

PRESSURE RELIEF VALVE SV 811L

4.5 up to 45.0 bar



Spring loaded, direct acting pressure relief valve for hydrogen-powered motor vehicles according to the European Regulation (EC) No. 79/2009, as implemented by Regulation (EC) No. 406/2010.

Benefits

- type-approval from Federal Motor Transport Authority according to Regulation (EC) 79/2009 and (EC) 406/2010
- individual opening pressure from 4.5 up to 45.0 bar
- TÜV-certification of pressure setting
- stainless steel 1.4404
- compact size for easy, problem free installation
- range of inlet connections
- adapter for connection to ventilation pipe

Approvals

Manufactured and certified according to Commission Regulation (EU) No. 406/2010 Annex IV, Part 3

Company certified according to ISO 9001 and PED 2014/68/EU Module H

CE-marked according to:

- PED 2014/68/EU

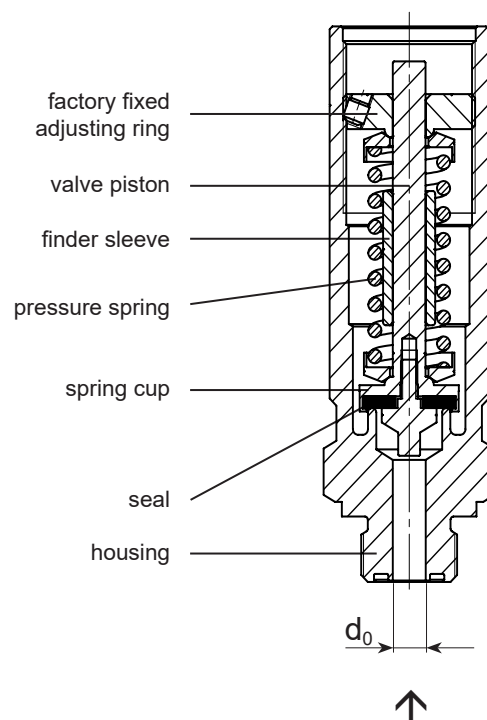
- type-approval from Federal Motor Transport Authority

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	SV811L
Type-approval	<p>< 30 bar no type-approval is required according to Regulation (EC) No. 79/2009 Appendix I b</p> <hr/> <p>> 30 bar e1 00 0006</p>
Opening pressure	4.5 up to 45.0 bar
Gases	hydrogen
Material	housing and metal turned parts made of stainless steel 1.4404, pressure spring made of stainless steel 1.4310, valve seal EPDM
Width across flats	27 mm
Weight	approx. 360 g
Drill hole (d₀)	6.0 mm
Temperature range	-40 °C/-40 °F up to max. +85 °C/+185 °F
Adapter	for connection to ventilation pipe at the outlet
Burst pressure of housing	<p>900 bar</p> <hr/> <p>heavy duty version (Model SV811) 1 600 bar</p>



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Flow capacity for hydrogen at 20 °C / 68 °F (valid only for atmospheric back pressure)

SV811L

Opening pressure [barg]	4.5	5	6	7	8	9	10	11	12	13	14
Standard volume flow [Nm ³ /h]	273	298	348	398	449	499	586	640	693	747	800
Opening pressure [barg]	15	16	17	18	19	20	21	22	23	24	25
Standard volume flow [Nm ³ /h]	854	908	961	936	985	1035	1084	1134	1183	1233	1428
Opening pressure [barg]	26	27	28	29	30	31	32	33	34	35	36
Standard volume flow [Nm ³ /h]	1483	1538	1593	1648	1704	1759	1814	1869	1924	1979	2034
Opening pressure [barg]	37	38	39	40	41	42	43	44	45		
Standard volume flow [Nm ³ /h]	2089	2144	2199	2254	2310	2365	2420	2475	2530		

Type / Variants / Versions

Overall length [mm]	Inlet male thread (M)	Outlet female thread (F)	Drill hole d ₀ [mm]
SV811L			SV811L
95.2	11/16-16 UNF-2A	M24 x 1	6.0
96.0	9/16-18 UNF-2A		
96.5	G 1/4; 1/4" NPT		
	G 3/8; 3/8" NPT		
96.8	M16 x 1.5		
	13/16-16 UNF-2A		
101.5	G 1/2; 1/2" NPT		
	G 3/4; 3/4" NPT		
	M20 x 1.5		

We recommend to check once a year whether the pressure relief valve still opens at the required response pressure (opening pressure) and is tight closed afterwards.

Service life is 3 years.