

Full lift safety valve

Safety accessory

The full-lift safety valve is used to safely relieve the system when the maximum operating pressure is exceeded. When the adjusted release pressure is reached, the valve plug opens abruptly and the flow is discharged through the outlet opening. The valve plug remains open as long as the remaining system pressure is greater than the back pressure of the full-lift safety valve. When the holding pressure falls below the set point, the valve plug closes and full-lift safety valve again assumes the monitoring function.



Special advantages

- 360° swivel-mounted ring element with outlet pipe
- High safety standard
- Individually adjustable trigger pressure
- Can be triggered several times

Technical data – Part 1

Temperature of medium	max.	60 °C
Exit pipe back pressure		< 1 bar

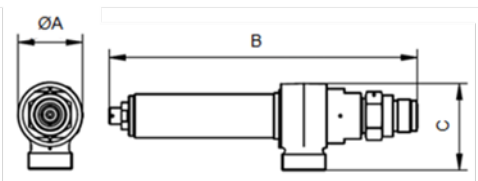
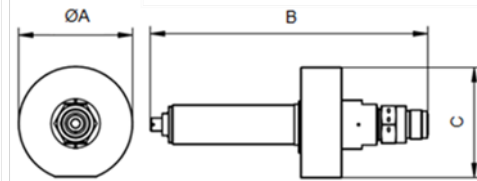
Trigger pressure

Both the flow rate and the maximum permissible operating pressure of the system are required for an exact design of the trigger pressure.

Directions for use

The full-lift safety valve is used exclusively as a safety accessory for specific devices. It is specially developed for high-pressure pumps. It may only be used for pumps and equipment which are not covered by or excluded from Directive 2014/68/EU. Use of the valve in other system situations is not permitted.

Variants on the technical data – Part 2

Form a	Form b
	

Technical data – Part 2

Type	Material no.	Pressure range [bar]		Flow rate [l/min]		Form	Weight [kg]	Valve dimensions (B x L x H) [mm]	Connection	
		min.	max.	min.	max.				Pressure side	Return flow
VSV-G1/2-S-10,7	9.913-964.0	40	150	85	225	a	2,7	Ø62x270x85	G 1/2"A	G 1"A
VSV-G1/2-S-10,7	9.871-103.0	45	150	15	60	a	2,7	Ø62x270x90	G 1/2"A	G 1"A
VSV-G1/2-S-8,5	9.871-084.0	75	250	25	225	a	2,9	Ø62x270x85	G 1/2"A	G 1"A
VSV-G1/2-S-7	9.906-935.0	75	400	25	225	a	2,7	Ø62x270x85	G 1/2"A	G 1"A
VSV-G1/2-S-5,5	9.918-022.0	250	750	15	60	a	2,7	Ø62x270x85	G 1/2"A	G 1"A
VSV-G1/2-S-5,5	9.871-085.0	250	750	35	175	a	2,7	Ø62x270x85	G 1/2"A	G 1"A
VSV-G1/2-S-5,5	9.913-034.0	250	750	16	60	a	2,7	Ø62x270x85	G 1/2"A	G 1"A
VSV-G1/2-S-4,5	9.871-109.0	750	1.000	25	130	a	2,7	Ø62x270x85	G 1/2"A	G 1"A
VSV-M24-S-5,5	9.906-936.0	250	750	15	60	a	2,7	Ø62x270x85	M24	G 1"A
VSV-M24-S-5,5	9.871-160.0	250	750	25	175	a	2,7	Ø62x265x85	M24	G 1"A
VSV-M24-S-4,5	9.871-100.0	750	1.100	25	130	a	2,7	Ø62x270x85	M24	G 1"A
VSV-M24-S-4,5	9.907-565.0	750	1.100	15	60	a	2,7	Ø62x270x85	M24	G 1"A
VSV-M24-S-3,5	9.871-098.0	1.100	1.500	15	85	a	2,7	Ø62x270x85	M24	G 1"A
VSV-M36-S-18	9.871-155.0	80	140	130	740	b	8,4	Ø140x340x105	M36	G 1 1/4"
VSV-M36-S-12	9.871-144.0	160	250	130	640	b	8,4	Ø140x340x105	M36	G 1 1/4"
VSV-M36-S-9,3	9.871-091.0	250	480	30	540	a	4,6	Ø70x340x95	M36	G 1 1/2"A
VSV-M36-S-7,5	9.906-932.0	420	750	30	420	a	4,7	Ø70x340x95	M36	G 1 1/2"A
VSV-M36-S-5,8	9.871-090.0	730	1.300	30	260	a	4,6	Ø70x340x95	M36	G 1 1/2"A
VSV-M36-S-5,2	9.871-088.0	1.000	1.500	30	185	a	4,6	Ø70x340x95	M36	G 1 1/2"A
VSV-M39-S-12	9.871-193.0	160	250	130	655	b	8,4	Ø140x330x105	M39	G 1 1/4"
VSV-M39-S-10,7	9.871-087.0	75	150	85	470	a	2,7	Ø62x270x85	M39	G 1"A
VSV-M39-S-9,3	9.871-192.0	250	480	30	540	a	4,6	Ø70x330x95	M39	G 1 1/2"A
VSV-M39-S-8,5	9.871-086.0	75	250	85	400	a	2,7	Ø62x270x85	M39	G 1"A