

Bulletin HY30-8227-INST/UK

Installation Information Bypass Valves BPV for F1 and T1 pumps

Effective: August 25, 2011 Supersedes: January 18, 2011



Install the BPV-F1/-T1 bypass valve block on the pump

 Assemble the cartridge valve in the F1/T1 bypass valve block (BPV) and tighten to 46 ± 3 Nm

- 2. Assemble the solenoid to the cartridge valve and tighten the nut to 8 ± 1 Nm
- 3. Assemble first the spacer bushing with two O-rings in the suction port on the top of the pump. Than assemble the complete valve block with the pressure connector and O-rings in the pressure port on the end cap on top of the pump as shown in the figure to the right and the two figures below. The Pressure connector - shall be tighten to: 50 ± 10 Nm for BPV-F1-25 to -61 and T1-81, 100 ± 10 Nm for BPV-F1-81 to -101 and T1-121

Note: As the BPV is symmetrical, it can be 'turned 180°' to prevent interference with chassis components; it can be utilised for either left hand or right hand pumps.



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Parker Hannifin Pump and Motor Division Trollhättan, Sweden Assemble the suction fitting to the valve block as shown in the figure to the right A 'suction fitting' consists of a straight, 45°, 90° or 135° suction fitting, clamps, cap screws and O-ring.

IMPORTANT!

Always tighten the pressure connector (see page 2) **before** tightening the cap screws (to **20–25 Nm**).

NOTE: A suction fitting kit is not included with the pump; it must be ordered separately



5. Installation of flow restrictor (valid only for pump F1-25): - Remove items 1, 2, 3 and 4 - Install items 5 and 4; carefully push down until item 4 bottoms against the housing seat - Remove item 4 and push down item 5 until it seats NOTE: Make sure not to damage the housing seat for item 4 5 - Reinstall items 4, 3, 2 and 1 and tighten to 125 ± 15 Nm. 4 F1-25 restrictor (included in drain line connector kit 378 1640) Tighten to 125 ± 15 Nm



6. Assemble the cable to the cable contact



Contact Insertion System (DTM/DT/DTP)



Contact Removal Procedure (DTM/DT/DTP)





Screw driver inserted to unlock contact

Contact removed



Assembly Contact Insertion (DTM, DT, DTP) Contact Removal

1. Grab the crimped contact approximately 25 mm behind the contact barrel.



- 1. Remove orange wedge using needlenose tongs to pull wedge straight out.



2. Hold connector with rear socket facing you.



2. To remove the contacts, gently pull wire backwards, while at the same time releasing the locking finger by moving it away from the contact with a screwdriver (also see page 4).



3. Push contact straight into connector socket until a click is felt. A slight tug will confirm that it is properly locked in place (also see page 4).



3. Hold the rear seal in place, as removing the contact will displace the seal.



4. Once all contacts are in place, insert orange wedge: receptacles - with half holes aligning with contacts. Plugs - with contacts aligning behind full holes. The orange wedge will snap into place.

NOTE: The receptacle is shown - use the same procedure for plug.





7. Check the return line flow when the pump is in the bypass mode during engine idling.





Position notification regarding Machinery Directive 2006/42/EG:

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- SS EN ISO13849-2:2008-09, C.2 and C.3 and,
- SS EN 982+A1:2008,

so that the machines in which the products are incorporated meet the essential health and safety requirements.

Confirmations for components to be proven component, e. g. for validation of hydraulic systems, can only be provided after an analysis of the specific application, as the fact to be a proven component mainly depends on the specific application.

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