Modular progressive distributor DPM

Centralized greasing systems » Grease distributors » Progressive distributors

Applications

Distributions of lubrication in industrial machinery, such as roller conveyors, straightening machines or cushions.

Installations in the paper industry, steelworks, and quarries can be used this type of products with high guarantees of a suitable lubrication.

Features

- Its modular design gives it great flexibility to adapt to different installations.
- Can be configured as required.
- Allows different volumes of lubricant to be injected into the different outlets.
- Can be used with grease or oil.
- Its internal adjustment guarantees high precision in the injected volume.
- Progressive and uniform lubrication.
- Possibility of internal communication of outlets.
- Robust body in EN 10087-11SMnPb30.
- High lubrication capacity: availability of progressive lubrication between 6 and 16 outlets.
- Possibility of incorporating different operational control systems, visual or electrical.

Description

Progressive distributors are elements that allow the division and distribution of lubricant in a controlled and precise way. They take their name from the fact that the lubricant is supplied to the lubrication points in a progressive order. They have a single inlet; the number of outlets depends on the model and configuration.

Progressive distributors operate with pistons, which make a clean and precise distribution of lubricant.

Design and operating principle

The lubricant enters the distributor under pressure. Through the various internal communications, the piston acts on the first plunger, causing the latter to move and thus giving rise to the first division of lubricant towards the first outlet.

Once the first piston has completed its stroke, the movement of the next piston begins and the division and distribution of lubricant towards the second outlet takes place, and so on until the movement of all the pistons is completed. When the last piston has completed its movement, the cycle begins again on the initial piston, but in the opposite direction, with the division and distribution of lubricant to the outlet on the opposite side. This cycle is repeated continuously as long as there is a pressurized lubricant supply.

As all the inner pistons are interconnected, the blocking of a single piston will block the progressive distributor completely. This feature makes it easy to check that the system is operating correctly by adding a detection system on a single piston.

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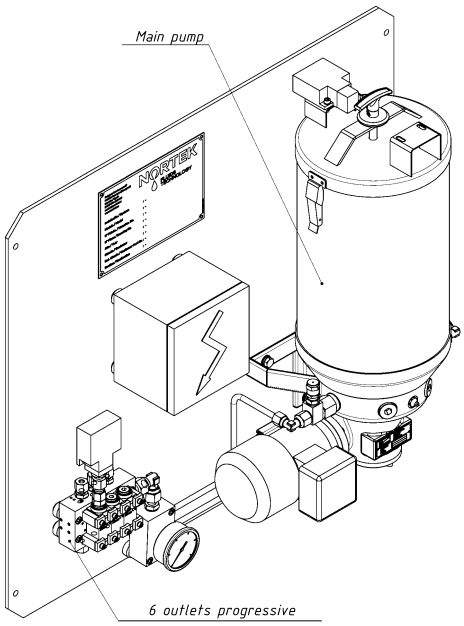
Installation

Progressive distributors can be placed in single line lubrication systems or at the outlet of dosing valves in double line lubrication systems. It is not recommended to place more than two progressive distributors in series.

The lubricant inlet must always be pressurized.

If not all outlets of the progressive distributor need to be used, an outlet bypass is necessary. Refer to the instruction manual to carry out the override correctly and avoid blockage of the distributor.

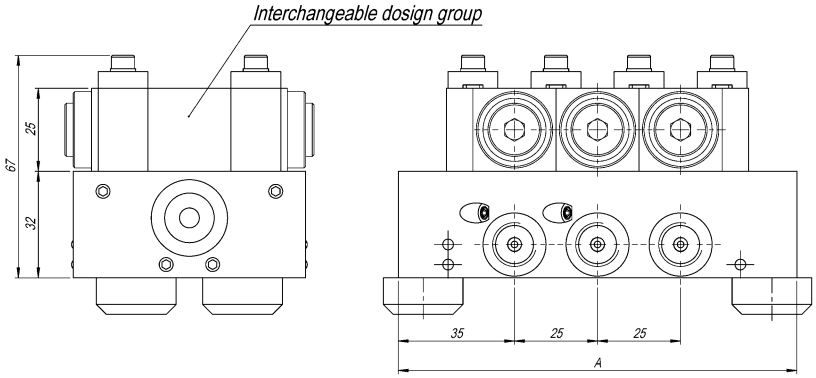


Specifications

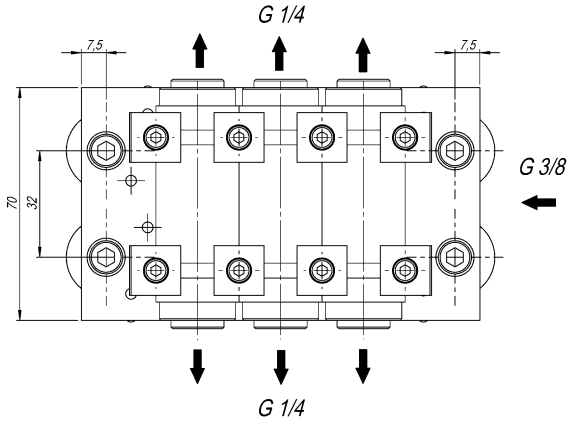
Number of departures	From 6 to 16
Outflow per piston	From 0.09 cm3 to 1.1 cm3
Minimum work pressure	10 bar
Maximun working pressure	200 bar
Input connection	G 3/8
Output connections	G 1/4
Qualities	Electroplated coating of zinc according to ISO 2081 - Fe / Zn12 / A

Dimensional drawing

Dimensions in mm



N° outlets	A	Weight	Refence
6 (3+3)	120	2,0 kg	3370643.000
8 (4+4)	145	2,5 kg	3370843.000
10 (5+5)	170	2,9 kg	3371043.000
12 (6+6)	195	3,3 kg	3371243.000
14 (7+7)	220	3,7 kg	3371443.000
16 (8+8)	245	4,1 kg	3371643.000



Ordering information

It is necessary to choose the base plate and the dosing groups:

BASE PLATE: ADD CODE DEPENDING ON ASSEMBLY

	DPM-	XX	X	X	(-XX)
Outlets					
6 outlets (3+3)		**06**			
8 outlets (4+4)		**08**			
10 outlets (5+5)		**10**			
12 outlets (6+6)		**12**			
14 outlets (7+7)		**14**			
16 outlets (8+8)		**16**			
Operational control					
Without operational control			**N**		
Visual control			**V**		
Limit switch			**I**		
Inductive proximity sensor			**D**		
Material					
Carbon steel - 11SMnPb30				**C**	
Stainless steel - X5CrNiMo17-12-2 (AISI-316)				**I**	
Special code (*)					
For non-standard elements					**(-XX)**

(*) See section "Output configuration" for more information.

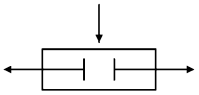
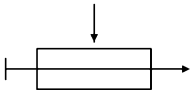
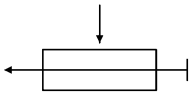
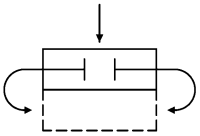
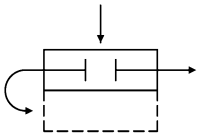
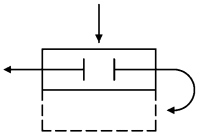
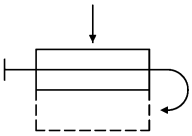
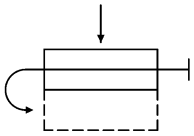
DOSIGN GROUPS: ADD CODE DEPENDING ON ASSEMBLY

	GDP-	XXX
Plunger		
Greaser group 0.09 cm³ (plunger Ø4)		**009**
Greaser group 0.14 cm³ (plunger Ø5)		**014**
Greaser group 0.20 cm³ (plunger Ø6)		**020**
Greaser group 0.35 cm³ (plunger Ø8)		**035**
Greaser group 0.55 cm³ (plunger Ø10)		**055**
Greaser group 0.80 cm³ (plunger Ø12)		**080**
Greaser group 1.10 cm³ (plunger Ø14)		**110**

Outlet configuration

Each pair of outlets can operate differently depending on whether the outputs are blocked, have internal communication between them or have lateral (external) communication with the next pair of outlets. By default, each outlet is independent (configuration A), for any other type of configuration it is necessary to indicate the position and the chosen configuration.

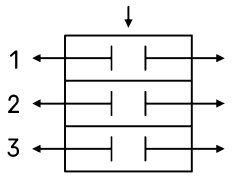
Since the lateral communication is done externally through an accessory, outlets can only be connected externally when they end up at the last pair of outlets. As shown in the ordering examples.

Configuration of the outlet pairs			
A		**2 independent outlets** By default	
B		**1 right outlet** Inner connection and plug on the left	
C		**1 left outlet** Inner connection and plug on the right	
D		**No outlets, 2 lateral connections** Lateral external connection of outlets on both sides	
E		**1 right outlet and left side connection** External connection of the left outlet	
F		**1 left outlet and right side connection** External connection of the right outlet	
G		**No outlets, right side connection** Inner connection, plug on the left and external connection of the right outlet	
H		**No outlets, left side connection** Inner connection, plug on the right and external connection of the left outlet	

Ordering examples

When the outlets are independent (configuration A) it is not necessary to indicate it in the code, it is the default configuration for the progressives.

Progressive distributor of 6 outlets with visual control:	**DPM-06VC** **GD-020/020/080**
Dosing group 1: 0,20 cm³	GDP-020
Dosing group 2: 0,20 cm³	GDP-020
Dosing group 3: 0,80 cm³	GDP-080



Progressive distributor of 10 outlets with visual control and non-standard outlets:	**DPM-10VC-2C3E4D** **GD-020/020/014/014/020**
Dosing group 1: 0,20 cm³	GDP-020
Dosing group 2: 0,20 cm³	GDP-020
Dosing group 3: 0,14 cm³	GDP-014
Dosing group 4: 0,14 cm³	GDP-014
Dosing group 5: 0,20 cm³	GDP-020