Pilot Operated Proportional DC Valve with LVDT

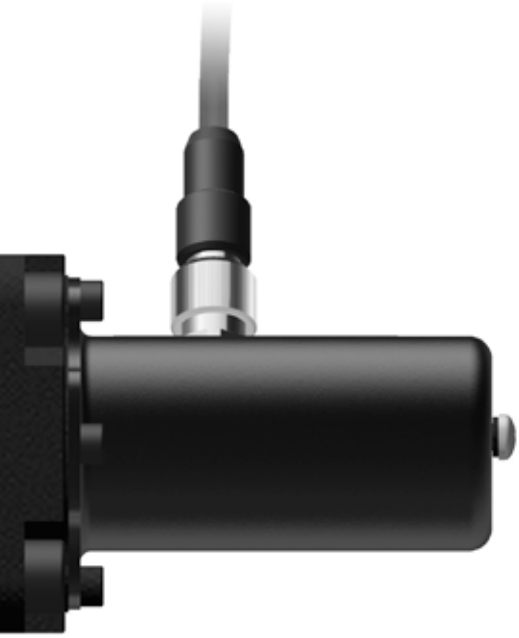
Series D*1FC

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

ENGINEERING YOUR SUCCESS.

Enhanced equipment, the best conditions

The new D*1FC series from Parker provides the optimal prerequisites for economic use in demanding applications. The valves are equipped with integrated control electronics, which permanently control the main spool position.



The technical features:

- Pilot operated control valves with position feedback of the main stage in four nominal sizes: NG10, NG16, NG25, NG32
- Pilot valve based on D1FB with spool/sleeve design with high differential pressure capability (no pressure reducing valve required)
- Progressive flow rate characteristics
- Volume flow of up to 1000 l/min at a differential pressure of 5 bar per control edge
- On-board electronics are parametrizable via free software ProPxD
- Options:
  - Center position monitoring
  - Energy saving A-regeneration
  - Switchable hybrid version

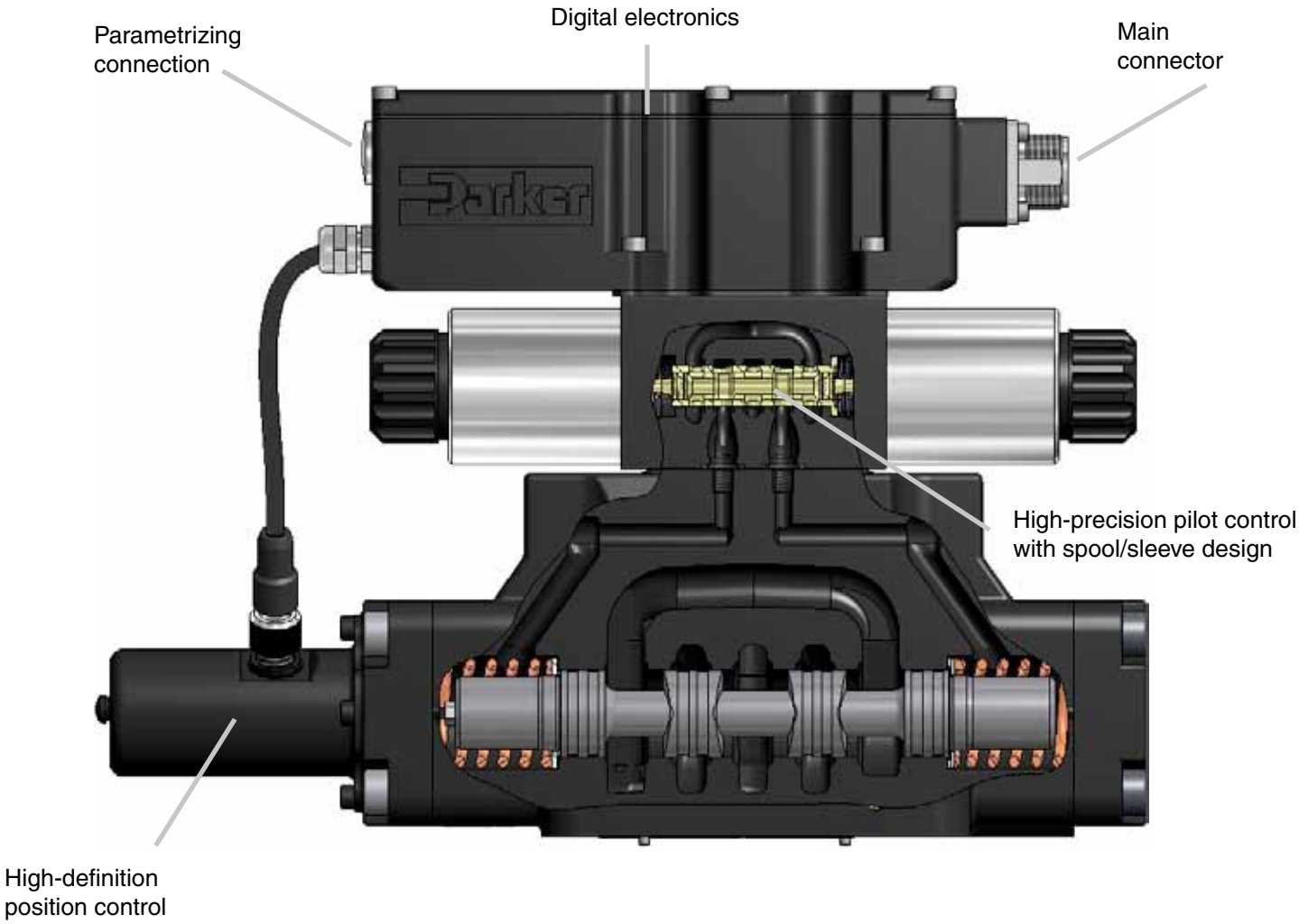
Hydraulic characteristics

Nominal size	D31FC	D41FC	D81FC	D111FC
	NG10 (CETOP 05)	NG16 (CETOP 07)	NG25 (CETOP 08)	NG32 (CETOP 10)
Max. operating pressure	Pilot drain internal (bar): P, A, B, X 350; T, Y 210 Pilot drain external (bar): P, A, B, T, X 350; Y 210			
Nominal flow at Δp = 5 bar per control edge	90 / 120 l	200 l	450 l	1000 l
Step response	35 ms	37 ms	66 ms	120 ms
Hysteresis	< 0.1 %			

Electrical characteristics

		Code K (B)	Code E	Code S
Command signal		+10…0…-10 V	+20…0…-20 V	4…12…20 V
Electrical connection		6 + PE acc. to EN 175201-804		
Adjustm. ranges	Min	0...50 %		
	Max	50...100 %		
	Ramp	0...32.5 s		

The D*1FC series at a glance



Advantages that count in competition

When developing the D*1FC series, customer requirements and wishes were paramount for Parker. The result: a pilot operated control valve that has its strengths where it gives the user competitive advantages.

Strengths

- High flow
- Very good repeatability
- High load stiffness and stability
- Parametrizable ramps
- Progressive flow rate characteristics
- Solenoid shutdown possible (optional)

Customer benefits

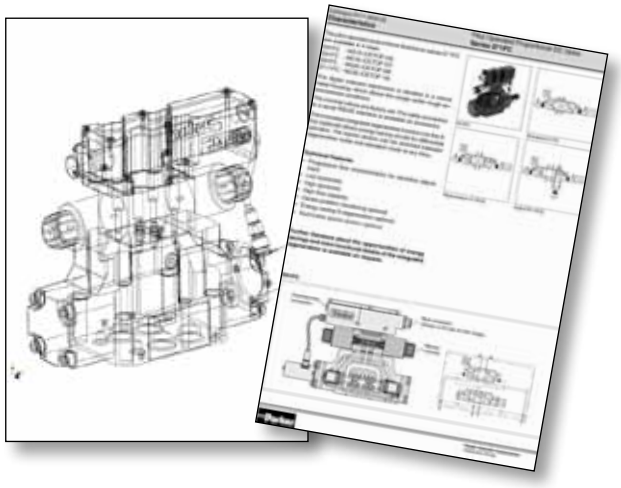
- Suitable for demanding open loop applications
- Improved process and product accuracy
- Quickly and easily parametrizable
- Short delivery times, no storage necessary

More detailed information? With pleasure!

Want to know more about the new D*1FC series? Just email us at valveshcd@parker.com. We'll be happy to give you more information about the technology of the D*1FC, show you application examples and send you the relevant documentation.

You can find further details on our website www.parker.com/euro_hcd. There you can find the current version of our ProPxD software, available to download for free.

The accompanying QR Code leads you directly to the catalog data sheet with detailed depiction of the technical data.



D*1FC: The new digital class

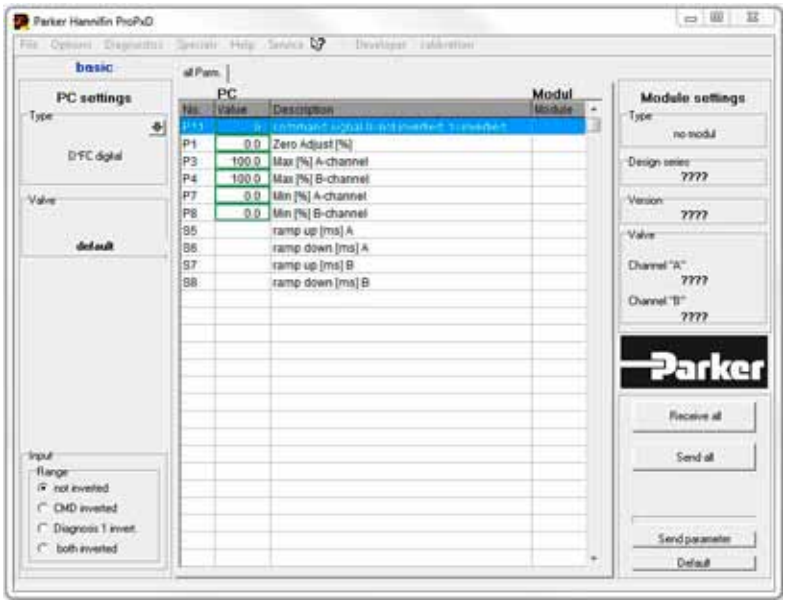
Parker is expanding its range of pilot operated proportional DC valves with integrated digital electronics with the new D*1FC series. It is characterized by high-precision control and simple parametrization using Parker ProPxD software.

By using digital electronics, the D*1FC series can be equipped with a modern, high-definition position control. The parameters of the valve electronics can be accessed where required via the free, user-friendly ProPxD software. The integrated diagnostics function also makes optimal configuration easier.

These benefits are complemented by a high-quality mechanical design. The pilot valve is based on the tried and tested Parker D1FB control valve with spool/sleeve design and guarantees pilot control with high precision.

Center position monitoring and designs with energy saving A-regeneration and a switchable hybrid version are also optionally available. The integrated regenerative function in the A-line (optional) allows for new energy saving circuits with differential cylinders. The hybrid version can switch between regenerative mode and standard mode at any time

The new D*1FC series offers an excellent price-performance ratio and best conditions for an economic, reliable operation.



If the application requires a change to the basic settings of a valve, Parker's free ProPxD software enables easy access to parameters of the D*1FC valve electronics. Values can be set, stored, and copied via the clear user interface.

Parker

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 22 33 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +375 17 209 9399
parker.belarus@parker.com

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaoers
Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

US – USA, Cleveland (industrial)
Tel: +1 216 896 3000

US – USA, Elk Grove Village (mobile)
Tel: +1 847 258 6200

Asia Pacific

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

CN – China, Shanghai
Tel: +86 21 2899 5000

HK – Hong Kong
Tel: +852 2428 8008

ID – Indonesia, Tangerang
Tel: +62 21 7588 1906

IN – India, Mumbai
Tel: +91 22 6513 7081-85

JP – Japan, Fujisawa
Tel: +81 (0)4 6635 3050

KR – South Korea, Seoul
Tel: +82 2 559 0400

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

SG – Singapore
Tel: +65 6887 6300

TH – Thailand, Bangkok
Tel: +662 717 8140

TW – Taiwan, New Taipei City
Tel: +886 2 2298 8987

VN – Vietnam, Ho Chi Minh City
Tel: +84 8 3999 1600

South America

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

BR – Brazil, Cachoeirinha RS
Tel: +55 51 3470 9144

CL – Chile, Santiago
Tel: +56 2 623 1216

MX – Mexico, Toluca
Tel: +52 72 2275 4200

Catalogue HY11-3354/UK, LM, 01/2014

Parker Hannifin Corporation
Hydraulics Group
6035 Parkland Boulevard
Cleveland, OH 44124
phone 1 800-C PARKER
www.parker.com/hydraulics

Your local authorized Parker distributor