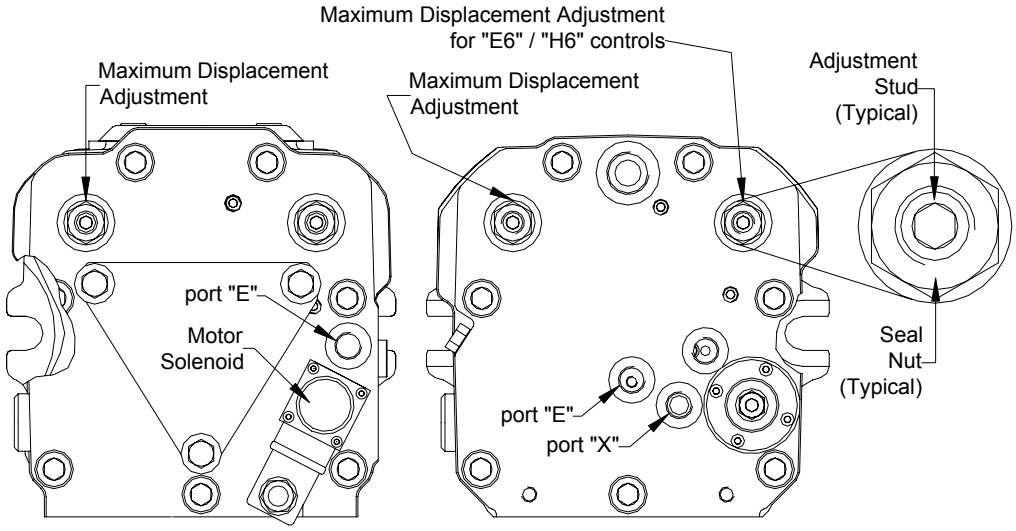
Maximum Displacement Adjustment Procedure for HMV-02 Motors



Side-Ported HMV-02 with Electric 2-Position Control

Side-Ported HMV-02 with Hydraulic Infinitely Variable Control

Tools/Equipment Required:

- 19mm closed-end wrench
- 6mm Allen wrench

Note #1:
The following table illustrates the maximum displacements and allowable rotational speeds for those displacements for the HMV-02 motors. The HMV-02 motors should NOT be operated at higher speeds if these maximum displacement settings are used. If higher rotational speeds are required for your application, you must consult Linde Engineering for the allowable maximum displacement setting.

Size		55	75	105	135	165	210	280
Max Displacement limit (CC)		54.8	75.9	105.0	135.6	165.0	210	280
Speed (RPM)	Continuous Max Speed at max Displacement	4100	3800	3500	3200	3100	2700	2400
	Continuous Max Speed at Min Displacement	4700	4400	4100	3700	3500	3200	2900

Note #2:
To insure the proper operation of the motor, you must provide supply-pressure into port "E" between 290-580 psi. If the HMV-02 has the configuration where this supply-pressure is provided internally (via the case-flushing shuttle), then ignore this note.

Note #3:
The HMV-02 motor automatically defaults to maximum displacement and will remain at maximum displacement unless supplied with an external pressure or power supply to force it to destroke. For a "hydraulically" controlled HMV-02 motor, control pressure is typically supplied to port "X" of the motor to destroke it. For an "electrically" controlled HMV-02 motor, current is typically supplied to the motor solenoid to destroke it. When performing this procedure, make sure that no external pressure or power supply is supplied to the HMV-02 motor to insure that the motor remains at maximum displacement.

Note #4:
The HMV-02 motor with "E6" and "H6" controls automatically default to minimum displacement unless:

a. For H6 Infinitely Variable Control, supply a minimum of 205 psi control pressure into port "X".
b. For 12V E6 Electric Infinitely Variable Control, You provide a minimum of 720 mA to the solenoid.
c. For 24V E6 Electric Infinitely Variable Control, You provide a minimum of 360 mA to the solenoid.

Procedure for Adjusting the HMV-02 Maximum Displacement:

Start the prime mover and adjust it to operating speed.

1. Actuate the HMV-02 per the requirements stated in "Note #3" and "Note #4".
2. To Adjust the Motor Maximum Displacement:
    a. Hold the adjustment stud stationary with the 6mm Allen Wrench.
    b. Loosen the seal nut with the 19mm wrench.
    c. Turn the adjustment stud **IN** to **decrease** the maximum displacement or turn it ***OUT*** to ***increase*** the maximum displacement.
    d. Once the desired maximum displacement has been acquired, hold the adjustment stud stationary with the 6mm Allen wrench and tighten the seal nut with the 19mm wrench. The proper torque for the seal nut is 60 N-m (44 ft-lb).

ATTENTION

You have been provided information on conversion, repair and/or service of Linde components. Proper application of the information requires specific training and may require use of specialized tooling and equipment. If you choose to proceed with the conversion, repair and/or service of the Linde component(s) absent the necessary training and/or these specialized tools, you do so at your risk.

Linde Hydraulics Corporation will accept no claim for warranty or other consideration resulting from deficiencies in the conversion, repair and/or service done in accordance with the guidance offered herein when the necessary training has not been conducted and/or required specialized tooling and equipment has not been utilized.

All requests for training must be coordinated through your Linde Account Manager. He can also provide you price and availability of any specialized tooling.

Questions regarding the information provided or this disclaimer should be addressed to the Warranty & Service Department, Linde Hydraulics Corporation.

5089 Western Reserve Road
Canfield, OH 44406
330.533.6801 (Telephone)
330.533.9873 (Facsimile)
www.lindeamerica.com (Web Site)