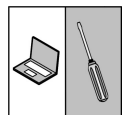
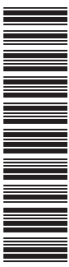


## Data sheet

### DZ23/DZ24

3/4 spindle equalising and shut-off valve

09005551 • DB\_EN\_DZ23-24 • Rev. ST4-A • 01/24



# 1 Product and functional description

## 1.1 Performance characteristics

- Fitting for the connection and commissioning of differential pressure transmitters.
- Lead-sealable or removable hand wheels.

### Typical applications

- Process industry
- General plant engineering
- Chemical industry
- Petrochemical industry
- Power plants

## 1.2 Product summary

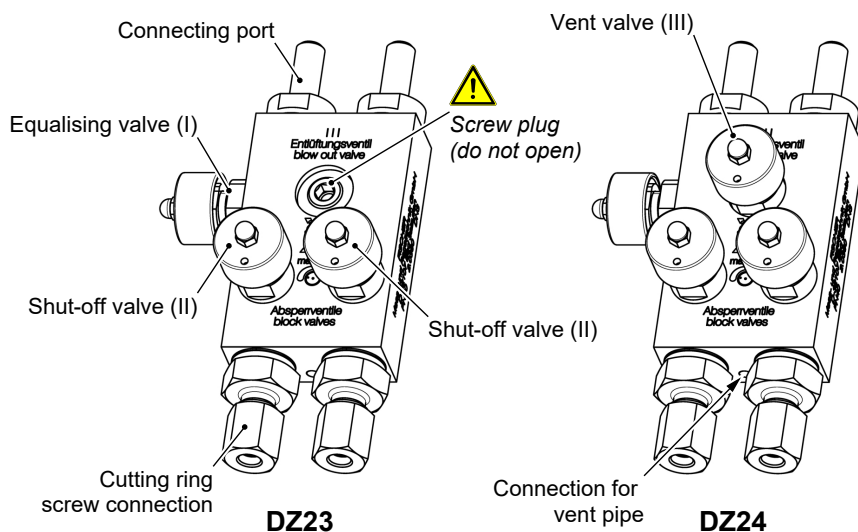


Fig. 1: Product summary

## 1.3 Function diagram

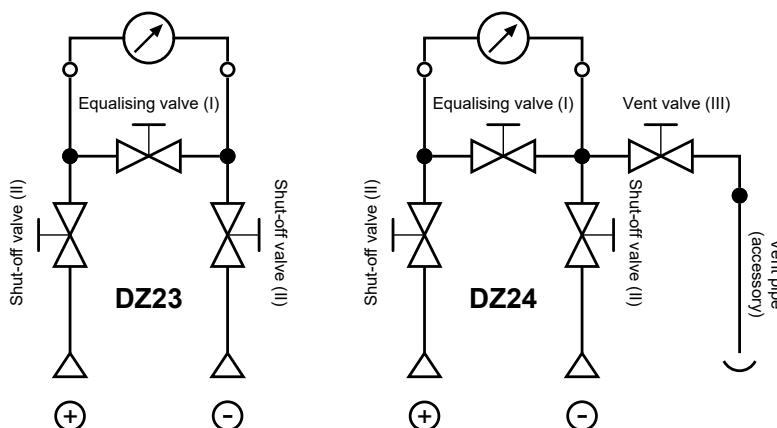


Fig. 2: Function diagram

## 1.4 Design and mode of operation

The shut-off valves (II) can be used to shut off the measuring lines on the process side. The equalising valve is used to ensure pressure equalisation between the measuring lines on the measuring device side.

The DZ24 also has a vent valve (III).

The valves should have metal seals. The valve spindles contain rotating ball bearings that form a wear-free seal to the block casing. The valve spindles are sealed to the outside with O-rings.

## 1.5 Intended use

DZ23 and DZ24 are fittings for connecting and commissioning differential pressure gauges for measuring liquids, gases and vapours

The DZ24 is equipped with a vent valve which can be used to vent the closed measuring lines on the device side.



### DANGER

#### Dangers associated with the measuring medium

If the vent valve is opened, measuring medium may escape from the vent opening and potentially contaminate the operator. To prevent this danger, take the following precautions:

1. Wear the safety equipment recommended for the medium in question.
2. Use the vent pipe available as an accessory and collect the escaping medium in a suitable container.

## 1.6 Foreseeable misuse

The DZ23 does **not** have a vent valve. A **screw plug** is used in place of the missing valve spindle. As the casings of the DZ23 and DZ24 share an identical design, "vent valve" is inscribed above the screw plug.

**WARNING! Do not loosen the screw plug under any circumstances.**

This would cause measuring medium to escape and, depending on the danger posed by the medium, could pose a risk to people and the environment.

## 2 Technical data

### 2.1 General

Ambient temperature	-30 to +70 °C
Media temperature	-30 to +70 °C
Storage temperature	-50 to +80 °C
Nominal pressure	PN 40
Nominal width	DN 3

### 2.2 Construction design

Process connection	
Process side	See order code
Measuring device	Connecting port Ø 8 mm
Installation position	User-defined
Max. dimensions (LWH) <sup>*)</sup>	135x73x50
Weight (DZ24)	750 g

<sup>\*)</sup> Incl. process connection and tolerance

#### 2.2.1 Materials

Casing	Media-contacting	Aluminium 3.1645
		Brass 2.0360 (CW509L)
		Steel 1.4301
Valve spindle	Media-contacting	Brass 2.0360 (CW509L)
		Steel 1.4404
O-rings	Media-contacting	FKM
Hand wheels	Environment only	Brass 2.0401 nickel-plated

#### 2.2.2 Dimension drawings

All dimensions in mm unless otherwise stated

The dimensional drawing for the DZ24 is shown below. The dimensional drawing for the DZ23 is largely identical. The DZ23 does not include the vent valve and associated vent pipe.

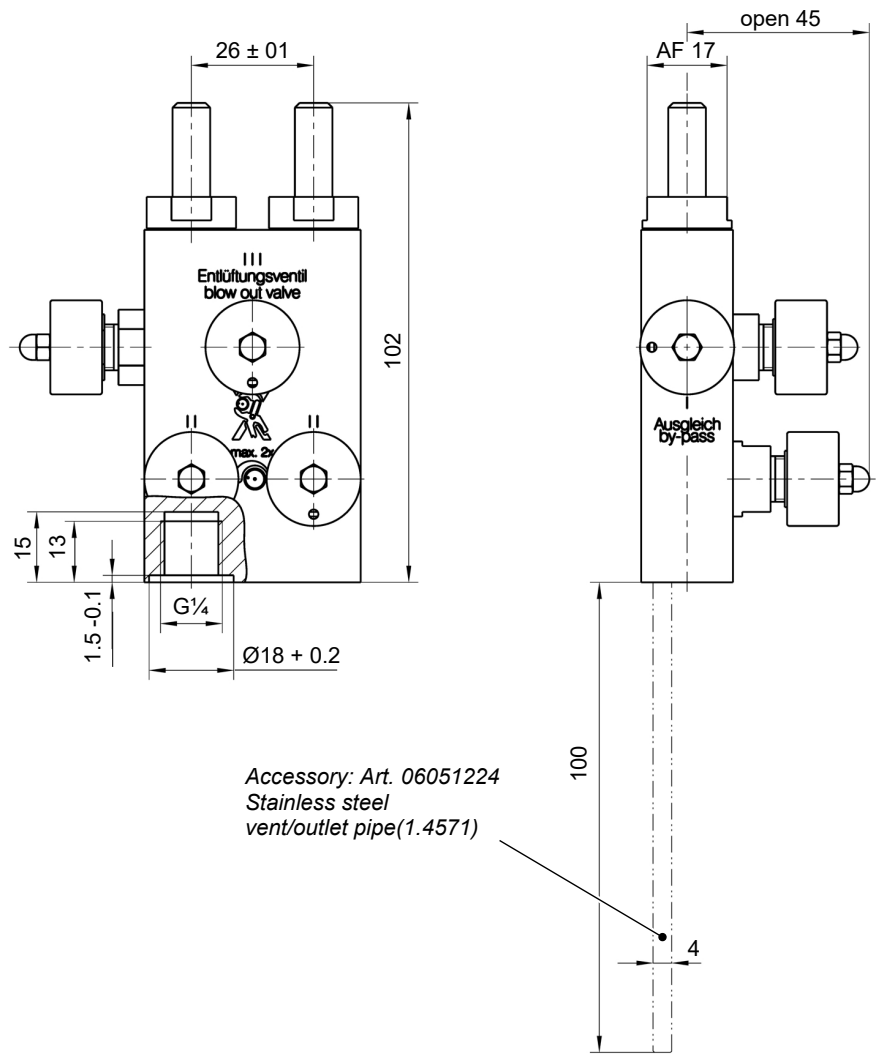
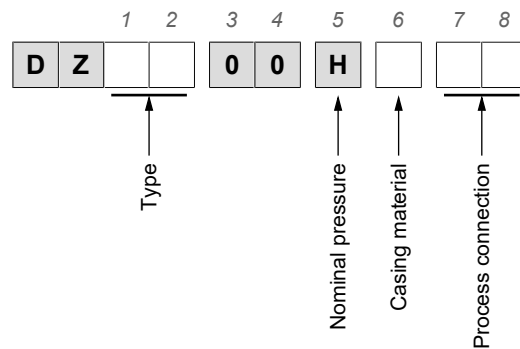


Fig. 3: Dimension drawing

### 3 Order codes



#### [1.2] Type

<b>23</b>	Three-spindle equalising and shut-off valve
<b>24</b>	Four-spindle equalising and shut-off valve with vent valve

#### [5] Nominal pressure

<b>H</b>	PN 40
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#### [6] Casing material

<b>A</b>	Aluminium	3.1645
<b>M</b>	Brass	2.0360 (CW509L)
<b>U</b>	Steel	1.4301

#### [7.8] Process connection

		Size	Material
<b>01</b>	Internal thread	G1/4	See above
<b>06</b>	Connecting port external thread	G1/4 B	Brass
<b>11</b>	Connecting port external thread	G1/4 B	Steel 1.4404
<b>20</b>	Cutting ring screw connection	6 mm pipe	Steel
<b>21</b>	Cutting ring screw connection	8 mm pipe	Steel
<b>22</b>	Cutting ring screw connection	10 mm pipe	Steel
<b>23</b>	Cutting ring screw connection	12 mm pipe	Steel
<b>24</b>	Cutting ring screw connection	6 mm pipe	Stainless steel 1.4571
<b>25</b>	Cutting ring screw connection	8 mm pipe	Stainless steel 1.4571
<b>26</b>	Cutting ring screw connection	10 mm pipe	Stainless steel 1.4571
<b>27</b>	Cutting ring screw connection	12 mm pipe	Stainless steel 1.4571
<b>28</b>	Cutting ring screw connection	6 mm pipe	Brass
<b>29</b>	Cutting ring screw connection	8 mm pipe	Brass
<b>30</b>	Cutting ring screw connection	10 mm pipe	Brass

#### Accessories

	Material	Art. No.
Vent/outlet pipe for DZ24	Stainless steel 1.4571	06051224

## Notes



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