

**Product description**  
**Distributor ZP-A**

**APPLICATION**

The major element of a progressive system is the lubricant distributor.

Distributors ZP-A are used to divide and meter lubricant in total loss central lubrication systems (oil, liquid grease and grease) and in oil recirculation systems suitable for small, medium and large machine plants.



**PRODUCT CHARACTERISTICS**

- Progressive distributors
- up to 24 outlets
- Electronic monitoring possible
- Metered volume variable from 0.1 cm<sup>3</sup>
- Grease, liquid grease and oil

**FUNCTION**

ZPA distributors consist of several individual segments (at least 3 in the standard version) that are screwed together and sealed against each other.

Depending on the arrangement within the distributor, the following segment types are available :

- Initial- or A-segment
- Medium or M-segment
- Final- or E-segment

The distributor ZP-A has the task to divide the lubricant volume (oil or grease) received under pressure into portions and to deliver them successively to the up to 24 possible outlets. This is achieved due to pistons which are moved by the lubricant being under pressure, and forcibly controlled by each other. The pistons move into their final positions, and the lubricant waiting in front of the piston is successively supplied to the lubrication points.

The distributor works as long as it is supplied with lubricant.

The distributor is equipped with integrated nonreturn valves. These nonreturn valves, which are integrated in the distributor outlets, have the advantage that the distributor works reliably even in case of small lubricant volumes and higher counterpressures involved as far as the line material is flexible. In case that a visual operational monitoring of the distributor is necessary or desired, the distributor has to be ordered with motion indicators. For the extended version with motion indicators, it is possible to provide additionally an electrical operational monitoring by means of an electronical monitoring switch.



<b>A. DISTRIBUTOR TYPE</b>	<b>Code</b>
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ZPA

<b>B. NUMBER OF SEGMENTS</b>	<b>Code</b>
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3 segments	03
4 segments	04
5 segments	05
6 segments	06
7 segments	07
8 segments	08
9 segments	09
10 segments	10
11 segments	11
12 segments	12

<b>C. REVISION</b>	<b>Code</b>
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Status A	A
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<b>D. MONITORING</b>	<b>Code</b>
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with nonreturn valve, with motion indicator	01
with nonreturn valve, with monitoring switch	02

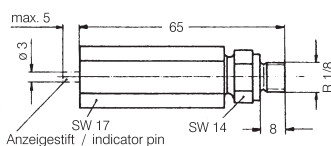
<b>E. CODING OF THE OUTLETS</b>	<b>Code</b>
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A segment	*
M segment	*
E or M segment	*

\* is determined by segment selection of the price list

<b>F. ACCESSORIES</b>	<b>Code</b>
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without	00
Slot angle	01
Overpressure indicator 70 bar	02
Overpressure indicator 100 bar	03
Screw joint kit 1 ( 1 - 4 outlets)	04
Screw joint kit 2 ( 5 - 8 outlets)	05
Screw joint kit 3 ( 9 - 12 outlets)	06
Screw joint kit 4 (13 - 16 outlets)	07
Screw joint kit 5 (17 - 20 outlets)	08
Screw joint kit 6 (21 - 24 outlets)	09

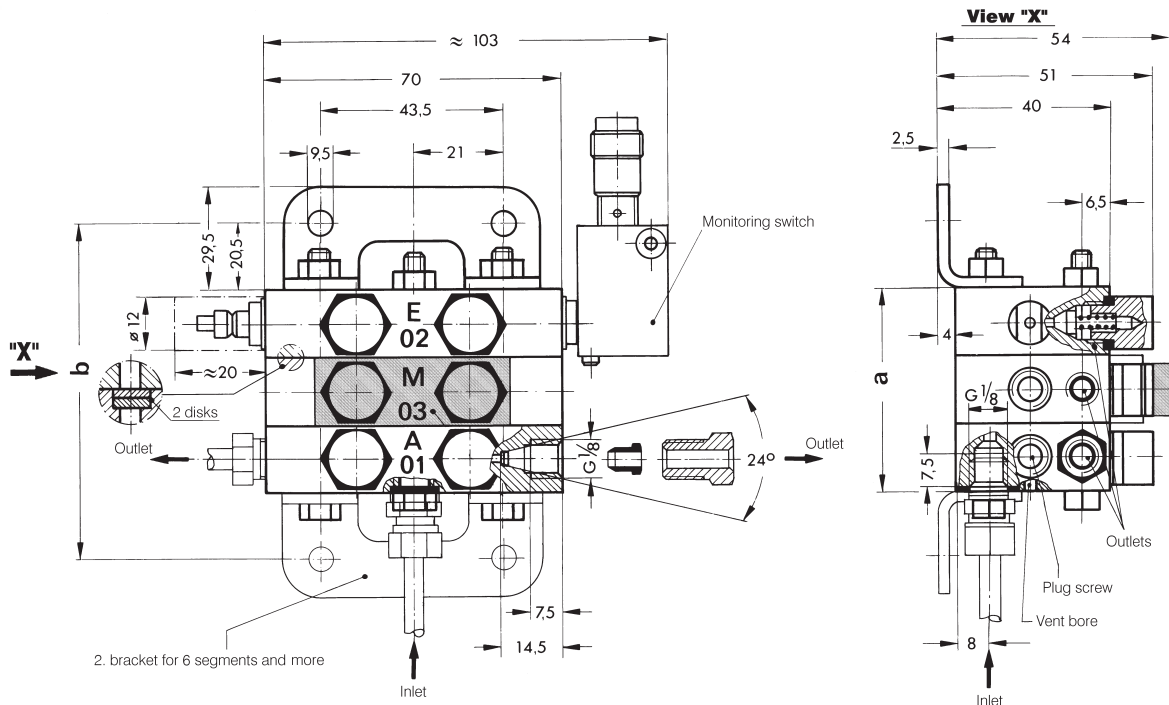


Overpressure indicator



**SPECIFICATION**

Working pressure max. : \_\_\_\_\_ 160 bar  
 Temperature range (with proximity indicator) : \_\_\_\_\_ - 20 °C to + 80 °C  
 Temperature range (without proximity indicator) : \_\_\_\_\_ - 20 °C to + 110 °C  
 Admissible differential pressure between 2 outlets : \_\_\_\_\_ max. 50 bar  
 with nonreturn valves max. up to admissible system pressure  
 Metered volume per piston stroke : \_\_\_\_\_ at choice 0.1; 0.2 or 0.3 cm<sup>3</sup>  
 Flow volume for oil and grease : \_\_\_\_\_ min. 0.5 cm<sup>3</sup>/min; max. 1000 cm<sup>3</sup>/min  
 Opening pressure of nonreturn valves : \_\_\_\_\_ 2 bar  
 Response pressure : \_\_\_\_\_ 10 bar  
 Usable lubricants on mineral oil basis:  
 Lubricating greases up to \_\_\_\_\_ NLGI class 3 DIN 51818  
 Oil \_\_\_\_\_ ISO VG 68 to 1500 (DIN 51519) at 20 °C ambient temperature  
 Synthetic lubricants : \_\_\_\_\_ on request  
 Pipe connections:  
 Inlet G 1/8 \_\_\_\_\_ standard Ø 10  
 Outlet G 1/8 \_\_\_\_\_ Ø 6



max. number of outlets	Number of segments	Dimensions (mm)		Weight approx. kg
6	3	48	-	1,03
8	4	64	-	1,37
10	5	80	-	1,72
12	6	90	137	2,06
14	7	112	153	2,40
16	8	128	169	2,75
18	9	144	185	3,09
20	10	160	201	3,43
22	11	176	217	3,77
24	12	192	233	4,11

**ATTENTION**

Special care has to be taken that the quantity of lubricant metered by a piston does not escape in the same segment but in the adjacent segment next to the inlet port. The metered volume of the piston in the initial segment is discharged at the final segment.



**EXAMPLE OF ORDER**

		Code												
		Z	P	A	0	3	A	0	1	I	I	I	0	0
<b>Distributor type ZP-A</b>	Code: ZPA													
<b>Number of segments</b> 3 segments	Code: 03													
<b>Revision</b> Status A	Code: A													
<b>Monitoring</b> with nonreturn valve, with motion indicator	Code: 01													
<b>Coding of the outlets</b> A segment 02aa	Code: I													
<b>Coding of the outlets</b> M segment 02aa	Code: I													
<b>Coding of the outlets</b> E segment 02aa	Code: I													
<b>Accessories</b> without	Code: 00													

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*Für reibungslose Bewegung  
 For smooth motion*

