MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

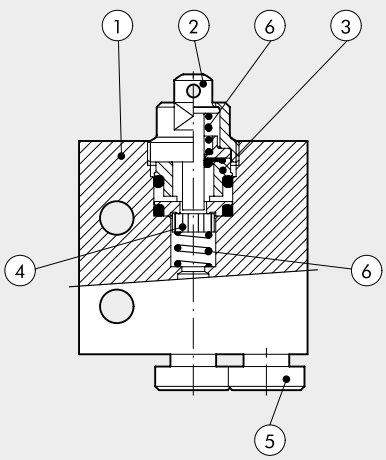
- Minivalves with 3/2 NO NC poppet,
- Installation in any position
- Push-in fittings for pipe Ø 4 mm and M5 on the valve body
- Low actuation force
- Rapid, accurate signal
- Mechanical actuation
- The 2 places adapter allows manual actuation of 1 or 2 VME valves with manual Ø 22 panel actuators. Thus 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:		
• mechanical		With Plunger – Plunger for wall-mounting – Roller lever – Unidirectional roller lever
• manual		Depending on the type of actuation panel selected
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**

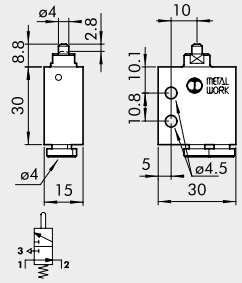
COMPONENTS

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

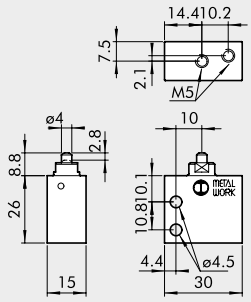


PLUNGER 3/2 NO - AXIAL FITTINGS

Ø 4



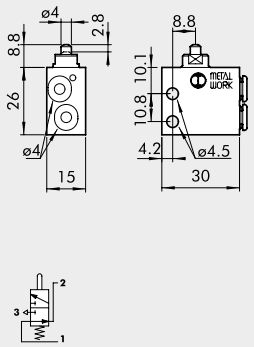
M5



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



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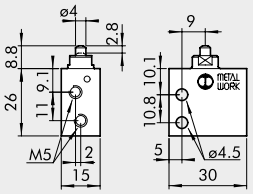
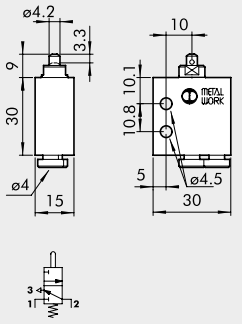


Code	Description	Weight [g]
W3501001100	VME2-00 NO Ø 4	34
W3501001110	VME2-10 NO M5	34

PLUNGER 3/2 NC - AXIAL FITTINGS

Ø 4



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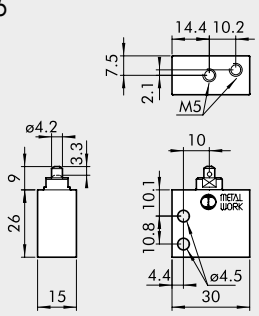
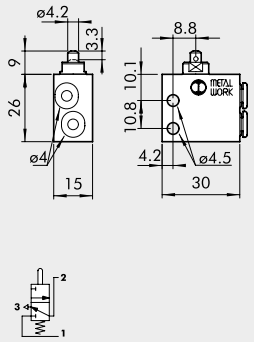


Code	Description	Weight [g]
W3501000100	VME1-01 NC Ø 4	42
W3501000111	VME1-11 NC M5	36

PLUNGER 3/2 NC - SIDE FITTINGS

Ø 4



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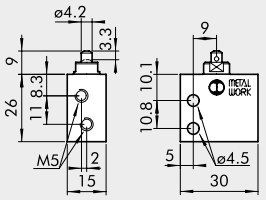
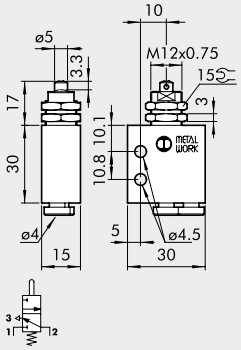


Code	Description	Weight [g]
W3501001101	VME2-01 NC Ø 4	34
W3501001111	VME2-11 NC M5	34

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

Ø 4



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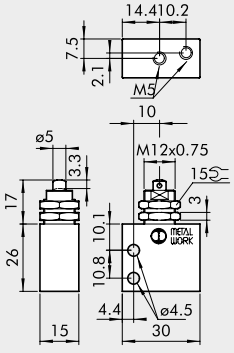
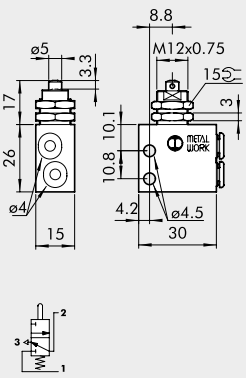


Code	Description	Weight [g]
W3501000400	VME1-04 NC Ø 4	54
W3501000411	VME1-14 NC M5	48

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

Ø 4



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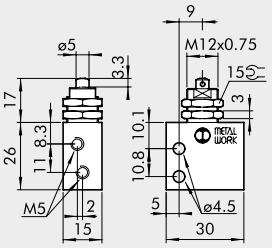
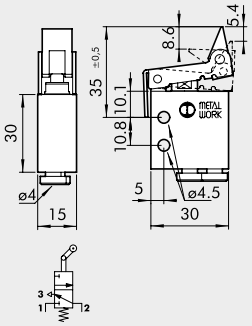


Code	Description	Weight [g]
W3501001401	VME2-04 NC Ø 4	46
W3501001411	VME2-14 NC M5	46

UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - AXIAL FITTINGS

Ø 4



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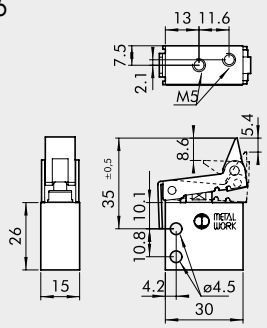
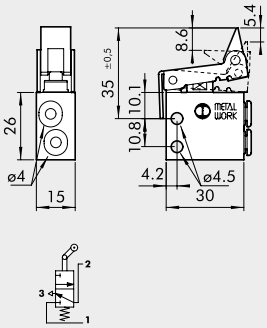


Code	Description	Weight [g]
W3501000300	VME1-03 NC Ø 4	60
W3501000311	VME1-13 NC M5	54

UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - SIDE FITTINGS

Ø 4



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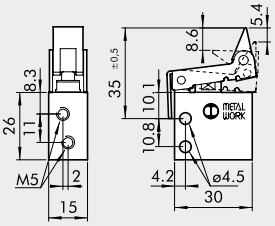
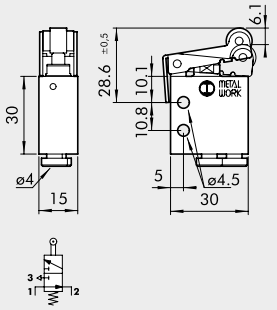


Code	Description	Weight [g]
W3501001301	VME2-03 NC Ø 4	52
W3501001311	VME2-13 NC M5	52

ROLLER LEVER, 3/2 NO - AXIAL FITTINGS

Ø 4



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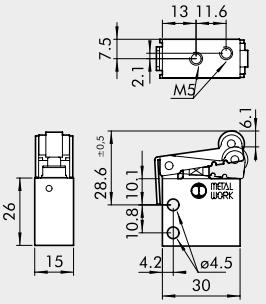
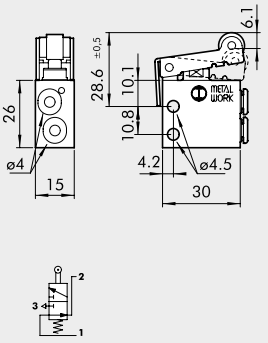


Code	Description	Weight [g]
W3501000201	VME1-05 NO Ø 4	58
W3501000210	VME1-15 NO M5	52

ROLLER LEVER, 3/2 NO - SIDE FITTINGS

Ø 4



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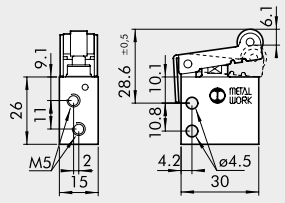
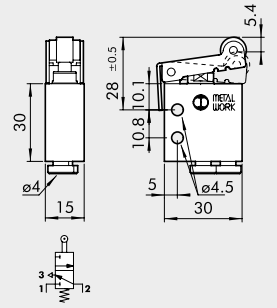


Code	Description	Weight [g]
W3501001200	VME2-05 NO Ø 4	50
W3501001210	VME2-15 NO M5	50

ROLLER LEVER, 3/2 NC - AXIAL FITTINGS

Ø 4



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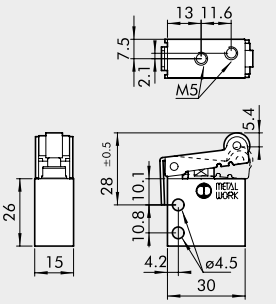
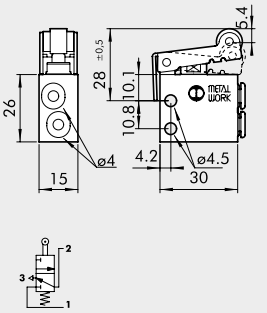


Code	Description	Weight [g]
W3501000200	VME1-02 NC Ø 4	56
W3501000211	VME1-12 NC M5	50

ROLLER LEVER, 3/2 NC - SIDE FITTINGS

Ø 4



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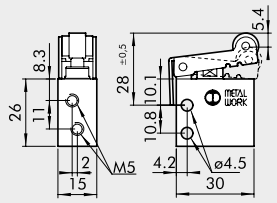


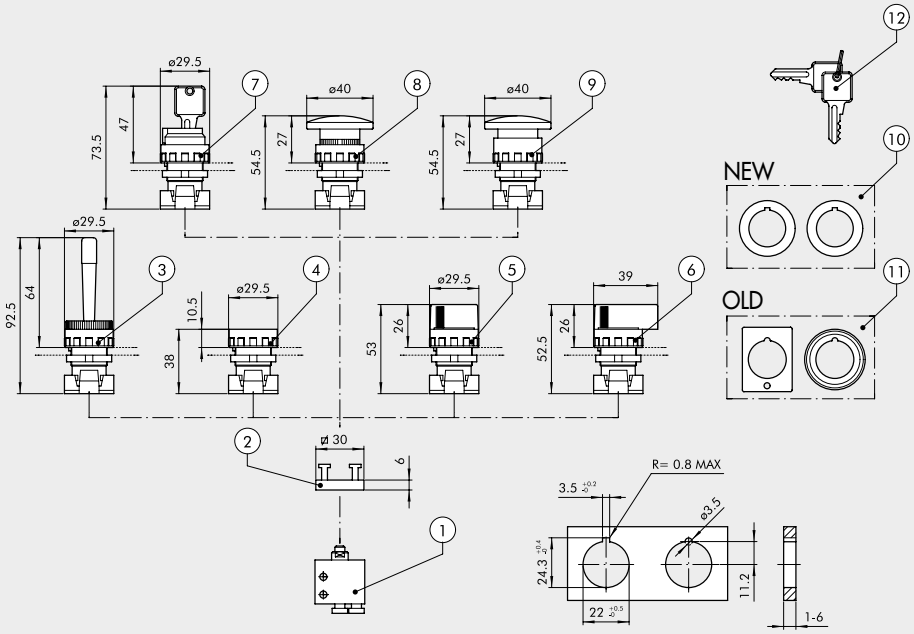
Code	Description	Weight [g]
W3501001201	VME2-02 NC Ø 4	52
W3501001211	VME2-12 NC M5	50

METAL WORK PNEUMATIC

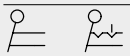
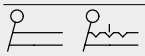
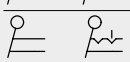
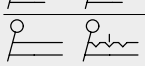
MANUAL VME VALVES – ASSEMBLY DIAGRAM

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.



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	15
			◆ Bistable fat push button without disk	
	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	
	⑪	**W0351000050**	▲ Adapter for bore Ø 30 G2326	
	⑫	**W0351000021**	✚ Key for ESC selectors	
		W0351000056	Green disk for push button ④	

◆ It can't be supplied. As working replaced by selector with bistable short lever at 2 positions ⑤.
✚ Usable only with technopolymer body selectors.
▲ Usable only with metal body selectors.