

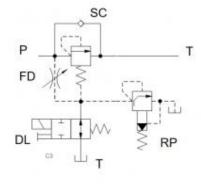
Pressure Ramp Up for Fixed Displacement Pumps

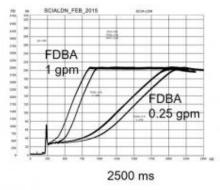
Machine: | Actuator: Pump | Function: Pressure

Prepared for : Prepared by :

Schematics

Summary





Related Products

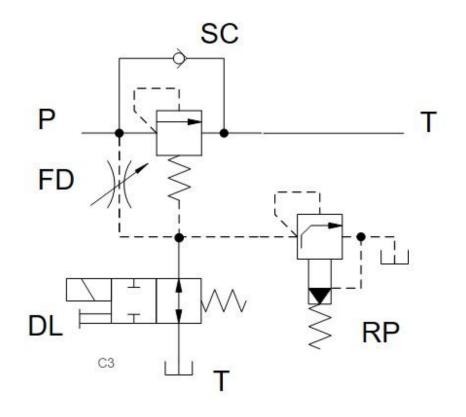
Cartridges

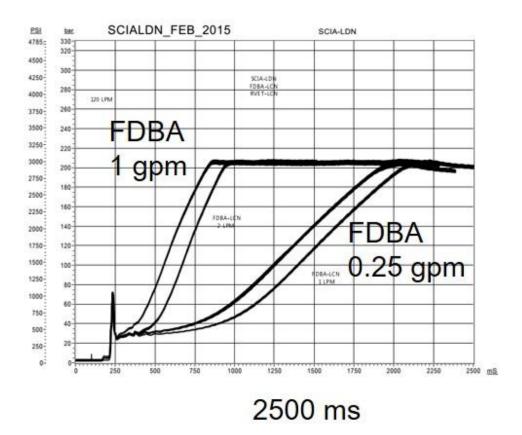
SCEA - Direct-acting sequence valve with reverse flow check

RPET - Anti-Shock, pilot-operated, balanced poppet relief valve

FDEA - Fully adjustable pressure compensated flow control valve with reverse flow check DLDA - 2-way, solenoid-operated directional spool valve

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The anti-shock relief valve like RP*T has a fixed ramp time of about 300 ms and controls the relief function of the SC*AA FD*. A flow control valve can be used to increase the ramp time.

Direct-acting sequence: <u>SC*A</u>
Relief valves as pilot: <u>RP*T</u>

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Flow control: <u>FD*A</u>
2/2 way directional valve: <u>DL*A</u>

Benefits of this circuit arrangement:

• The 2/2-way DL*A directional valve fully unloads a pump to tank. When the pump is brought on line by energizing DL*A, the pressure build up in the system will follow ramp times as shown in the graph. The ramp time is adjusted via a FD*A with a flow rate of 0.25 to 1 gpm.

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