

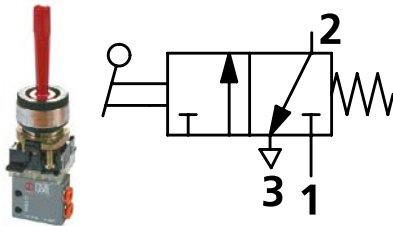
3/2-way miniature valve

manually operated, for panel mounting, series VME

PLUS ||

Art. No. 106409

Type No. 512.403



Exemplary illustration

Monostable (non-latching) and bistable (latching) versions available.

Discontinued product. No longer available. New product 154133 (512.403-1)

Technical data

Function	3/2 NC
Operation	monostable
Connection	plug-in connector Ø 4 mm on side
Flow rate measurement 1	flow rate at 6 bar and Δp 0.5 bar
Flow rate 1	35 NI/min
Flow rate measurement 2	flow rate at 6 bar and Δp 1 bar
Flow rate 2	60 NI/min
Medium	filtered compressed air with or without lubrication. If lubricated, then continuous.
Operating pressure	0.5 - 10 bar
Valve body	aluminium
Pushbutton	nickel-plated brass
Sealant	NBR
Spring	stainless steel
Symbol	4

Commercial data

Customs tariff number	84818079
Country of origin	IT
eCl@ss 5.1.4	27291801
eCl@ss 9.0	27291390
UNSPSC_Code_v190501	40141603
UNSPSC_CodeDesc_v190501	Pneumatic valves

Material informations

REACH SVHC1 substance name	lead
CAS no. SVHC 1	7439-92-1
RoHS materials notice	RoHS compliant
REACH Info	contains SVHC substance

B1

MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

VALVES

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 on the valve body
- 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.

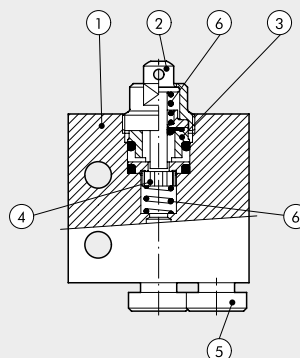


TECHNICAL DATA

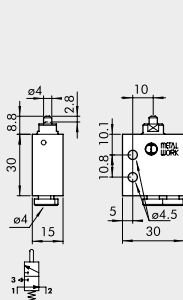
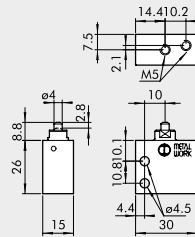
Valve fitting port		Push-in fitting for pipe diam. 4 and M5 (axial or side)
Fluid		Filtered air without lubrication; lubrication, if used, must be continuous
Type		With poppet
Versions		Mechanical and manual
Operators:		With Plunger – Plunger for wall-mounting – Roller lever – Unidirectional roller lever
• mechanical		Depending on the type of actuation panel selected
• manual		
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
Recommended lubricant		ISO and UNI FD22
Installation		In any position
Compatibility with oils		See chapter Z1

COMPONENTS

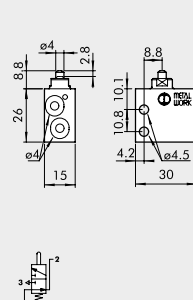
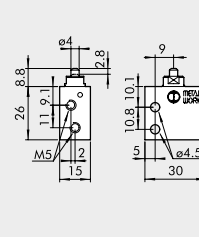
- 1 VALVE BODY: Aluminium
- 2 BUTTON: chemically nickel-plated brass
- 3 DISTANCE PLATES: Brass
- 4 GASKETS: NBR
- 5 PUSH-IN FITTING CARTRIDGES: stainless steel, brass and plastic
- 6 SPRINGS: stainless steel



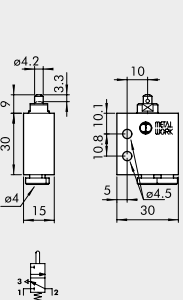
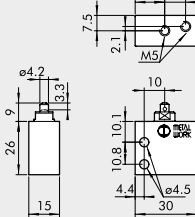
B1.4

PLUNGER 3/2 NO - AXIAL FITTINGS
Ø 4

M5


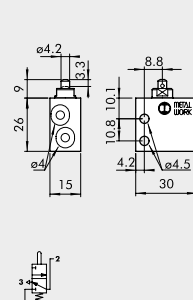
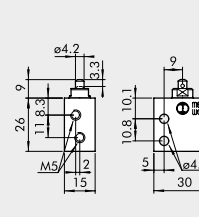
Code	Description	Weight [g]
W3501000101	VME1-10 NO Ø 4	42
W3501000110	VME1-16 NO M5	36

PLUNGER 3/2 NO - SIDE FITTINGS
Ø 4

M5


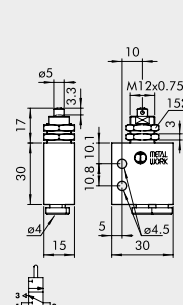
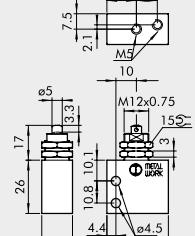
Code	Description	Weight [g]
W3501000100	VME2-00 NO Ø 4	34
W3501000110	VME2-10 NO M5	34

PLUNGER 3/2 NC - AXIAL FITTINGS
Ø 4

M5


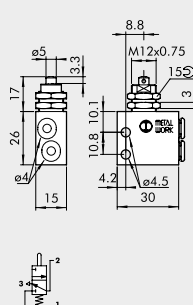
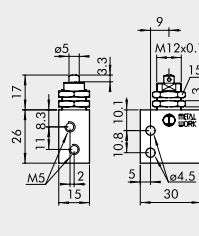
Code	Description	Weight [g]
W3501000100	VME1-01 NC Ø 4	42
W3501000111	VME1-11 NC M5	36

PLUNGER 3/2 NC - SIDE FITTINGS
Ø 4

M5


Code	Description	Weight [g]
W3501000101	VME2-01 NC Ø 4	34
W3501000111	VME2-11 NC M5	34

PLUNGER FOR WALL MOUNTING, 3/2 NC - AXIAL FITTINGS
Ø 4

M5


Code	Description	Weight [g]
W3501000400	VME1-04 NC Ø 4	54
W3501000411	VME1-14 NC M5	48

PLUNGER FOR WALL MOUNTING, 3/2 NC - SIDE FITTINGS
Ø 4

M5


Code	Description	Weight [g]
W35010001401	VME2-04 NC Ø 4	46
W35010001411	VME2-14 NC M5	46

VALVES

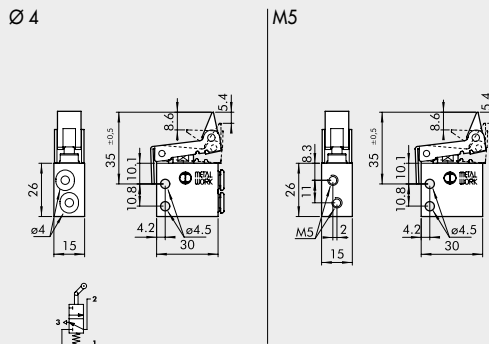
MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - AXIAL FITTINGS



Code	Description	Weight [g]
W3501000300	VME1-03 NC Ø 4	60
W3501000311	VME1-13 NC M5	54

UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - SIDE FITTINGS



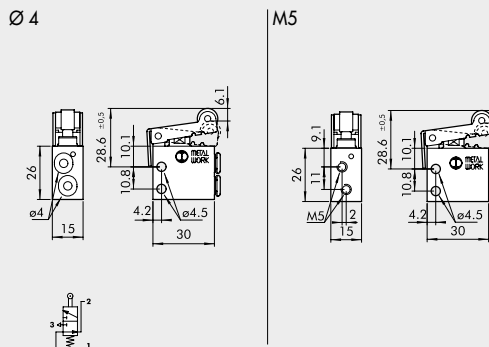
Code	Description	Weight [g]
W3501001301	VME2-03 NC Ø 4	52
W3501001311	VME2-13 NC M5	52

ROLLER LEVER, 3/2 NO - AXIAL FITTINGS



Code	Description	Weight [g]
W3501000201	VME1-05 NO Ø 4	58
W3501000210	VME1-15 NO M5	52

ROLLER LEVER, 3/2 NO - SIDE FITTINGS



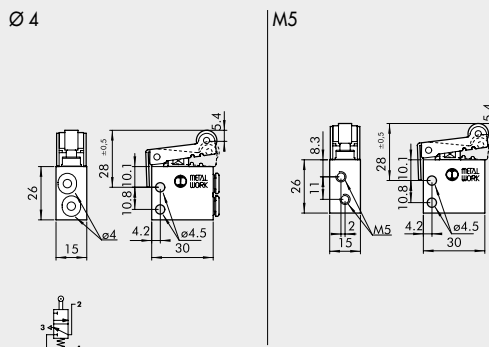
Code	Description	Weight [g]
W3501001200	VME2-05 NO Ø 4	50
W3501001210	VME2-15 NO M5	50

ROLLER LEVER, 3/2 NC - AXIAL FITTINGS



Code	Description	Weight [g]
W3501000200	VME1-02 NC Ø 4	56
W3501000211	VME1-12 NC M5	50

ROLLER LEVER, 3/2 NC - SIDE FITTINGS



Code	Description	Weight [g]
W3501001201	VME2-02 NC Ø 4	52
W3501001211	VME2-12 NC M5	50

MANUAL VME VALVES – ASSEMBLY DIAGRAM
NOTES:

- For 5/2 pneumatic operation, assemble a 3/2 NC plunger valve and a 3/2 NO one on the adapter.
- For 5/3 pneumatic operation with open centres, assemble two 3/2 NC plunger valves on the adapter.
- For 5/3 pneumatic operation with pressure centres, assemble two 3/2 NO plunger valves on the adapter.


VALVES

MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

ORDERING CODES

Symbol	Reference	Code	Description	Weight [g]
	①	W3501000100	3/2 NC Axial fittings Ø 4	42
		W3501000111	3/2 NC Axial fittings M5	36
		W3501001101	3/2 NC Side fittings Ø 4	34
		W3501001111	3/2 NC Side fittings M5	34
	①	W3501000101	3/2 NO Axial fittings Ø 4	42
		W3501000110	3/2 NO Axial fittings M5	36
		W3501001100	3/2 NO Side fittings Ø 4	34
		W3501001110	3/2 NO Side fittings M5	34
	②	0351000050	2 places adaptor thickness 6.8 mm	5
	③	W0351000015	Red handler with horizontally pivoted lever	25
	④	W0351000011	Fat push button + 2 red/black coloured disks ◆ Bistable fat push button without disk	15
	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
◆ It can't be supplied. As working replaced by selector with bistable short lever at 2 positions (⑤).	⑩	W0351000049	◆ Reducer from 30 to 22.5 mm	
▲ Usable only with technopolymer body selectors.	⑪	W0351000050	▲ Adapter for bore Ø 30 G2326	
▲ Usable only with metal body selectors.	⑫	W0351000021	▲ Key for ESC selectors	
		W0351000056	Green disk for push button (④)	

Accessories

	Art. No.	Type No.
Stem actuated valve, 3/2-way, monostable, NC, G 1/8	106441	515.101
Push button with red and black discs, monostable	106444	DK-M
Short rotating lever, black, 3 positions, monostable	106448	KDH-3M
Short rotating lever, black, 2 positions, monostable	106446	KDH-2M
Short rotating lever, black, 3 positions, bistable	106449	KDH-3B
Short rotating lever, black, 2 positions, bistable	106447	KDH-2B
Long rotating lever, black, 3 positions, monostable	106452	LDH-3M
Long rotating lever, black, 2 positions, monostable	106450	LDH-2M
Long rotating lever, black, 3 positions, bistable	106453	LDH-3B
Long rotating lever, black, 2 positions, bistable	106451	LDH-2B
Lockable 2 position switch with key removal in all positions	106454	V2SS-JS
Lockable 2 position switch with key removal in home position	106455	V2SS-GS
Red palm button, monostable	106456	RPT-M
Red palm button with emergency locking	106457	RPT-NR
3/2-way miniature valve, Mechanical, Tappet, NO, Connection 4 mm (side), Operating pre. 0.5-10 bar, Operating temp. -10°C to 60°C	106385	511.121

Spareparts

	Art. No.	Type No.
3/2-way miniature valve, Mechanical, Tappet, NC, Connection 4 mm (side), Operating pre. 0.5-10 bar, Operating temp. -10°C to 60°C	106387	511.131
Adapter max. 2 valves, required for mounting on basic valve	106443	A2V
Manual lever, red, monostable	106445	HH-M