

**Product description**  
**ZPA**  
**Distributor**

## **DESCRIPTION**

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

## **OPERATION**

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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 distributors, the following segments types are available:

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

The distributor ZPA has the task to divide the lubricant volume (oil or grease) received under pressure or 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. On request, 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 counter pressures 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 by means of an electronic monitoring switch.

## **PRODUCT CHARACTERISTICS**

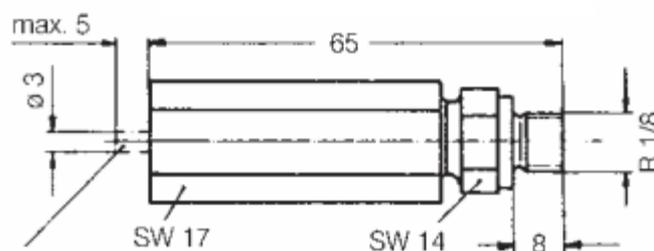
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- Progressive distributors
- Up to 24 outlets
- Electronic monitoring possible
- Metered volume variable from 0.1 cm<sup>3</sup>
- Grease, liquid grease and oil



<b>A. DISTRIBUTOR TYPE</b>	<b>CODE</b>
	ZPA
<b>B. NUMBER OF SEGMENT</b>	<b>CODE</b>
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>
Status A	A
<b>D. MONITORING</b>	<b>CODE</b>
With nonreturn valve, with motion indicator	01
With nonreturn valve, with monitoring switch	02
<b>E. CODING OF THE OUTLETS</b>	<b>CODE</b>
A segment	*
M segment	*
E or M segment	*
* is determined by segment selection of the price list.	
<b>F. ACCESSORIES</b>	<b>CODE</b>
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:**



Indicator pin



## SPECIFICATION

Working pressure max: ..... 160 bar  
 Temperature range: .....-20 to +80°C (higher temperature on request)  
 Admissible differential pressure between 2 outlets: max 50 bar with nonreturnvalves 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 basis:

Lubricating basis up to: .....NLGI class 3 DIN 51818

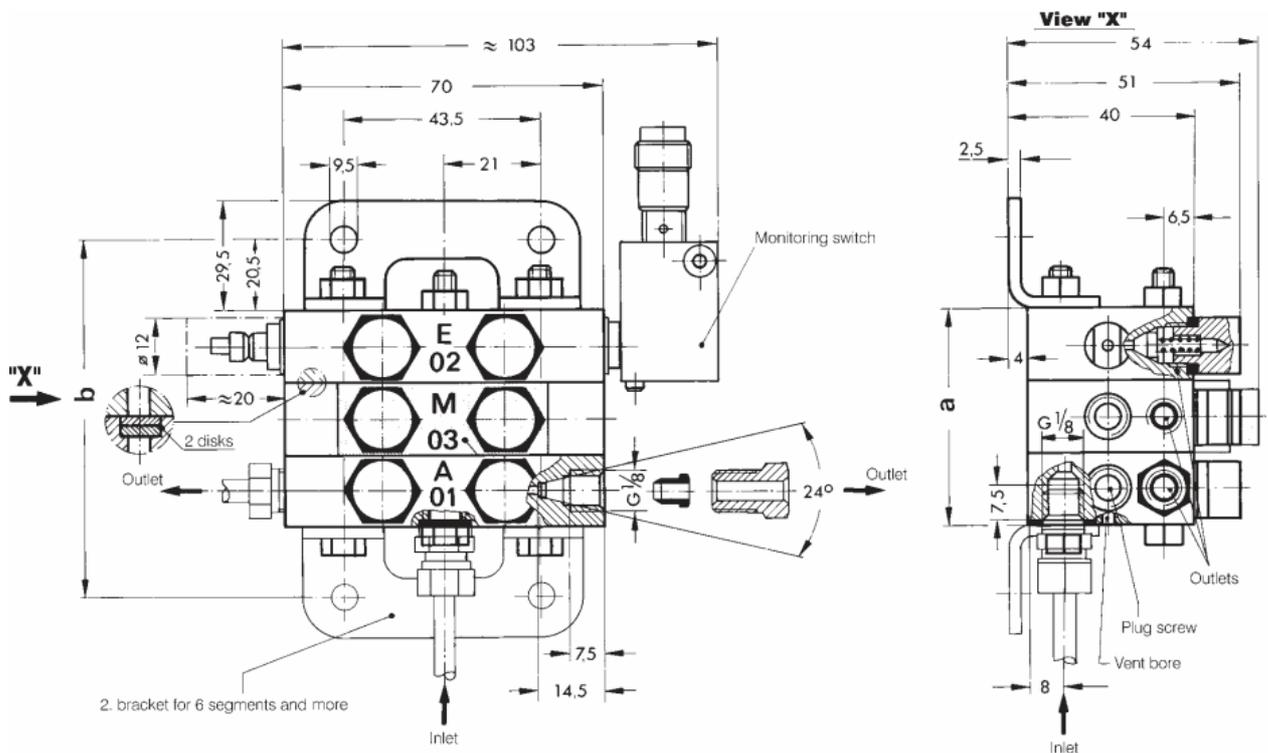
Oil: .....ISO VG 68 to 1500 (DIN 51519) at 20°C ambient temperature

Synthetic lubricants: .....on request

Pipe connections:

Inlet: .....Ø 6, Ø 8 or Ø 10

Outlet: .....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.

**HOW TO ORDER:**

<u>Distributor code</u>	ZPA	<input type="text"/>					
<u>Number of segments</u>							
<input type="text" value="03"/>	3 segments						
<u>Revision</u>							
<input type="text" value="A"/>	Status A						
<u>Monitoring</u>							
<input type="text" value="01"/>	With nonreturn valve with motion indicator						
<u>Coding of the outlets</u>							
<input type="text" value="I"/>	A segment 02 aa						
<u>Coding of the outlets</u>							
<input type="text" value="I"/>	M segment 02 aa						
<u>Accessories</u>							
<input type="text" value="00"/>	Without						



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