Logic Elements

PFRD-12

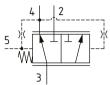
Pressure Compensator, Load Sense, Dynamic, Priority Type

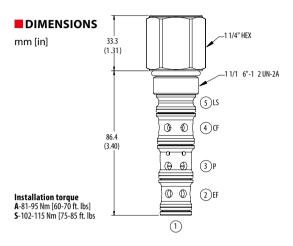
280 bar [4000 psi] • 76 l/min [20 US gpm]

■ 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.

SCHEMATIC





Danfoss

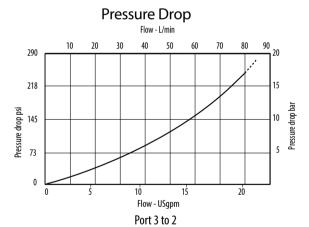
PERFORMANCE DATA

Rated pressure	280 bar [4000 psi]
Rated flow	76 l/min [20 US gpm]
Leakage	164 ml/min [10 in3/min] @ 210 bar [3000 psi]
Weight	0.36 kg [0.79 lb]
Cavity	C-12-5S

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

