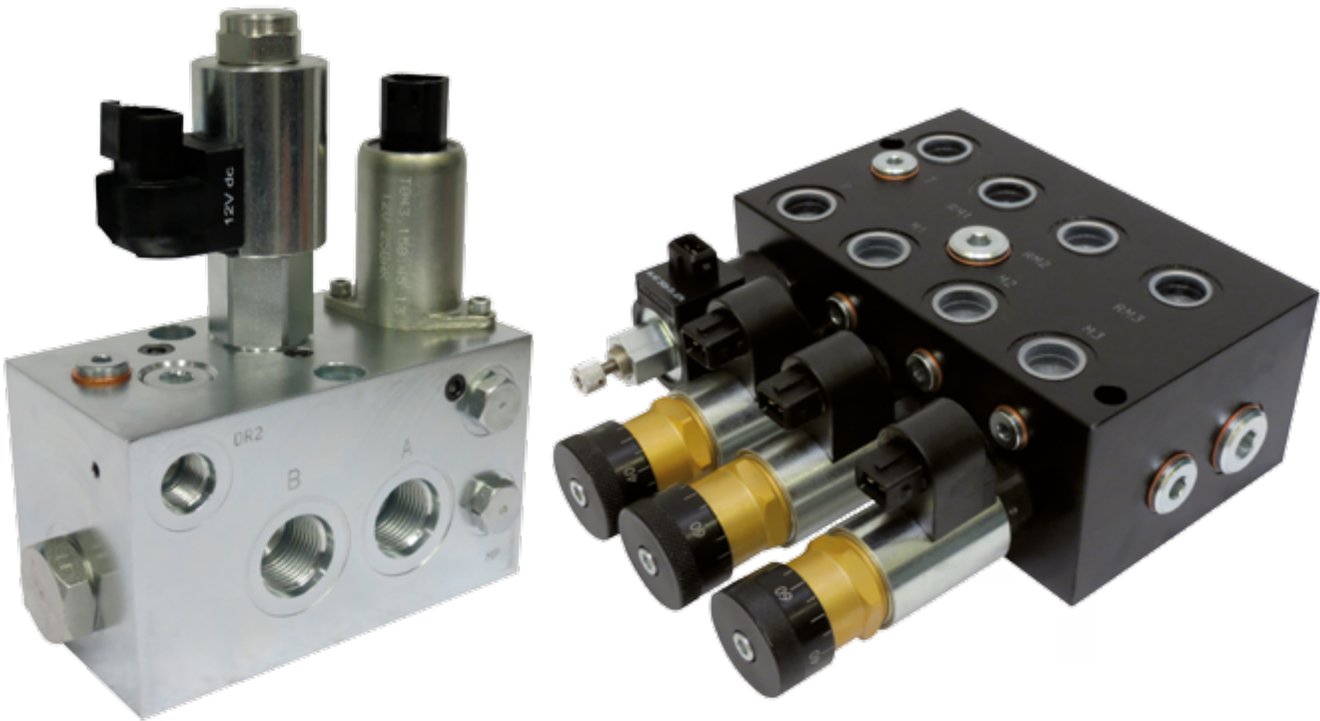


PRE-ENGINEERED



FAN DRIVE HIC HP4

SPREADER VALVES HP6

PROPORTIONAL REMOTE CONTROL HIC HP8

W 7 / 2017

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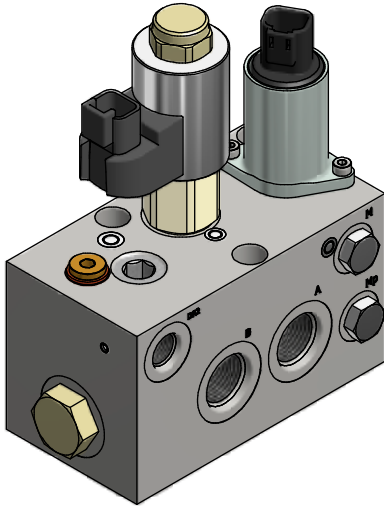


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HFD SERIES PROPORTIONAL REVERSING FAN DRIVE HIC



DESCRIPTION

The HFD hydraulic block controls the cooling fan speed, modulating the supply pressure to the fan motor. By actuating the Pilot Operated Directional Valve, the oil flow to the motor is reversed, permitting the de-clogging of the cooling pack, increasing its efficiency and avoiding over-heating.

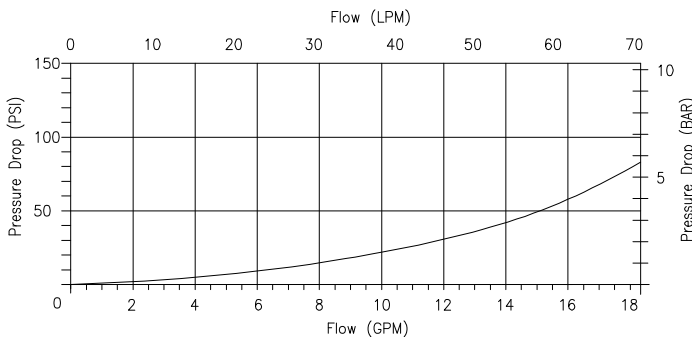
FEATURES

- Best-in-Class Pressure Drop (considering the compact overall dimensions).
- Normally Closed Proportional Pressure Relief valve EE-PRB (RV) - the supply pressure decreases by increasing the current; if the current goes to zero, the fan speed goes to max (fail safe).
- Reversing Pilot Valve IP-DAR43 (EV1) - Controllable both On/Off and Proportional.
- Reversing Directional Valve - special design for soft reversing without anti-shock valves to protect the motor from pressure peaks.
- Anti-cavitation Check on the P-line (ACV).
- External pilot option (from Port M).
- Version without Proportional Pressure Relief Valve available for application with Variable Displacement Pump (contact Tecnomat/Delta Power for details).

PERFORMANCE CURVES

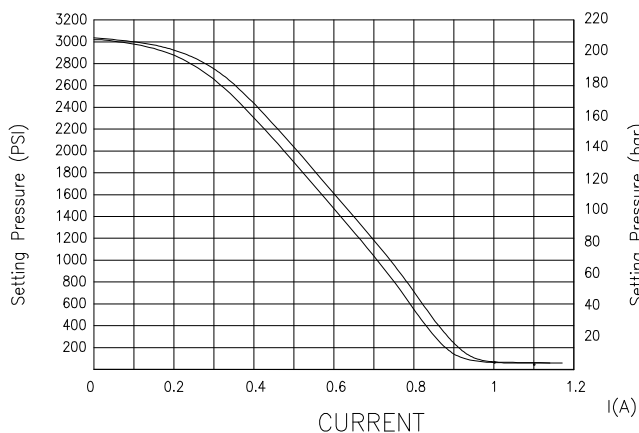
PRESSURE DROP P->A->B->T

Hydr.Oil 26cSt [121 SSU] @ 40°C [104°F]

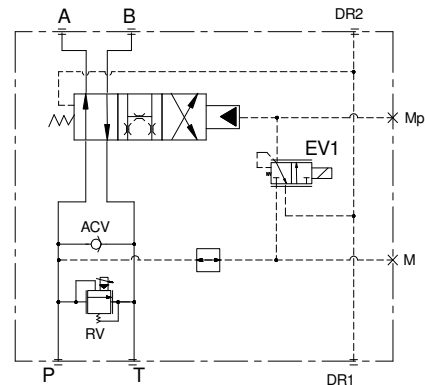


PRESSURE vs CURRENT (RV)

Hydr.Oil 26cSt [121 SSU] @ 40°C [104°F] – 12V Coil



SCHEMATIC



VALVE SPECIFICATIONS

Nominal Flow	A version - 20 GPM (40 LPM) B version - 40 GPM (80 LPM)
Rating Operated Pressure	3650 PSI (250 bar)
Minimum Pressure to pilot	A version - 5 bar B version - 10 bar
Coil Voltage	12V/24V
PWM Dither	150Hz
Coil Termination	Deutsch DT04-2P
Fluid Temperature Range	5° to 220°F (-15° to +105°C)
Viscosity Range	3-650 cSt
Oil Filtration Degree	18/15 (ISO 4406)
Weight	12 lbs (5.8 kg)

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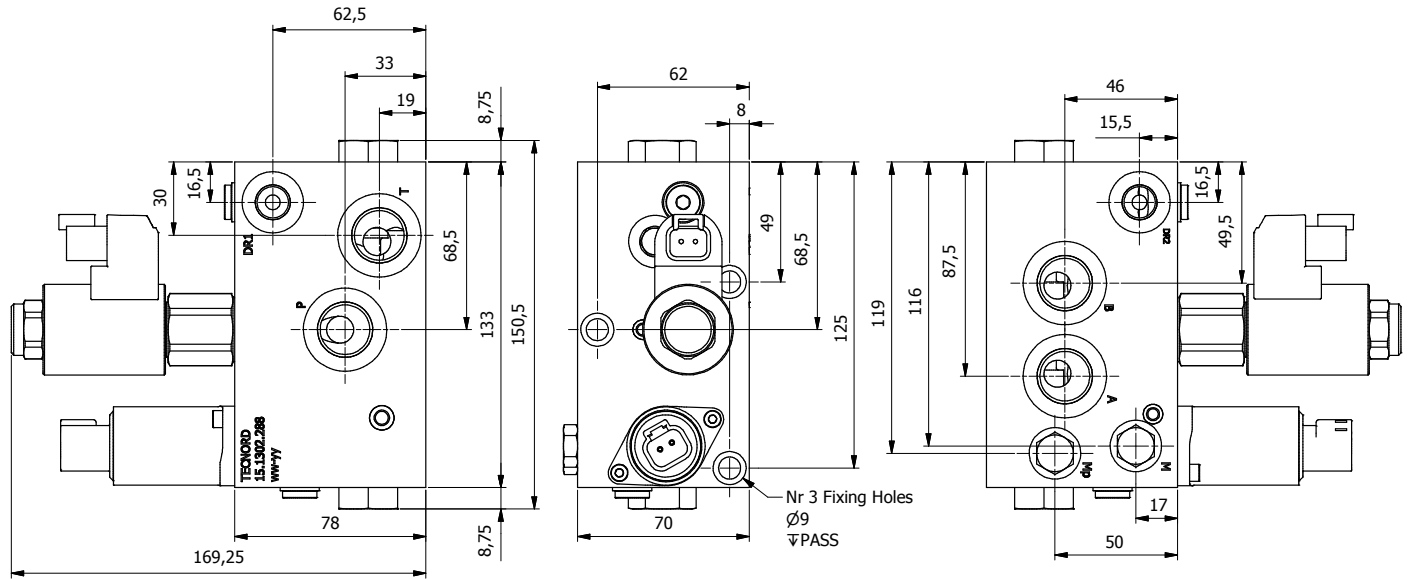


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DIMENSIONS



ORDERING INFORMATION

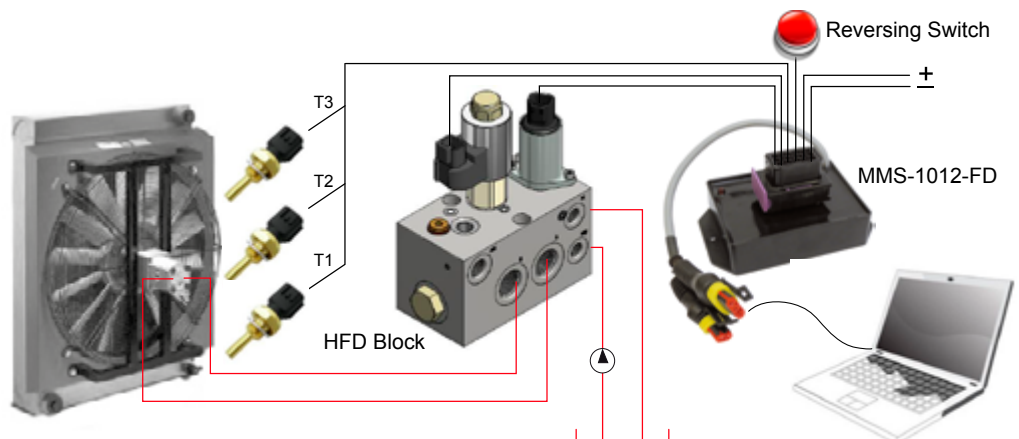
HFD -	A	-	P	-	V0	-	A	-	150	-	DI	-	12	-	N
<u>FLOW RANGE</u>						<u>SEALS</u>		<u>PRESSURE SETTING</u>				<u>VOLTAGE</u>		<u>PORTS</u>	
20 GPM (40 LPM) A				V0		Viton		XXX Setting in BAR				12 12 VDC		1/2" BSP	
40 GPM (80 LPM) B												24 24 VDC		#10 SAE	
		<u>CONTROL TYPE</u>													
		P Proportional Relief													
		00 None													
								<u>PRESSURE RANGE</u>				<u>COIL TERMINATION</u>			
								A 65-2200 PSI (5-150 bar)				Deutsch DT04-2P			
								B 65-3650 PSI (5-250 bar)		DI		Consult factory for alternatives			

EHFD SYSTEM – ELECTRO HYDRAULIC FAN DRIVE SYSTEM

Combining the HFD hydraulic block and MMS-1012-FD Controller, Tecnomat/ Delta Power can provide to OEMs a complete electro-hydraulic system to control the Fan Motor.

FEATURES

- Up to 3 Temperature Inputs
- Up to 2 Digital Inputs (Switches)
- 2x PWM Output
- 3x ON/OFF Outputs
- PC-programmable
- IP67



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