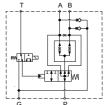


# 2-WAY FLOW DIVIDER FD-M2

- Modular
- Compact
- Energy efficient

# O

# **Hydraulic symbol**



Electric by-pass control with charge check valves.

## Operation

FD-M2 is a two-way medium-duty flow divider that assures parallel operation of wheels of the same axle or between different axles by dividing or combining the flow. It can operate in open or closed loop circuits. FD-M2 is equipped with normally opened by-pass that can be controlled electric or hydraulic.



If you have to add a flushing valve in a closed loop circuit equipped with a flow divider, you have to install the flushing valve between the pump and the flow divider.

# **Features**

Hydraulic			
Max. pressure	bar [PSI]	420 bar [6 000 PSI]	
Max. flow	l/min [gal/min]	150 [39.6]	
Dividing/combining accuracy		from +/- 5% to +/- 10% according to flow range	
Type of hydraulic connections		ISO 1179-1 (BSPP); ISO 11926-1 (UNF)	
Weight	kg [lbs]	7,9 [17.4]	
Surface treatment		Zn plating Fe//Zn8//Cn//T2 (DIN 50979)	
Fluid temperature	°C [°F]	-20 to +90 [-4 to +200]	
Fluid viscosity	mm²/s [SSU]	15 to 380 [75 to 1760]	
Fluid contamination	ISO 4401:1999	max 20/18/14	

Electrical		
Solenoid supply voltage	V DC	12, 24; ±10%
Solenoid power consumption	W	17,2 (12V DC), 16,6 (24V DC)
Solenoid duty cycle		100% ED
Max. ambient temperature	°C [°F]	70 [158]

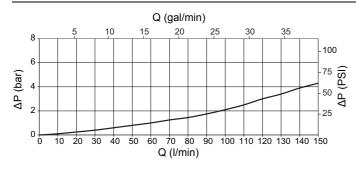
### Pressure drop

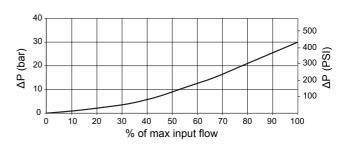
Test conditions: HV 46 hydraulic fluid at 40°C (104°F)

Measured at 50 °C [122 °F] and viscosity of 32 mm<sup>2</sup>/s [148 SUS].

By-pass mode

# Divider mode





# Installation

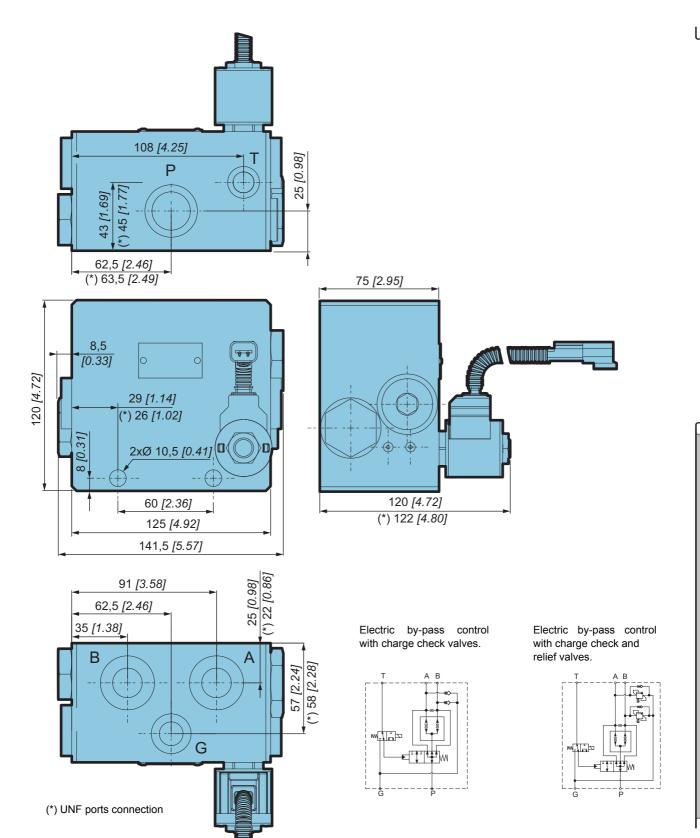
4

Mounting position: Indiferent

(*) As per standard DIN 912	(*) N.m [lb.ft]	Class	
( ) / 10 por etaman a 2 e 1	49 [36]	8.8	2xM10

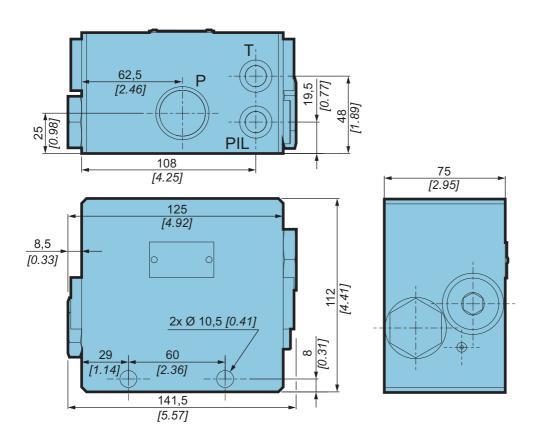
24/03/2016

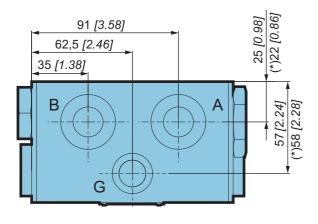
# **Dimensions - options according to model code:**





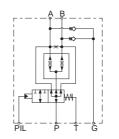
# **Dimensions - options according to model code:**



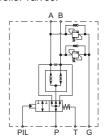


(\*) UNF ports connection

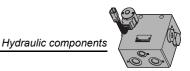
Hydraulic by-pass control with charge check valves.



Hydraulic by-pass control with charge check and relief valves.



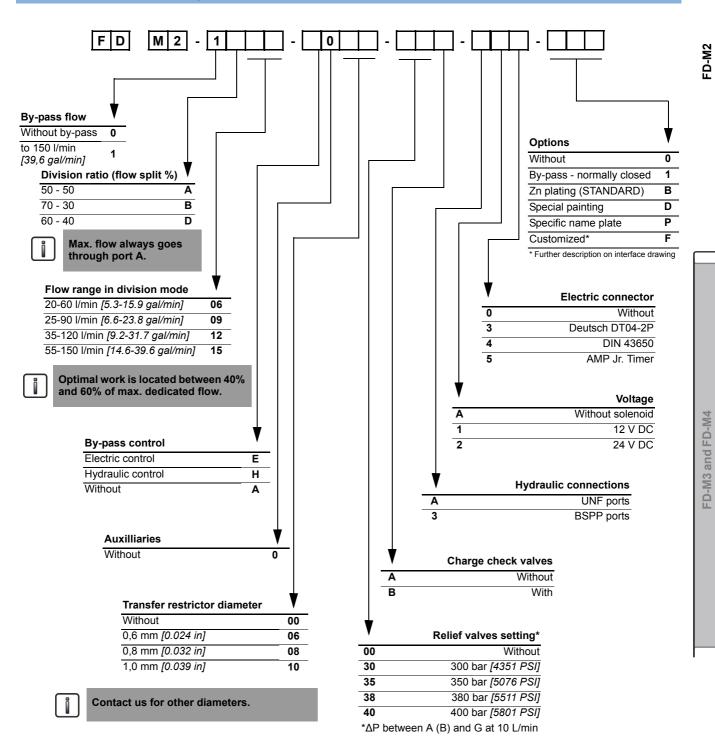
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# Dimensions - options according to model code:

		Connection			
Port	Function	BSPP ISO 1179-1	UNF ISO 11926-1	Max. pressure bar [PSI]	Min. pressure bar <i>[PSI]</i>
Р	Main flow inlet-outlet	3/4"	1"1/16-12	420 [6000]	
A B	Divided flow outlet - combined flow inllet	1/2"	7/8"-14	420 [6000]	
G	Charge flow inlet	3/8"	3/4"-16	50 [725]	8 [116]
PIL	Pilot flow inlet (hydraulic by-pass only)	1/4"	9/16"-18	50 [725]	8 [116]
T	Drain	1/4"	9/16"-18	5 [73]	

# Dimensions - options according to model code:



24/03/2016

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