

# Dual Line Central Lubrication Systems

## Dual line distributors

BZ

### Technical description

The BZ dual line distributors are distributing devices with hydraulic changeover. Their metering pistons are actuated by the lubricant which is supplied via the control pistons. The lubricant comes out of all outlets opposite to the distributor's pressurized side. The displaced lubricant is via the main line returned on the pressureless side of the distributor.

The complete cycle is realized by pressure changeover in the two main lines.

The BZ dual line distributors are made in block design. This offers the advantage of a rugged and space-saving design.

The travel of the metering piston can be infinitely adjusted by means of the set-screw. This changes the dosage volume of two opposite outlets (e.g. 1 and 2; 3 and 4; 5 and 6; 7 and 8) in equal measure.

### Technical data:

Operating pressure:	max. 400 bar min. 35 bar
Temperature range:	-30 °C to 80 °C
Lubricant:	oil, fluid grease, grease up to max. NLGI class 3
Viscosity range:	$\geq 50 \text{ mm}^2/\text{s}$
Dosage volume:	250 to 3000 $\text{mm}^3/\text{stroke}$ and outlet
Control volume:	500 $\text{mm}^3/\text{stroke}$ and outlet
Material:	steel, galvanized or 1.4305
Weight:	BZ 02 = 1,6 kg, BZ 04 = 2,3 kg, BZ 06 = 2,9 kg, BZ 08 = 3,6 kg

### Special model with monitoring

The metering piston's stroke can be monitored (see figure on the right) with a proximity switch M8x1 (plug M12x1).

For example, a BZ 04 distributor needs two proximity switches to monitor both metering pistons.

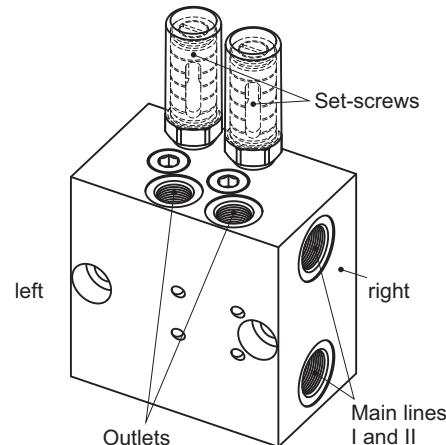
**The number of proximity switches and their positions have to be indicated separately.**

The proximity switch is delivered without cable, this also has to be ordered separately (see "Accessory Progressive distributors").

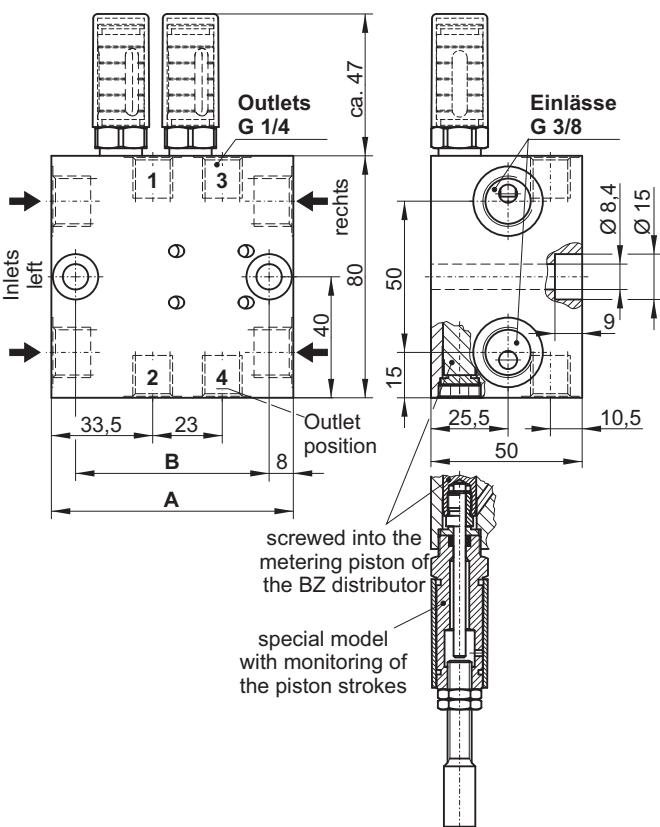
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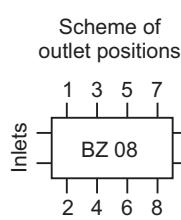
Dual line distributor BZ 04 with four outlets:



Dimensional drawing:



Model	BZ 02	BZ 04	BZ 06	BZ 08
Outlets	2	4	6	8
Dim. "A"	57	80	103	126
Dim. "B"	41	64	87	110



If there are more outlets available than used they are closed beginning from highest position and opposite outlets are combined within the distributor.

Subject to alterations!

**Combination of outlets**

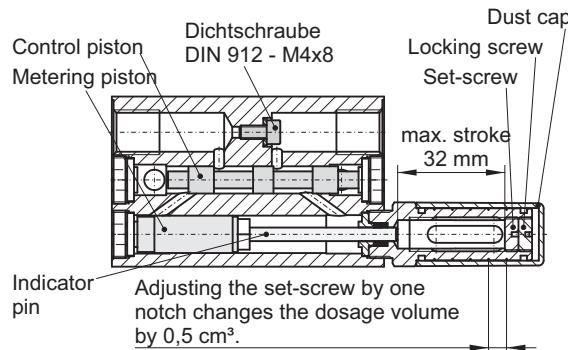
Opposite outlets can be combined to one outlet, when the sealing screw M4x8-DIN 912 with sealing ring (see figure below) has been removed. The unnecessary outlet has to be closed.

When an outlet is closed without removing the screw plug, also at the opposite outlet no lubricant is metered.

**Metering volume - adjustment**

The metering volume per cycle and outlet is 3 cm<sup>3</sup> at full stroke. Reducing the metering volume down to 0,25 cm<sup>3</sup> is possible by a stroke limitation with the adjustment screws. Each revolution of the set-screw changes the dosage volume by 0,14 cm<sup>3</sup>. The outer screw serves for locking.

The dust cap protects the indicator pin against dirt and serves as visual indicator for the function at the same time.

**Order key for type-no. 4001**

<b>Type-no.</b>	4001	4001 3 5 00 1 06 01				
Code-no.	4001					
<b>No. of outlets</b>	2      4      6      8					
Code-no.	1      2      3      4					
<b>Number of used outlets</b>	1 to 8					
Code-no.	1 to 8					
<b>Inlet (straight fitting)</b>	G 3/8      Ø 8      Ø 10      Ø 12					
Code-no.	00      08      10      12					
<b>Position of the inlets</b>	left      both sides      right					
Code-no.	1      2      3					
<b>Outlet (straight fitting)</b>	G 1/4      Ø 6      Ø 8      Ø 10					
Code-no.	00      06      08      10					
<b>Outlet (non-return valve)</b>	Ø 6      Ø 8      Ø 10					
Code-no.	26      28      30					
<b>Special model</b>	without      1.4305					
Code-no.	-      01					

\* see diagram of outlet positions (previous page)

Subject to alterations!