



# DUAL LINE AIR OIL METERING VALVES SERIES DF - DR

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MADE IN ITALY

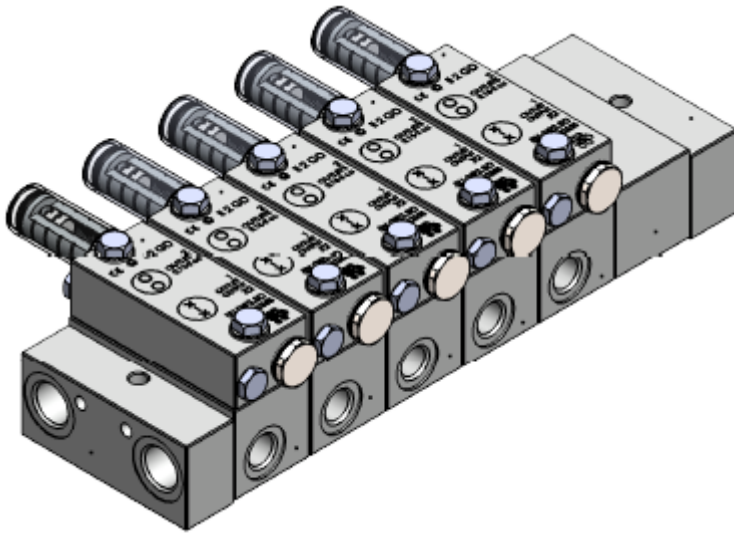
**DESCRIZIONE**

The modular valves DF.A and DR.A, galvanized Zinc Nickel, have been designed for two-line systems with pressures up to 400 bar where a normally continuous lubrication of oil mixed with compressed air is required. Available in configurations up to 16 outlets, they differ from the standard models having an internal circuit which, fed by compressed air, generates a mixed air-oil flow in the outlets.

A combination of single or double outlet dispensers can be mounted on the bases. Each module is available in 3 different capacity sizes.

The series consists of two lines of metering valves, the DF.A with fixed flow and the DR.A with variable flow. The modules are fixed to a base stably connected by piping to the centralized lubrication system.

- Lubricant flow rate of each module separately adjustable at any time [model DR]
- Reduced maintenance costs for replacing a malfunctioning module
- Indicator rod for checking operation [DR model]
- Closing plates for possible future extensions
- Complete with fixing screws and O-rings



**CARATTERISTICHE TECNICHE**

OPERATING PRESSURE	MAX 400 BAR
MAIN LINE INLET	3/8" BSP O NPTF
OUTLET	1/4" BSP ON PTF
LUBRICANT	MIN 100 MAX 400 CST 40 °C
CYCLES/1?	MAX 100
MATERIAL	CARBON STEEL
N. ELEMENTS	MAX 8
AIR PRESSURE INLET	1,5 3,5 BAR
WORKING TEMPERATURE	- 30° + 80°C STD - 30° +180°C FKM

**FLOW RATE FOR EAHC OUTLET /CYCLE**

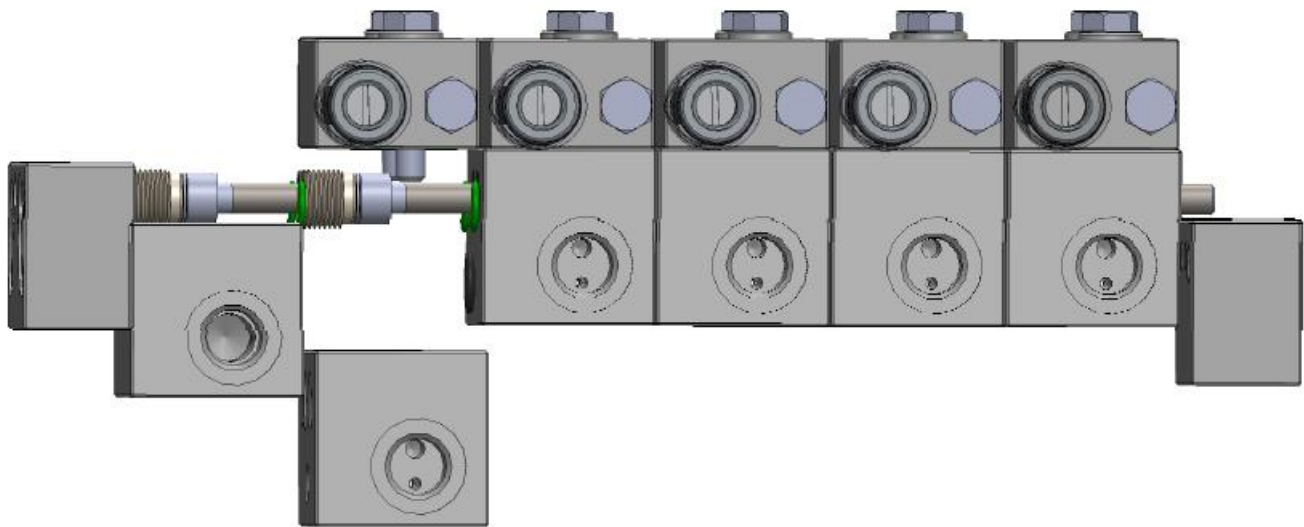
DF-1	DF-3	DR-3
1 cc fixed	3 cc fixed	0.15 ÷3 cc adjustable

**MODULAR BASE**

- Sub-bases consist of a minimum of four elements:
- initial sub-base n.1
- intermediate sub-base n.1 for each single dispenser
- intermediate sub-base for air inlet n.1
- final sub-base n.1

The system can be extended to include a number of 8 intermediate sections [16 outputs] by inserting the necessary number of intermediate bases between the initial base and the intermediate base for the air.

The intermediate air inlet base is always placed last in the assembled block and adjacent to the final base

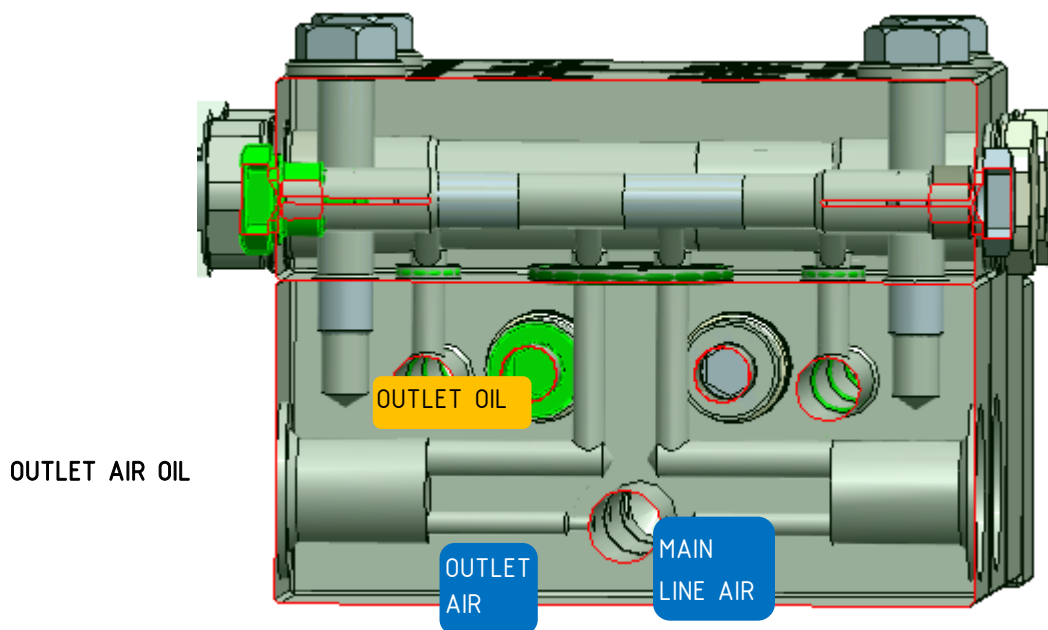


FINAL  
BASE

INTERMEDIATE  
BASE FOR  
AIR INLET

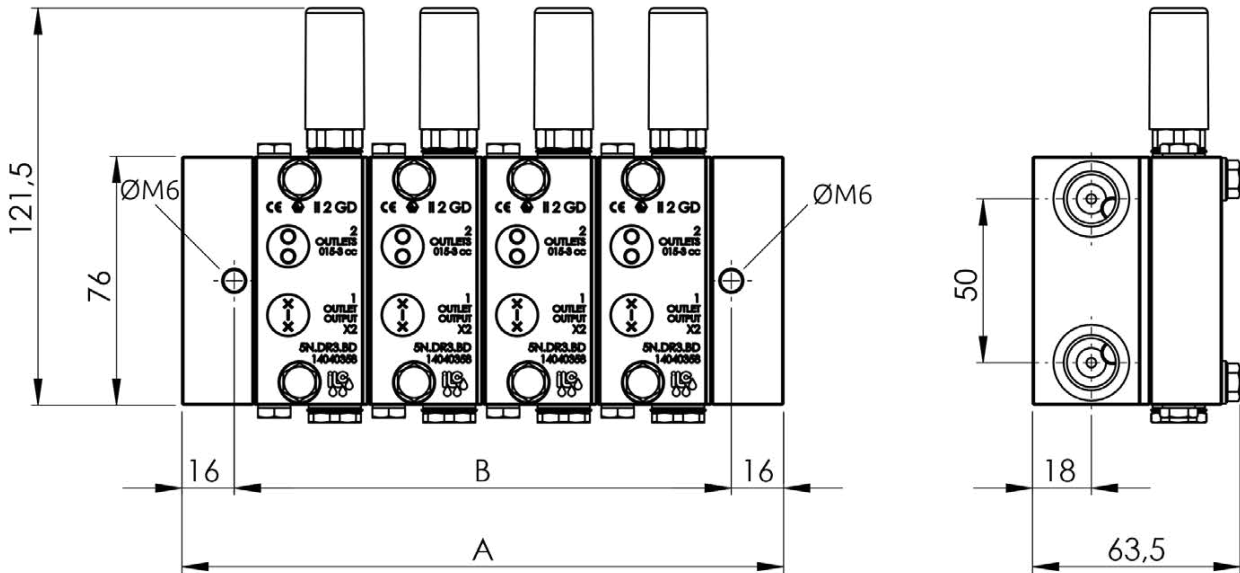
INTERMEDIATE BASE FOR AIR OIL OUTLET

INLET BASE

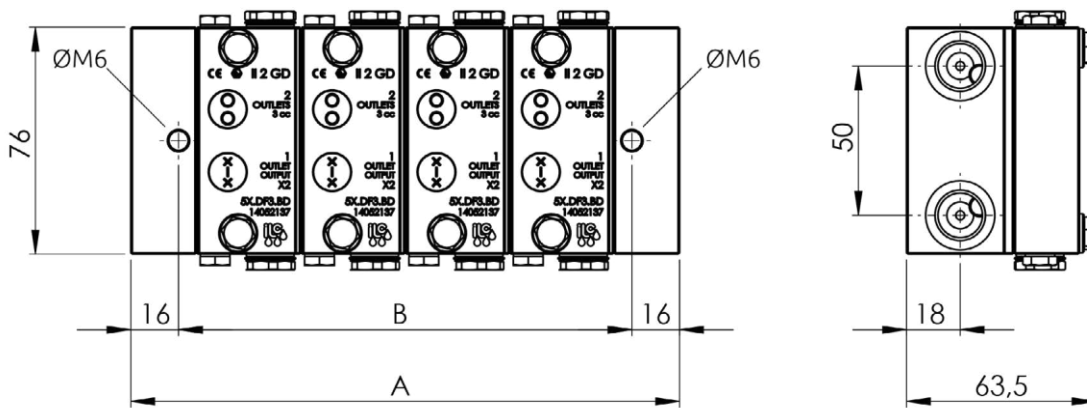


DIMENSIONS

DR SERIES



DF SERIES



ELEMENTS	A	B	ELEMENTS	A	B
1	78.5	46.5	5	217,3	185,3
2	113.2	81.2	6	252,0	220,0
3	147.9	115.9	7	286,7	254,7
4	182.6	150.6	8	321,4	289,4

Dimensions in mm

**METERING VALVES ORDER CODE**

Standa



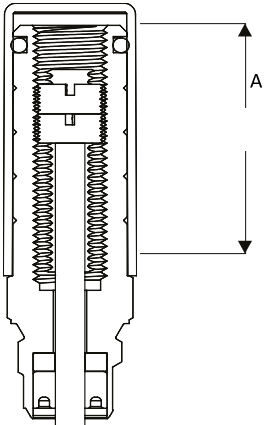
Type	Flow-rate	Carbon steel
DF1	1 cc	5N.F1.BD
DF3	3 cc	5N.F3.BD

Type	Flow-rate	Carbon steel
DR3	0,15 - 3 cc	5N.R3.BD

**BASE ORDER CODE**

type	pitcure	Code
INLET BASE		<b>5N-BB-A-BSP</b>
METERING BASE		Foro aria 1.5mm <b>5N.BBA15.B.BSP</b>
		Foro aria 2.5mm <b>5N.BBA.B.BSP</b>
INTERMEDIATE BASE FOR AIR INLET		<b>5N.BBA.A.BSP</b>
FINAL BASE		<b>5N-BB-C-BSP</b>

**FLOW ADJUSTMENT**



Every valve is equipped with a visual indicator for lubricant discharge adjustment.  
 The valve discharge can be adjusted on site to suit the application needs or preliminary specified by ILC during design phase.  
 Lubricant discharge percentage is directly displayed by the visual pin position (A).

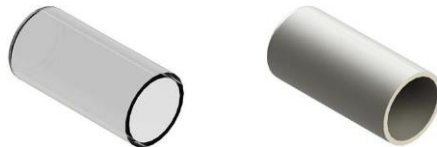
**BASE PLUG**

Closing plates can be installed in view of additional elements being added or unused points BSP-NPTF being removed.



5N.PC.SB

**CAP REGULATOR  
 PROTECTION**



Transparent  
 A83.120870

Aluminium  
 A83.120870.A

**KIT O-RING**

For base  
 Per valve

5N.O.RING.B  
 5N.O.RING.D