3/2-way miniature valve

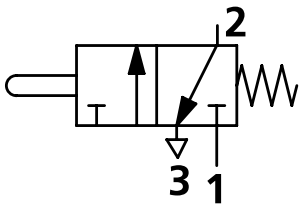
mechanically operated, series VME

PLUS

Art. No. 154076

Type No. W3501001311





Exemplary illustration

Miniature valves, 3/2-way type, NC or NO.

Technical data

Operation	mechanical
Function	3/2 NC
Version	roller lever with free return
Connection	M5 IT on side
DN	2.5 mm
Flow rate measurement 1	flow rate at 6 bar and Δ_p 0.5 bar
Flow rate 1	35 Nl/min
Flow rate measurement 2	flow rate at 6 bar and Δ_p 1 bar
Flow rate 2	60 Nl/min
Medium	filtered compressed air with or without lubrication. If lubricated, then continuous.
Operating pressure	0.5 - 10 bar
Operating pressure at 6 bar	8 N
Temperature range	-10 to 60 °C
Valve body	aluminium
Sealant	NBR
Spring	stainless steel
Pushbutton	nickel-plated brass
Series	series VME

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Commercial data

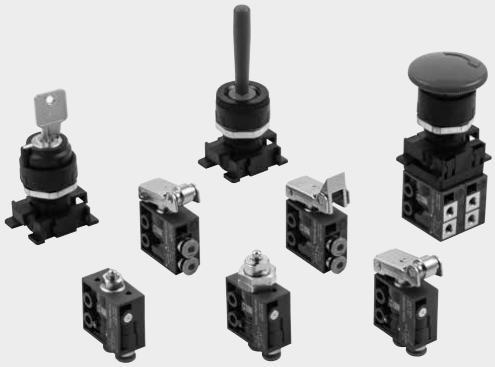
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MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

- Minivalves with 3/2 NO NC poppet,
- Installation in any position
- Push-in fittings for pipe Ø 4 mm and M5
- Low actuation force
- Rapid, accurate signal
- Mechanical actuation
- The 2 places adapter allows manual actuation of 1 or 2 VME valves with manual Ø 22 panel actuators. Thus it is possible to obtain 3/2, 5/2, 5/3 open centre and 5/3 pressure centre pneumatic functions.
- On request, it is possible to place a NC-NO electric switch next to VME valve for mixed solenoid/pneumatic signals.

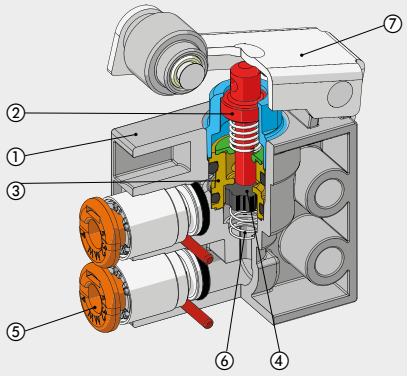


TECHNICAL DATA

Valve fitting port		Push-in fitting for pipe diam. 4 and M5 (axial or side)
Fluid		Filtered air without lubrication; lubrication, if used, must be continuous
Type		With poppet
Versions		Mechanical and manual
Operators:		
mechanical		With Plunger – Plunger for wall-mounting – Roller lever – Unidirectional roller lever
manual		Depending on the type of actuation panel selected
Thread forming torque of the self-tapping screws for the plunger version	Nm	0.6
Operating pressure	bar	0.5 to 10
Operating temperature range	°C	-10° to +60
Nominal diameter	mm	2.5
Conductance C	Nl/min · bar	16.5
Critical ratio b	bar/bar	0.03
Flow rate at 6 bar ΔP 0.5 bar	Nl/min	35
Flow rate at 6 bar ΔP 1 bar	Nl/min	60
Actuation force – Plunger at 6 Bar	N	8
Installation		In any position
Compatibility with oils		See **chapter Z1**

COMPONENTS

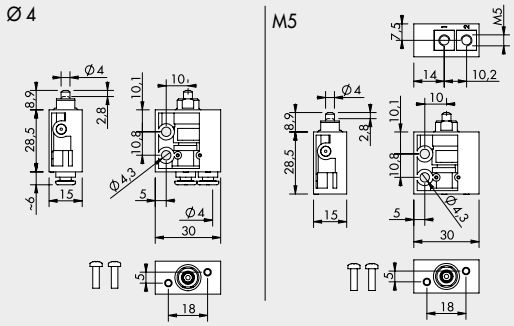
① VALVE BODY: technopolymer
② BUTTON: chemically nickel-plated brass
③ DISTANCE PLATES: brass
④ GASKETS: NBR
⑤ PUSH-IN FITTING CARTRIDGES: stainless steel, brass and plastic
⑥ SPRINGS: stainless steel
⑦ LEVER: nickel-plated steel



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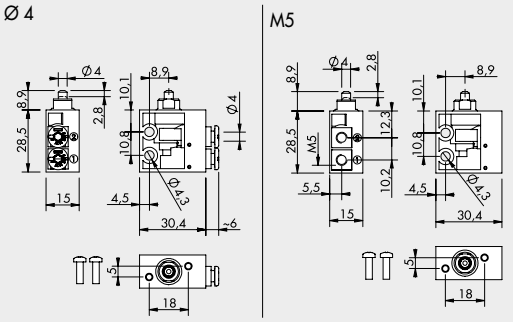
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PLUNGER 3/2 NO - AXIAL FITTINGS



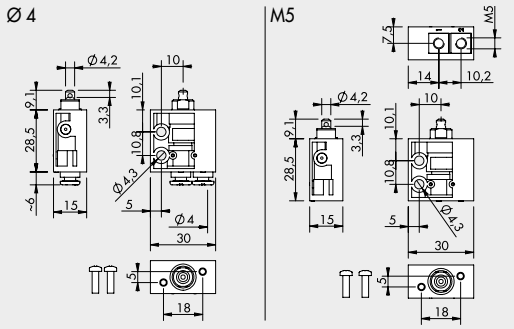
Symbol	Code	Description	Weight [g]
	W3501000101	VME1-10 NO Ø 4	22
	W3501000110	VME1-16 NO M5	24

PLUNGER 3/2 NO - SIDE FITTINGS



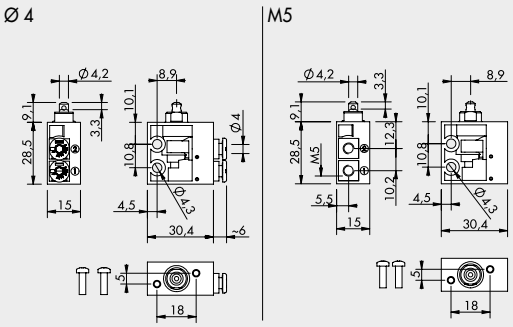
Symbol	Code	Description	Weight [g]
	W3501001100	VME2-00 NO Ø 4	22
	W3501001110	VME2-10 NO M5	24

PLUNGER 3/2 NC - AXIAL FITTINGS



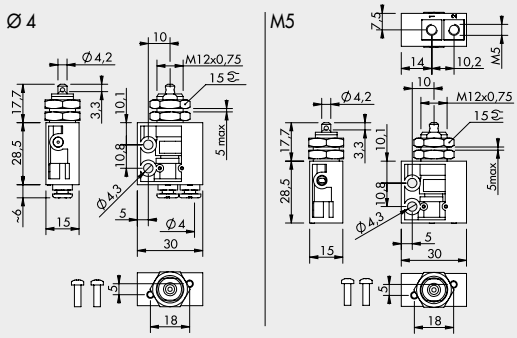
Symbol	Code	Description	Weight [g]
	W3501000100	VME1-01 NC Ø 4	22
	W3501000111	VME1-11 NC M5	24

PLUNGER 3/2 NC - SIDE FITTINGS



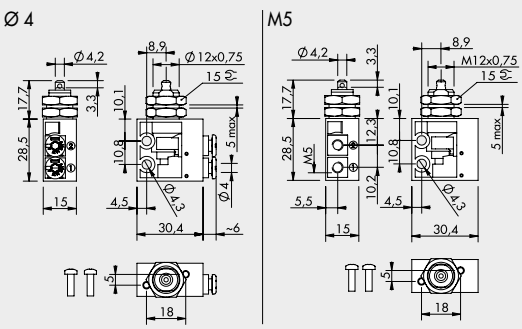
Symbol	Code	Description	Weight [g]
	W3501001101	VME2-01 NC Ø 4	22
	W3501001111	VME2-11 NC M5	24

PLUNGER FOR WALL MOUNTING, 3/2 NC - AXIAL FITTINGS



Symbol	Code	Description	Weight [g]
	W3501000400	VME1-04 NC Ø 4	36
	W3501000411	VME1-14 NC M5	38

PLUNGER FOR WALL MOUNTING, 3/2 NC - SIDE FITTINGS

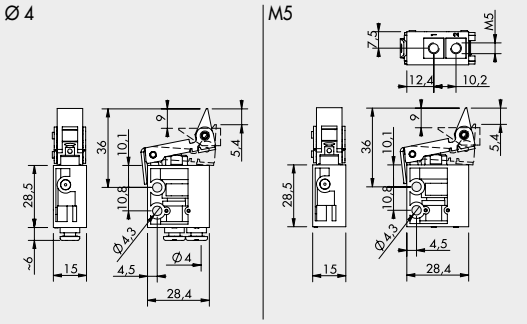


Symbol	Code	Description	Weight [g]
	W3501001401	VME2-04 NC Ø 4	36
	W3501001411	VME2-14 NC M5	38

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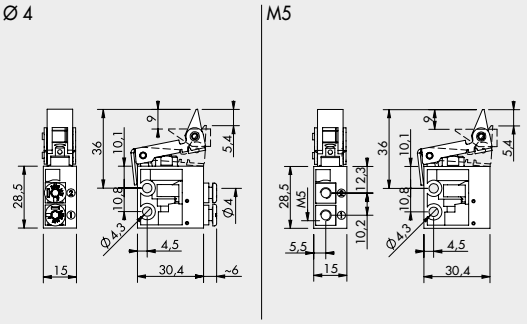
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UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - AXIAL FITTINGS



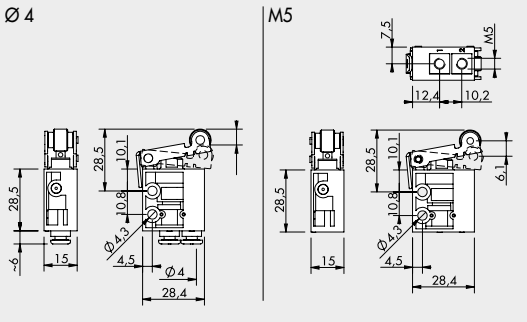
Symbol	Code	Description	Weight [g]
	W3501000300	VME1-03 NC Ø 4	38
	W3501000311	VME1-13 NC M5	40

UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - SIDE FITTINGS



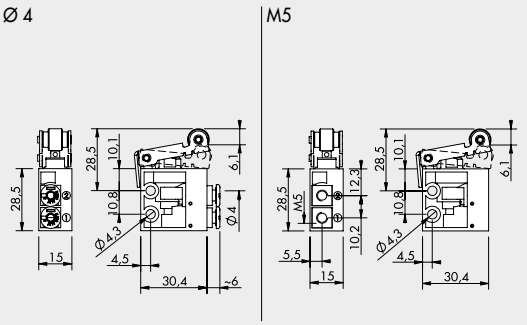
Symbol	Code	Description	Weight [g]
	W3501001301	VME2-03 NC Ø 4	38
	W3501001311	VME2-13 NC M5	40

ROLLER LEVER, 3/2 NO - AXIAL FITTINGS



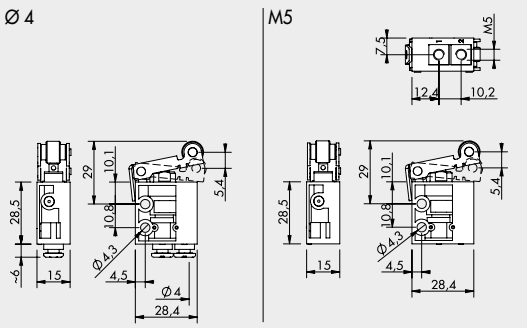
Symbol	Code	Description	Weight [g]
	W3501000201	VME1-05 NO Ø 4	36
	W3501000210	VME1-15 NO M5	38

ROLLER LEVER, 3/2 NO - SIDE FITTINGS



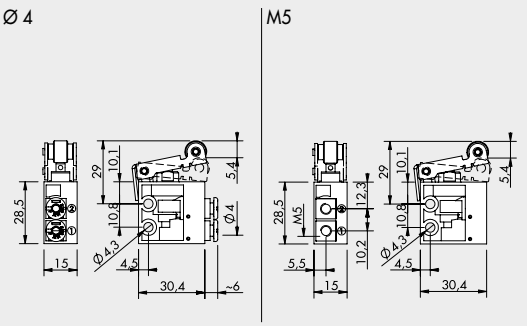
Symbol	Code	Description	Weight [g]
	W3501001200	VME2-05 NO Ø 4	36
	W3501001210	VME2-15 NO M5	38

ROLLER LEVER, 3/2 NC - AXIAL FITTINGS



Symbol	Code	Description	Weight [g]
	W3501000200	VME1-02 NC Ø 4	36
	W3501000211	VME1-12 NC M5	38

ROLLER LEVER, 3/2 NC - SIDE FITTINGS

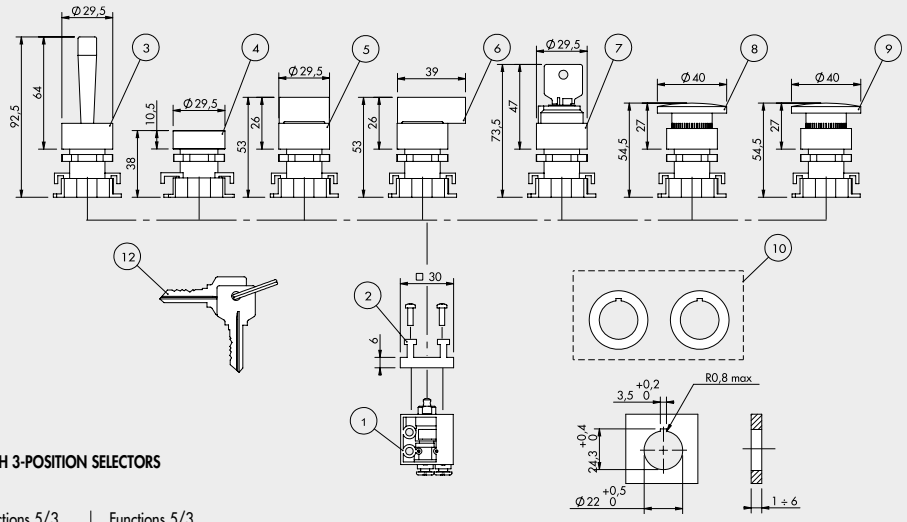


Symbol	Code	Description	Weight [g]
	W3501001201	VME2-02 NC Ø 4	36
	W3501001211	VME2-12 NC M5	38

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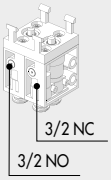
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MANUAL VME VALVES – ASSEMBLY DIAGRAM



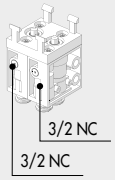
WITH 2-POSITION SELECTORS

Functions 5/2

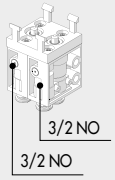


WITH 3-POSITION SELECTORS

Functions 5/3 open centers



Functions 5/3 pressure centers



NOTES:

- For VME valve bodies in technopolymer, use the self-tapping screws supplied with the valve.
- For before modification VME valve bodies (aluminum version), use the M3 screws supplied with the selector or button kit.

ORDERING CODES

Rif.	Symbol	Code	Description	Weight [g]
①		**W3501000100**	3/2 NC Axial fittings Ø 4	22
		W3501000111	3/2 NC Axial fittings M5	24
		**W3501001101**	3/2 NC Side fittings Ø 4	22
		W3501001111	3/2 NC Side fittings M5	24
①		**W3501000101**	3/2 NO Axial fittings Ø 4	22
		W3501000110	3/2 NO Axial fittings M5	24
		**W3501001100**	3/2 NO Side fittings Ø 4	22
		W3501001110	3/2 NO Side fittings M5	24
②		**0351000050**	2 places adaptor thickness 6.8 mm	5
③		**W0351000015**	Red handler with horizontally pivoted leve	25
④		**W0351000011**	Fat push button + 2 red/black coloured disks	15
		W0351000056	Green disk for push button ④	
⑤		**W0351000030**	Black selector short lever at 2 positions with return	20
		**W0351000031**	Black selector short lever at 2 positions	20
⑤		**W0351000032**	Black selector short lever at 3 positions with return	20
		W0351000033	Black selector short lever at 3 positions	20
⑥		**W0351000034**	Black selector long lever at 2 positions with return	26
		W0351000035	Black selector long lever at 2 positions	26
⑥		**W0351000036**	Black selector long lever at 3 positions with return	26
		W0351000037	Black selector long lever at 3 positions	26
⑦		**W0351000016**	2 positions key selector with extractable key in 2 positions	50
		W0351000018	2 positions key selector with extractable key in 0	50
⑧		**W0351000013**	Red mushroom-head push button Ø 40	27
		W0351000017	Black mushroom-head push button Ø 40	27
⑨		**W0351000014**	Red mushroom-head push button with lock Ø 40	29
⑩		**W0351000049**	Reducer from 30 to 22.5 mm	
⑫		**W0351000021**	Key for ESC selectors	

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