

Pressure Equalising Valves

Model 910.25, for Differential Pressure Gauges

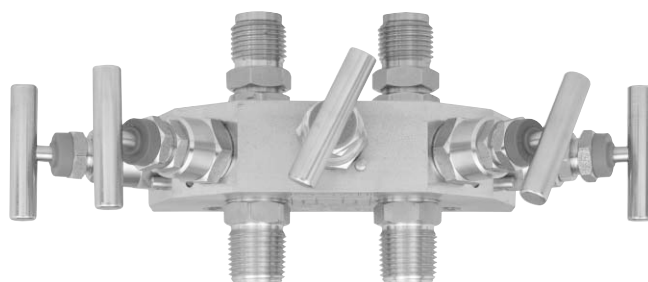
WIKA Data Sheet AC 09.11

Applications

- Isolating, pressure equalising as well as purging and air bleeding valves to fit differential pressure gauges, for the measurement of liquids, gases and vapours
- All stainless steel version for corrosive media and aggressive environments
- Process industries: mechanical engineering and plant construction, chemical/petro-chemical, power stations, mining, on- and offshores and environmental technology

Special Features

- One-way, three-way, four-way and five-way valves
- Tough versions in copper alloy and stainless steel
- PN 100 and 400 bar pressure rated valves with sealing cones at both sides
- High variety of process connections
- Pressure ratings up to 40, 100 or 400 bar



Five-way valve, PN 400

Description

One-way valves

By means of integrated pressure equalising valves it is ensured that the pressures on the high and low pressure sides are uniform, one-sided overpressure during start-up and operation of the pressure system is avoided and zero-inspection of the instrument during operation is possible.

Three-way valves

These pressure equalising valves with integrated isolating valves enable the isolation of the process lines without any interruption of the operation, the isolation of the pressure instrument for inspection or replacement purposes, the protection of the instrument against overpressure beyond the pressure rating of the instrument as well as the measurement of static pressure (after dismantling the differential pressure measuring instrument).

Four-way and five-way valves

These pressure equalising valves with integrated isolating valves as well as purging and air bleeding valves enable one- or two-sided air bleeding or purging of the system while the pressure instrument is operative.

Standard features PN 40 - Copper alloy (One-way and three-way valve)

For differential pressure gauges Model 712.20 and 716.11

Connection distance: 37 mm

Pressure rating PN: 40 bar

Nominal diameter DN: 3.5 mm

Operating temperature: - 20 ... + 90 °C

Exposed to pressure medium

Body, pressure gauge connection

and process connection: copper alloy

Spindle (replaceable)

with rigid single cone: stainless steel

Gland packing: O-ring NBR (Buna rubber)

Wheel

Thermoset plastic, Ø 40 mm

Pressure gauge connection

2 x union nut G ½

Process connection

2 x male pipe thread G ½ B

Optional extra

- Surface mounting bracket

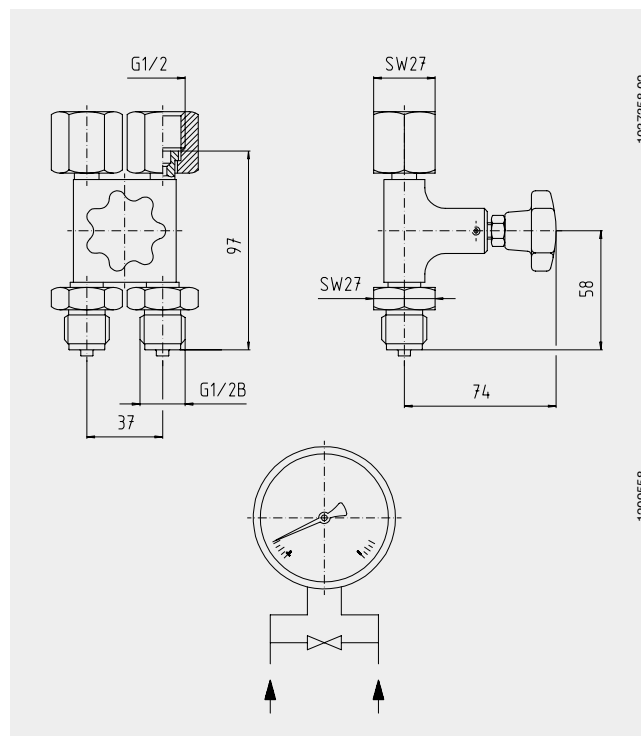
Product no.

Process connection	One-way valve	Three-way valve
G ½ B	8500525	8500550 ¹⁾

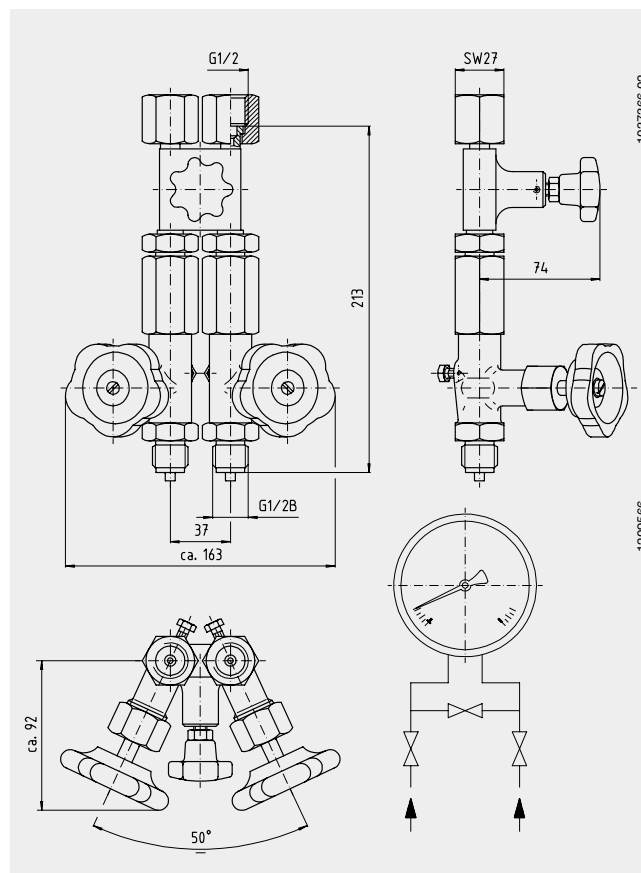
¹⁾ Composed of one-way valve No. 8500525 and two mounted isolating valves No. 9090169 (see data sheet AC 09.02)

Dimensions in mm

One-way valve PN 40



Three-way valve PN 40



Standard features PN 40

(Four-way valve)

For differential pressure gauges Model 702.01, 702.02, 851.02 and 891.34.2189

Connection distance: 30 mm (process side)

Pressure rating PN: 40 bar

Nominal diameter DN: 3.5 mm

Operating temperature: - 10 ... + 150 °C

Pressure gauge connection

2 x tube butt, diameter 6 mm

Process connection

2 x G 1/4 female

Copper alloy version

Exposed to pressure medium

Body, pressure gauge connection

and process connection: copper alloy

Valve element (replaceable): copper alloy

Spindle with rigid single cone

(spindle thread not exposed

to pressure medium): copper alloy

Gland packing: PTFE / Viton

Knurled screw

Copper alloy

Stainless steel version

Exposed to pressure medium

Body, pressure gauge connection

and process connection: stainless steel

Valve element (replaceable): stainless steel

Spindle with rigid single cone

(spindle thread not exposed

to pressure medium): stainless steel

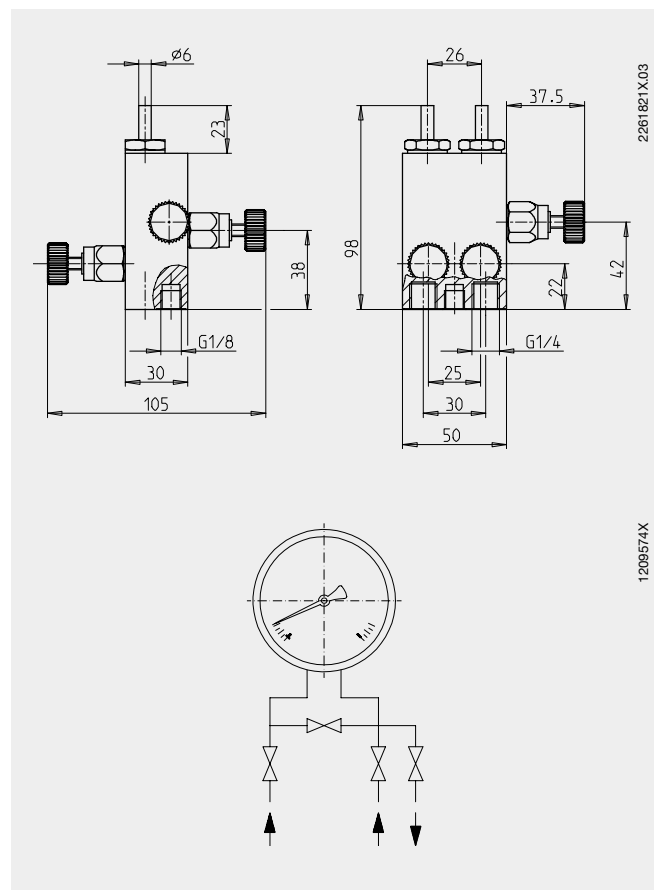
Gland packing: PTFE / Viton

Knurled screw

Stainless steel

Dimensions in mm

Four-way valve PN 40



Product no.

Material	Four-way valve
Copper alloy	2043567
Stainless steel	2043559

Standard features PN 100 - Stainless steel (One-way, three-way and five-way valve)

For differential pressure gauges Model 732.51 and 891.34.1998 resp. 736.51 and 736.11

Connection distance: 37 mm

Pressure rating PN: 100 bar

Nominal diameter DN: 3.5 mm

Operating temperature: - 20 ... + 250 °C

Exposed to pressure medium

Body, pressure gauge connection

and process connection: stainless steel

Valve element: stainless steel

Spindle with pivoted double cone: stainless steel

Gland packing: PTFE (Teflon)

Valve element (replaceable)

By means of a sealing cone at both open and close position the spindle gland is metallically sealed from the process with the valve completely open in order to relieve the spindle gland from the system pressure and therefore the spindle thread is not exposed to pressure medium.

Wheel

Stainless steel, Ø 10 x 44 mm

Pressure gauge connection

For Model 732.51 and 891.34.1998: 2 x press screw G ¼ B

For Model 736.51 and 736.11: 2 x union nut G ½

Process connection

2 x male pipe thread G ½ B, ½ NPT or M 20 x 1.5

Installation

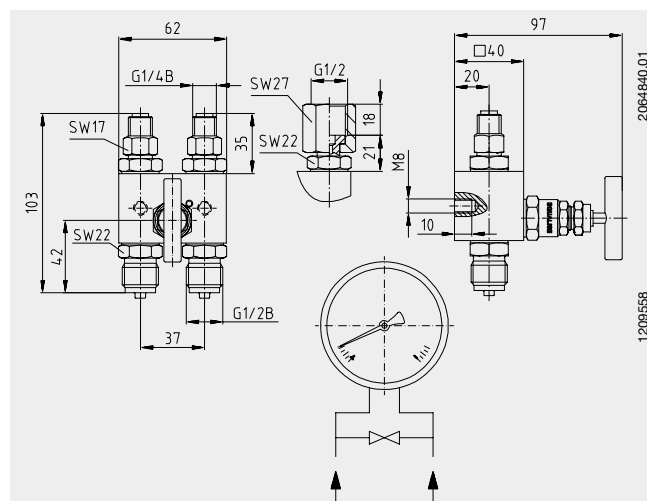
With blind bore 2 x M 8 to accept fixing bolts

Optional extras

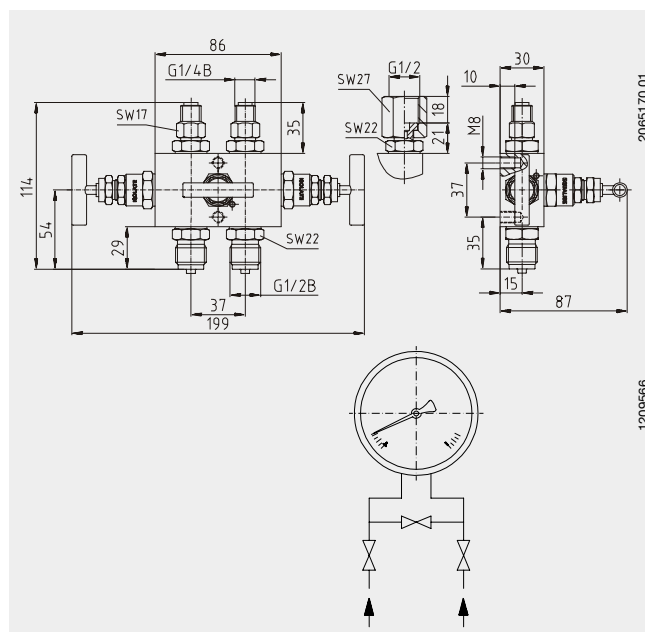
- Degreased for oxygen service
- Other process connections
- Monel version

Dimensions in mm

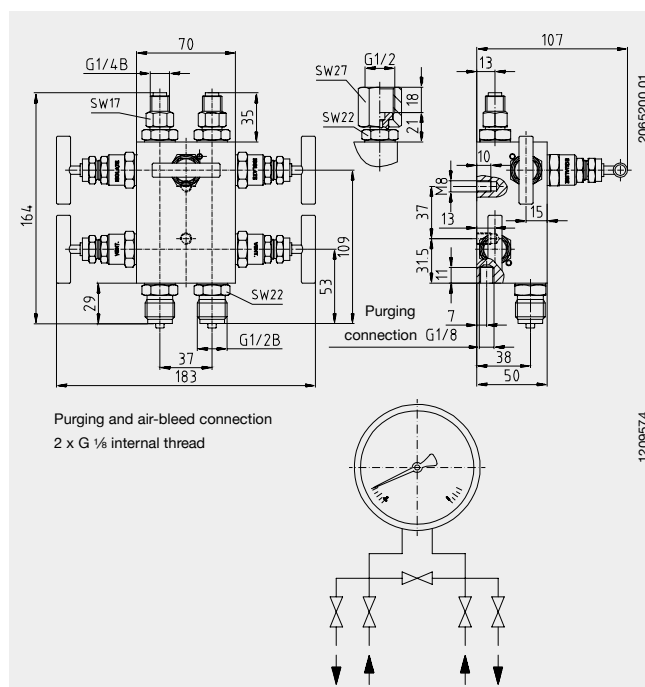
One-way valve PN 100



Three-way valve PN 100



Five-way valve PN 100



Product no. (valves for Model 732.51 / 891.34.1998)

Process connection	One-way valve	Three-way valve	Five-way valve
G ½ B	2020346	2011631	2020389
½ NPT	2020354	2011712	2020397

Product no. (valves for Model 736.51 / 736.11)

Process connection	One-way valve	Three-way valve
G ½ B	2020320	2430988
½ NPT	2020338	2409513
M 20 x 1.5	-	2051179

Standard features PN 400 - Stainless steel (One-way, three-way and five-way valve)

For differential pressure gauges Model 732.14 and 891.34.1884

Connection distance: 54 mm
Pressure rating PN: 400 bar
Nominal diameter DN: 3.5 mm
Operating temperature: - 20 ... + 250 °C

Exposed to pressure medium

Body, pressure gauge connection
and process connection: stainless steel
Valve element: stainless steel
Spindle with pivoted double cone: stainless steel
Gland packing: PTFE (Teflon)

Valve element (replaceable)

By means of a sealing cone at both open and close position the spindle gland is metallically sealed from the process with the valve completely open in order to relieve the spindle gland from the system pressure and therefore the spindle thread is not exposed to pressure medium.

Wheel

Stainless steel, Ø 10 x 44 mm

Pressure gauge connection

2 x press screw G ½ B

Process connection

2 x male pipe thread G ½ B or ½ NPT

Installation

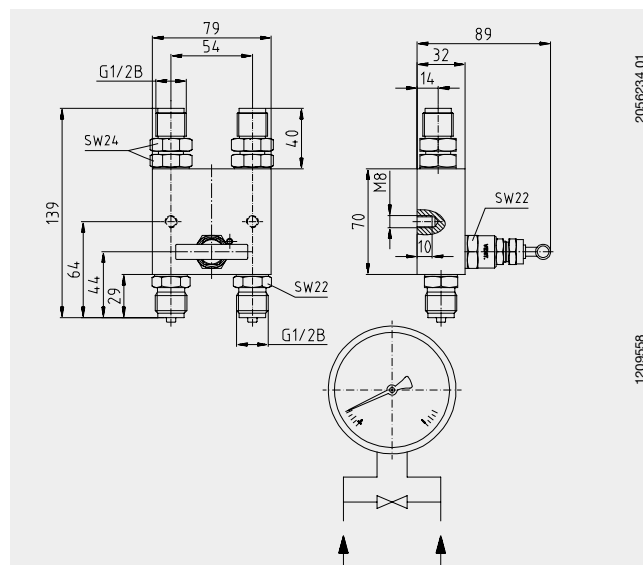
With blind bore 2 x M 8 to accept fixing bolts

Optional extras

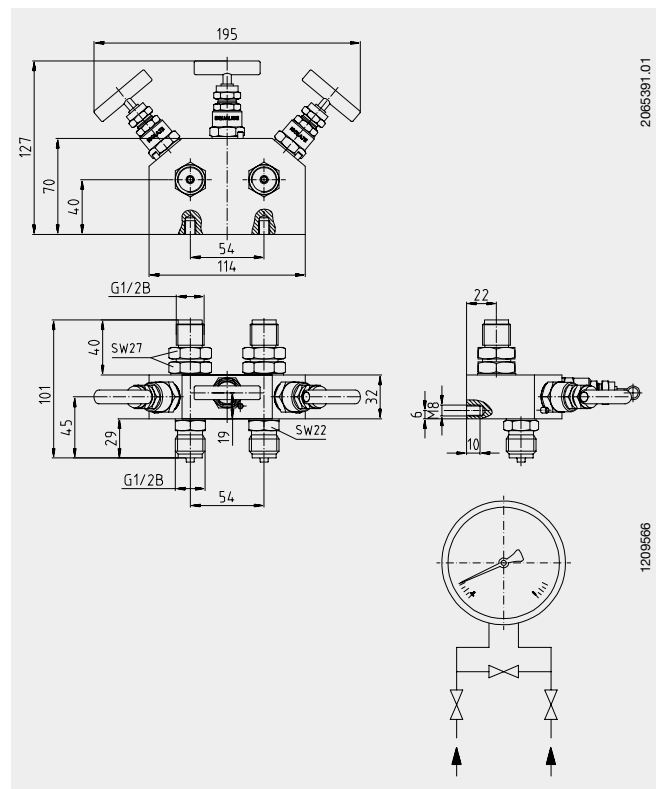
- Degreased for oxygen service (max. PN 100)
- Other process connections
- Monel version

Dimensions in mm

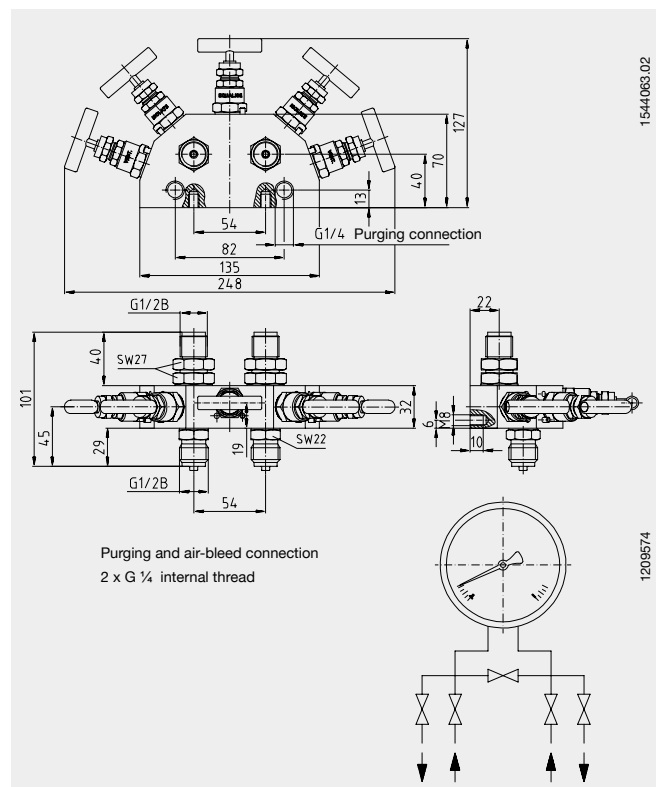
One-way valve PN 400



Three-way valve PN 400



Five-way valve PN 400



Product no. (valves for Model 732.14 / 891.34.1884)

Process connection	One-way valve	Three-way valve	Five-way valve
G ½ B	2049965	2020427	2020486
½ NPT	2049974	2020444	2020494

Ordering information

To order the described products the 7 - digit product number is sufficient. Optional extras required.

Modifications may take place and materials specified may be replaced by others without prior notice.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.



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