

Bulletin HY14-2720-B1/US

Series PD and PDC Flow Divider

Proportional-Type Pressure Compensated

Effective: February 1, 2004 Supersedes: Cat. No. GPA-1-100 dated 3/95

Features

- Pressure compensated
- Optional series PDC synchronizes in both directions
- Cross drilled, shifting-type spool: provides accurate metering
- Six ratios available in series PD
- High-tensile cast iron body
- Hardened metering spool



Description

The Parker Series PD, Proportional-Type, Pressure Compensated Flow Divider offers an efficient means of proportionally dividing a single flow of hydraulic oil. The flow ratio from the outlet ports remains constant despite load differences between the ports. Outlet flow ratios are preset at the factory and a range of ratios from 50/50 to 90/10 are available. Flow through the Series PD Divider cannot be reversed. It is a flow divider only — not a flow combiner.

The Parker Series PDC with a combiner feature is offered by substituting a combiner spool assembly for a standard spool. This feature not only divides flow, but flow may be combined in reverse direction and synchronized in both directions. It is only available with a 50/50 flow dividing ratio. If other ratios are required with the combiner feature, consult the factory.

Series PD and PDC Flow Dividers will divide the inlet flow to $\pm 10\%$ of the specified, major output flow when used within recommended capacities. Neither series however, should be construed as a flow regulator.

In many applications, actuators can displace fluid different from the ratio of the divider and lockup. A means of rephasing the actuators is recommended.

Specifications

Capacity (nominal)

Low Flow Models	5-20 GPM [18-94 litres/min]
High Flow Models	20-35 GPM [56-132 litres/min]
Maximum Operating Pressure	2500 PSI [172 bar]
Shipping Weight	Approx. 7 Pounds [3,2 kg]



PERFORMANCE

Typical results derived from laboratory tests run with 150 SUS oil at 100°F [37,81°C].

IN DIVIDER MODE FROM INLET TO JOINED LEGS









ORDER CODE			
MODEL PD Flow Divider PDC Flow Divider/Combiner	DELL NO. PDC - 75 - PORT SIZES (ALL PORTS)* Low Flow Models (5-20 GPM) 8 SAE 8 (3/4" - 16 UNF) 20 SAE 10 (7/8" - 14 UNF) 50 1/2" - 14 NPT 51 1/2" - 14 BSP High Flow Models (15-35 GPM) 12 SAE 12 1-1/16" - 12 UNF 75 3/4" - 14 BSP *All ports must be the same thread size NOTE: NPT ports are not recommended pressures above 2000 PSI [138 bar].	50 60 67 70 80 90	FLOW DIVIDING RATIO 50%/50% 60%/40% 66-2/3%/33-1/3% 70%/30% 80%/20% 90%/10%

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