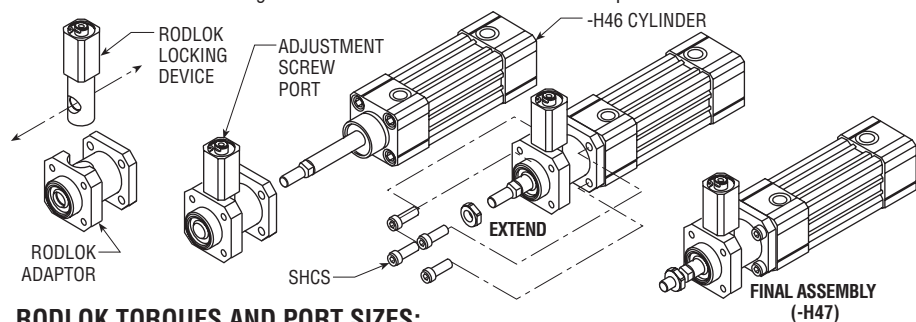


phd[®] SERIES CV CYLINDER PHD RODLOK™ INFORMATION SHEET

RODLOK UNIT FUNCTION:

PHD's RODLOK is designed to lock the piston rod while in a stationary position. When pressure is removed from the port of the RODLOK, the mechanism grips the rod and prevents it from moving. The RODLOK is NOT intended for dynamic use as a piston rod deceleration device. Standard ISO 6431/VDMA 24562 or ISO 6432 mountings can still be attached to the RODLOK adaptor.



RODLOK TORQUES AND PORT SIZES:

PART DESCRIPTION	TORQUE in-lb [N-m]							
	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
SHCS FOR RODLOK ADAPTOR	40 [4.5]	40 [4.5]	100 [11]	100 [11]	230 [26]	230 [26]	350 [40]	350 [40]
PORT SIZES								
RODLOK LOCKING DEVICE PORT SIZE	M5	M5	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8

OPERATING PRESSURE:

The operating pressure for the locking device is different than the operating pressure for the cylinder with the Rodlok attached. The locking device of the Rodlok is designed with an operating pressure range of 60 psi minimum to 150 psi maximum [4 to 10 bar]. The Series CV cylinder with a Rodlok attached has an operating pressure range of 22 psi minimum to 150 psi maximum [1.5 to 10 bar].

RODLOK ASSEMBLY:

Note: The adjustment screw on the top of the locking device is set at the factory. The rod of the cylinder should pass through the locking device without having to adjust the screw. Adjustment of the screw without a rod fully inserted through the locking device can cause misalignment of the locking mechanism. If a rod will not pass through the locking device and adjustment of the screw is necessary, only **minor** adjustments should be made.

1. Insert RODLOK locking device into RODLOK adaptor. Orient through hole in locking device as shown.
2. Insert rod of -H46 cylinder through the locking device and adaptor. Care should be taken to not damage the through hole in locking device during installation of the rod.
3. Align RODLOK assembly to position desired. Install 4 SHCS as shown. See above chart for torques.
4. Remove and save RODLOK adjustment screw from the locking device.
5. Install appropriate port fitting into the port of the locking device.

RODLOK UNIT START-UP PROCEDURES:

Port on RODLOK locking device must be pressurized to allow cylinder to function properly. Standard units should be securely mounted with all fittings and external flow controls attached prior to applying pressure to unit. Care should be taken to provide adequate space for the rod to extend from cylinder.

Cushion Control units should follow the same procedure as standard units, and in addition have cushion needle closed (turn needle clockwise until rotation stops) and then opened one turn, prior to applying pressure to the unit. This is not necessary if a load has not been attached to the cylinder.

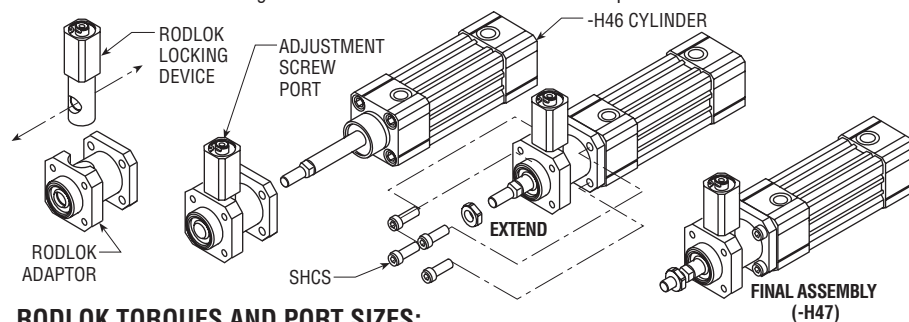
Port Control units should follow the same procedure as standard units, and in addition have Port Control needle closed (turn needle clockwise until rotation stops) and then opened one turn, prior to applying pressure to the unit. This is not necessary if a load has not been attached to the cylinder.

Following start-up, make adjustments to controls as necessary to achieve desired performance. Flow controls should be adjusted prior to adjusting cushion controls.

phd[®] SERIES CV CYLINDER PHD RODLOK™ INFORMATION SHEET

RODLOK UNIT FUNCTION:

PHD's RODLOK is designed to lock the piston rod while in a stationary position. When pressure is removed from the port of the RODLOK, the mechanism grips the rod and prevents it from moving. The RODLOK is NOT intended for dynamic use as a piston rod deceleration device. Standard ISO 6431/VDMA 24562 or ISO 6432 mountings can still be attached to the RODLOK adaptor.



RODLOK TORQUES AND PORT SIZES:

PART DESCRIPTION	TORQUE in-lb [N-m]							
	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
SHCS FOR RODLOK ADAPTOR	40 [4.5]	40 [4.5]	100 [11]	100 [11]	230 [26]	230 [26]	350 [40]	350 [40]
PORT SIZES								
RODLOK LOCKING DEVICE PORT SIZE	M5	M5	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8

OPERATING PRESSURE:

The operating pressure for the locking device is different than the operating pressure for the cylinder with the Rodlok attached. The locking device of the Rodlok is designed with an operating pressure range of 60 psi minimum to 150 psi maximum [4 to 10 bar]. The Series CV cylinder with a Rodlok attached has an operating pressure range of 22 psi minimum to 150 psi maximum [1.5 to 10 bar].

RODLOK ASSEMBLY:

Note: The adjustment screw on the top of the locking device is set at the factory. The rod of the cylinder should pass through the locking device without having to adjust the screw. Adjustment of the screw without a rod fully inserted through the locking device can cause misalignment of the locking mechanism. If a rod will not pass through the locking device and adjustment of the screw is necessary, only **minor** adjustments should be made.

1. Insert RODLOK locking device into RODLOK adaptor. Orient through hole in locking device as shown.
2. Insert rod of -H46 cylinder through the locking device and adaptor. Care should be taken to not damage the through hole in locking device during installation of the rod.
3. Align RODLOK assembly to position desired. Install 4 SHCS as shown. See above chart for torques.
4. Remove and save RODLOK adjustment screw from the locking device.
5. Install appropriate port fitting into the port of the locking device.

RODLOK UNIT START-UP PROCEDURES:

Port on RODLOK locking device must be pressurized to allow cylinder to function properly. Standard units should be securely mounted with all fittings and external flow controls attached prior to applying pressure to unit. Care should be taken to provide adequate space for the rod to extend from cylinder.

Cushion Control units should follow the same procedure as standard units, and in addition have cushion needle closed (turn needle clockwise until rotation stops) and then opened one turn, prior to applying pressure to the unit. This is not necessary if a load has not been attached to the cylinder.

Port Control units should follow the same procedure as standard units, and in addition have Port Control needle closed (turn needle clockwise until rotation stops) and then opened one turn, prior to applying pressure to the unit. This is not necessary if a load has not been attached to the cylinder.

Following start-up, make adjustments to controls as necessary to achieve desired performance. Flow controls should be adjusted prior to adjusting cushion controls.