

PRESSURE RELIEF VALVE SV 811L

65 up to 653 PSI



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 65 up to 653 PSI
- 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

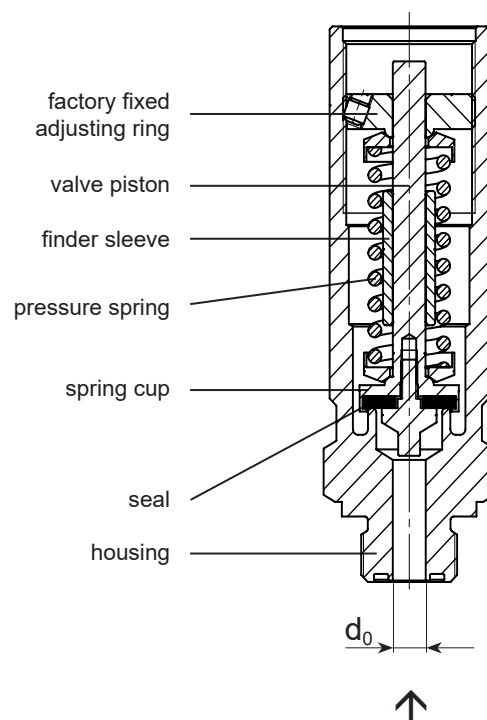
- type-approval from Federal Motor Transport Authority

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	SV811L
Type-approval	<p>< 435 PSI no type-approval is required according to Regulation (EC) No. 79/2009 Appendix I b</p> <hr/> <p>> 435 PSI e1 00 0006</p>
Opening pressure	65 up to 653 PSI
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	1.06 inches
Weight	approx. 12.7 oz
Drill hole (d₀)	0.24 inches
Temperature range	-40°F up to max. +185°F
Adapter	for connection to ventilation pipe at the outlet
Burst pressure of housing	<p>13 053 PSI</p> <hr/> <p>heavy duty version (Model SV811) 23 206 PSI</p>



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

SV811L

Opening pressure [PSIG]	65	73	87	102	116	131	145	160	174	189	203
Standard volume flow [SCFH]	9 641	10 524	12 290	14 055	15 856	17 622	20 694	22 601	24 473	26 380	28 252
Opening pressure [PSIG]	218	232	247	261	276	290	305	319	334	348	363
Standard volume flow [SCFH]	30 159	32 066	33 937	33 055	34 785	36 551	38 281	40 047	41 777	43 543	50 429
Opening pressure [PSIG]	377	392	406	421	435	450	464	479	493	508	522
Standard volume flow [SCFH]	52 372	54 314	56 256	58 199	60 176	62 118	64 061	66 003	67 945	69 888	71 830
Opening pressure [PSIG]	537	551	566	580	595	609	624	638	653		
Standard volume flow [SCFH]	73 772	75 715	77 657	79 599	81 577	83 519	85 461	87 404	89 346		

Type / Variants / Versions

Overall length [inch]	Inlet male thread (M)	Outlet female thread (F)	Drill hole d ₀ [inch]
SV811L			SV811L
3.75	11/16-16 UNF-2A	M24 x 1	0.24
3.78	9/16-18 UNF-2A		
3.80	G 1/4; 1/4" NPT		
	G 3/8; 3/8" NPT		
3.81	M16 x 1.5		
	13/16-16 UNF-2A		
4.00	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.