

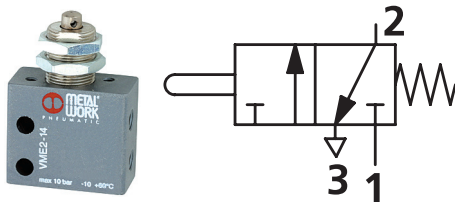
## 3/2-way miniature valve

mechanically operated, series VME

**PLUS** ||

Art. No. 106389

Type No. 511.151



Exemplary illustration

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

Discontinued product. No longer available. New product 154012 (W3501001401)

### Technical data

|                             |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| Operation                   | mechanical                                                                           |
| Function                    | 3/2 NC                                                                               |
| Version                     | plunger for panel mounting                                                           |
| Connection                  | plug-in connector Ø 4 mm on side                                                     |
| Nominal Ø                   | 2.5 mm                                                                               |
| Flow rate measurement 1     | flow rate at 6 bar and $\Delta p$ 1 bar                                              |
| Flow rate 1                 | 60 NI/min                                                                            |
| Flow rate measurement 2     | flow rate at 6 bar and $\Delta p$ 0.5 bar                                            |
| Flow rate 2                 | 35 NI/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                                                                                  |
| Operating temperature       | -10 to 60 °C                                                                         |
| Valve body                  | aluminium                                                                            |
| Sealant                     | NBR                                                                                  |
| Spring                      | stainless steel                                                                      |
| Pushbutton                  | nickel-plated brass                                                                  |
| Series                      | series VME                                                                           |

## Commercial data

|                         |                  |
|-------------------------|------------------|
| Customs tariff number   | 84818079         |
| Country of origin       | IT               |
| eCl@ss 5.1.4            | 27291701         |
| 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 |

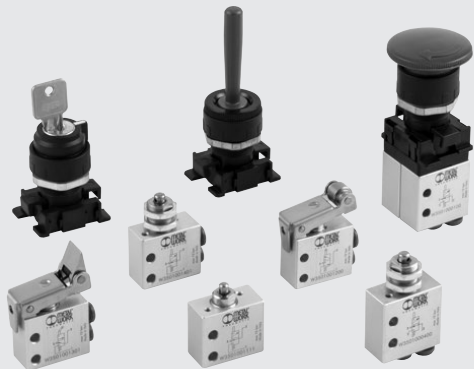
B1

**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.

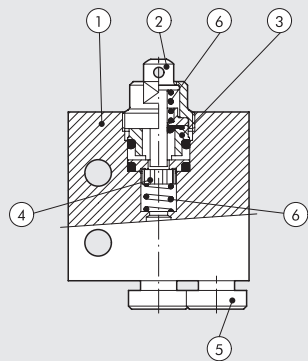


**TECHNICAL DATA**

|                                    |              |                                                                                       |
|------------------------------------|--------------|---------------------------------------------------------------------------------------|
| 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**

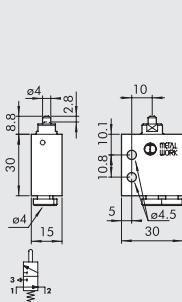
- ① VALVE BODY: Aluminium
- ② BUTTON: chemically nickel-plated brass
- ③ DISTANCE PLATES: Brass
- ④ GASKETS: NBR
- ⑤ PUSH-IN FITTING CARTRIDGES: stainless steel, brass and plastic
- ⑥ SPRINGS: stainless steel



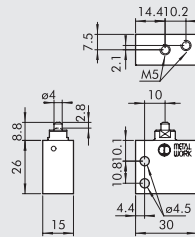
B1.4

### PLUNGER 3/2 NO - AXIAL FITTINGS

Ø 4



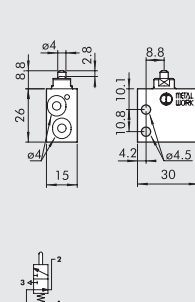
M5



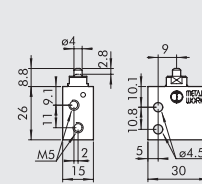
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501000101 | VME1-10 NO Ø 4 | 42         |
| W3501000110 | VME1-16 NO M5  | 36         |

### PLUNGER 3/2 NO - SIDE FITTINGS

Ø 4



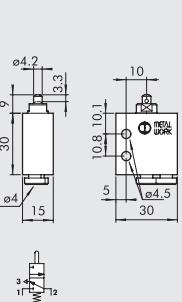
M5



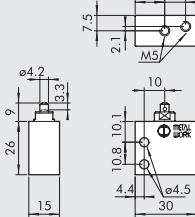
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501001100 | VME2-00 NO Ø 4 | 34         |
| W3501001110 | VME2-10 NO M5  | 34         |

### PLUNGER 3/2 NC - AXIAL FITTINGS

Ø 4



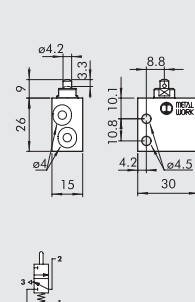
M5



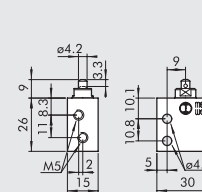
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501000100 | VME1-01 NC Ø 4 | 42         |
| W3501000111 | VME1-11 NC M5  | 36         |

### PLUNGER 3/2 NC - SIDE FITTINGS

Ø 4



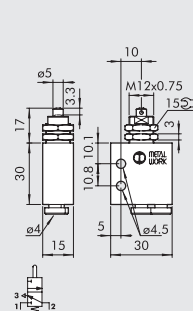
M5



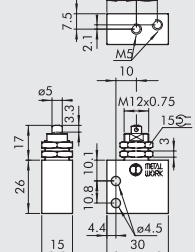
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501001101 | VME2-01 NC Ø 4 | 34         |
| W3501001111 | VME2-11 NC M5  | 34         |

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

Ø 4



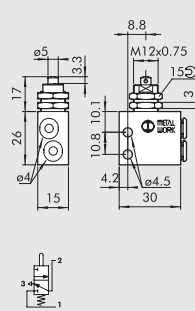
M5



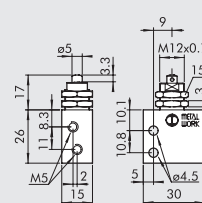
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501000400 | VME1-04 NC Ø 4 | 54         |
| W3501000411 | VME1-14 NC M5  | 48         |

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

Ø 4



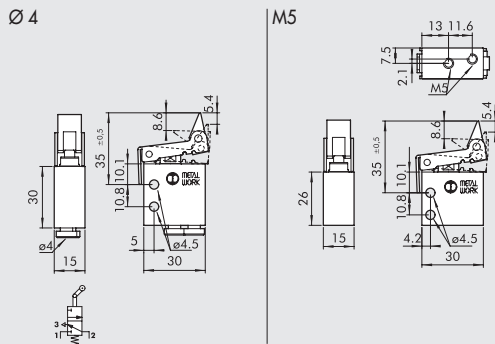
M5



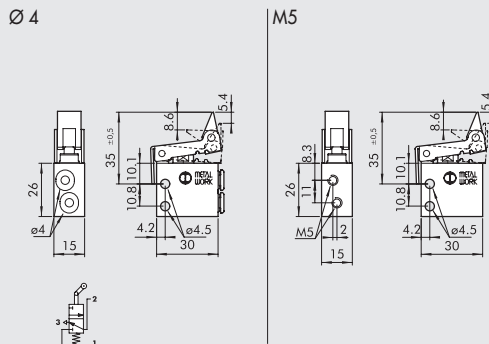
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501001401 | VME2-04 NC Ø 4 | 46         |
| W3501001411 | VME2-14 NC M5  | 46         |

## VALVES

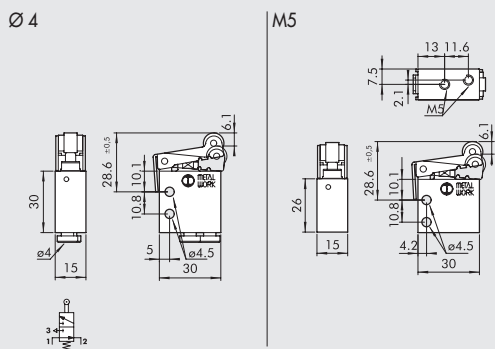
# MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

**UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - AXIAL FITTINGS**


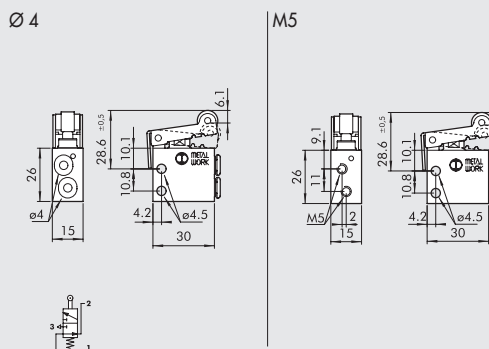
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501000300 | VME1-03 NC Ø 4 | 60         |
| W3501000311 | VME1-13 NC M5  | 54         |

**UNIDIRECTIONAL ROLLER LEVER, 3/2 NC - SIDE FITTINGS**


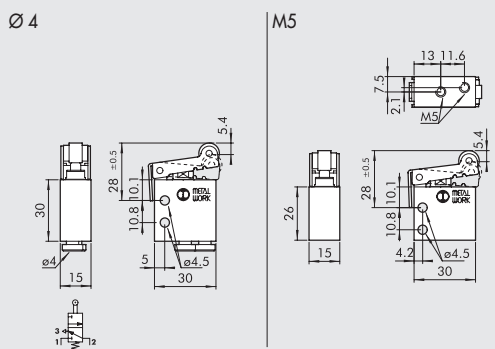
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501001301 | VME2-03 NC Ø 4 | 52         |
| W3501001311 | VME2-13 NC M5  | 52         |

**ROLLER LEVER, 3/2 NO - AXIAL FITTINGS**


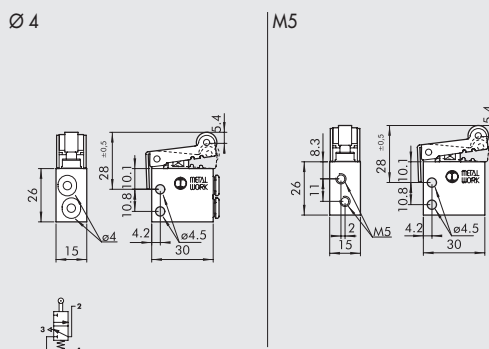
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501000201 | VME1-05 NO Ø 4 | 58         |
| W3501000210 | VME1-15 NO M5  | 52         |

**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**


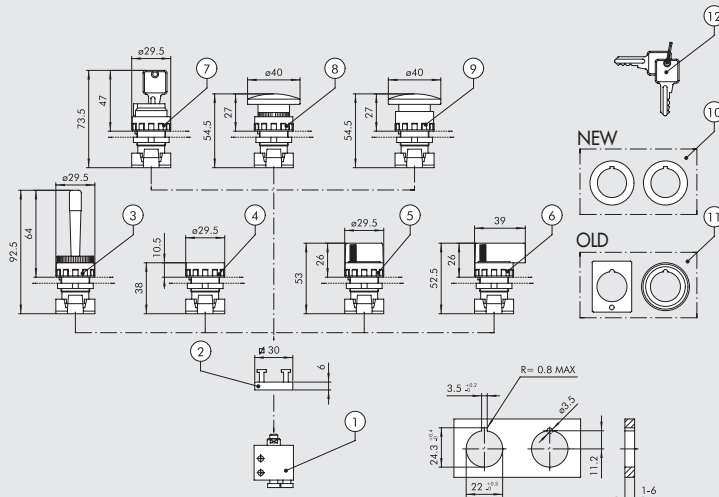
| Code        | Description    | Weight [g] |
|-------------|----------------|------------|
| W3501000200 | VME1-02 NC Ø 4 | 56         |
| W3501000211 | VME1-12 NC M5  | 50         |

**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<br>◆ 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)                                                          |            |