

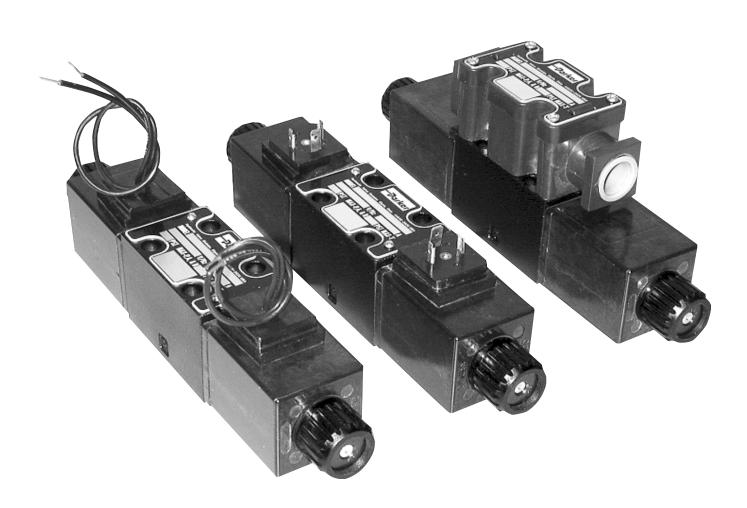
Bulletin HY14-2597-B1/US

Proportional Directional Control Valves

Series D1FW, NG06 (03) and D3FW, NG10 (05)

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Supersedes: Bulletin 2597-B1 dated March 27, 2000



Contents

Series D1FW and D3FW

Technical Information	1
General Description	1
Features	1
Specifications	1
Performance Curves	2
Dimensions	3
Mounting Interface Dimensions	4
Ordering Information	5

/ WARNING

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Technical Information

General Description

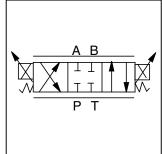
The D*FW series direct operated proportional directional control solenoid valves provide variable flow output in response to variable current input. Valves are available in sizes NG06 (CETOP3) and NG10 (CETOP 5).

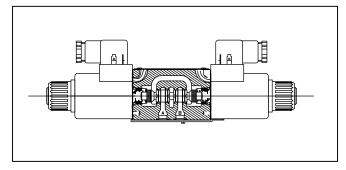
Typical applications include reproducible control of actuator speed in rapid/slow speed profiling, and smooth acceleration and deceleration performance.

Features

- Standard DIN/ISO/CETOP/NFPA interfaces.
- Conduit box, lead wire and DIN connector options for coil wire connections.
- Low leakage.
- Progressive flow characteristics for improved low flow resolution.
- Spring centered spool.
- Wide selection of spool options and flow capacity.
- Custom configurations available to meet specific OEM customer requirements.
- Manual overrides.







Wiring D*FW — Solenoid Coil





1 = coil connection 2 = coil connection

PE = ground potential

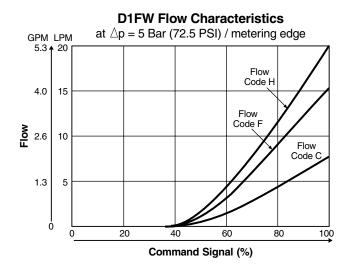
Specifications

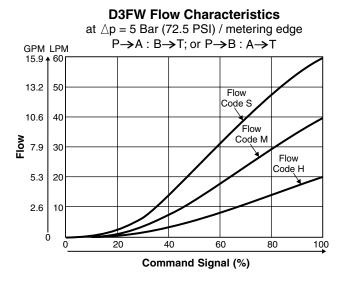
Interface DIN (NFPA/ISO/CETOP)		NG06 (03)			NG10 (05)			
Flow Rating @10 Bar (150 PSI) Δp (P→A, B→T) (spool options up to)		, B→T) LPM (GPM)		20 (5.3)			60 (15.9)	
Maximum Flow (refer to operating limits curves) LPM (GPM)		47 (12.5)			170 (45)			
Step Response ms		100			165			
Weight			kg. (lbs.)	2.5 (5.5)		6.8 (15)		
Recommended Dither – 1% of rated current			8% @ 100 Hz			8% @ 70 Hz		
Solenoid Order Code				J	K	М		К
Nominal Resistance Nominal Current Nominal Voltage			ohms amps voltage	24 0.9 24	6 1.8 12	3.3 2.5 9		4 2.5 12
Mating Connectors – Solenoid (DIN 43650) (optionally included with valve: see Ordering Information, Solenoid Accessory code "P")			Part #692914 (Black) Part #692915 (Gray)					
Hysteresis	%	<8		Fluid V	iscosity, F	Recommend	ed	80 – 1000 SSU
Repeatability	%	<2		Fluid Temperature,			0°C to +60°C	
Max. Operating Press Port P, A, B (1) Port T	Bar (PSI)	315 35	(4500) (500)	Environmental Protection Clas		ass	(+32°F to +140°F) NEMA 1 (IP54)	
Fluid Cleanliness Lev	/el	ISO	Class 16/13	Ambient Operating Temperature			-20°C to +60°C (-4°F to +140°F)	

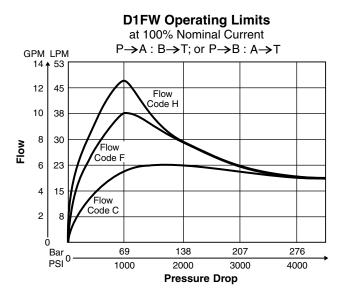
(1) Consult factory for 345 Bar (5000 PSI) applications.

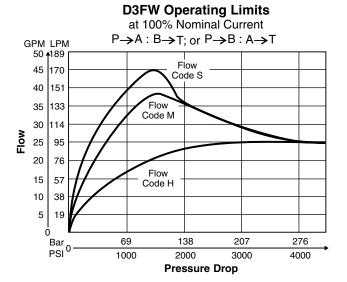








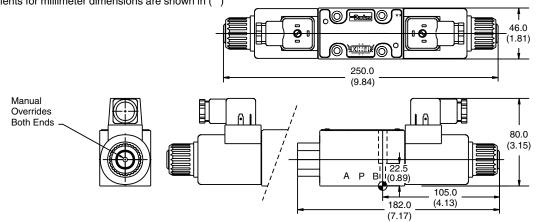




Parker Hydraulics

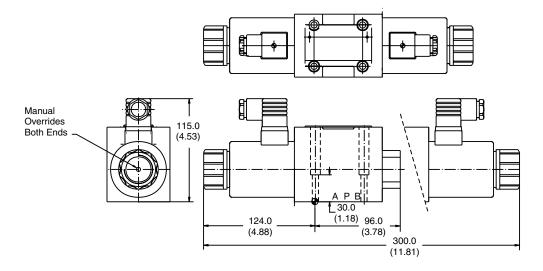
D1FW with Hirschmann Connectors

(Overall dimensions are the same for both can and overmolded coils. Can coils shown.) Inch equivalents for millimeter dimensions are shown in (**)



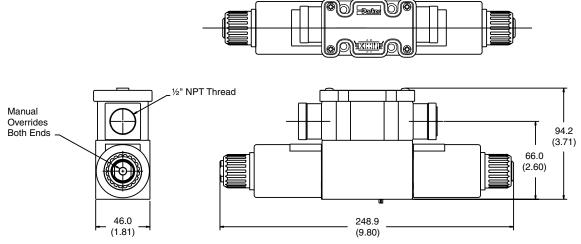
D3FW with Hirschmann Connectors

Inch equivalents for millimeter dimensions are shown in (**)



D1FW with Conduit Box

(Overall dimensions are the same for both can and overmolded coils. Can coils shown.) Inch equivalents for millimeter dimensions are shown in (**)



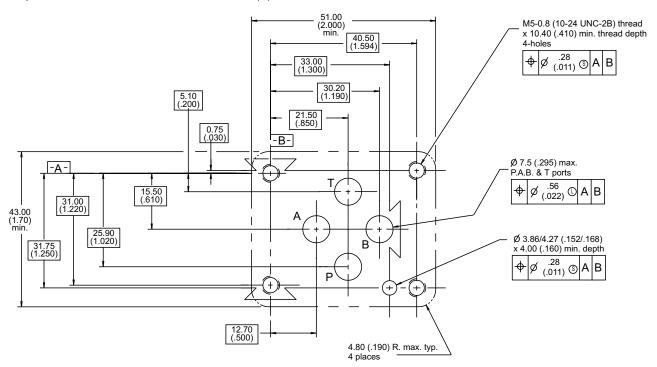


2597-b1.p65, dd, bm



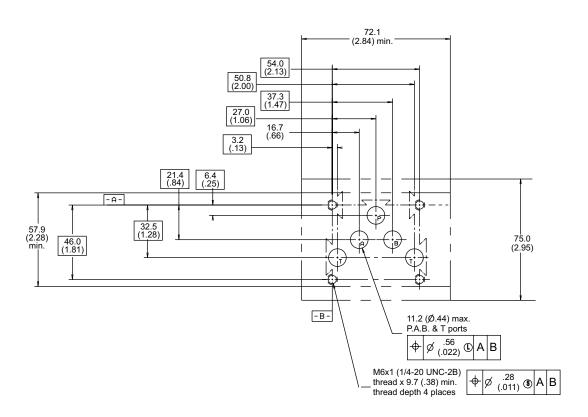
Size NG6 (NFPA/ISO/CETOP 03)

Inch equivalents for millimeter dimensions are shown in (**)



Size NG10 (NFPA/ISO/CETOP 05)

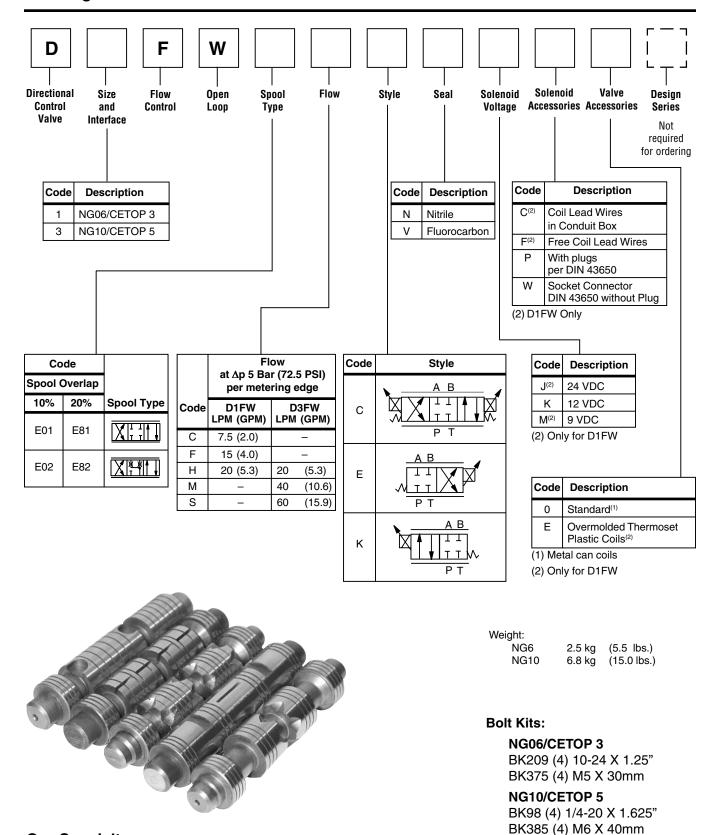
Inch equivalents for millimeter dimensions are shown in (**)



2597-b1.p65, dd, bm



Ordering Information



Our Specialty.....

Custom spool configurations for OEM's.

Contact your local Parker representative with your requirements.

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