

Fan Drive HICs Catalog Proportional and Reversing Control RFDE-40-PRV & RFDE-80-PRV



DIMENSION DRAWING

Fan Drive HICs Catalog RFDE-40-PRV & RFDE-80-PRV

OPERATION

This HIC regulates fan speed by controlling pressure drop across the fan motor. It operates in a normally closed configuration in the absence of an electrical signal. The HIC reverses flow to the fan motor to reverse fan direction. It includes a DV15-P5-FD open transition spool valve to reduce pressure spikes during reversals. Internal and external piloting options are available. This HICs trims the maximum motor torque by absorbing pressure spikes at the work ports. An anti-cavitation feature allows additional flow to the motor when the motor over-runs the pump.

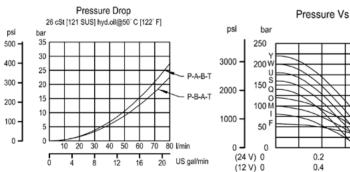
APPLICATIONS

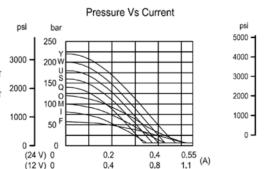
This HIC includes an integrated proportional relief valve to modulate fan speed in circuits using a fixed pump. It can also be used for fan reversal. Use this HIC for mobile equipment such as wheel loaders for purging (de-clogging) coolers and radiators to prevent overheating and increase cooling system efficiency. A drain port is included for motor case drain.

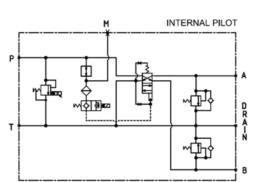
SPECIFICATIONS

Rated pressure	210 bar [3045 psi]
Flow range - RFDE-40-PRV	10 - 40 l/min [2.6 - 10.5 US gal/min]
Flow range - RFDE-80-PRV	20 - 80 l/min [5.3 - 21.1 US gal/min]
Weight	4.0 kg [9.0 lb]
Valves	DV15-P5-24-FD, SVP08-NC, PRV10-IS2, PVLP
Minimum pilot pressure	2 bar [29 psi]
Robust Coil (Standard)	R13 16 Watt (IP69K)
Diode (Optional)	Bi-directional (Not available with PRV10-IS2) M19P 22 Watt [IS2] (IP69K)

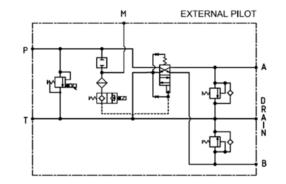
PERFORMANCE CURVES



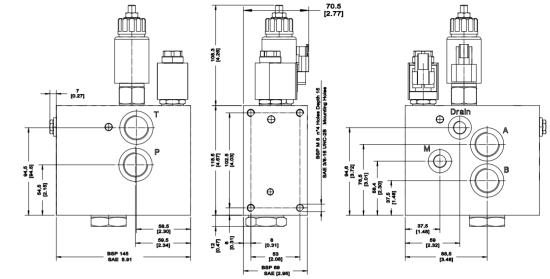




SCHEMATICS

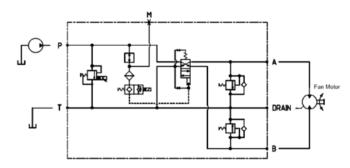


Relief Pressure Vs flow

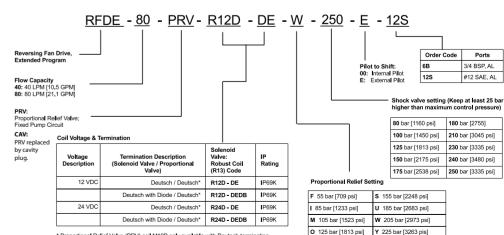


EXAMPLE CIRCUITS

Internal Pilot (00)



ORDERING INFORMATION



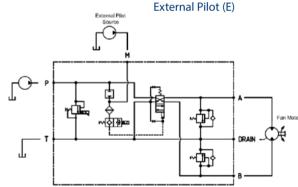
* Proportional Relief Valve (PRV) coil M19P only available with Deutsch termination

12 16 20 US gal/min

60

Proportional and Reversing Control

Dimensions mm [in]



Q 135 bar [1958] NP No Setting (CAV option only

FD - 11

FD - Fan Drive HICs RFDE-40-PRV & RFDE-80-PRV