

Technical description

The BZ dual line distributors are distributor units with hydraulic changeover. The metering pistons are controlled by supplied lubricant in a way that lubricant comes out of all outlets opposite to the distributor's pressurized side.

During this procedure, lubricant is displaced by the control piston and feedback to the reservoir via the pressureless distributor part.

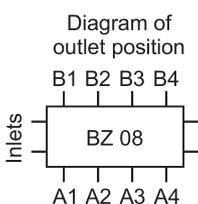
The whole operating cycle is realized by the pressure changeover of both main lines.

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

The length of stroke can steplessly be adjusted by means of the set screw. Hence the metering volume of two opposite outlets is changed (e.g. A1 and B1, A2 and B2, A3 and B3, A4 and B4).

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:	≥ 50 mm ² /s
Dosage volume:	250 to 3000 mm ³ /stroke and outlet
Control volume:	500 mm ³ /stroke and outlet
Material:	steel , corrosion protection category corresponds to a protection period of up to 720 h red rust resistance stainless steel 1.4305 (AISI303) or 1.4404 (AISI316L)
Weight:	BZ 02=1,6 kg, BZ 04 = 2,3 kg, BZ 06 = 2,9 kg, BZ 08 = 3,6 kg



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



Special model with electric monitoring

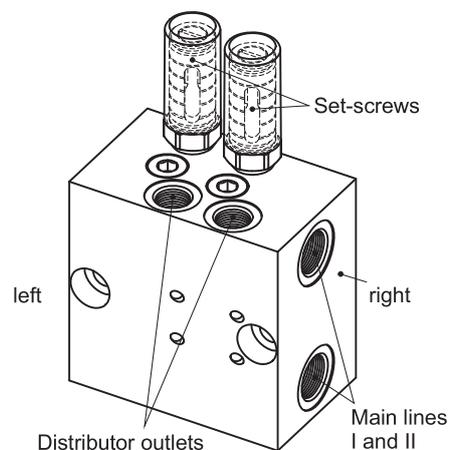
The metering piston's stroke can be monitored (see figure on the right) with a proximity switch M8x1 (plug M12x1).

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").

Dual line distributor BZ 04 with four outlets:



Combination of outlets

Opposite outlets can be combined to one distributor 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.

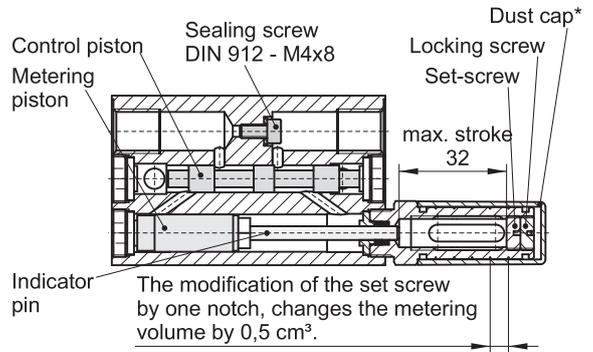
Metering volume - adjustment

The metering volume per cycle and outlet is 3 cm³ at full stroke. Reducing the metering volume down to 0,25 cm³ is possible by a stroke limitation with the adjustment screws. Each revolution of the set-screw changes the dosage volume by 0,14 cm³. 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.

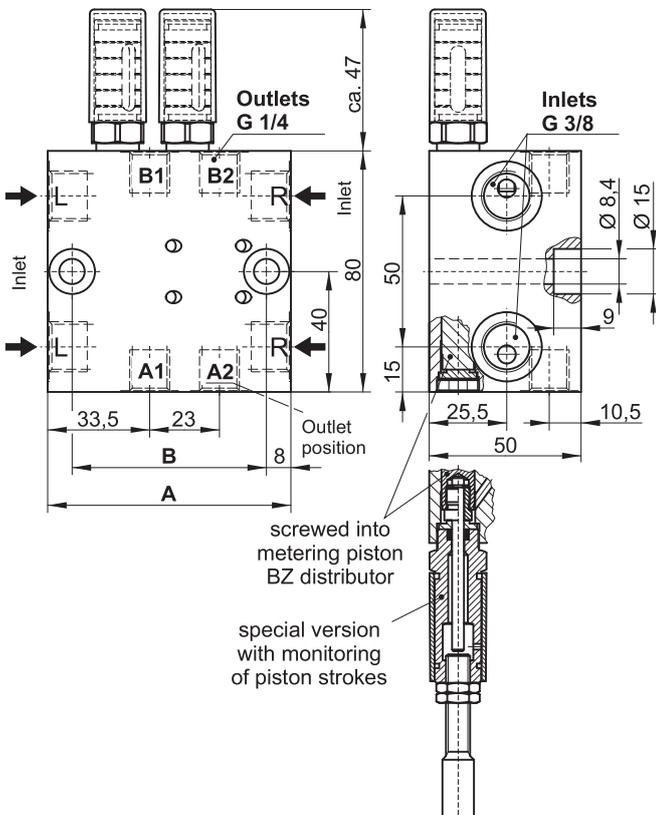
Visual stroke monitoring

The indicator pin is directly connected with the metering piston. Each stroke effects that the indicator pin is pressed into the set screw and hence can be seen below the dust cap.



*Article-no. 10107740

Dimensional drawing:



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

Spare parts

To separate combined outlets again, the sealing screw with sealing ring has to be screwed in again and the screw plug has to be replaced with an outlet fitting.

Sealing screw DIN 912 - M4x8;

Article-no.: 10111491

Sealing ring DIN 7603 - A4 x 8 x 1;

Article-no.: 10102821

At combined outlets, e.g. when the sealing screw is removed, one outlet has to be locked with a screw plug and a sealing ring.

Steel: screw plug G 1/4 incl. sealing

Article-no.: 10108307

Stainless steel: screw plug G 1/4 incl. sealing

Article-no.: 10108296

If the main lines are not continued after the distributor, both connections at the distributor end, have to be sealed with screw plugs including sealings.

Steel: Screw plug G 3/8 incl. sealing

Article-no.: 10108305

Stainless steel: Screw plug G 3/8 incl. sealing

Article-no.: 10108294

Code for type-no. 4001

Type-no.	4001				<p style="text-align: right;">4001 3 5 00 1 06 01</p>
Code-no.	4001				
No. of outlets	2	4	6	8	
Code-no.	1	2	3	4	
No. of used outlets	1 to 8				
Code-no.	1 to 8				
Inlet (straight fitting)	G 3/8	Ø 8	Ø 10	Ø 12	
Code-no.	00	08	10	12	
Position of the inlets	left	both sides	right		
Code-no.	1	2	3		
Outlet (straight fitting)	G 1/4	Ø 6	Ø 8	Ø 10	
Code-no.	00	06	08	10	
Outlet (non-return valve)			Ø 6	Ø 8	Ø 10
Code-no.			26	28	30
Special model	without	1.4305	1.4404		
Code-no.	-	01	19		

*see diagram of outlet positions (previous page)

