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INSTALLATION MANUAL

AEROFLOW PERFORMANCE

FLUID CONTROL VALVE

WARNING!

BEFORE PROCEEDING WITH INSTALLATION PLEASE READ INSTRUCTIONS CAREFULLY. THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

Congratulations on your purchase of Aeroflow Performance fluid control valve. Aeroflow Performance products cannot and will not be responsible for any damage, or other conditions resulting from misapplication of the parts described herein. However, it is our intention to provide the best possible products for our customer, products that perform properly and satisfy your expectations. Should you have any questions? Please call technical support at +61 2 8825 1900 and have the product part number on hand when calling.

Aeroflow Performance flow control valve plays a vital role in clutch tuning by adjusting the clutch to slip slightly during quick engagements, the flow control valve reduces shock loads to the driveline, lowers the chance of losing traction or the chance of damaging driveline components

This fluid control valve comes with three different orifice sizes (0.021" / 0.028" / 0.040"). A larger orifice creates a more abrupt clutch engagement. A smaller orifice softens the engagement a little more by allowing the clutch to slip a few revolutions.

Below is a guide to selecting the right orifice size.

1. It is generally recommended to start with the largest provided orifice size and work your way down. The size you need depends on the clutch spring force, the number of friction plates, the clutch diameter, the weight of the vehicle, and front drive vs. rear drive, tire size, and a few other factors. Therefore, a little testing may be required.
2. Assemble in the order shown in the diagram. Torque the two halves together at 15 lb-ft (20 Nm).
3. If the orifice size is too large the engagement will still be very abrupt.
4. If the orifice size is too small you will see signs of excessive heat build-up or wear in the clutch.

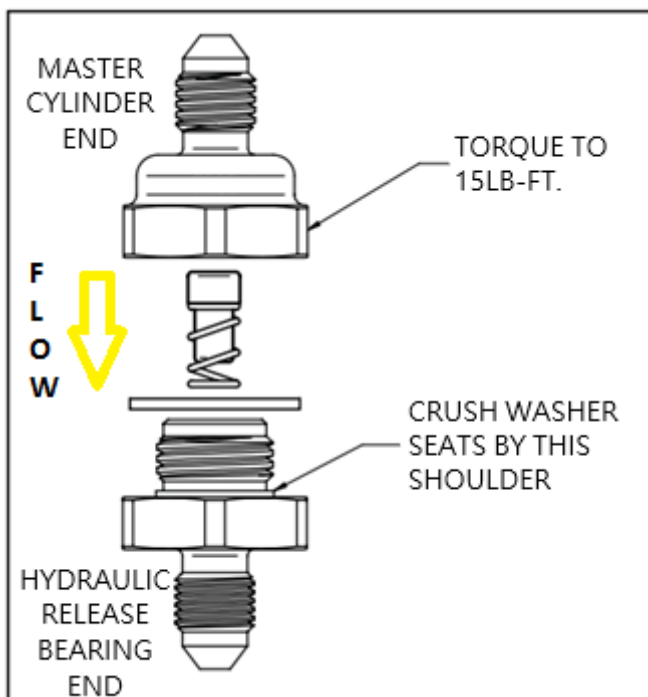
For more information or technical enquires

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Installing the Valve

1. Make sure that the fluid system is without contaminants. Flush the system if in doubt.
2. Find a location. This valve will work anywhere in the hydraulic line between the master cylinder and the hydraulic release bearing. Threading directly into the master cylinder provides an easily accessible location.
3. Free flow is required in the direction of clutch disengagement (while depressing the pedal). The arrows next to the word 'FLOW' must point away from the master cylinder as shown in diagram below.
4. Install the valve in the line. These fittings seal best without the use of pipe tape or sealing compounds. Torque the fitting to the line or master cylinder to 15 lb-ft (20 Nm).
5. Bleed the clutch system as you would normally bleed it.



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