PRODUCT CHANGE
PC-0090

Parker Hannifin Corporation
Hydraulic Pump and Power Systems Division
14249 Industrial Parkway
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Date: November 25, 2019

P1/PD Product Change Announcement
New Release of B-mod Controls

The Design Series B (B-mod) evolution continues. The Parker Hydraulic Pump and Power Systems Division (HPS) is pleased to announce the transition of more control options to the B-mod design.

As on Novemeber 25th 2019, the following controls will now be offered a B-mod options.

- AMT & L0T Controls for the 45 & 60cc sizes
- AN & ANT Controls
- AE & AF Controls
- C03, C06, L03, & L06 Controls

With the transition of the 45 & 60cc AMT & L0T controls to B-mod, now all the standard torque limiter options from 45-140cc are the B-mod design. As a result, the Universal “U” configuration for the 45 & 60cc pump are also now standard as B-mods since they include the torque limiter ports machined into the housing.

With the launch of the L0T (load sensing with torque limiting) control for the P1/PD-045 & 60, the ALT control (load sense with torque limiting) for the 45 & 60cc becomes obsolete effective immediately. No new orders will be accepted for part numbers containing “ALT”.

The A-mod AN, ANT, AMT, AE, & AF controls will still be available as orderable part number configurations for a limited time, but no new A-mod part numbers will be set-up with these control options. An announcement will be made over the next few months detailing the phase out plan for all A-mod controls that have been transitioned to B-mod. There will be a time period given for a last time buy, but users of these A-mod controls should try to transition to the B-mod version as soon as possible.

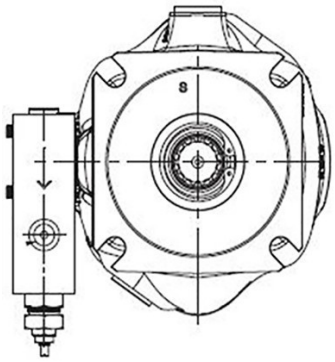
The unload / cold start controls (C03, C06, L03, L06) are also now standard as B-mod control options. Previously they were the A-mod design and considered special options. The B-mod design uses the same A-mod controller, but with the addition of a transition block in between the controller and the pump housing to accommodate the different pump housing control pad interface of the B-mod pump housing.

On the A-mod design for these controls, the compensator would stick out the opposite direction depending on direction of rotation. With the B-mod design, the compensator sticks out the same direction whether the pump is CW or CCW rotation. This is due to the difference in the pump housing control pad interface between the A-mod & B-mod. Please refer to the pages below for further details regarding the control changes and A-mod to B-mod differences.

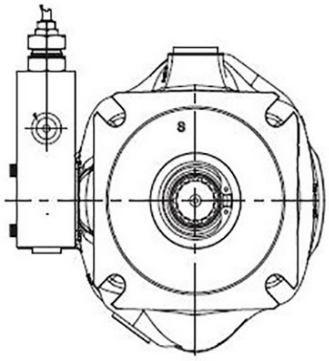
AN Control
AN = Pilot operated pressure limiting with D03 interface for mounting pilot valve directly onto pump

The B-mod AN control uses the same control as the AM B-mod control to accomplish the pressure compensator functionality, but then also has a small manifold block in order to accommodate the D03 proportional relief valve that is provided by the customer in order to electronically remotely control the pressure setting at which the pump compensates.

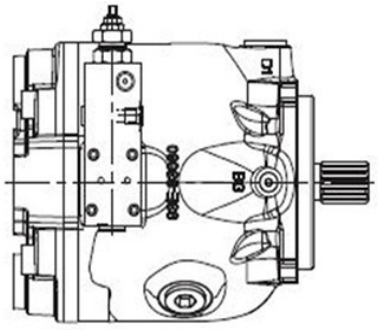
A-Mod CW



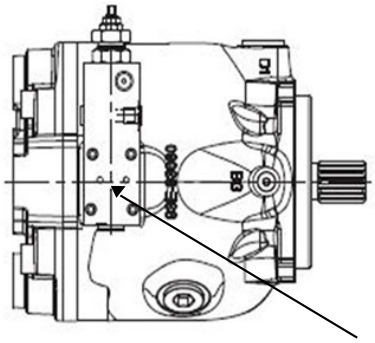
A-Mod CCW



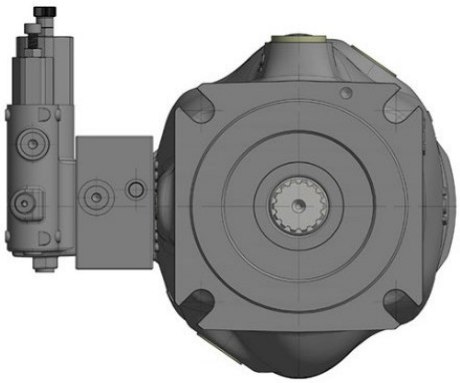
A-Mod CW

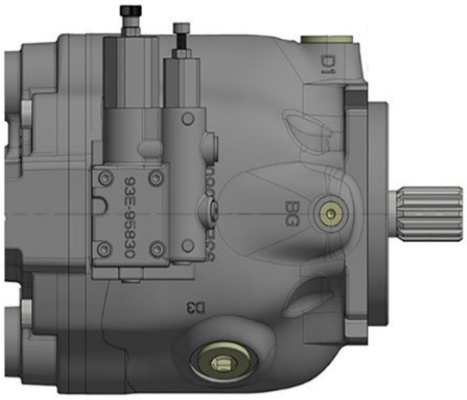


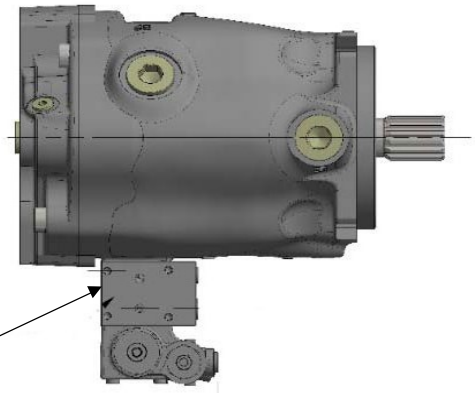
A-Mod CCW



B-Mod CW & CCW







D03 Mounting Surface

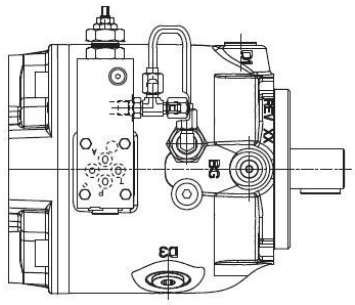
L0T, AMT, & ANT Control

L0T = Load sense with torque limiting (replaces ALT)
AMT = Remote pressure compensator with torque limiting
ANT = Pilot operated pressure compensator with torque limiting

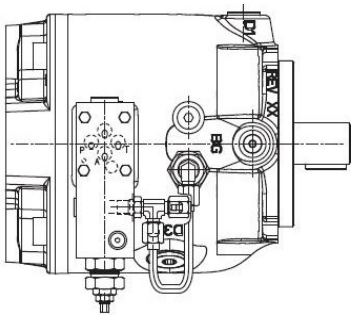
The B-mod torque limiting controls L0T (45 & 60cc), AMT (45 & 60cc), and ANT control (45-140cc) use the same adapter block as the AN B-mod control to allow enough space between the compensator and the torque limiting port to run the torque limiter tubing from the housing to the control. The L0T and AMT controls for the 75-140cc do not use that adapter block and remain unchanged from when they were originally launched in the B-mod version.

On the A-mod design, the compensator would stick out the opposite direction depending on direction of rotation. With the B-mod design, the compensator sticks out the same direction whether the pump is CW or CCW rotation.

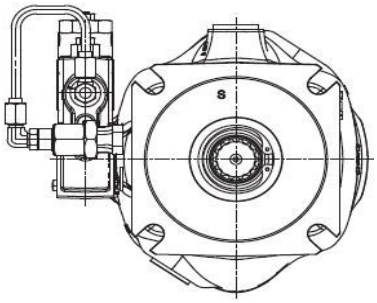
A-Mod CW



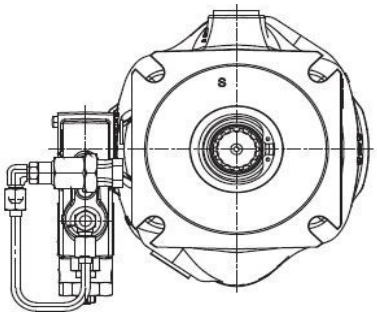
A-Mod CCW



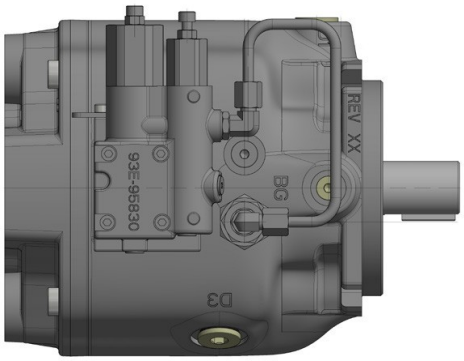
A-Mod CW

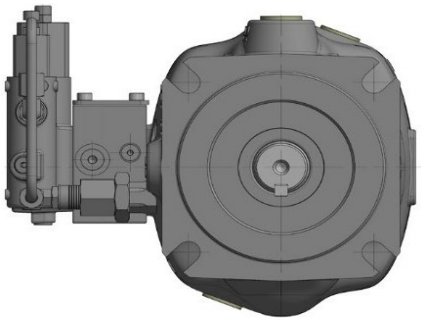


A-Mod CCW



B-Mod CW & CCW



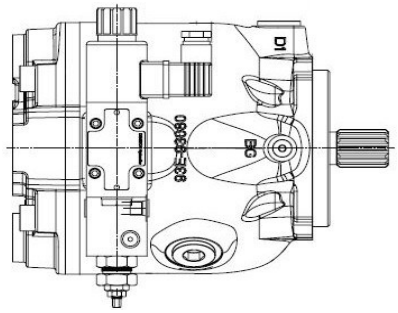


AE & AF Controls

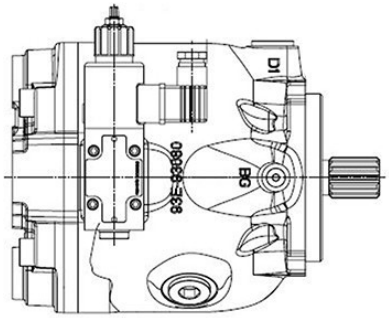
AE/AF = Pilot Operated Pressure Limiter with Proportional Relief Valve (AE = 12 VDC; AF = 24 VDC)

The B-mod AE & AF control are the same as the B-mod AN control, but with the addition of the proportional relief valve mounted to the AN control block. The proportional relief valve used on the B-mod AE & AF control is the same proportional relief valve used on the A-mod. RE06M35W2N1KWXG087 for the AE control and 4VP0150G24B1C1 for the AF control.

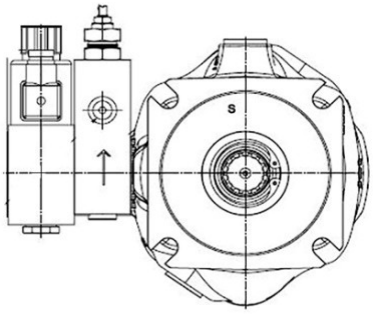
A-Mod CW



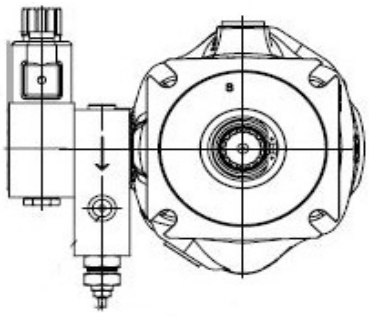
A-Mod CCW



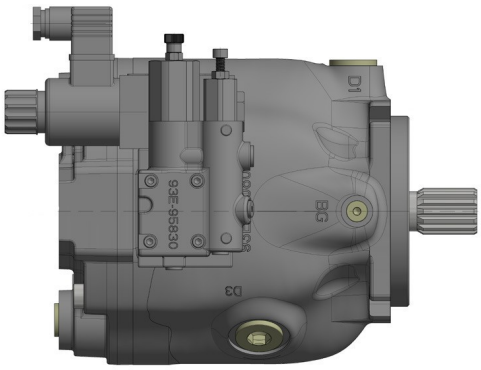
A-Mod CW

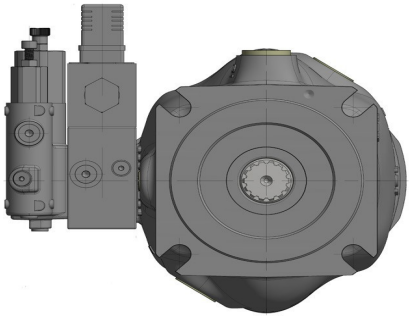


A-Mod CCW



B-Mod CW & CCW

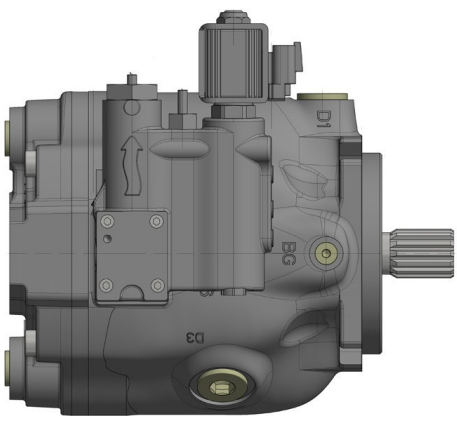


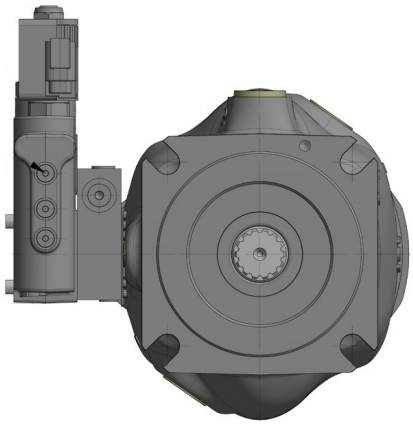


C03, C06, L03, L06 Controls
C03/C06 = Pressure Limiter with unloading valve (3 = 12 VDC; 6 = 24 VDC)
L03/C06 = Load sense with pressure limiter and unloading valve (3 = 12 VDC; 6 = 24 VDC)

The unloading controls were not standard options on the A-mod design; therefore, there was no model code designation. They have been made standard in the B-mod design. The B-mod control assembly is the same as the A-mod version, but with the addition of a transition block to accommodate the unique 5 port pattern on the control housing to the standard D03 pattern on the valve block housing.

B-Mod CW & CCW

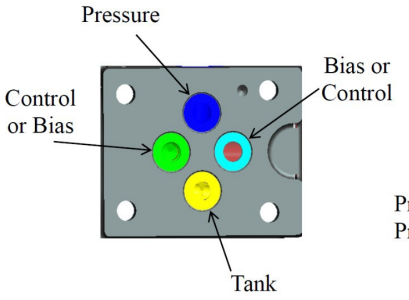




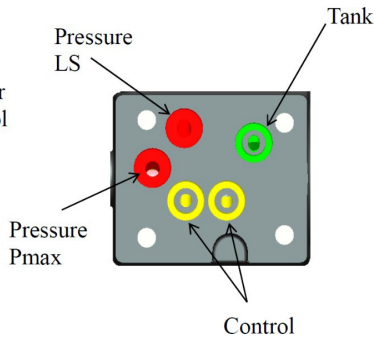
Pump Housing Control Interface Pad Differences

As a reminder, the pump housing control pad interface is different between the A-mod and B-mod in order to use the same control regardless of direction of rotation.

Design Series A (A-mod)



Design Series B (B-mod)



For further information regarding the Design Series B version of these controls please refer to the updated P1/PD Sales Catalog (HY28-2265-01/P1/EN) dated November 2019. The new sales catalog along with all the most recent literature can be found at the Parker Hydraulic Pump and Power Systems website (www.parker.com/HPS).

As always, for assistance, our Tech Services team (pumptechsupport@parker.com) can be contacted if there are any questions related to the transition of these controls to the Design Series B.

Best Regards,

Global Product Management – P1/PD
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