		300	148F8002
	SFVL 813 ½ NFPT x 1 NFPT	150	148F8003
		175	148F8037
SFVL 813		250	148F8004
		260	148F8038
		300	148F8005
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		150	148F8006
SFVL 804	- 804 34 NFPT x 1 NFPT	175	148F8039
		250	148F8007
		260	148F8040
		300	148F8008

Туре	Connections	Pressure setting [psig]	Code no.		
		150	148F8009		
		175	148F8041		
SFVL 814	34 NFPT x 1-1/4 NFPT	250	148F8010		
		260	148F8042		
		300	148F8011		
	1 NFPT x 1-¼ NFPT	150	148F8012		
		175	148F8030		
		235	148F8031		
5FVL 805		250	148F8013		
		260	148F8043		
		300	148F8014		
SFVL 815	1 NFPT x 1-½ NFPT	150	148F8015		
		175	148F8044		
		250	148F8016		
		260	148F8045		
		300	148F8017		

Double stop valves, type: DSVL

Туре	Connections	Code no.
DSVL 843	1/2 x 1/2 x 1/2 NFPT	148F8018
DSVL 844	3⁄4 x 3⁄4 x 3⁄4 NFPT	148F8019
DSVL 845	1 x 1 x 1 NFPT	148F8020

Fittings



Description	Connections	Code no.
Accessory fitting kit for DSVL 843	½ in.	148F8032
Accessory fitting kit for DSVL 844	3⁄4 in.	148F8033
Accessory fitting kit for DSVL 845	1 in.	148F8034

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