Manually and mechanically actuated valves

- Front panel valves and valve actuators
- Valves with barbed fittings
- Valves with threaded connection
- Hand lever valves

Panel-mounting valves and actuating attachments

Key features



Mushroom pushbutton with detent PR

The actuator is unlocked by turning the detent ring at the mushroom button.

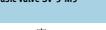
Mushroom pushbutton with detent PRS Lockable

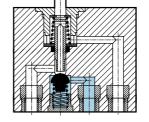
After pressing, the button remains locked and can only be unlatched with the key. The key can be removed in either switch position.

Key actuator Q With key

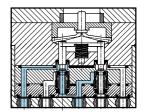
The key actuator can only be activated with the key. The key can be removed in either switch position.

Basic valve SV-3-M5





Basic valve SV-5-M5-B



Panel-mounting valves and actuating attachments Technical data



- J - Temperature range -10 ... +60°C

General techr	ical data – Basic valvo	es			
Function			3/2-way valve		5/2-way valve
Operating medium			Filtered compressed air, lubricated or unlubricated Vacuum ¹⁾		
Constructiona	l design		Poppet valve, directly actuated in one	direction, with spri	ng return
Type of mount	ing		Front panel mounting, mounting diame	eters 22.5 and 30.	5 mm, also 2 through-holes
Pneumatic con	nnection		M5		
Nominal size [mm]		2		2.3	
Standard nom	inal flow rate 1> 2	[l/min]	65		95
Operating pre	ssure range	[bar]	-0.95 +8		0 +8
Actuating forc	e at 6 bar	[N]	12		17
Temperature r	ange	[°C]	-10 +60		
Materials Housing		Plastic			
	Valve stem		Brass		
	Seals		Nitrile rubber		
Weight		[g]	40		53

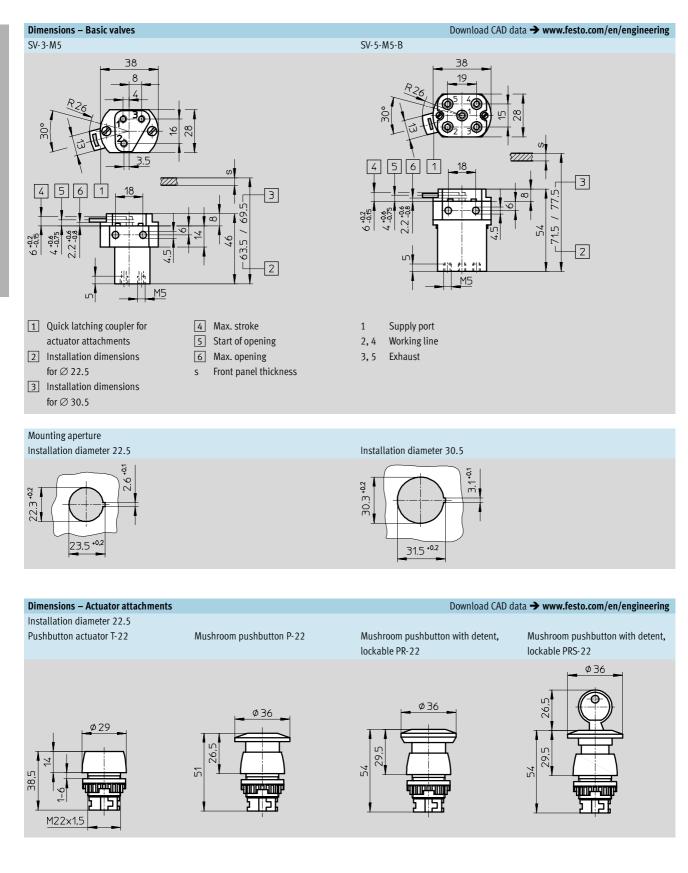
1) SV-3-M5: Vacuum connection at port 1

General technical data – Actuator attachments									
			Pushbutton actuator	Mushroom pushbutton	Mushroom pu detent	Mushroom pushbutton with detent		Toggle switch	Key actuator with key
					Red	Red Lockable			
Actuating force 6 bar	/ actuating torque at	[Nm]	14	14	25	23	0.4	0.14	23
Weights	Installation diameter 22.5	[g]	14	20	26	82	21	19	80
	Installation diameter 30.5	[g]	22	28	37	91	30	27	88

Panel-mounting valves and actuating attachments

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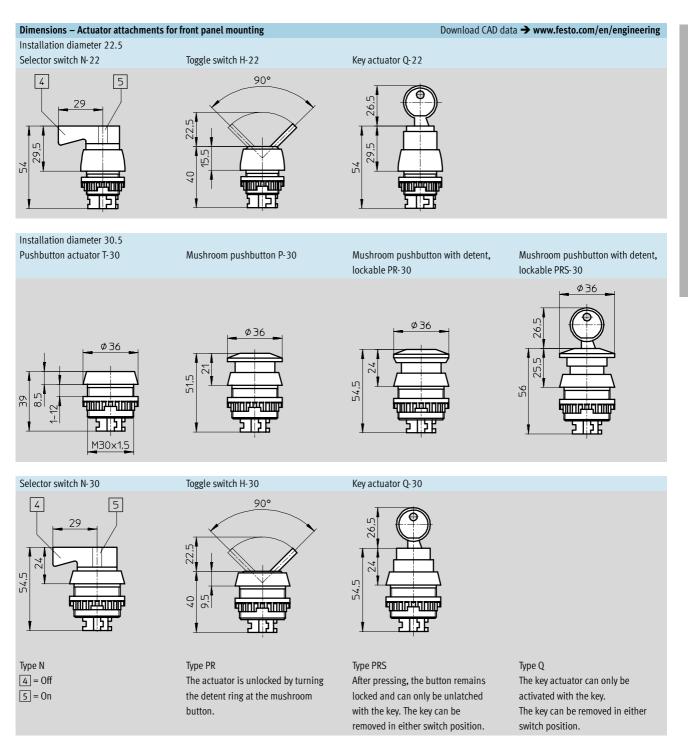
Technical data



Panel-mounting valves and actuating attachments

FESTO

Technical data



4.1

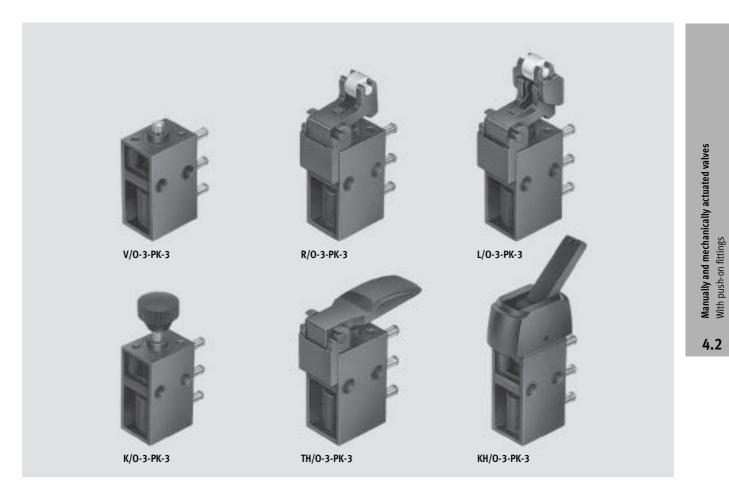
Panel-mounting valves and actuating attachments Technical data

Ordering data – Basic valve	25		
Circuit symbol	Description	Part No.	Туре
	3/2-way valve	6817	SV-3-M5
5√,√3	5/2-way valve	11 914	SV-5-M5-B

Ordering data – Actu	ator attachments		
Circuit symbol	Description	Installation diameter 22.5	Installation diameter 30.5
		Part No. Type	Part No. Type
Pushbutton actuator			Pushbutton actuator
Ħ	Black	9 289 T-22-SW	9 291 T-30-SW
4	Yellow	9 290 T-22-GE	9 292 T-30-GE
	Red	9 997 T-22-RT	10 014 T-30-RT
Mushroom pushbutto			
H	Black	9 293 P-22-SW	9 295 P-30-SW
Mushroom pushbutto			
	Red	9 297 PR-22-RT	9 298 PR-30-RT
9 L	Red, lockable	9 299 PRS-22-RT	9 300 PRS-30-RT
Selector switch			
<u>bvv</u>	Black	9 301 N-22-SW	9 302 N-30-SW
' L			
T 1 1 1			
Toggle switch			
<u>hv</u>	Black	9 305 H-22-SW	9 306 H-30-SW
, _			
Kay a studtor with here			
Key actuator with key			
<u>hv</u> f	-	9 303 Q-22	9 304 Q-30
· L			

Valves with push-on fittings Key features

FESTO

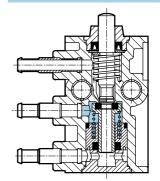


Push-on fitting connection

- Directly actuated valves
- Polymer design
- Ducted exhaust air

The push-on fitting is suitable for plastic tubing with a standard internal diameter → Volume 3

V/0-3-PK-3



Valves with push-on fittings

Technical data

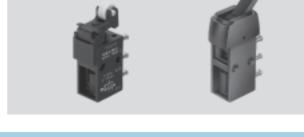
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- 11

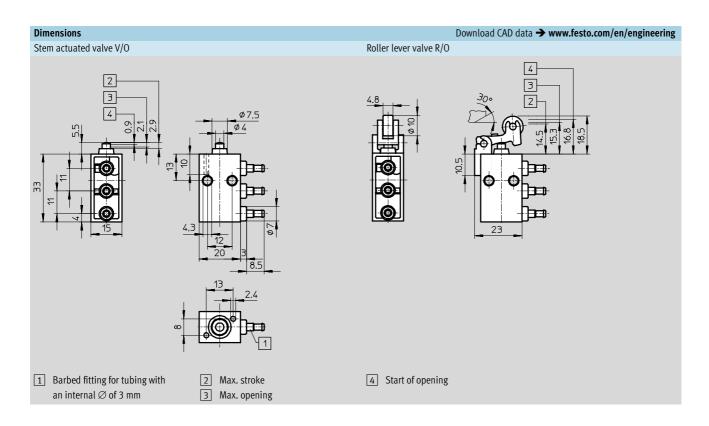
-

-10 ... +60°C

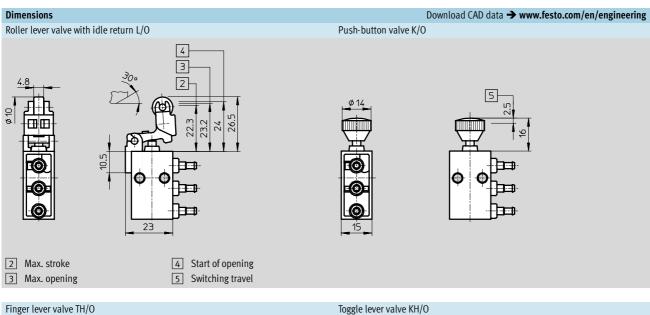


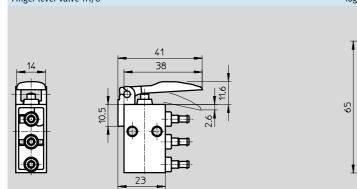


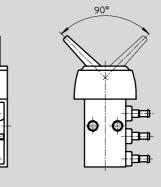
General technica	al data							
Actuation type			Stem actuated valve	Roller lever valve	Roller lever valve with idle return	Push-button valve	Finger lever valve	Toggle lever valve
Constructional de	esign		Poppet valve, dir	ectly actuated				
Type of mounting	5		Through-holes in	housing				
Pneumatic conne	ection		Barbed fitting for	3 mm plastic tub	bing			
Nominal size [mm]			2.5					
Standard nomina	al flow rate 1> 2	[l/min]	80					
Operating pressu	ire range	[bar]	08					
Actuating force a	t 6 bar		•					
Normally closed		[N]	17	10	10	17	6	6.5
Normally open		[N]	24	15	13	24	8	7.5
Temperature rang	ge	[°C]	-10 +60					
Materials	Housing		Plastic					
	Seals		Nitrile rubber					
Weight		[g]	20	18	19	20	18	20



Valves with push-on fittings Technical data





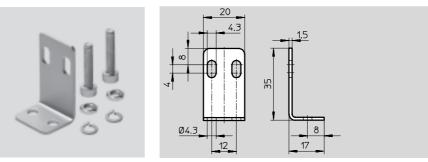


Ordering data			
Circuit symbol	Actuation type	Part No.	Туре
	Stem actuated valve	10 747	V/O-3-PK-3
	Roller lever valve	10 748	R/O-3-PK-3
	Roller lever valve with idle return	10 749	L/O-3-PK-3
$= \begin{bmatrix} 2 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \\ $	Push-button valve	13 793	К/О-3-РК-3
	Finger lever valve	13 794	ТН/О-3-РК-3
	Toggle lever valve	33 003	КН/О-3-РК-3

Valves with push-on fittings

Mounting bracket HV-M5

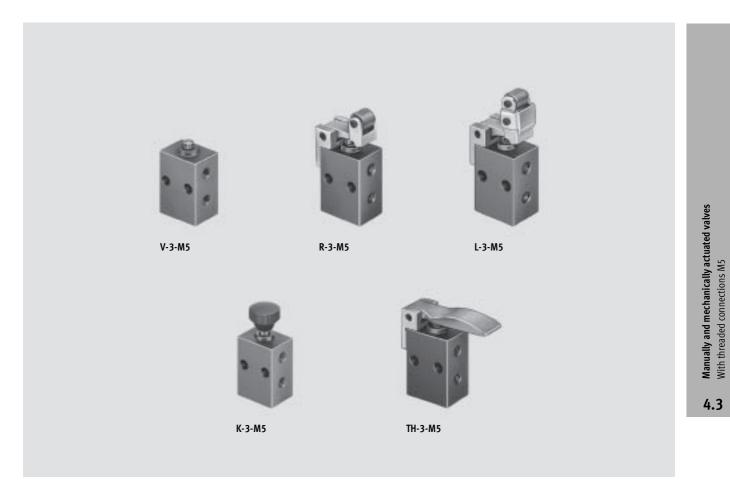
Material: Galvanised steel



Ordering data		
	Weight [g]	Part No. Type
Mounting bracket	11	9 634 HV-M5

FESTO

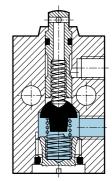
Key features



- 11 -Flow rate 80 l/min

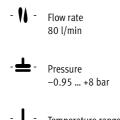
- 3/2-way valve
- normally closed ■ Connection M5
- Compact design

V-3-M5

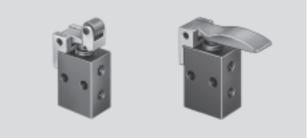


4.3

Technical data



Temperature range -10 ... +60°C



Push-button valve

23

28

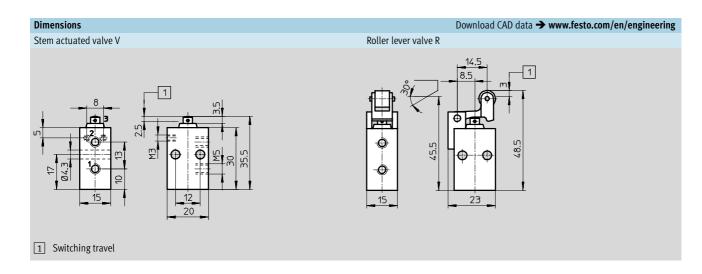
5	General technic	al data					
Manually and mechanically actuated valves With threaded connections M5	Actuation type			Stem actuated	Roller lever valve	Roller le	
ed				valve		with idle	
uat	Operating mediu	ım		Filtered compresse	d air, lubricated or unlı	ubricated	
y act M5				Vacuum ¹⁾			
cally ons	Constructional d	esign		Poppet valve, direc	tly actuated		
ecti	Type of mounting	S		2 through-holes in	housing		
onn	Pneumatic conn	ection		M5			
ed c	Nominal size		[mm]	2			
y ar ead	Standard nomin	al flow rate 1	[l/min]	80			
thr	Operating press	ure range	[bar]	-0.95 8			
Manually and mechanically ac With threaded connections M5	Actuating force a	at 6 bar	[N]	23	12.5	12.5	
	Temperature ran	ge	[°C]	-10 +60			
4.3	Materials	Housing		Die-cast zinc			
		Seals		Nitrile rubber			

[g]

25

1) Vacuum connection at port 1

Weight



40

Roller lever valve

with idle return

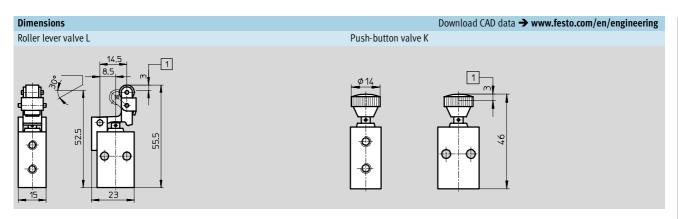
43

Finger lever valve

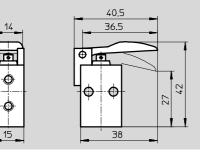
8

37

Technical data



Finger lever valve TH



1 Switching trave	l
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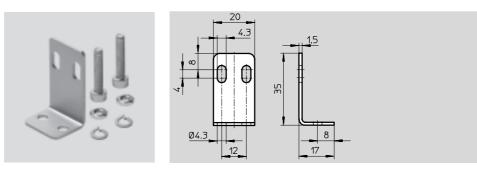
Ordering data – Basic valves			
Circuit symbol	Actuation type	Part No.	Туре
	Stem actuated valve	3 626	V-3-M5
	Roller lever valve	3 629	R-3-M5
	Roller lever valve with idle return	3 628	L-3-M5
	Push-button valve	3 660	K-3-M5
	Finger lever valve	6 758	TH-3-M5

Ordering data – Actuator attachments						
Circuit symbol	Actuation type	Part No.	Туре			
	Roller lever with mounting screws	6 512	AR-05			
	Idle return roller lever with mounting screws	6 513	AL-05			

Accessories

Mounting bracket HV-M5

Material: Galvanised steel

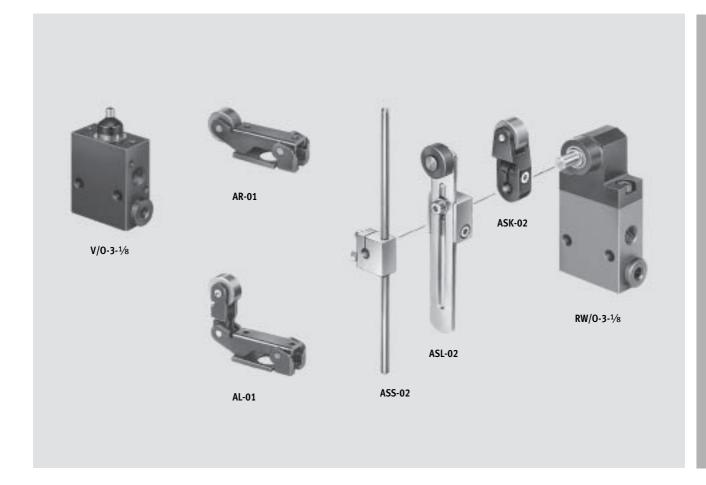


Weight [g] Part No. Type Mounting bracket 11 9 634 HV-M5	Ordering data			
		•	Part No.	Туре
	Mounting bracket		9 634	HV-M5

Valves with threaded connections $G^{1\!/\!8}$, directly actuated



Key features



- N - Flow rate 140 l/min

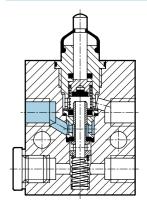
■ 3/2-way valve

- Normally closed Normally open depending upon selected connections
- Connection G1⁄8
- Actuator attachments as desired

The swivel lever valve is mechanically actuated with an eccentric rod. Various actuating ranges can be

selected by repositioning 2 components in the control actuator.

Normally closed



Valves with threaded connections G¹/8, directly actuated Technical data



General technical data – Basic valv	es			
Actuation type		Stem actuated valve	Swivel lever valve	
Operating medium		Filtered compressed air, lubricated or u	inlubricated	
		Vacuum ¹⁾		
Constructional design		Poppet valve, directly actuated		
Type of mounting		2 through-holes in housing		
Pneumatic connection		G1⁄8		
Nominal size	[mm]	3.5		
Standard nominal flow rate 1 2	[l/min]	140		
Operating pressure range	[bar]	-0.95 +8		
Actuating force at 6 bar	[N]	28		
Temperature range	[°C]	-10 +60		
Materials Housing		Blue anodised aluminium		
Seals		Nitrile rubber		
Weight	[g]	90	150	

1) Vacuum connection at port 1 or 11

General technical data – Actuator attachments

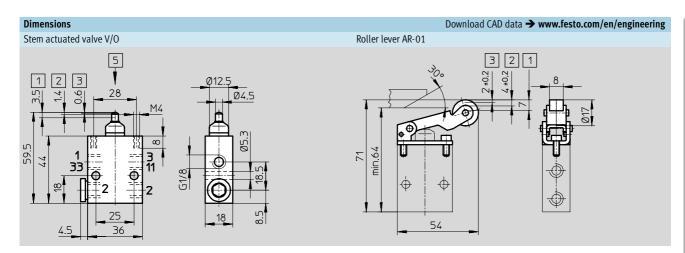
		Roller lever	Idle return roller lever	Swivel lever, short	Swivel lever, long	Swivel lever rod		
Actuating force [N]	min.	-	-	-	-	-		
	max.	10	12	7	1)	1)		
Material		Galvanised steel	Aluminium, steel Aluminium, steel					
Weight	[g]	42	52	30	35	30		

1) Dependent upon starting height

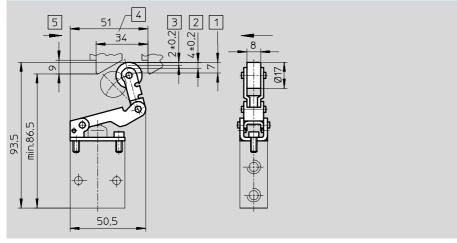
Valves with threaded connections $G^{1\!/\!8}$, directly actuated

FESTO

Technical data



Idle return roller lever AL-01



Manually and mechanically actuated valves
With threaded connections G1/8

1 Max. stroke

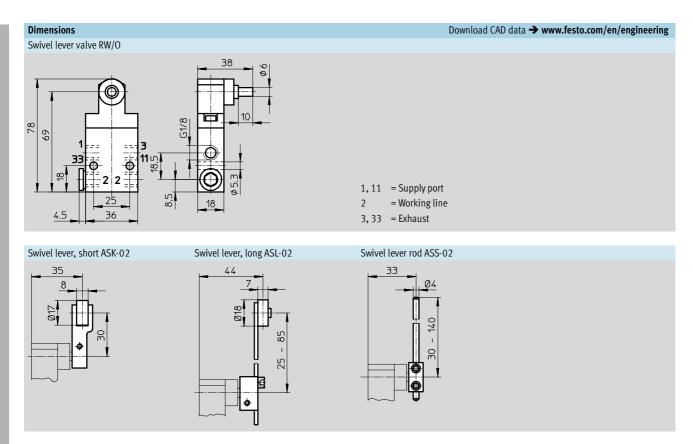
2 Max. opening

3 Start of opening4 Min. actuation stroke

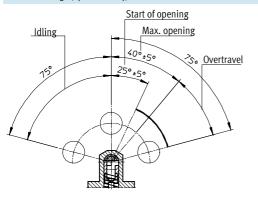
5 Actuation direction

Valves with threaded connections G¹/8, directly actuated

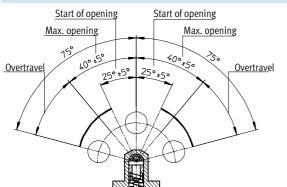
Technical data

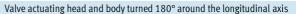


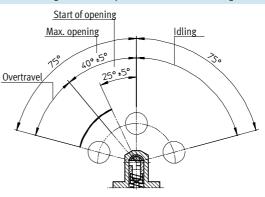
Actuating ranges are set by converting the switching head Default settings (upon delivery)



Valve actuating head and body turned 90° around the longitudinal axis







Valves with threaded connections G¹/₈, directly actuated Technical data



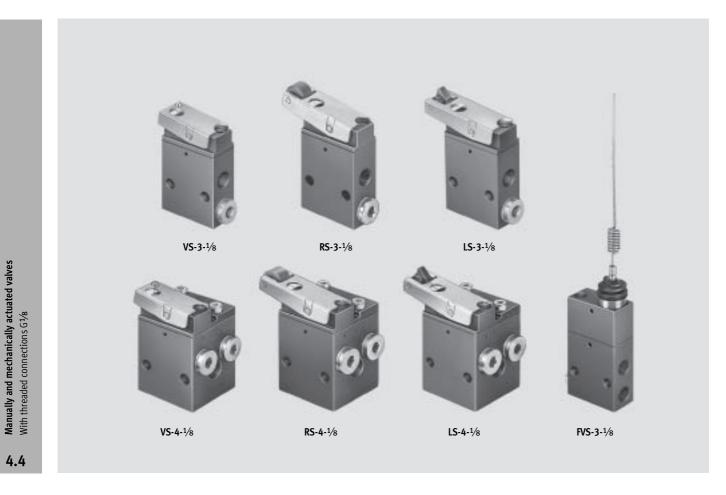
Ordering data			
Circuit symbol	Actuation type	Part No.	Туре
Stem actuated valve			
$ \begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	Basic valve	4 938	V/0-3-1⁄8
Actuator attachments			
0=	Roller lever	4 936	AR-01
J.	Idle return roller lever	4 941	AL-01
Swivel lever valve			
$> \mathbf{E} \begin{bmatrix} \mathbf{z}_1 \\ \mathbf{x}_1 \\ \mathbf{y}_3 \end{bmatrix} > \mathbf{E} \begin{bmatrix} \mathbf{z}_1 \\ \mathbf{x}_1 \\ \mathbf{y}_3 \end{bmatrix} $	Basic valve	4 937	RW/0-3-1⁄8
Actuator attachments			
्रेबर्	Swivel lever, short	5 835	ASK-02
्राज्	Swivel lever, long	5 836	ASL-02
]عز	Swivel lever rod	4 789	ASS-02

4.4

Valves with threaded connections G¹/8, indirectly actuated



Key features

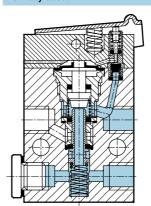


4.4

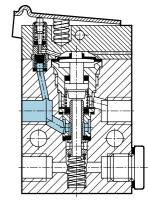
- 11 -Flow rate 120 l/min

- 3/2-way valves normally closed normally open,
- changed by repositioning the housing top ■ 4/2-way valves
- Minimal actuating force with pilot
- control ■ Can also be used as 2/2-way valve by plugging the exhaust

Normally closed



Normally open



Valves with threaded connections G¹/8, indirectly actuated

Technical data - 3/2-way valves





Temperature range -10 ... +60°C

> Wearing parts kits → 2 / 4.4-9

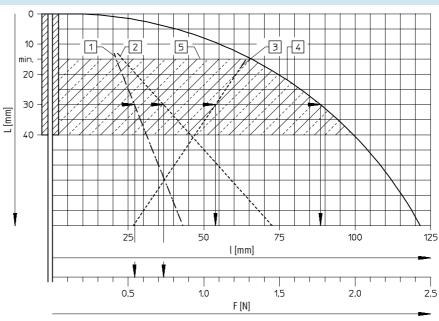


Technical data						
Actuation type			Stem actuated valve	Roller lever valve	Toggle lever valve	Whisker valve
Constructional design			Poppet valve, indirectly	actuated		
Type of mounting			2 through-holes in hou	sing		
Pneumatic connection			G1⁄8			
Nominal size		[mm]	3.5			
Standard nominal flow rate 1		[l/min]	120			
Operating pressure range		[bar]	3.5 8			
Actuating force at 6 bar		[N]	3.1	1.8	1.8	➔ Diagram
Repetition accuracy (+/-)		[mm]	±0.1			•
Temperature range		[°C]	-10 +60			
Materials	Housing		Blue anodised alumini	um		
	Seals		Nitrile rubber			
Weight		[g]	110	120	110	130

Switching forces F and switching travel l at 6 bar in relation to approach distance L Whisker valve

This piloted valve with extremely low actuating forces is particularly suited for units where dissimilar parts or actuating elements without precision positioning are to be sensed, or where the actuating levels are different. The whisker can be approached from any direction perpendicular to the whisker axis, or can be passed.

- 1 Switching force
- 2 Passing force
- 3 Switching travel
- 4 Overtravel
- 5 Permissible approach range



Example: A distance of 30 mm from the end of the spring results in:

Switching travel of 54 mm A switching force of 0.57 N

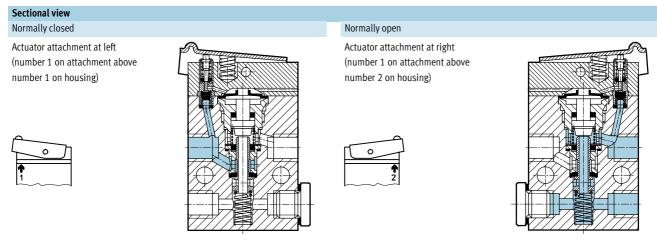
Overtravel of 88 mm A passing force of 0.75 N Manually and mechanically actuated valves With threaded connections G1/8

4.4

Valves with threaded connections G1/8, indirectly actuated

Technical data – 3/2-way valves

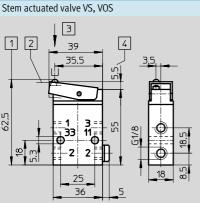
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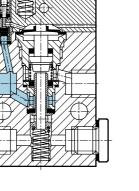


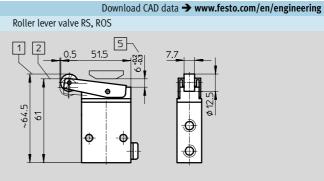
Manually and mechanically actuated valves With threaded connections G1/8

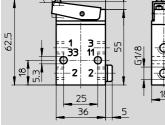
4.4

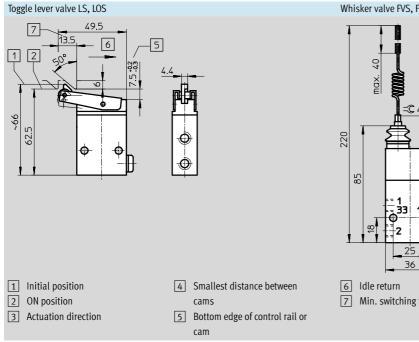
Dimensions



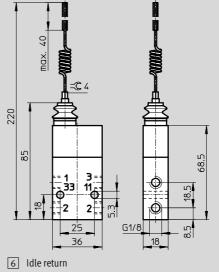








Whisker valve FVS, FVSO



7 Min. switching travel

Valves with threaded connections G¹/8, indirectly actuated Technical data – 3/2-way valves

Ordering data			
Circuit symbol	Actuation type	Part No.	Туре
3/2-way valves, normally closed			
	Stem actuated valve	2 334	VS-3-1⁄8
	Roller lever valve	2 272	RS-3-1⁄8
	Toggle lever valve	2 186	LS-3-1/8
	Whisker valve	3 876	FVS-3-1⁄8
3/2-way valves, normally open			
	Stem actuated valve	2 952	VOS-3-1/8
	Roller lever valve	2 270	ROS-3-1/8
	Toggle lever valve	2 950	LOS-3-1/8
	Whisker valve	3 877	FVSO-3-1/8

Ordering data – Wearing parts kits		
	Part No.	Туре
For 3/2-way valves	104 222	VS-3-1/8

4.4

Valves with threaded connections G1/8, indirectly actuated Technical data – 4/2-way valves

-





Temperature range -10 ... +60°C

Wearing parts kits → 2 / 4.4-11



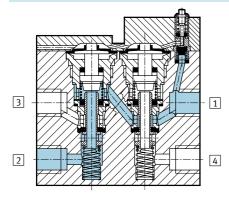
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Technical dat

Technical data					
Actuation type			Stem actuated valve	Roller lever valve	Toggle lever valve
Constructional design			Poppet valve, indirectly ac	tuated	
Type of mounting			2 through-holes in housing	g	
Pneumatic connection			G1⁄8		
Nominal size		[mm]	3.5		
Standard nominal flow rate 1 2		[l/min]	120		
Operating pressure range		[bar]	3.5 8		
Actuating force at 6 bar		[N]	3.1	1.8	2.2
Repetition accuracy (+/-)		[mm]	±0.1		
Temperature range		[°C]	-10 +60		
Materials	Housing		Blue anodised aluminium		
	Seals		Nitrile rubber		
Weight		[g]	220	230	230

Sectional view

Stem actuated valve VS-4-1/8

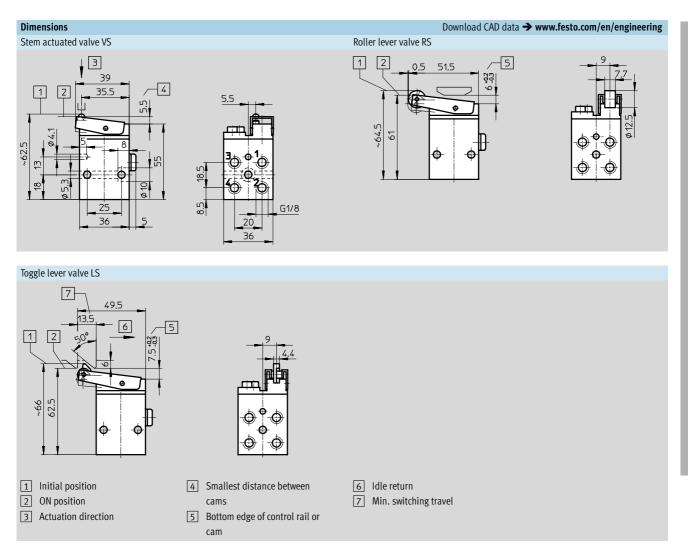


1	Supply port
2,4	Working line
3	Exhaust

Products 2004/2005 - Subject to change - 2004/10

Valves with threaded connections G¹/8, indirectly actuated

Technical data – 4/2-way valves



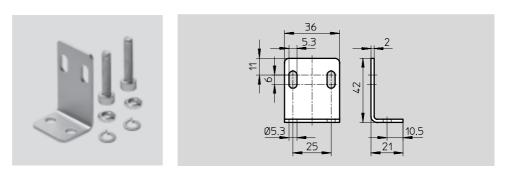
Ordering data			
Circuit symbol	Actuation type	Part No.	Туре
	Stem actuated valve	3 394	VS-4-1⁄8
	Roller lever valve	2 949	RS-4-1/8
	Toggle lever valve	3 416	LS-4-1/8

Ordering data – Wearing parts kits		
	Part No.	Туре
For 4/2-way valves	104 201	VS-4-1/8

Valves with threaded connections G¹/8, indirectly actuated Accessories

Mounting bracket HV-1/8

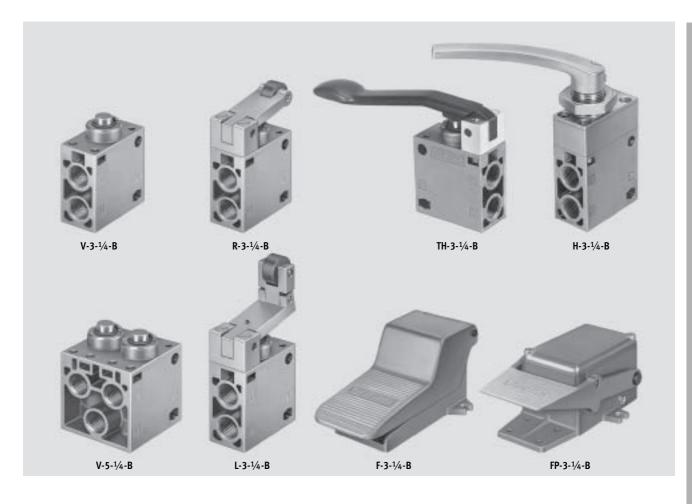
Material: Galvanised steel



Ordering data			
	Weight	Part No.	Туре
	[g]		
Mounting bracket	32	9 635	HV-1/8

FESTO

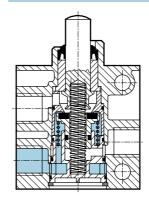
Key features



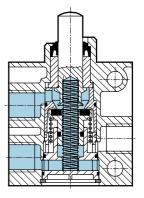


- 3/2-way valves normally closed normally open
- 5/2-way valves
- 7 actuator types

V-3-1/4-B, normally closed



VO-3-1/4-B, normally open



Technical data –3/2-way valves



-

-



-10 ... +60°C Wearing parts kits

→ 2 / 4.5-6

Temperature range



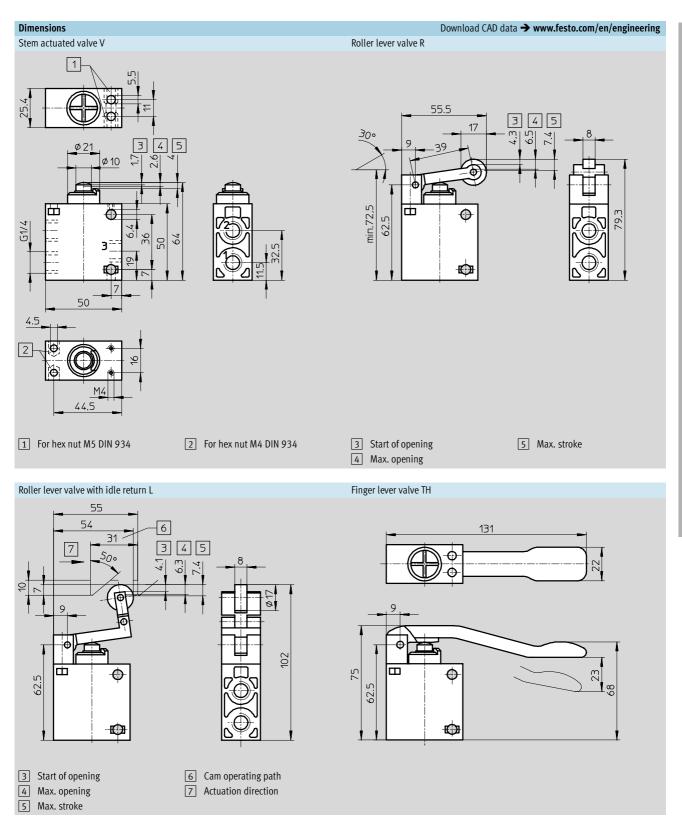
General technical data

			1						
Actuation ty	De		Stem actuated valve	Roller lever valve	Roller lever valve with idle return	Finger lever valve	Hand lever valve	Foot valve	Foot valve with mechanical detent
Operating medium		Filtered comp Vacuum ¹⁾	Filtered compressed air, lubricated or unlubricated Vacuum ¹⁾						
Construction	al design		Poppet valve,	directly actuat	ed				
Type of mounting				les in housing ²⁾					
Connection			G ¹ /4						
Nominal size [mm]			7						
Standard nominal flow rate 1> 2 [l/min]			600						
Operating p	ressure range	[bar]	-0.95 +10						
Actuating fo	rce at 6 bar	[N]							
	Normally closed		37	10	15	6.7	5.5	26	45
	Normally open		93	26	38	17	-	37	-
Temperature	range	[°C]	-10+60						
Materials	Housing		Die-cast aluminium						
			Foot valves: die-cast zinc						
	Seals		Nitrile rubber						
Weight	Valve	[g]	130	230	250	210	320	595	1,760
	Safety guard	[g]	-	-	-	-	-	1,200	660

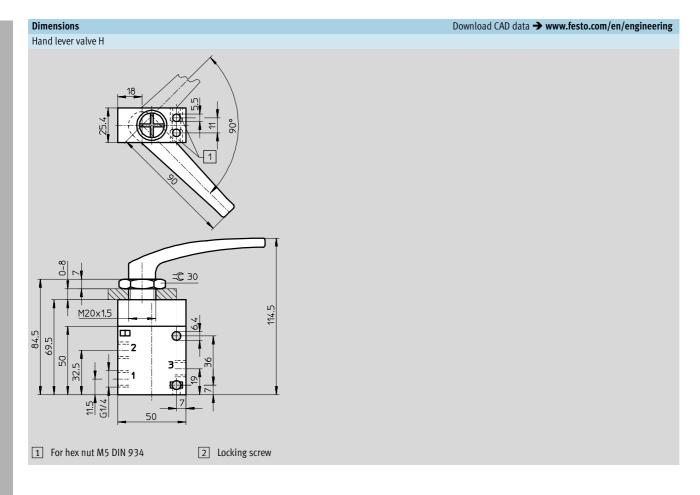
Vacuum connection at port 1
Hand lever valve suitable for panel mounting Foot valves with flange eye on housing

FESTO

Technical data – 3/2-way valves



Valves with threaded connections G1/4 Technical data – 3/2-way valves

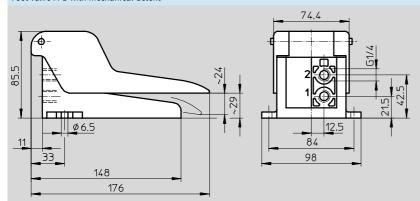


Manually and mechanically actuated valves With threaded connections 644 4.5

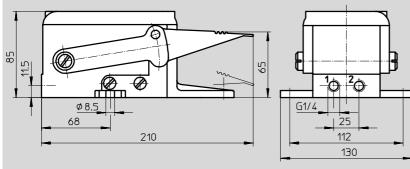
Technical data – 3/2-way valves

Dimensions Foot valve F

Foot valve FPB with mechanical detent



Foot valve FP with mechanical detent



1 = Supply port

2 = Working line

- 📱 - Note

Foot valves with detent are actuated by means of a foot lever with mechanical detent. The valve engages when it is first actuated, and when the foot lever is actuated again, the valve returns to its initial position.

FESTO

Download CAD data → www.festo.com/en/engineering

Valves with threaded connections G1/4 Technical data – 3/2-way valves

FESTO

Ordering data		
Circuit symbol	Actuation type	Part No. Type
Normally closed		
	Stem actuated valve	6 808 V-3-1/4-B
	Roller lever valve	8 985 R-3-1/4-B
	Roller lever valve with idle return	8 982 L-3-1/4-B
	Finger lever valve	8 983 TH-3-1/4-B
	Hand lever valve	8 987 H-3-1⁄4-B
	Foot valve	8 984 F-3-1/4-B
	Foot valve with mechanical detent	8 986 FP-3-1/4-B
		526 985 FPB-3- ¹ / ₄
Normally open		
	Stem actuated valve	9 157 VO-3-1/4-B
	Roller lever valve	8 991 RO-3-1/4-B
	Roller lever valve with idle return	8 989 LO-3-1/4-B
	Finger lever valve	8 990 THO-3-1/4-B
	Foot valve	8 988 FO-3-1/4-B

Ordering data – Wearing parts kits

•		
	Part No.	Туре
For 3/2-way valves ¹⁾	104 503	V-,VO-3-1/4-B
		[

1) not for foot valves F, FO, FP, FPB

Technical data – 5/2-way valves



-



Wearing parts kits

Temperature range −10 ... +60°C

→ 2 / 4.5-11



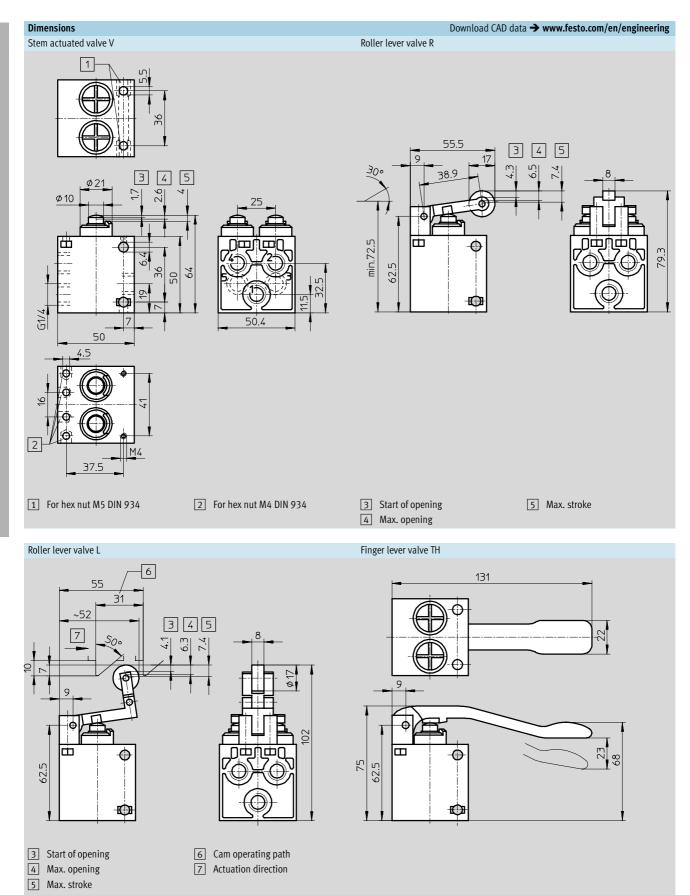
General tech	inical data								
Actuation typ	pe		Stem actuated valve	Roller lever valve	Roller lever valve with idle return	Finger lever valve	Hand lever valve	Foot valve	Foot valve with mechanical detent
Operating medium			Filtered comp Vacuum ¹⁾	Filtered compressed air, lubricated or unlubricated Vacuum ¹⁾					
Construction	al design		Poppet valve,	Poppet valve, directly actuated					
Type of moun	iting		2 through-holes in housing ²⁾						
Connection	Connection			G1⁄4					
Nominal size	2	[mm]	7						
Standard nor	minal flow rate 1> 2	[l/min]	550						
Pressure ran	ge	[bar]	-0.95 +10						
Actuating for	rce at 6 bar	[N]	132	35	53	24	22	52	69
Temperature	range	[°C]	-10+60						
Materials Housing			Die-cast aluminium, types F and FP: die-cast zinc						
Seals			Nitrile rubber						
Weight	Valve	[g]	240	340	360	320	510	705	1,845
	Safety guard	[g]	-	-	-	-	-	1,200	660

1) Vacuum connection at port 1

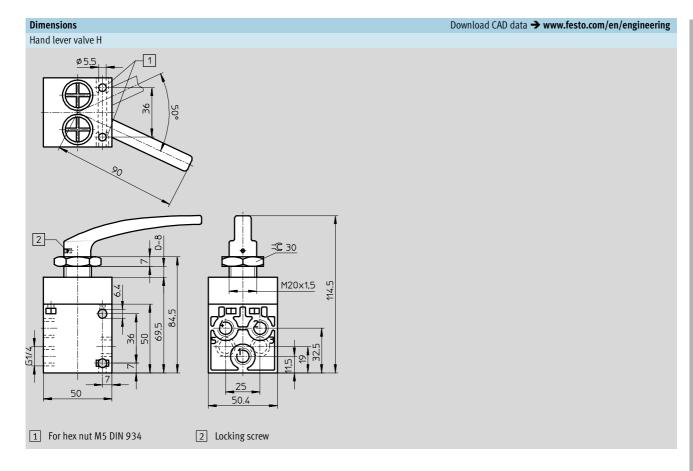
 vacuum connection at port 1
Hand lever valve suitable for panel mounting Foot valves with flange eye on housing Manually and mechanically actuated valves
With threaded connections G¼

FESTO

Technical data – 5/2-way valves



Technical data – 5/2-way valves

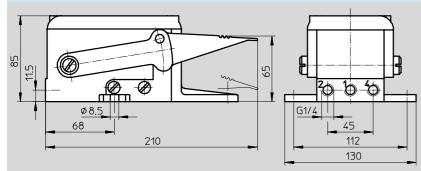


Technical data – 5/2-way valves

Dimensions Download CAD data → www.festo.com/en/engineering Foot valve F Foot valve FPB with mechanical detent 74.4 Φ G1/4 85.5 ~24 ~29 1 Ø 6.5 25 1<u>1</u> 84 33 98 148

Foot valve FP with mechanical detent

176



Manually and mechanically actuated valves With threaded connections G¼

- I Note
Foot valves with detent are actuated by means of a foot lever with

mechanical detent.

The valve engages when it is first actuated, and when the foot lever is actuated again, the valve returns to its initial position.

Valves with threaded connections G¹/₄ Technical data – 5/2-way valves

FESTO

Ordering data		
Circuit symbol	Actuation type	Part No. Type
	Stem actuated valve	6 809 V-5-¼-B
	Roller lever valve	8 996 R-5-1⁄4-B
	Roller lever valve with idle return	8 993 L-5- ¹ /4-B
	Finger lever valve	8 994 TH-5-¼-B
	Hand lever valve	8 995 H-5-1⁄4-B
	Foot valve	8 992 F-5-1/4-B
	Foot valve with mechanical detent	8 997 FP-5-1/4-B
╱╾╾┨ <u>┰╲</u> Ψӏ╨╱┮┨ ₅Ӯӏ҄Ӯ ҙ		526 985 FPB-5-1/4

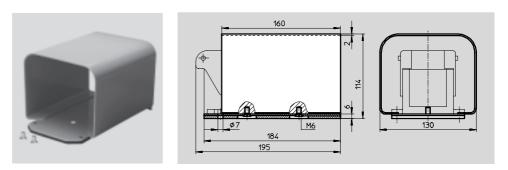
Ordering data -	Nearing parts kits		
		Part No.	Туре
For 5/2-way valv	₁₅ 1)	104 502	V-5-1/4-B

1) not for foot valves F, FP, FPB

Valves with threaded connections G¹/₄

Accessories

Safety guard FH

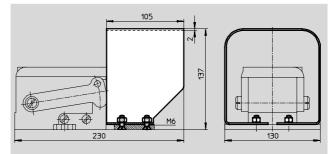


Ordering data

Ordering data			
	Weight	Part No.	Туре
	[g]		
Safety guard for foot valve F	1,240	4 500	FH

Safety guard FPH-121

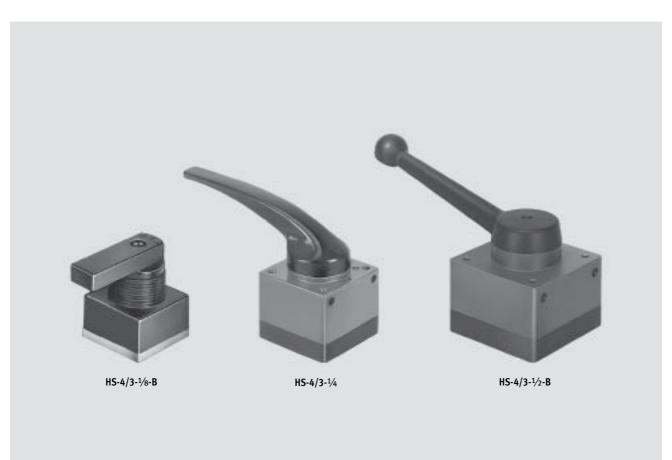




Ordering data			
	Weight	Part No.	Туре
	[g]		
Safety guard for foot valve FP	670	2 071	FPH-121
with mechanical detent			

Hand lever valves HS/HSO

Key features



- 🚺 - Flow rate 130 ... 3 500 l/min

/- ·

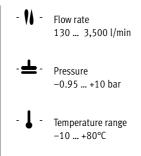
- 4/3-way valve mid-position closed mid-position exhausted
- Connections: M5, G1⁄8, G1⁄4, G1⁄2
- 3/3-way valve The hand lever valve HS can be used as a 3/3-way valve by sealing port 2.

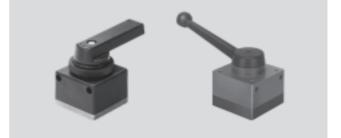
With these valves it is possible to stop single acting cylinders (3/3-way valve) or double acting cylinders (4/3-way valve) within the stroke range. If the hand lever valve is used, the cylinder piston is held in its neutral position by applying pressure at both sides, whereas if type HSO is used, the piston can be moved without pressure.

4.6

Hand lever valves HS/HSO Technical data

FESTO





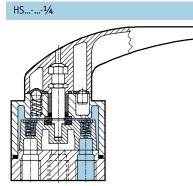
General technical data								
Pneumatic connection			M5	G1⁄8	G1⁄4	G-1/2		
Operating medium			Filtered compress	Filtered compressed air, lubricated or unlubricated				
			Vacuum ¹⁾	Vacuum ¹⁾				
Constructional design			Flat slide valve					
Type of mounting			Front panel	Front panel	Front panel m	ounting		
			mounting	mounting, mounting				
				holes				
Nominal size		[mm]	3.6	6	8	12		
Standard nominal flow rate 1 ·		[l/min]	130	700	1,200	3,500		
Operating pressure range		[bar]	-0.95 +10 bar					
Actuating force at 6 bar		[N]	-	-	12	26		
Actuating torque at 6 bar		[Nm]	0.3	1	-	-		
Temperature range		[°C]	-20 +80					
Materials Housing			Aluminium die-cast, polymer material					
	Seals		Nitrile rubber					
Weight		[g]	35	120	390	1,350		

1) M5: vacuum at ports 1 and 3 G1/8: vacuum at port 3 G1/4: vacuum at ports 1 and 3

G¹/2: vacuum at port 3

Manually and mechanically actuated valves Hand lever valves

4.6



3 2,4 1

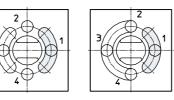
= Supply port 1

4,2 = Working or outlet lines

3 = Exhaust

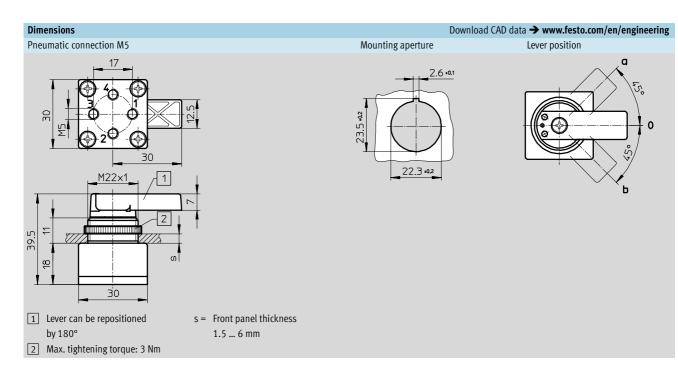
Connections underneath

HS



HSO

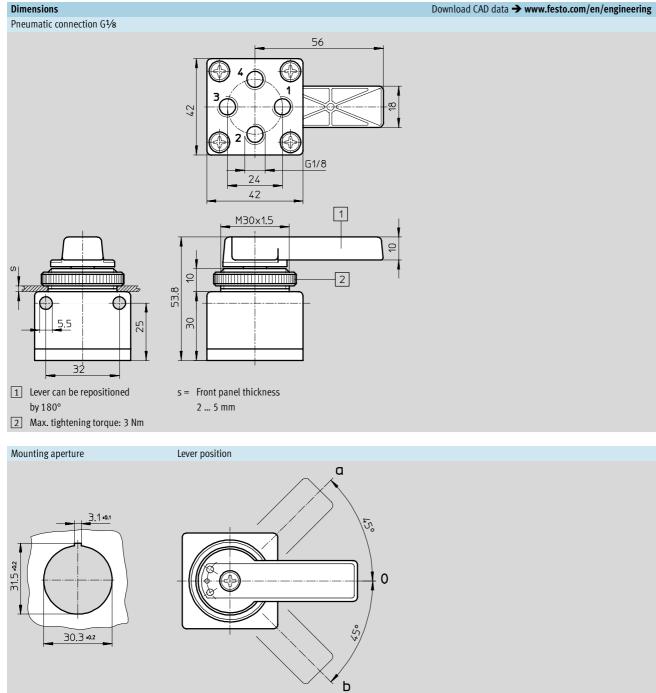
Hand lever valves HS/HSO Technical data



4.6

2004/10 - Subject to change - Products 2004/2005

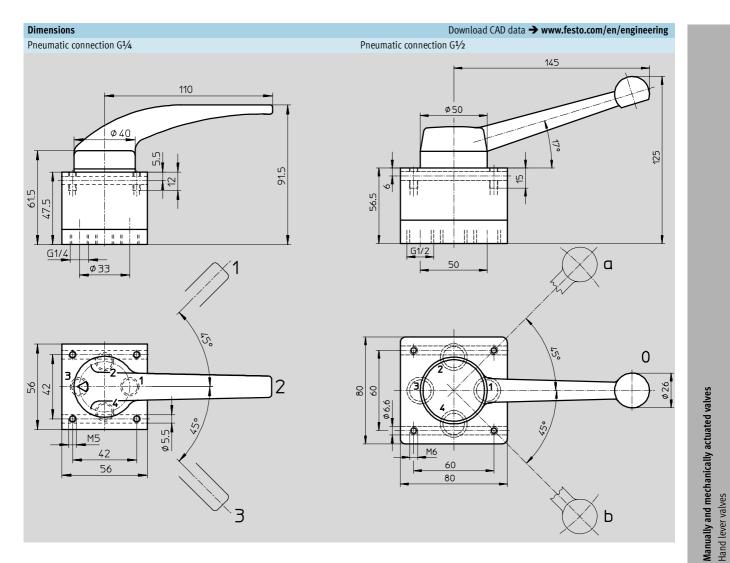
Hand lever valves HS/HSO Technical data



4.6

Hand lever valves HS/HSO Technical data

FESTO



Ordering data			
Circuit symbol	Description	Pneumatic connection	Part No. Type
4/3-way valve ¹⁾			
	Mid-position closed	M5	34 639 HS-4/3-M5
		G1⁄8	151 842 HS-4/3-1/8-B
		G1⁄4	9 339 HS-4/3- ¹ /4
		G1⁄2	9 784 HS-4/3-½-B
	Mid-position exhausted	M5	34 539 HSO-4/3-M5
		G1⁄8	151 843 HSO-4/3-1/8-B
		G1⁄4	9 340 HSO-4/3-1/4
11 ¥5		G1⁄2	9 785 HSO-4/3-1/2-B

1) The hand lever valve HS can be used as a 3/3-way valve by sealing port 2, blanking plugs \rightarrow 2 / 4.6-6

Hand lever valves HS/HSO

Ordering data	l de la constante de		
	Description	Pneumatic connection	Part No. Type
Blanking plug	S		
	For sealing connections	M5	3 843 B-M5 ¹⁾
a 🔍		G1⁄8	3 568 B-1/8 ¹)
		G1⁄4	3 569 B-1/4 ¹⁾
		G1/2	3 571 B-1/2 ¹⁾
Silencer	For fitting in exhaust ports	-	→ Volume 3
Push-in/threa	ded fittings QS		
	For connecting compressed air tubing with standard external diameters	-	➔ Volume 3

1) Scope of delivery 10 pieces

