

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 1_1 and 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 (only in conjunction with a pressure sequence valve such as VD-3-PK-3) and conforms to Type III A according to EN 574.

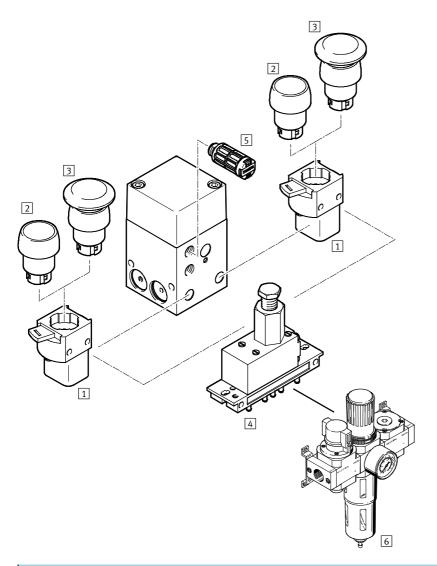
- Note

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.

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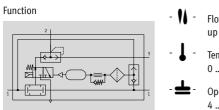
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Peripherals overview



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

Technical data



Flow rate up to 50 l/min

Temperature range 0 ... +60°C

> Operating pressure 4 ... 8 bar



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					
Safety Integrity Level (SIL)	Two-hand operation: SIL 1 according to IEC 61508 (can be used in SIL 1 controllers according to IEC 62061)				
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 wit		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]	4 8				
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				

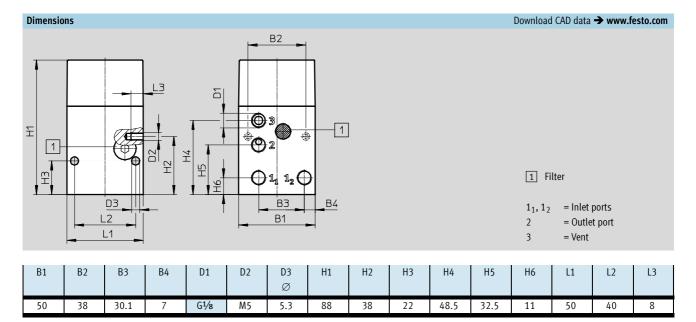
1) CRC1: Corrosion resistance class to Festo standard 940 070 Components with light corrosion exposure. Protection for transport and storage. Components without significant decorative function or surface, e.g. installed out of sight internally or behind covers.

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

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Technical data



Ordering data

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

Accessories

Ordering data – F	Tec	hnical data → Internet: sv			
	Pneumatic connection	Valve function	Operating pressure [bar]	Part No.	Туре
e -	M5	3/2-way valve, single solenoid, closed	-0.95 8	6817	SV-3-M5

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

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

Ordering data – P	Ordering data – Pressure sequence valve VD Technical data → Internet						
	Pneumatic connection	Valve function	Operating pressure [bar]	Part No.	Туре		
•••	PK-3	3/2-way valve, normally closed, adjustable switching pressure	1.8 8	9270	VD-3-PK-3		

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

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