# SOLENOID VALVES PIV ON BASE

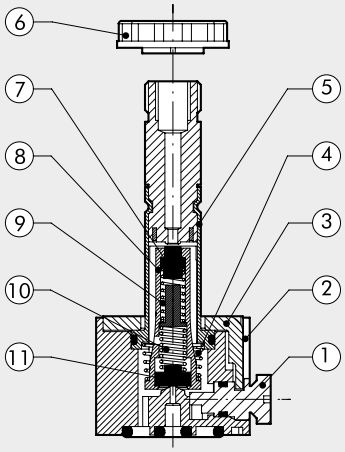


- PIV.I - PIV.T and PIV.B solenoid valves
- Assembly on base
- Bistable manual actuation
- Normally closed/normally open solenoid valves 2/2 – 3/2
- Installation in any position
- Particularly suitable for high operating frequencies and low response times

| TECHNICAL DATA | | PIV.I ON BASE | PIV.T ON BASE | PIV.B ON BASE |
|---|---|---|---|---|
| Absorption | | 5W - 5VA | 3.8W - 6.5VA | 10W - 13VA |
| Voltage available | | 12-24 VDC / 24-110-220 VAC | 24VDC / 24-110-220 VAC | 24VDC / 24-110-220 VAC |
| | | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Voltage tolerance | % | –10 to +15 | –10 to +15 | –10 to +15 |
| Max operating frequency | Hz | 30 | 30 | 15 |
| Solenoid rating | % | 100 | 100 | 100 |
| Response time | ms | 8 to 15 | 8 to 15 | 10 to 15 |
| Type of protection | | IP 65 | IP 65 | IP 65 |
| Type of coil | | Coil side 22 Ø 8 | Coil side 22 Ø 9 | Coil side 30 |
| | | DIN 43650 | DIN 43650 | DIN 43650 |
| Insulation class | | 155 | 155 | 155 |
| Ambient temperature | °C | –15 to 50 | –15 to 50 | –15 to 50 |
| Fluid temperature | °C | –15 to 50 | –15 to 50 | –15 to 50 |
| Fluid | | Filtered lubricated | Filtered lubricated | Filtered lubricated |
| | | or unlubricated air | or unlubricated air | or unlubricated air |
| Woking life | | 25 million cycles | 25 million cycles | – |
| Weight | g | 80 to 120 (according to the version) | 85 | 250 |
| Maximum coil nut torque | Nm | 1 | 1 | 1 |

## COMPONENTS

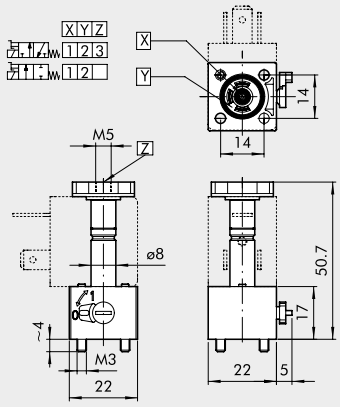
① Manual control: technopolymer
② Body: technopolymer
③ Sleeve locking plate
④ Spring: stainless steel
⑤ Sleeve: brass OT 58
⑥ Ring nut for coil fixing
⑦ Gasket: NBR
⑧ Mobile core
⑨ Spring: stainless steel
⑩ Spring: stainless steel
⑪ Gasket: NBR

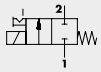
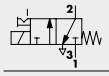


METAL WORK PNEUMATIC

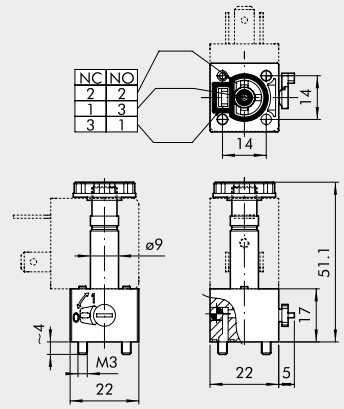


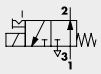
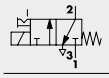
## PIV.I VALVES, OPERATOR Ø 8, ON BASE



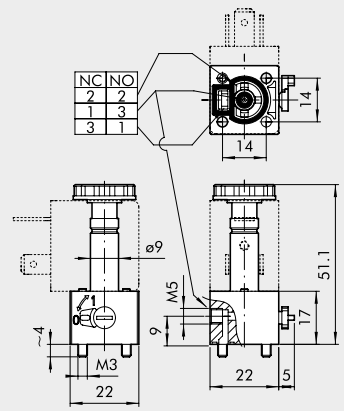

| Symbol | Code | Description | Air hole Ø [mm] | kv Factor | Max oper. pressure [bar] DC 5W | AC 5VA |
|---|---|---|---|---|---|---|
|  | W4018000200 | PIV42I0S NC | 1.2 | 0.65 | 10 | 10 |
| | W4018000300 | PIV72I0S NC | 1.5 | 1 | 8 | 8 |
|  | W4018001200 | PIV43I0S NC | 1.2 | 0.65 | 10 | 10 |
| | W4018001300 | PIV73I0S NC | 1.5 | 1 | 8 | 8 |

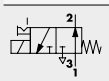
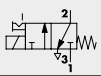
## PIV.T VALVES, OPERATOR Ø 9, ON BASE




| Symbol | Code | Description | Air hole Ø [mm] | kv Factor | Pressure range [bar] DC 3.8W | AC 6.5VA |
|---|---|---|---|---|---|---|
|  | W4025002101 | PIV73T0B NO | 1.6 | 0.75 | 0.5 to 7 | 0.5 to 7 |
| | W4025002301 | PIV83T0B NO | 1.8 | 0.85 | 0.5 to 6.5 | 0.5 to 6.5 |
|  | W4025002100 | PIV73T0B NC | 1.6 | 0.8 | 0.5 to 10 | 0.5 to 10 |
| | W4025002300 | PIV83T0B NC | 1.8 | 1 | 0.5 to 8 | 0.5 to 8 |

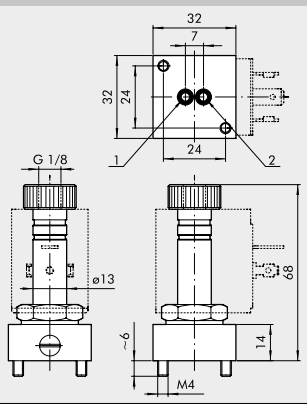
## PIV.T VALVES, OPERATOR Ø 9, ON BASE WITH CONVEYED EXHAUST

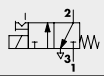



| Symbol | Code | Description | Air hole Ø [mm] | kv Factor | Pressure range [bar] DC 3.8W | AC 6.5VA |
|---|---|---|---|---|---|---|
|  | W4025002001 | PIV73T00 NO | 1.6 | 0.75 | 0.5 to 7 | 0.5 to 7 |
| | W4025002501 | PIV83T00 NO | 1.8 | 0.85 | 0 to 6 | 0.5 to 6.5 |
|  | W4025002000 | PIV73T00 NC | 1.6 | 0.8 | 0.5 to 10 | 0.5 to 10 |
| | W4025002500 | PIV83T00 NC | 1.8 | 1 | 0.5 to 8 | 0.5 to 8 |

## PIV.B VALVES, OPERATOR Ø 13, ON BASE

NORMALLY CLOSED



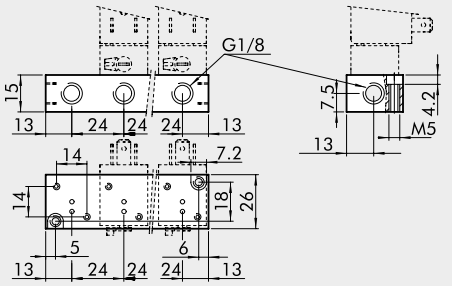

| Symbol | Code | Description | Air hole Ø [mm] | kv Factor | Max oper. pressure [bar] DC 10W | AC 13VA |
|---|---|---|---|---|---|---|
|  | W4026003000 | PIVY3B0S NC | 2.4 | 2.2 | 8 | 10 |

## SYNOPTIC, SIZES AND VERSIONS

| P I V<br>FAMILY | 7<br>AIR HOLE | 3<br>NUMBER OF WAYS | T<br>CONNECTION | 0<br>THREAD | O<br>VERSION | N C<br>FURTHER DETAILS |
|---|---|---|---|---|---|---|
| | **4** 1.2 mm<br>**7** 1.6 mm<br>**8** 1.8 mm<br>**Y** 2.4 mm | **2** 2 ways<br>**3** 3 ways | **I** 22x22 operator Ø 8<br>**T** 22x22 operator Ø 9<br>**B** 30x30 operator Ø 13 | **0** on base | **O** on base with conveyed exhaust<br>**B** on base<br>**S** standard | **NC** normally closed<br>**NO** normally open |

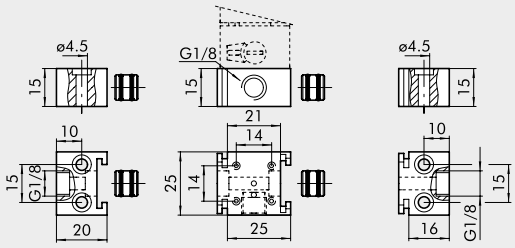
# ACCESSORIES

## MULTIPLE BASES FOR PIV.I SOLENOID VALVES, OPERATOR Ø 8



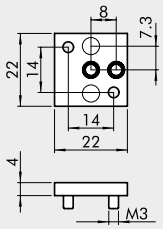

| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400111101 | Base 1 position | EB 6001 | 22 |
| W0400111102 | Base 2 positions | EB 6002 | 50 |
| W0400111103 | Base 3 positions | EB 6003 | 76 |
| W0400111104 | Base 4 positions | EB 6004 | 102 |
| W0400111105 | Base 5 positions | EB 6005 | 128 |
| W0400111106 | Base 6 positions | EB 6006 | 154 |
| W0400111107 | Base 7 positions | EB 6007 | 180 |
| W0400111108 | Base 8 positions | EB 6008 | 206 |
| W0400111109 | Base 9 positions | EB 6009 | 232 |
| W0400111110 | Base 10 positions | EB 6010 | 258 |

## MANIFOLD BASES FOR PIV.I SOLENOID VALVES, OPERATOR Ø 8



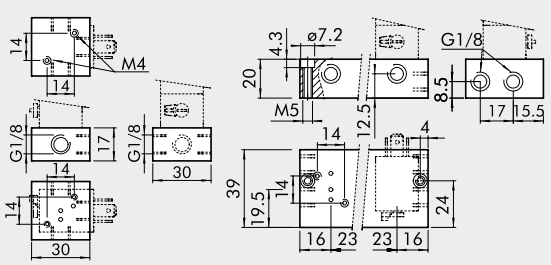

| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400111200 | Manifold base | EB 8000 I | 24 |
| W0400111201 | LH end plate | EB 8000 TI | 17 |
| W0400111202 | RH end plate | EB 8000 T2 | 15 |

## BLANKING PLATE FOR PIV.I PIV.T VALVES, UNUSED POSITION




| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400112000 | Unused position | B 6000 | 5 |

## MULTIPLE BASES FOR PIV.T SOLENOID VALVES, OPERATOR Ø 9




| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400101101 | Base 1 position | 19001 | 36 |
| W0400101102 | Base 2 positions | 19002 | 104 |
| W0400101103 | Base 3 positions | 19003 | 148 |
| W0400101104 | Base 4 positions | 19004 | 192 |
| W0400101105 | Base 5 positions | 19005 | 236 |
| W0400101106 | Base 6 positions | 19006 | 280 |
| W0400101107 | Base 7 positions | 19007 | 324 |
| W0400101108 | Base 8 positions | 19008 | 368 |
| W0400101109 | Base 9 positions | 19009 | 452 |
| W0400101110 | Base 10 positions | 19010 | 456 |

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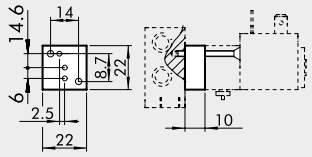
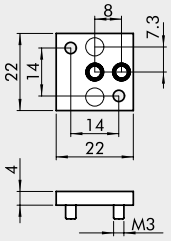
## NC/NO ADAPTER FOR PIV.T VALVES



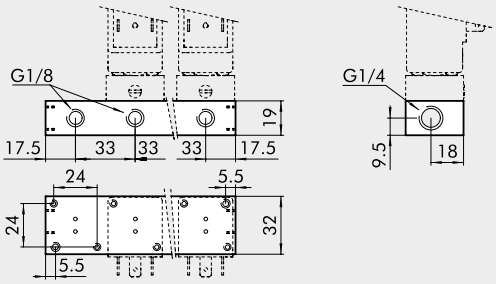

| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400101190 | NC/NO adapter | I-9000 | 15 |

## BASE BLANKING PLATE FOR PIV.T VALVES, UNUSED POSITIONS



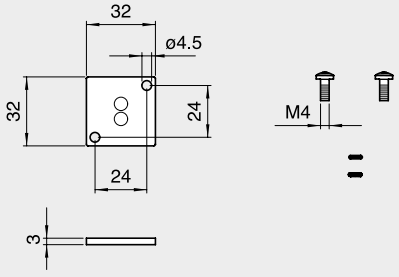

| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400112000 | Blanking plate | B6000 | 5 |

## MULTIPLE BASES FOR PIV.B VALVES



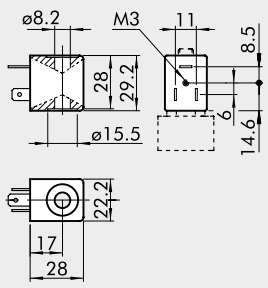

| Code | Description | Abbrev. | Weight [g] |
|---|---|---|---|
| W0400101201 | Base 1 position | B4001 | 42 |
| W0400101202 | Base 2 positions | B4002 | 94 |
| W0400101203 | Base 3 positions | B4003 | 142 |
| W0400101204 | Base 4 positions | B4004 | 188 |
| W0400101205 | Base 5 positions | B4005 | 234 |
| W0400101206 | Base 6 positions | B4006 | 280 |
| W0400101207 | Base 7 positions | B4007 | 326 |
| W0400101208 | Base 8 positions | B4008 | 372 |
| W0400101209 | Base 9 positions | B4009 | 418 |

## BASE BLANKING PLATE FOR PIV.B VALVES, UNUSED POSITIONS




| Code | Description | Weight [g] |
|---|---|---|
| W0400112001 | Blanking plate | 14 |

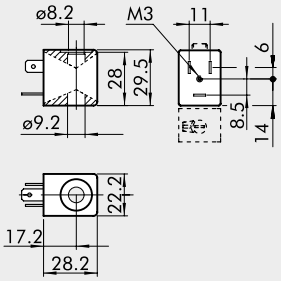
## COILS, SIDE 22 mm FOR PIV.I SOLENOID VALVES, OPERATOR Ø 8




- Voltage tolerance: –10 to +15%
- Insulation class: F155
- Degree of protection: IP65 – EN60529 with connector
- Avoid prolonged exposure to the atmospheric agents.
- Maximum coil temperature at 100% use: 70°C at 20° ambient temperature
- According to Atex 2014/34/EU rule, group 2, category 3 GD

| Code | Abbrev. | Nominal voltage | Absorption | |
|---|---|---|---|---|
| | | | Inrush | Holding |
| W0215000051 | Coil 22 Ø 8 5W-12VDC | 12Vcc | 5W | 5W |
| W0215000001 | Coil 22 Ø 8 5W-24VDC | 24Vcc | 5W | 5W |
| W0215000011 | Coil 22 Ø 8 5VA-24VAC | 24V 50/60Hz | 8VA | 5VA |
| W0215000021 | Coil 22 Ø 8 5VA-110VAC | 110V 50/60Hz | 8VA | 5VA |
| W0215000031 | Coil 22 Ø 8 5VA-220VAC | 220V 50/60Hz | 8VA | 5VA |

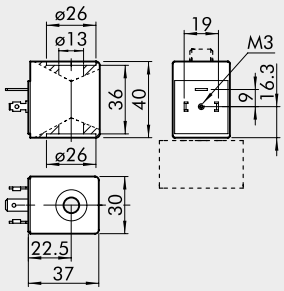
## COILS, SIDE 22 mm FOR PIV.T SOLENOID VALVES, OPERATOR Ø 9




- Voltage tolerance: –10 to +15%
- Insulation class: F155
- Degree of protection: IP65 – EN60529 with connector
- Avoid prolonged exposure to the atmospheric agents
- Maximum coil temperature at 100% use: 70°C at 20° ambient temperature
- According to Atex 2014/34/EU rule, group 2, category 3 GD

| Code | Abbrev. | Nominal voltage | Absorption | |
|---|---|---|---|---|
| | | | Inrush | Holding |
| **W0216000001** | Coil 22 Ø9 3.8W-24VDC | 24Vcc | 3.8W | 3.8W |
| **W0216000011** | Coil 22 Ø9 6.5VA-24VAC | 24V 50/60Hz | 9VA | 6.5VA |
| **W0216000021** | Coil 22 Ø9 6.5VA-110VAC | 110V 50/60Hz | 9VA | 6.5VA |
| **W0216000031** | Coil 22 Ø9 6.5VA-220VAC | 220V 50/60Hz | 9VA | 6.5VA |

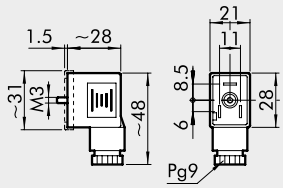
## COILS, SIDE 30 mm FOR PIV.B SOLENOID VALVES




- Voltage tolerance: –10 to +15%
- Insulation class: M180
- Degree of protection: IP65 – EN60529 with connector
- Avoid prolonged exposure to the atmospheric agents
- According to Atex 2014/34/EU rule, group 2, category 3 GD

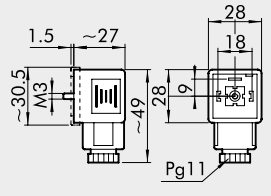
| Code | Abbrev. | Nominal voltage | Power absorption (average power input) |
|---|---|---|---|
| **W0216001001** | Coil 30 Ø13 10W-24VDC | 24Vcc | 10W |
| **W0216001011** | Coil 30 Ø13 13VA-24VAC | 24V 50/60Hz | 13VA |
| **W0216001021** | Coil 30 Ø13 13VA-110VAC | 110V 50/60Hz | 13VA |
| **W0216001031** | Coil 30 Ø13 13VA-220VAC | 220V 50/60Hz | 13VA |

## CONNECTORS, SIDE 22 mm FOR PIV.I-PIV.T




| Code | Type | Colour | Ø Cable |
|---|---|---|---|
| **W0970510011** | Standard | Black | PG9 |
| **W0970510012** | LED 24V | Transparent | PG9 |
| **W0970510013** | LED 110V | Transparent | PG9 |
| **W0970510014** | LED 220V | Transparent | PG9 |
| **W0970510015** | LED + VDR 24V | Transparent | PG9 |
| **W0970510016** | LED + VDR 110V | Transparent | PG9 |
| **W0970510017** | LED + VDR 220V | Transparent | PG9 |
| **W0970510070** | Atex II 2 GD | Black | PG9 |

## CONNECTORS, SIDE 30 mm FOR PIV.B




| Code | Type | Colour | Ø Cable |
|---|---|---|---|
| **W0970520033** | Standard | Black | PG11 |
| **W0970520034** | LED 24V | Transparent | PG11 |
| **W0970520035** | LED 110V | Transparent | PG11 |
| **W0970520036** | LED 220V | Transparent | PG11 |
| **W0970520037** | LED + VDR 24V | Transparent | PG11 |
| **W0970520038** | LED + VDR 110V | Transparent | PG11 |
| **W0970520039** | LED + VDR 220V | Transparent | PG11 |

# SOLENOID VALVES PIV IN LINE



- PIV.I – PIV.B in-line solenoid valves
- Threaded ports: M5, G1/8", G1/4"
- 2/2 – 3/2 solenoid valves - normally closed/normally open
- Installation in any position
- Particularly suitable for high operating frequencies and low response times.

| TECHNICAL DATA | | PIV.I IN LINE | PIV.B IN LINE |
|---|---|---|---|
| Absorption | | 5W to 5VA | 10W - 13VA |
| Voltage available | | 12; 24VDC - 24; 110; 220VAC 50/60Hz | 24VDC - 24; 110; 220VAC 50/60 Hz |
| Voltage tolerance | % | –10 to 15 | –10 to 15 |
| Max operating frequency | Hz | 30 | 15 |
| Solenoid rating | % | 100 | 100 |
| Response time | ms | 8 to 15 | 10 to 15 |
| Type of protection | | IP 65 | IP 65 |
| Type of coil | | Coil side 22 Ø 8 DIN 43650 | Coil side 30 DIN 43650 |
| Insulation class | | 155 | 155 |
| Ambient temperature | °C | –15 to 50 | –15 to 50 |
| Fluid temperature | °C | –15 to 50 | –15 to 50 |
| Fluid | | Filtered lubricated or unlubricated air | Filtered lubricated or unlubricated air |
| Working life | | 25 million cycles | – |
| Weight | | 35 to 40 (depending on version) | 130 |
| Maximum coil/nut torque | Nm | 1 | 1 |

**Note on use:**
The 2/2 NC and 2/2 NO valves work only with inlet pressure ≥ outlet pressure.

## COMPONENTS

① Body: aluminium
② Springs: steel
③ Sleeve
④ Gasket: NBR
⑤ Springs: steel
⑥ Mobile core
⑦ Gasket: FKM/FPM
⑧ Coil locking ring