

Modular double line dosing valve DM

Centralized greasing system » Grease distributor » Dosing valves

Applications

These dosing valves are normally installed in double oil or grease lines and are intended for installations with a large number of greasing points and/or long distances.

Installations in the steel industry, cement or paper mills can use this type of dosing valve with a high guarantee of precise greasing.



Features

- ▶ Change of turrets without disassembling the system
- ▶ Combination of different volumes in the same block
- ▶ Grease and oil can be used
- ▶ High performance
- ▶ Shielded turret option
- ▶ Possibility of different turrets for operation, visual or electrical control by means of micro or proximity detector.
- ▶ Robust body in different steels
- ▶ Electroplated coating of zinc ISO 2081 - Fe/Zn12/A
- ▶ Adjustable flow rate
- ▶ Methacrylate, nylon or aluminum caps available



Description

The dosing valves are lubrication elements installed for two simultaneous supply lines, one of them pressurized while the other is depressurized, alternating the greasing cycles, in this way is supplied an adjustable amount of lubricant in each cycle.



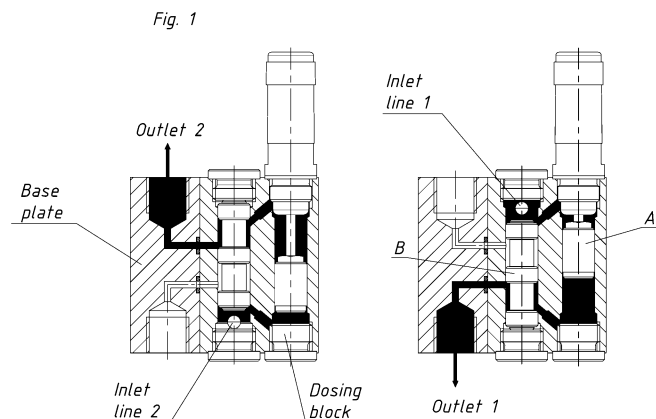
Design and operating principle

Each dosing valve consists of a base plate 3282X4X.000 and a dispenser block 32830XX.000. Its design offers the advantage of replacing individual dosing groups without having to disassemble the complete system or the piping connections, as well as being able to use different independent flow rates in each of them.

The base plate manages the lubricant inlet, it is possible to give input to the dosing block or to join outlets to double the flow rate if necessary.

Each dosing valve is composed of a servo piston (A) and a servo (B). The piston movements illustrated in fig. 1 shows the operation of the dosing valve by alternating the lubricant supply when it enters line 1 or when it enters line 2.

The supply is made with the two separate outputs, but there is the possibility of internal communication of the outputs unifying in a single output, thus doubling the flow. Being the internal communication we offer the advantage of avoiding fittings and external pipe, thus favouring a clean installation.

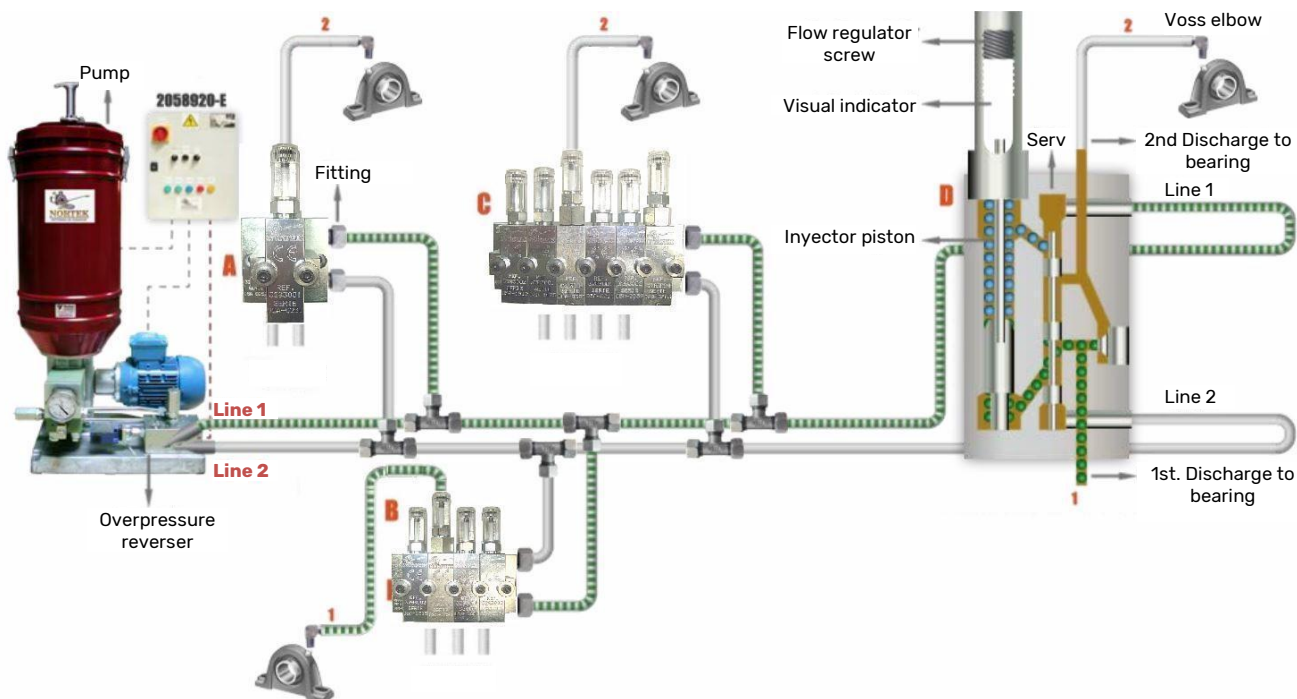


Installation

They are placed in double lines throughout the installation in the areas closest to the greasing area. The quantity of dosing valves to be installed depends on the length of the installation and the points to be greased.

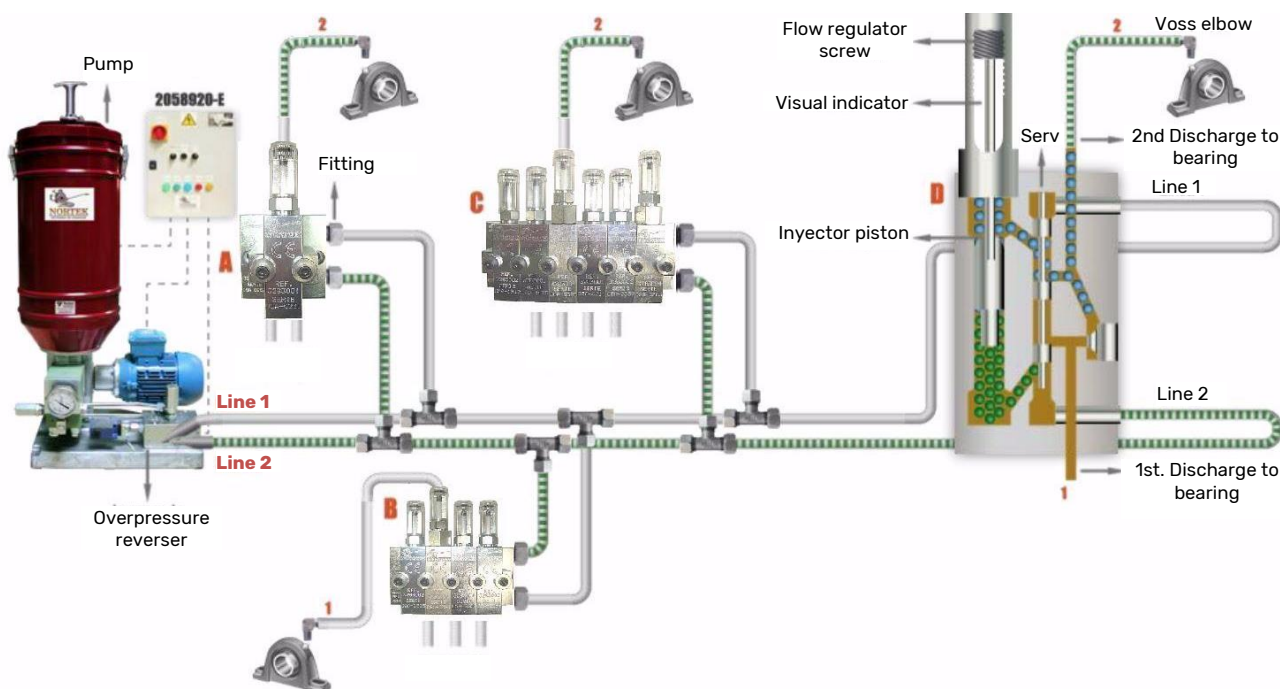
Installation dosing valves in line 1

The grease or oil coming from the pump through line 1 is pressurized in the valve; it moves the servo, giving way to the injector, which moves it in the same direction, fills the entire chamber with lubricant and at the same time injects the lubricant stored on the opposite side to the lubrication point.



Installation dosing valves in line 2

When all the pistons of the installation have moved, the pump and inverter pressure reaches the one that was regulated and determined, then changes the inverter to line 2 and leaves line 1 in return, where the pressure drops to zero. The pump through line 2 introduces the lubricant into the dosing valve and moves the injector by lubricating on the opposite side.

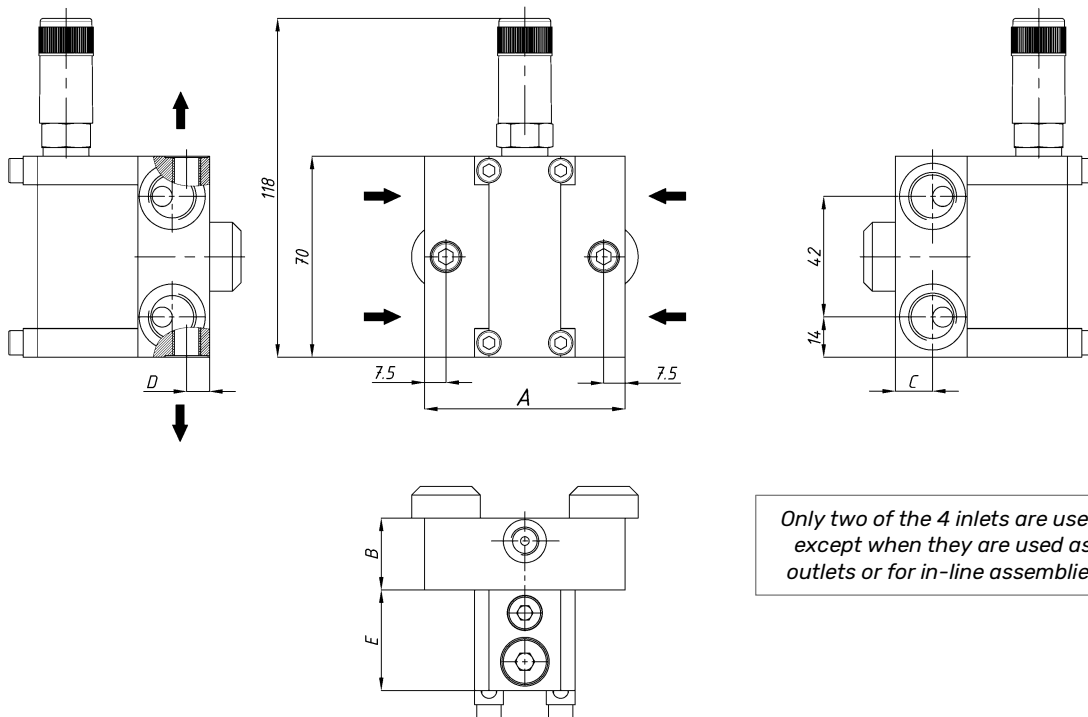


Specifications

| | Stainless steel up to 4 cm³ | Carbon steel up to 40cm³ |
|---------------------------------|--|--|
| N° outlets | From 2 to 12 outlets (according to ref.) | From 2 to 12 outlets (according to ref.) |
| Flow rate per injection | 1, 2 o 4 cm ³ (Max. adjustable) | 1, 2, 4, 6, 8, 16 o 40 cm ³ (Max. adjustable) |
| Minimum working pressure | 10 bar | 10 bar |
| Maximum working pressure | 250 bar | 250 bar |
| Input connections | G 3/8 | G 3/8 |
| Output connections | G 1/8 | G 1/4 |
| Material | Inox. - (Aisi 304), (Aisi 316) o (Aisi 316 Ti) | A° C° - EN 10087-11SMnPb30 Zinc-plated |

Dimensional drawing

Dimensions in mm



Stainless steel up to 4 cm³

| | A | B | C | D | Base plate weight |
|-------------------|----------|----------|----------|----------|--------------------------|
| N° Outlets | | | | | |
| 2 outlets (1+1) | 70 | 25 | 13 | 8 | 0,8 kg |
| 4 outlets (2+2) | 95 | 25 | 13 | 8 | 1,1 kg |
| 6 outlets (3+3) | 120 | 25 | 13 | 8 | 1,4 kg |
| 8 outlets (4+4) | 145 | 25 | 13 | 8 | 1,7 kg |
| 10 outlets (5+5) | 170 | 25 | 13 | 8 | 2,0 kg |
| 12 outlets (6+6) | 195 | 25 | 13 | 8 | 2,3 kg |

| Dosing | E |
|-------------------|----------|
| 1 cm ³ | 35 |
| 2 cm ³ | 35 |
| 4 cm ³ | 35 |

Carbon steel up to 40 cm³

| | A | B | C | D | Base plate weight |
|-------------------|----------|----------|----------|----------|--------------------------|
| N° Outlets | | | | | |
| 2 outlets (1+1) | 70 | 32 | 20 | 10 | 1,0 kg |
| 4 outlets (2+2) | 95 | 32 | 20 | 10 | 1,4 kg |
| 6 outlets (3+3) | 120 | 32 | 20 | 10 | 1,7 kg |
| 8 outlets (4+4) | 145 | 32 | 20 | 10 | 2,1 kg |
| 10 outlets (5+5) | 170 | 32 | 20 | 10 | 2,5 kg |
| 12 outlets (6+6) | 195 | 32 | 20 | 10 | 2,9 kg |

| Dosing | E |
|--------------------|----------|
| 1 cm ³ | 35 |
| 2 cm ³ | 35 |
| 4 cm ³ | 35 |
| 6 cm ³ | 60 |
| 8 cm ³ | 50 |
| 16 cm ³ | 50 |
| 40 cm ³ | 54 |

Ordering information

The standard supply is simple turret, methacrylate cap, NBR seals and body in EN 10087-11SMnPb30 with electroplated coating of zinc according to ISO 2081 - Fe / Zn12 / A. It is necessary to choose the base plate and the dosing groups:

BASE PLATE: ADD CODE DEPENDING ON ASSEMBLY

| | DM- | XX | X | X | X | (-XX) |
|--|-----|----|---|---|---|-------|
| Outlets | | | | | | |
| Base plate 2 outlets (1+1) | | 02 | | | | |
| Base plate 4 outlets (2+2) | | 04 | | | | |
| Base plate 6 outlets (3+3) | | 06 | | | | |
| Base plate 8 outlets (4+4) | | 08 | | | | |
| Base plate 10 outlets (5+5) | | 10 | | | | |
| Base plate 12 outlets (6+6) | | 12 | | | | |
| Torretas | | | | | | |
| Turret | | | | | | N |
| Normal | | | | | | E |
| Electric | | | | | | C |
| Blind | | | | | | S |
| Without turret | | | | | | A |
| Seals and gaskets | | | | | | |
| NBR | | | | | | N |
| Viton | | | | | | V |
| Material | | | | | | |
| Carbon steel - 11SMnPb30 | | | | | | C |
| Stainless steel - X5CrNiMo17-12-2 (AISI-316) | | | | | | I |
| Special code | | | | | | |
| For non-standard elements | | | | | | (-XX) |

DESIGN GROUPS: ADD CODE DEPENDING ON ASSEMBLY

| | GD- | XX |
|-------------------------------------|-----|----|
| Design groups | | |
| 1 cm ³ dosing group | | 01 |
| 2 cm ³ dosing group | | 02 |
| 4 cm ³ dosing group | | 04 |
| 6 cm ³ dosing group (*) | | 06 |
| 8 cm ³ dosing group (*) | | 08 |
| 16 cm ³ dosing group (*) | | 16 |
| 40 cm ³ dosing group (*) | | 40 |

(*) Only available in carbon steel