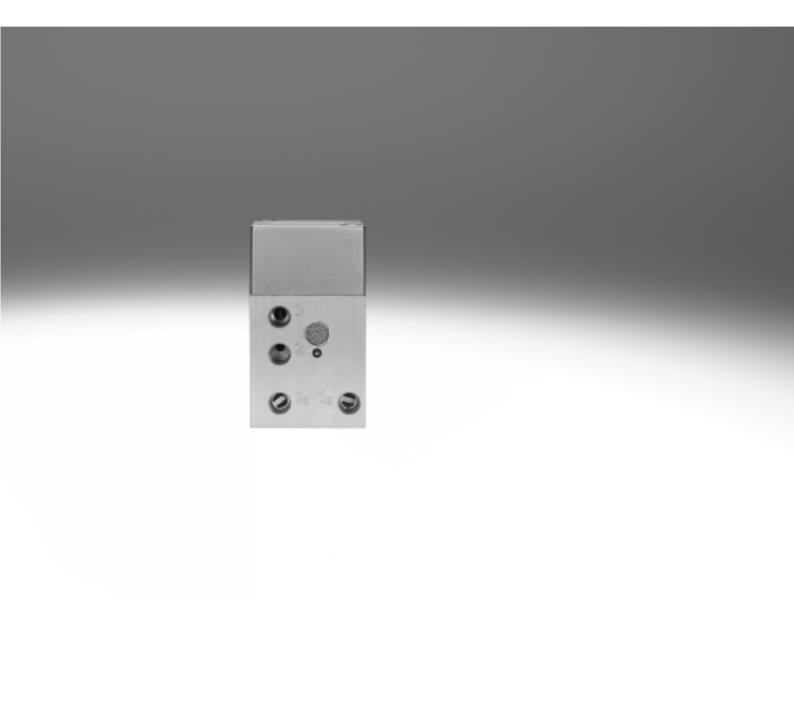
FESTO



Key features



Function

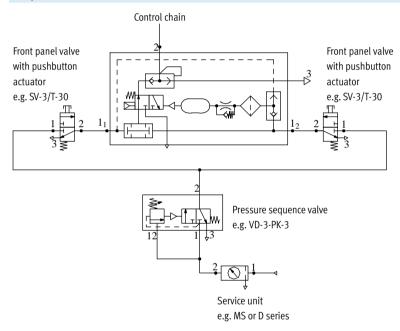
This pneumatic control block for twohand start ZSB is used where a manually started operation, such as the triggering of compressed air cylinders, would otherwise involve danger for a machine operator, or with other devices where machine operators have to have both hands clear of a danger zone when starting a machine. The ZSB will only switch if pressure is applied simultaneously via 3/2-way pushbutton valves to the two inlet ports $\mathbf{1}_1$ and $\mathbf{1}_2$ of the ZSB, i.e. within max. 0.5 seconds, and if there is an output signal at port 2. If both pushbutton valves are activated, outlet port 2 is pressurised.

Releasing one or both pushbutton valves interrupts the flow immediately and the outlet port 2 becomes unpressurised. The system vents from 2 to 3.

The pneumatic control block for twohand start is a safety component in accordance with the EU Machinery Directive.

It falls within Category 1, PL "c" according to EN ISO 13849-1 and conforms to Type III A according to EN 574.

Sample circuit

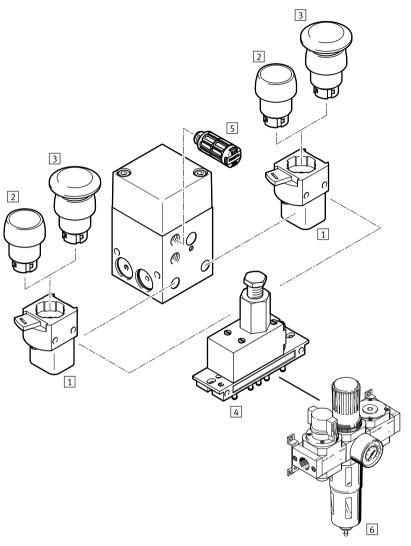




When installing the two pushbutton valves which actuate the control block for two-hand start, make sure that the protective function cannot easily be bypassed, for example by pressing the pushbutton valves with the hand and elbow of the same arm. If necessary, the pushbuttons valves should be fitted with an additional guard plate.



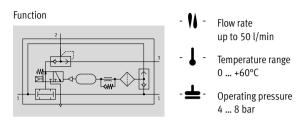
Peripherals overview



Acces	ssories		
		Brief description	→ Page/Internet
1	Front panel valve	Poppet valve with quick latching coupler for actuator attachments	6
	SV		
2	Pushbutton actuator	Actuator attachment for front panel valve SV	6
	T		
3	Mushroom pushbutton	Actuator attachment for front panel valve SV	6
	P		
4	Pressure sequence valve	For ensuring the minimum pressure of 4 bar required for operation	6
	VD		
5	Silencer	For noise reduction at the exhaust port	6
	U		
6	Service unit combination	For compressed air preparation	
	– D series		lfr*k*
	- MS series		msb



Technical data





Safety data				
Lift	Two-hand operation in accordance with EN ISO 12100			
Performance Level (PL)	Two-hand operation: Category 1, PL c according to EN ISO 13849-1			
Reliable component	Yes			
Standard approval	Type III A according to EN 574			
Certificate issuing authority	IFA 1201046			
CE marking	To EU Machinery Directive			
(see declaration of conformity)				
Shock resistance	Shock test with severity level 2 according to FN 942017-5 and EN 60068-2-27			

General technical data					
Pneumatic connection		G1/8			
Nominal size	[mm]	4			
Actuation type		Pneumatic			
Design		Poppet valve with spring return			
Type of mounting		Via through-hole			
		Via female thread			
Mounting position		Any			
Standard nominal flow rate	[l/min]	50			
Product weight	[g]	420			

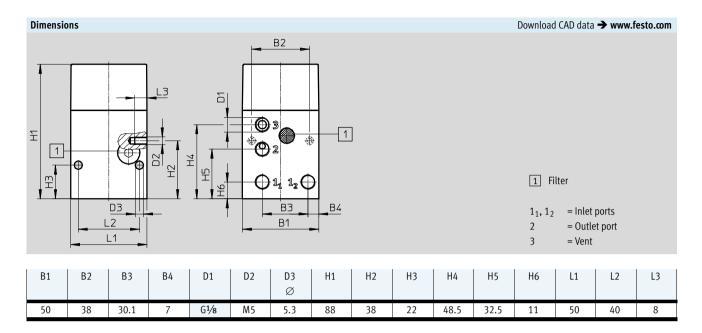
Operating and environmental conditions					
Operating pressure [bar]	48				
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)				
Ambient temperature [°C]	0 +60				
Corrosion resistance class CRC ¹⁾	1				
CE mark (see declaration of conformity)	To EU Machinery Directive				

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

laterials		
Housing	Anodised wrought aluminium alloy	
End cap	Die-cast aluminium	
Seals	NBR	
Note on materials	RoHS-compliant	

FESTO

Technical data



Ordering data		
	Part No.	Туре
Control block for two-hand start	576656	ZSB-1/8-B



Accessories

Ordering data - F	Ordering data – Front panel valve SV				
	Pneumatic connection	Valve function	Operating pressure [bar]	Part No.	Туре
	M5	3/2-way valve, single solenoid, closed	-0.95 8	6817	SV-3-M5

Ordering data – P	ushbutton actuator T	Technical data → Internet: t		
	Colour	Installation diameter [mm]	Part No.	Туре
	Black	22.5	9289	T-22-SW
		30.5	9291	T-30-SW

Ordering data – N	lushroom pushbutton P	Technical data → Internet: p		
	Colour	Installation diameter [mm]	Part No.	Туре
	Black	22.5	9293	P-22-SW
		30.5	9295	P-30-SW

Ordering data -	Technical data → Internet: vd				
	Pneumatic connection	Valve function	Operating pressure [bar]	Part No.	Type
	PK-3	3/2-way valve, normally closed, adjustable switching pressure	1.8 8	9270	VD-3-PK-3

Ordering data – Silencer U				Technical data 🗲 Internet: u		
	Pneumatic connection	Material	Part No.	Type		
	G1/8	Polyacetal	2307	U-1/8		
		Die-cast aluminium	6841	U-1/8-B		