

3/2-Way; sub-base connection; DN 1,5–2,0 mm



Advantages/Benefits

- ▶ Coil can be changed easy with valve in place
- ▶ Coil can be locked in 4x 90° positions or move freely between, as required
- ▶ Medium is only in contact with the valve internals and body
- ▶ High-quality seal material FKM standard
- ▶ Wide range of cable plug options Type 2508

Design/Function

The valves are based on a modular concept comprising three basic elements; Valve assembly, push-over coil and standard cable plug. The valve assembly consists of a body to which the armature guide tube containing the plunger, seals and springs is attached.

The coil is pushed over the guide tube and thus isolated from the medium.

The medium is only in contact with the valve internals and body.

Valves are available in polyamide. All valves have high quality FKM seals as standard.

To simplify ordering, a wide selection of standard combinations of valve body, push over coil and standard cable plug can be ordered with one order number.

Cable plug options of Type 2508 are available to suit special electrical application requirements.

- The modular concept provides flexibility to meet applications requirements.
- The valve are interchangeable with Type 312.

Applications

Fluids

Compressed air

Suitable for technical vacuum

Applications

- General Pneumatic
- Control of process valves
- Pilot control valve for pneumatic directional control valves
- Control of cylinders

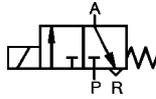
burkert
Easy Fluid Control Systems

Technische Daten Type 6014

Circuit function

C 3/2-way valve,
when de-energized, outlet A
pressure relieved

Symbol



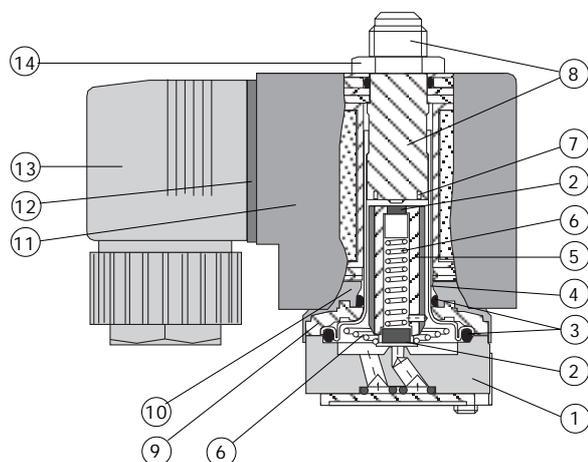
Operating Data (Valve)

| | |
|--------------------------|---|
| Pressure range | 0-10 bar (see specifications) |
| Port connection | Sub-base connection |
| Orifice | DN 1,5 mm |
| Fluid | Compressed air |
| | Suitable for techn. vacuum |
| Medium temperature | -10 bis +60 °C |
| Max. ambient temperature | +55 °C |
| Max. viscosity | 21 mm ² /s |
| Response times | |
| opening | AC 10-15 ms; DC 15-20 ms |
| closing | AC 15-20 ms; DC 10-22 ms |
| Installation | as required, but preferably with solenoid system upright |

Operating Data (Actuator)

| | |
|-----------------------------------|---|
| Operating voltages | AC 24, 110, 230 V/50 Hz, DC 12, 24 V/= |
| Voltage tolerance | ±10 % |
| Power consumption | AC inrush AC hold DC |
| 32 mm-coil | 20 VA 13 VA/5 W 5 W |
| Duty cycle | 100 % continuously rated |
| Duty cycle for multiple manifolds | 100 % continuously rated |
| Cycling rate | up to 1 200 c.p.m. |
| Rating with cable plug | IP 65 |
| Electr. connection | Delivery standard: Cable plug DIN 43 650 A, 0-250 V (Other versions see accessories) |

Materials



| | |
|------------------------|--------------------------------|
| 1 Valve body: | Polyamide |
| 2 Plunger seal: | FKM |
| 3 O-rings: | FKM |
| 4 Armature guide tube: | 1.4303 |
| 5 Plunger: | 1.4105 |
| 6 Spring: | 1.4310 |
| 7 Shading ring: | Cu (copper) |
| 8 Stopper: | 1.4105 |
| 9 Flange: | Zn3 gl cC (surface) |
| 10 Bonnet: | Durethan BKV30H |
| 11 Coil: | PA (Polyamide) |
| 12 Flat seal: | NBR |
| 13 Cable plug: | PA (Polyamide) |
| 14 Locknut: | 9SMnPb28K (surface Zn5glcA) |

Specifications - Ordering Chart (Other Versions on Request)

Type 6014; polyamide body (PA); coil 5W;

(with standard-cable plug 0-250 V AC/DC)

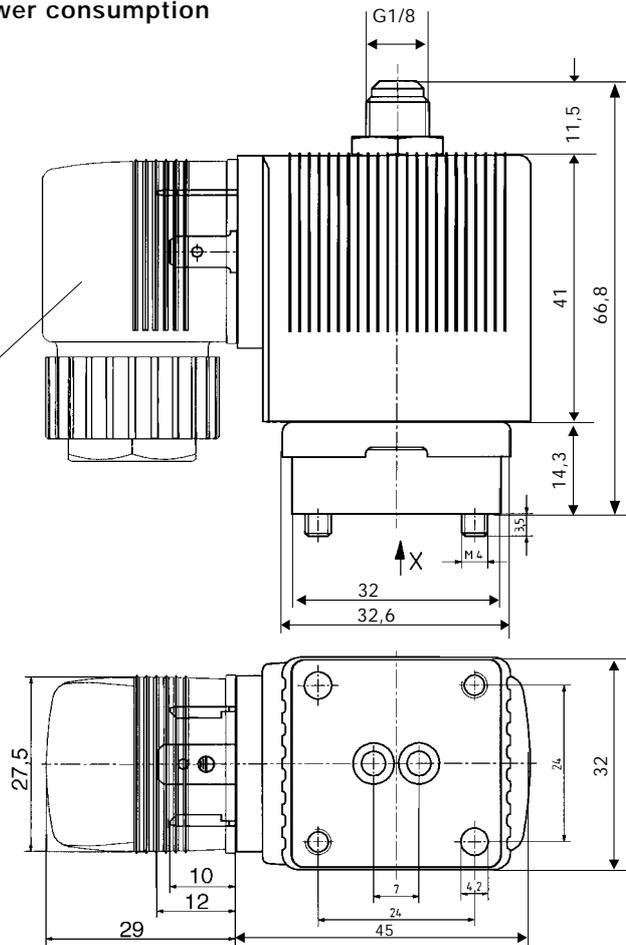
| Circuit function | Orifice [mm] | Q _{Nn} -value Air ¹⁾ [l/min] | Pressure range ²⁾ [bar] | Port connection | Voltage/frequency [V/Hz] | Weight [g] | Order-No. (without manual override) | Order-No. (with manual override) |
|------------------|--------------|--|------------------------------------|-----------------|--------------------------|------------|-------------------------------------|----------------------------------|
| C | 1,5 | 75 | 0-10 | Sub-base | 24/= | 260 | 126 390 T | 126 396 M |
| | | | | | 24/50 | | 126 391 Q | 126 397 N |
| | | | | | 110/50 | | 126 392 R | 126 398 X |
| | | | | | 230/50 | | 126 393 J | 126 399 Y |

¹⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C.
²⁾ All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Dimensions (in mm)

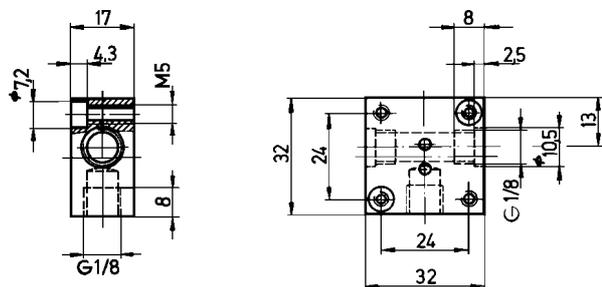
Solenoid coil: 5W power consumption

Cable plug DIN 43650, form A (0-250 V AC/DC) delivery standard



Dimensions Accessories (in mm)

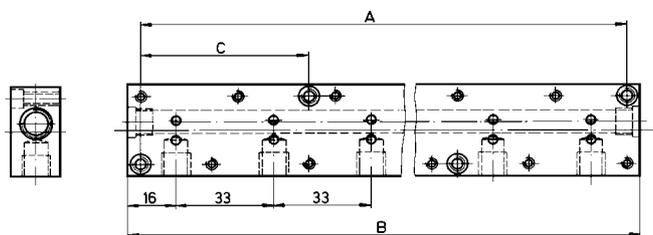
Single manifold



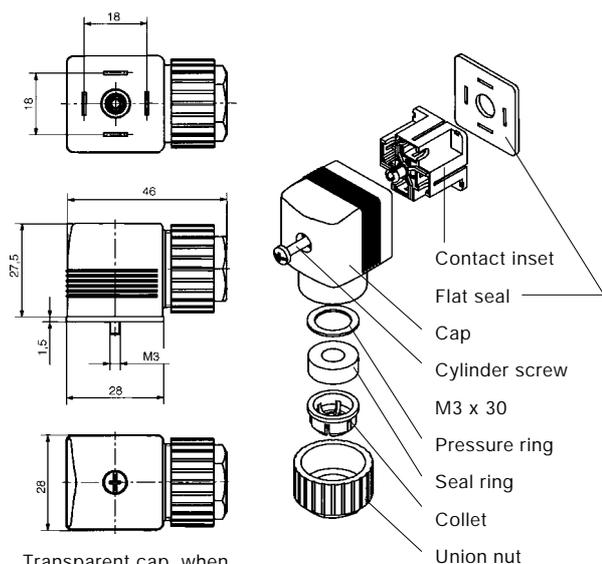
Multiple manifold

Manifolds mounted 5W-versions should be 100% continuously rated. 8W-versions should be limited to 60% duty cycle, 30 min switch-on time. The pressure port of the manifold is marked with P (R), the outlet port with A (B). Only similar ports can be coupled together. 3/2-way valves Type 6014 in circuit function C (not D and T) can be used with 2/2-way valve Type 6013, if the applied pressure corresponds to the valve. Unused connections to be plugged (see accessories). Manifolds may be coupled together using special push-fit O-ring connection nipples for linking the pressure inlets P (R). Manifolds joined together in this way should be securely mounted.

Multiple manifold



Standard cable plug



Transparent cap, when wired with LED

Ordering Chart for Manifolds/Accessories

| Device/Accessory | Features | | | Order-No. |
|-------------------------------|-----------------------|------------------|----------------|-----------|
| Single manifold | Aluminium | | | 005 020 W |
| Multiple manifold (aluminium) | Hole spacing A | Overall length B | Hole spacing C | |
| 2 valves | 57 | 65 | - | 005 023 M |
| 3 valves | 90 | 98 | - | 005 286 S |
| 4 valves | 123 | 131 | - | 005 287 T |
| 5 valves | 156 | 164 | 57 | 005 035 R |
| 6 valves | 189 | 197 | 57 | 005 038 U |
| 8 valves | 255 | 263 | 57 | 005 386 W |
| 10 valves | 321 | 329 | 90 | 005 764 G |
| Connector nipples | with O-rings | | | 005 040 A |
| Blanking screw | with seal ring, G 1/8 | | | 005 041 X |
| Blanking plug | with screws + O-ring | | | 005 630 E |

Ordering Chart for Accessories

| Device/Accessory | Features | Order-No. |
|--|---|-----------|
| Cable-plugs¹⁾ Type 2508 | Standard cable plug, 0-250 V AC/DC (standard-delivery) ¹⁾ | 008 376 N |
| | with LED, 12-24 V AC/DC | 008 360 S |
| | with LED, 100-120 V AC/DC | 008 361 P |
| | with LED + varistor, 12-24 V AC/DC | 008 367 M |
| | with LED + varistor, 100-120 V AC/DC | 008 368 W |
| | with LED + varistor, 200-240 V AC/DC | 008 369 X |
| | (optional wirings and connection specifications see data sheet Type 2508) | |

¹⁾ The standard cable plug (0-250 V AC/DC) Order-No. 008 376 N is part of the standard delivery. Ordering of optional cable plugs with separate ordering number.

A wide selection of further cable plugs is available (see special data sheet Type 2508)