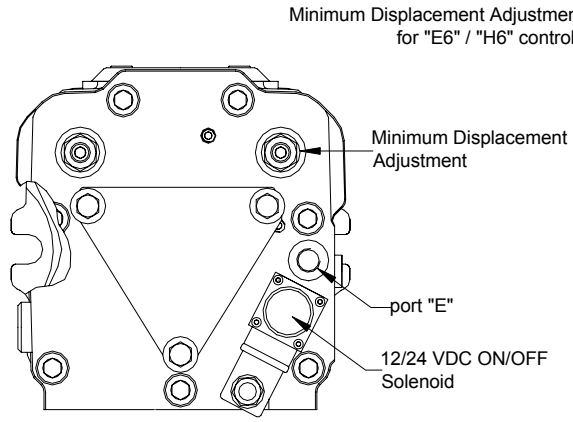
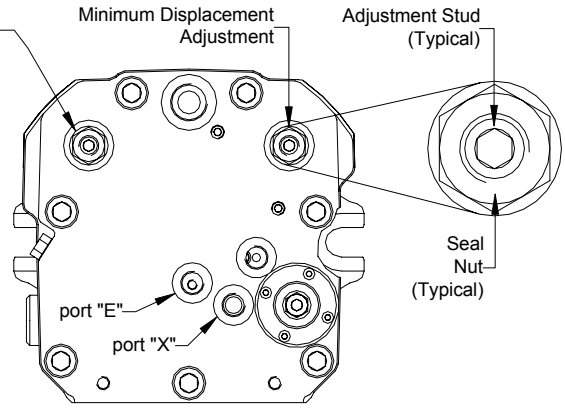
Minimum Displacement Adjustment Procedure for HMV-02



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 recommended minimum 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 the recommended displacements are used. If higher rotational speeds are required for your application, you must consult Linde Engineering for the required minimum displacement setting.

Size		55	75	105	135	165	210	280
Min. Displacement limit (CC)		18.3	25.3	35.0	45.2	55.2	70	93
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 unless:

a. (For Hydraulic Infinitely Variable Control) You supply a minimum of 205 psi control pressure into port "X".
b. (For 2-Position Hydraulic Control) You supply a minimum of 205 psi control pressure into port "X".
c. (For 10VDC Electric Infinitely Variable Control) You provide a minimum of 1460 mA to the solenoid.
d. (For 12VDC 2-Position Electric Control) You provide a minimum of 720 mA to the solenoid.
e. (For 24VDC 2-Position Electric control) You provide a minimum of 360 mA to the solenoid.

Under the above conditions, the HMV-02 motor will be forced to minimum displacement.

Note: #4:

For HMV-02 motor with "E6" or "H6" controls, the motor automatically defualts to Minimum Displacement.

Procedure for Adjusting the HMV-02 Minimum Displacement:

1. Start the prime mover and adjust it to operating speed.
2. Depending on the type of control on your HMV-02, refer to "note #3" and "note #4" above to force the motor to minimum displacement.
3. To Adjust the Motor Minimum 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 **increase** the minimum displacement or turn it ***OUT*** to ***decrease*** the minimum displacement.
4. Once the desired minimum 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)