

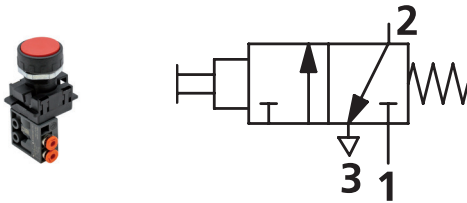
## 3/2-Wege-Miniaturventil

manuell betätigt, für Schalttafeleinbau, Reihe VME

**PLUS** ||

Artikel Nr. 154122

Typen Nr. 512.112-1



Beispielhafte Darstellung

In monostabiler (nicht rastender) und bistabiler (rastender) Ausführung.

### Technische Informationen

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Funktion                | 3/2 NC                                                                     |
| Betätigung              | monostabil                                                                 |
| Scheibe                 | rot                                                                        |
| Anschluss               | Steckanschluss Ø 4 mm seitlich                                             |
| DN                      | 2,5 mm                                                                     |
| Durchflusswertmessung 1 | Durchfluss bei 6 bar und $\Delta p$ 0,5 bar                                |
| Durchfluss 1            | 35 NI/min                                                                  |
| Durchflusswertmessung 2 | Durchfluss bei 6 bar und $\Delta p$ 1 bar                                  |
| Durchfluss 2            | 60 NI/min                                                                  |
| Medium                  | gefilterte Druckluft mit oder ohne Ölung. Wenn geölt, dann kontinuierlich. |
| Betriebsdruck           | 0,5 - 10 bar                                                               |
| Temperaturbereich       | -10 bis 60 °C                                                              |
| Ventilkörper            | Aluminium                                                                  |
| Drucktaste              | Messing vernickelt                                                         |
| Dichtmaterial           | NBR                                                                        |
| Feder                   | rostfreier Stahl                                                           |
| Ausführung              | manuell betätigt                                                           |
| Lieferumfang            | mit Druckknopf                                                             |
| Symbol                  | 3                                                                          |

## Kaufmännische Daten

|                         |                  |
|-------------------------|------------------|
| Zolltarifnummer         | 84818079         |
| Ursprungsland           | DE               |
| eCl@ss 5.1.4            | 27291801         |
| eCl@ss 9.0              | 27291390         |
| UNSPSC_Code_v190501     | 40141603         |
| UNSPSC_CodeDesc_v190501 | Pneumatic valves |

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
- 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.

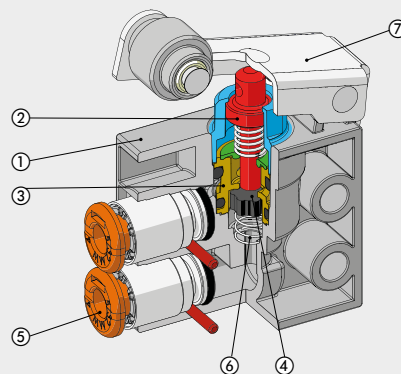


### TECHNICAL DATA

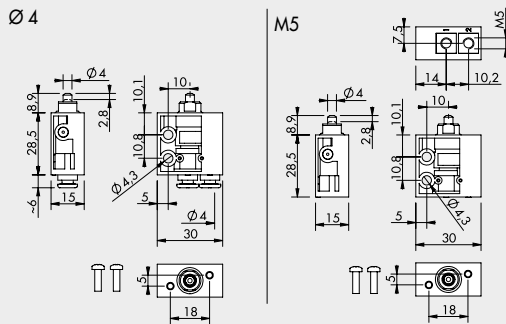
|                                                                          |              |                                                                                       |
|--------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|
| 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                                                            | NI/min · bar | 16.5                                                                                  |
| Critical ratio b                                                         | bar/bar      | 0.03                                                                                  |
| Flow rate at 6 bar ΔP 0.5 bar                                            | NI/min       | 35                                                                                    |
| Flow rate at 6 bar ΔP 1 bar                                              | NI/min       | 60                                                                                    |
| Actuation force – Plunger at 6 Bar                                       | N            | 8                                                                                     |
| Installation                                                             |              | In any position                                                                       |
| Compatibility with oils                                                  |              | See chapter Z1                                                                        |

### COMPONENTS

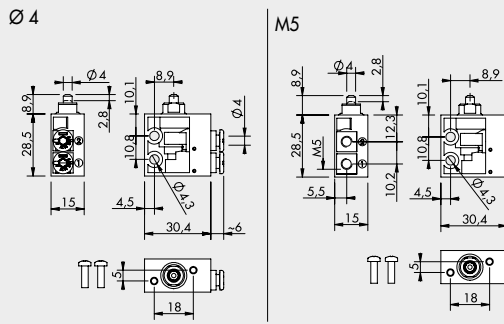
- ① VALVE BODY: technopolymer
- ② BUTTON: chemically nickel-plated brass
- ③ DISTANCE PLATES: brass
- ④ GASKETS: NBR
- ⑤ PUSH-IN FITTING CARTRIDGES: stainless steel, brass and plastic
- ⑥ SPRINGS: stainless steel
- ⑦ LEVER: nickel-plated steel



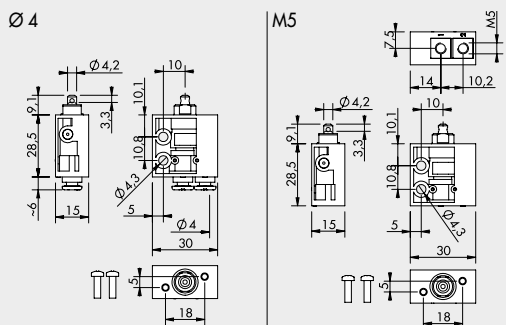
B1.4

**PLUNGER 3/2 NO - AXIAL FITTINGS**


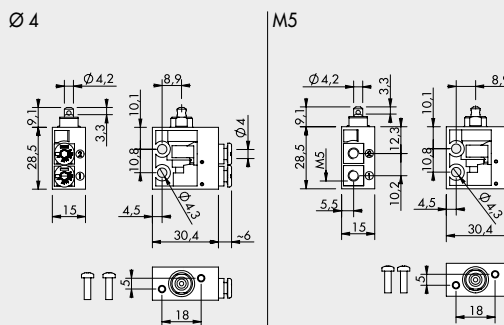
| Symbol                                                                            | Code        | Description    | Weight [g] |
|-----------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501000101 | VME1-10 NO Ø 4 | 22  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

**PLUNGER 3/2 NO - SIDE FITTINGS**


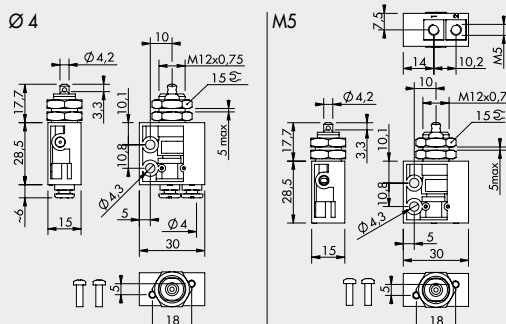
| Symbol                                                                              | Code        | Description    | Weight [g] |
|-------------------------------------------------------------------------------------|-------------|----------------|------------|
|    | W3501001100 | VME2-00 NO Ø 4 |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

**PLUNGER 3/2 NC - AXIAL FITTINGS**


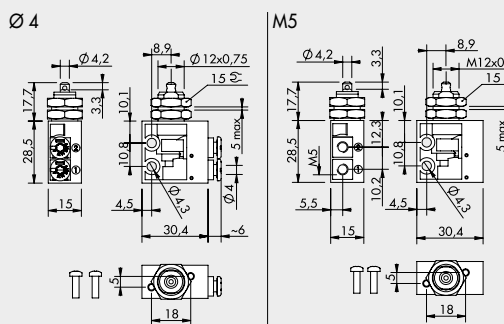
| Symbol                                                                              | Code        | Description    | Weight [g] |
|-------------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501000100 | VME1-01 NC Ø 4 | 22         |
|  | 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         |

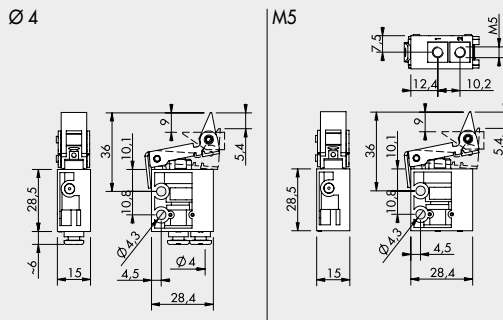
**PLUNGER FOR WALL MOUNTING, 3/2 NC - SIDE FITTINGS**


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

**VALVES**

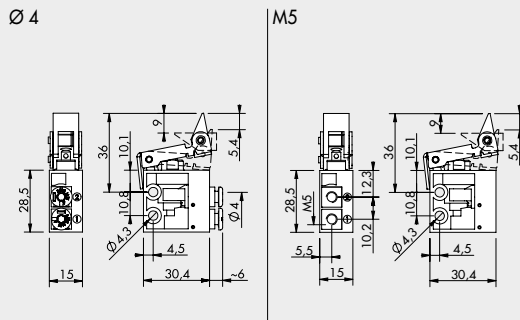
MINIVALVES, MECHANICALLY AND HAND OPERATED SERIES VME

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



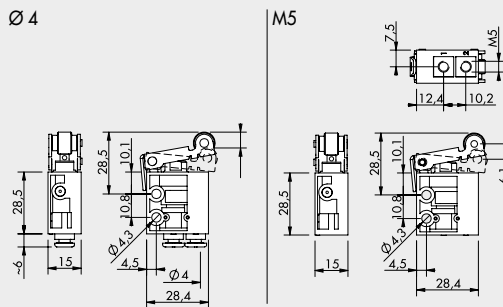
| Symbol                                                                            | Code        | Description    | Weight [g] |
|-----------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501000300 | VME1-03 NC Ø 4 | 38  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

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



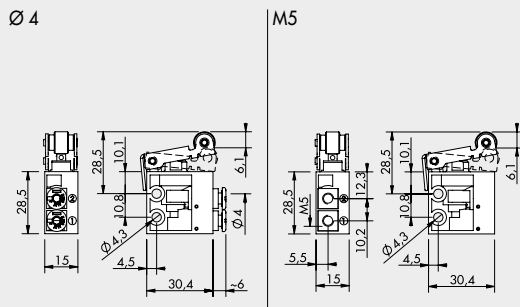
| Symbol                                                                            | Code        | Description    | Weight [g] |
|-----------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501001301 | VME2-03 NC Ø 4 | 38  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

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



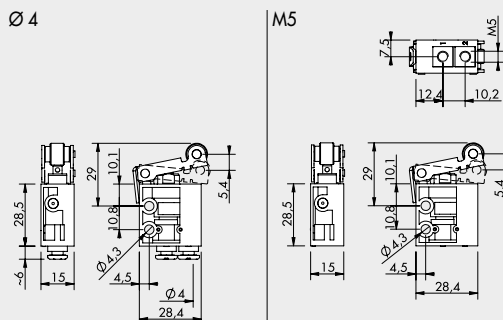
| Symbol                                                                              | Code        | Description    | Weight [g] |
|-------------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501000201 | VME1-05 NO Ø 4 | 36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

## ROLLER LEVER, 3/2 NO - SIDE FITTINGS



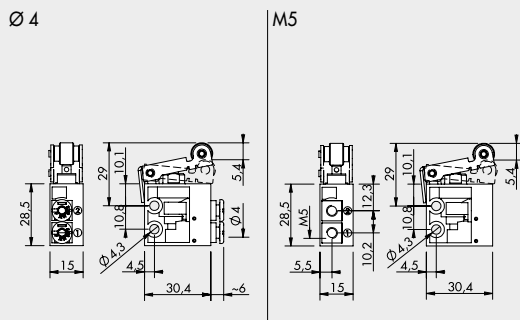
| Symbol                                                                              | Code        | Description    | Weight [g] |
|-------------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501001200 | VME2-05 NO Ø 4 | 36         |
|  | 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

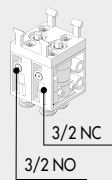


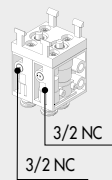
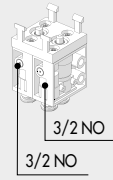
| Symbol                                                                              | Code        | Description    | Weight [g] |
|-------------------------------------------------------------------------------------|-------------|----------------|------------|
|  | W3501001201 | VME2-02 NC Ø 4 | 36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

**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         |

| Rif. | Symbol                                                                              | Code        | Description                                                  | Weight [g] |
|------|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------|------------|
| 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                                        |            |

## Zubehör

|                                                                                                                                    | Artikel Nr. | Typen Nr.   |
|------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| Stößelventil, 3/2-Wege, monostabil, NC, G 1/8                                                                                      | 106441      | 515.101     |
| Kurzer Drehhebel, schwarz, 2 Stellungen, monostabil                                                                                | 106446      | KDH-2M      |
| Kurzer Drehhebel, schwarz, 3 Stellungen, monostabil                                                                                | 106448      | KDH-3M      |
| Kurzer Drehhebel, schwarz, 2 Stellungen, bistabil                                                                                  | 106447      | KDH-2B      |
| Kurzer Drehhebel, schwarz, 3 Stellungen, bistabil                                                                                  | 106449      | KDH-3B      |
| Langer Drehhebel, schwarz, 2 Stellungen, monostabil                                                                                | 106450      | LDH-2M      |
| Langer Drehhebel, schwarz, 3 Stellungen, monostabil                                                                                | 106452      | LDH-3M      |
| Langer Drehhebel, schwarz, 2 Stellungen, bistabil                                                                                  | 106451      | LDH-2B      |
| Langer Drehhebel, schwarz, 3 Stellungen, bistabil                                                                                  | 106453      | LDH-3B      |
| Handhebel, rot, monostabil                                                                                                         | 106445      | HH-M        |
| Verschließbarer 2-Stellungsschalter mit Schlüsselabzug in jeder Stellung                                                           | 106454      | V2SS-JS     |
| Verschließbarer 2-Stellungsschalter mit Schlüsselabzug in Grundstellung                                                            | 106455      | V2SS-GS     |
| Roter Pilztaster, monostabil                                                                                                       | 106456      | RPT-M       |
| Roter Pilztaster mit Notrastung                                                                                                    | 106457      | RPT-NR      |
| 3/2-Wege-Miniaturventil, mechanisch, Stößel, NO, Anschluss 4 mm seitlich, Betriebsdr. 0,5 - 10 bar, Betriebstemp. -10 °C bis 60 °C | 153971      | W3501001100 |

## Ersatzteil

|                                                                                                                                    | Artikel Nr. | Typen Nr.   |
|------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| 3/2-Wege-Miniaturventil, mechanisch, Stößel, NC, Anschluss 4 mm seitlich, Betriebsdr. 0,5 - 10 bar, Betriebstemp. -10 °C bis 60 °C | 153973      | W3501001101 |
| Adapter max.2 Ventile, für Montage auf Grundventil notwendig                                                                       | 106443      | A2V         |
| Druckknopf mit roter und schwarzer Scheibe, monostabil                                                                             | 106444      | DK-M        |