

Check Valves



Check Valves SVK, SVKG, SVV

Connection thread from M5 to G1/2"



Suitability for Industry-Specific Applications



Check valves SVK, SVKG, SVV

Applications

- Check valve for applications where some of the suction pads may not be in contact with the workpiece
- Deactivation of unused suction pads, the system vacuum is maintained
- Handling of workpieces with varying sizes and shapes with the same gripper system

Design

- Ball seat valve
- Ball in brass seat, installed in a space-saving manner in an aluminum body
- On the type SVV, the flow rate can be adjusted continuously with an adjusting screw
- Suitable for installation in any orientation

Our Highlights...

- Check valve in the form of a ball seat valve
- Reaction dependent on the volume flow rate
- Wide range of nominal sizes
- Available with male thread at the top (type SVK) or bottom (type SVKG)

Your Benefits...

- > Closing of vacuum lines leading to unused suction pads to maintain the system vacuum
- > Low leakage rate which can be compensated with the aid of a bypass
- > Suitable for use in applications with high nominal flow rates
- > Can be connected to all common suction pads and plates



Designation Code Check Valves SVK, SVKG, SVV

Abbreviated designation	Connection thread
Example SVK M5-IG: SVK	M5-IG
SVK male thread at the top	M5-AG (AG = male (M))
SVKG male thread at the bottom	M5-IG (IG = female (F))
SVV adjusting screw	G1/8-AG G1/8-IG G1/4-AG G1/4-IG G3/8-AG G3/8-IG G1/2-AG G1/2-IG



Ordering Data Check Valves SVK, SVKG, SVV

Check valve SVK, SVKG, SVV is delivered as a ready to connect product.



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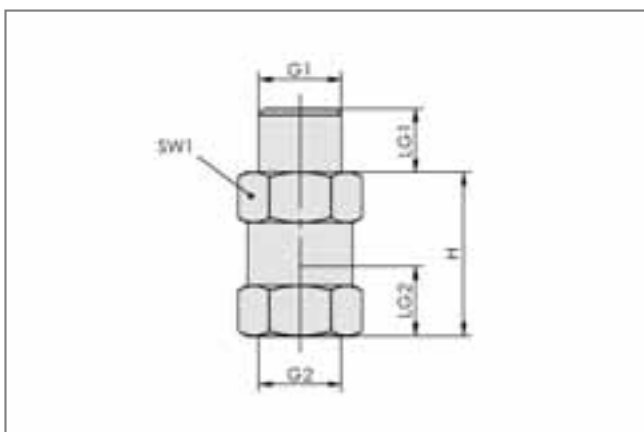
Type	Part Number
SVK M5-IG	10.05.03.00033
SVK G1/8-IG	10.05.03.00034
SVK G1/4-IG	10.05.03.00035
SVK G3/8-IG	10.05.03.00036
SVK G1/2-IG	10.05.03.00037
SVKG M5-AG	10.05.03.00166
SVKG G1/8-AG	10.05.03.00128
SVKG G1/4-AG	10.05.03.00131
SVKG G3/8-AG	10.05.03.00135
SVKG G1/2-AG	10.05.03.00133
SVV G1/4-IG	10.05.03.00003

Technical Data Check Valves SVK, SVKG, SVV

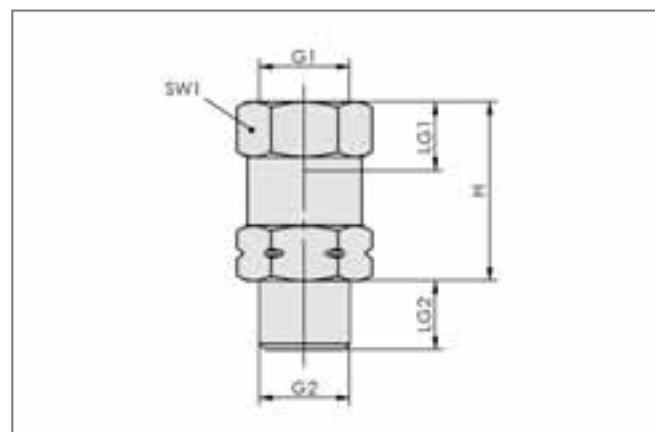
Type	Required evacuation rate for pu = -0,3 bar [m³/h]	Required evacuation rate for pu = -0,3 bar [l/min]	Required evacuation rate for pu = -0,6 bar [m³/h]	Required evacuation rate for pu = -0,6 bar [l/min]	Max. flow rate [m³/h] when blowing off*	Max. flow rate [l/min] when blowing off*	Weight [g]
SVK M5-IG	0.07	1.2	0.08	1.3	4.8	80	2.2
SVK G1/8-IG	0.14	2.3	0.15	2.5	18.6	310	11.2
SVK G1/4-IG	0.17	2.9	0.20	3.4	20.4	340	17.5
SVK G3/8-IG	0.44	7.3	0.48	8.0	35.4	590	30.3
SVK G1/2-IG	0.49	8.1	0.54	9.0	47.4	790	47.4
SVKG M5-AG	0.07	1.2	0.08	1.3	4.8	80	2.2
SVKG G1/8-AG	0.14	2.3	0.15	2.5	18.6	310	11.2
SVKG G1/4-AG	0.17	2.9	0.20	3.4	20.4	340	17.5
SVKG G3/8-AG	0.44	7.3	0.48	8.0	35.4	590	30.3
SVKG G1/2-AG	0.49	8.1	0.54	9.0	47.4	790	47.4
SVV G1/4-IG	1.36	22.6	1.72	28.6	24.0	400	24.7

*Blow-off pressure 5bar

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SVK M5 to G1/2



SVKG M5 to G1/2

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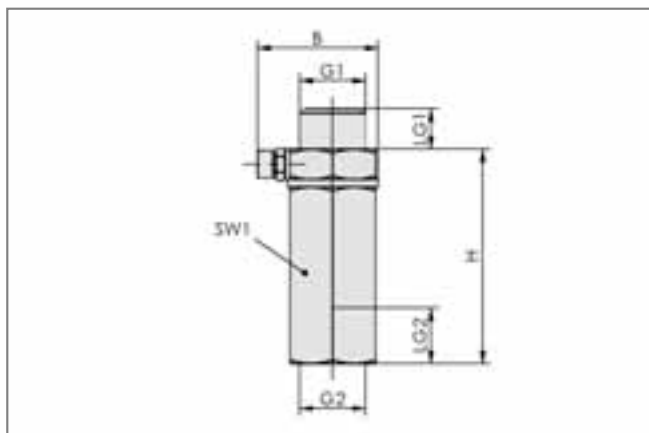


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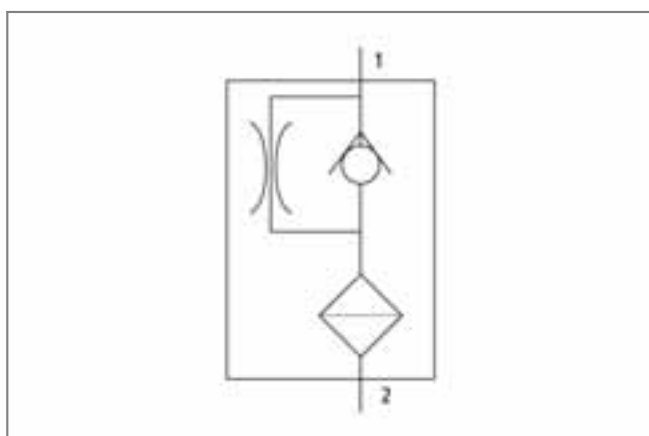


SVV G1/4

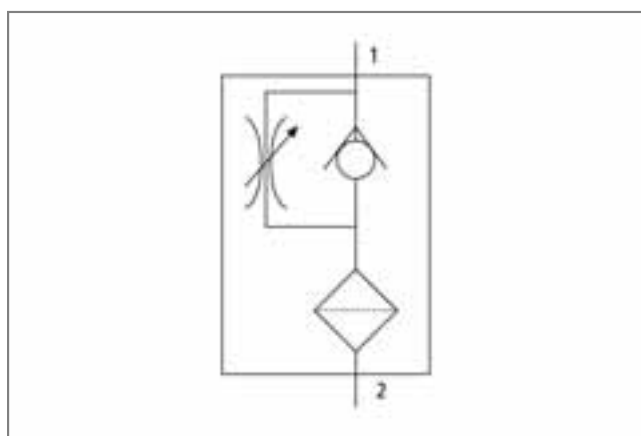
Type	Dimensions in mm						
	B	G1	G2	H	LG1	LG2	SW1
SVK M5-IG	-	M5-M	M5-F	15.5	4.5	4.5	8
SVK G1/8-IG	-	G1/8"-M	G1/8"-F	26.0	8.0	8.5	14
SVK G1/4-IG	-	G1/4"-M	G1/4"-F	26.0	10.0	11.0	17
SVK G3/8-IG	-	G3/8"-M	G3/8"-F	29.0	10.0	12.0	22
SVK G1/2-IG	-	G1/2"-M	G1/2"-F	29.0	12.0	14.0	27
SVKG M5-AG	-	M5-F	M5-M	20.0	4.5	4.5	8
SVKG G1/8-AG	-	G1/8"-F	G1/8"-M	26.0	8.5	8.0	14
SVKG G1/4-AG	-	G1/4"-F	G1/4"-M	26.0	11.0	10.0	17
SVKG G3/8-AG	-	G3/8"-F	G3/8"-M	29.0	12.0	10.0	22
SVKG G1/2-AG	-	G1/2"-F	G1/2"-M	29.0	14.0	12.0	27
SVV G1/4-IG	23.9	G1/4"-M	G1/4"-F	42.5	8.0	11.0	17



Functional Circuit Diagram Check Valves SVK, SVKG, SVV



Circuit diagram SVK/SVKG (1 = vacuum generator; 2 = suction pad)



Circuit diagram SVV (1 = vacuum generator; 2 = suction pad)

