# Logic Elements PFRD-20



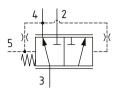
Pressure Compensator, Load Sense, Dynamic, Priority Type

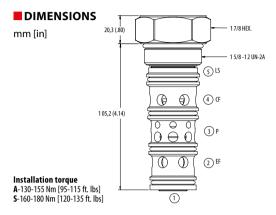
240 bar [3500 psi] • 230 l/min [60 US gpm]

## DESCRIPTION AND OPERATION

This is a 5-ported, dynamic, priority load sense pressure compensator that supplies fluid on demand to an actuator or a steering valve. Flow passes from the inlet port 3 to the controlled flow port 4. Pressure in port 4 is connected to port 1 (which is plugged) through an orifice and to port 5. When the pressure in port 1 is higher than the load sense pressure in port 5, the spool moves against the spring and begins to open port 2 and allows excess flow to pass to the rest of the system. When the flow is no longer required through the controlled port and the load sense line falls, all of the oil will pass to the excess flow port 2. Some oil will pass from port 5 to port 1, which provides additional stability to the system.

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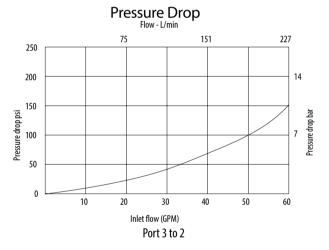
#### PERFORMANCE DATA

Rated pressure	240 bar [3500 psi]
Rated flow	230 l/min [60 US gpm]
Leakage	164 ml/min [10 in <sup>3</sup> /min] @ 210 bar [3000 psi]
Weight	0.86 kg [1.9 lb]
Cavity	C-20-5S

Note: Port 1 is unused and should be plugged.

Note: Minimum inlet flow should not be less than 1/4 maximum of inlet flow.

### PERFORMANCE CURVES



#### MODEL CODE

Basic Code					Differential Pressure			
PFRS - Static signal				Code	Bar Ps	si		
<b>PFRD</b> - Dynamic signal				085	5.9 [8	5]		
					110	7.6 [1	10]	
Seal Option	Conthin							
Code	Seal kit							
<b>U</b> -Urethane	02-187543			Housing				
				Code	Port 2, 3 & 4	Port 5	Aluminum	Steel
				000	No housing			
Housing Material				12T	#12 SAE	#4 SAE	4998822-001	4998823-001
A Nelleveine				16T	#16 SAE	#4 SAE	4998822-002	4998823-002
<b>0</b> - No Housing <b>A</b> - Aluminum				06G	3/4" BSP	1/4" BSP	4998822-003	4998823-003
				004	5/1 051			