HP Series Seal Kit Installation

HP Series Air Cylinder Seal Kit Installation

This bulletin is a simple step-by-step seal kit maintenance guide for DADCO's HP Series Air Cylinders. Proper repair requires careful examination of all component parts and replacement of any that are worn or damaged. All DADCO replacement parts are available from factory stock. After reviewing this maintenance guide, if you require any additional training or have any questions please contact DADCO for assistance.

CAUTION: Always wear safety goggles when performing any maintenance work.



Seal Kit Repair Instructions



1. Unhook the cylinder from 2. Remove the tie rod the air supply.



nuts from the rear head using a socket drive allen wrench. Retain nuts for use during reassembly.



3. Remove the tie rods then remove the front head assembly.



4. Remove the dampening washer, save for reassembly.



5. Remove the front cushion seal and discard.



6. Insert the new front cushion seal with the flat side down. Reinstall the dampening washer, be sure to line up the washer with the groove in the head.



7. Use the notch in the head 8. Replace the rod seal with 9. Remove the rod and to remove the rod seal. Be careful not to damage or scratch the inside of the



the new rod seal from the seal kit. Set the front head aside for reassembly of the cylinder.



piston assembly from the tube.



10. Remove the piston seals, being careful not to scratch the surface of the piston. Discard used seals. Guide tape will be loose when the piston is removed from the tube.



11. Install the new piston seals and make sure the guide tape is in place before installation.



rod and piston assembly use DADCO's Starter Tube (refer to page 2). Place the starter tube on top of the tube and carefully guide the rod and piston assembly into the tube. Maintain alignment and ensure the piston seals and guide tape remain in place.



12. For installation of the 13. Replace the front head ensuring alignment of the ports between the front and rear heads, then insert the four tie rods. To ensure proper alignment, square the heads using a flat surface (ex., granite block).



14. Replace the tie rod nuts using a medium strength liquid thread locker on the threads before re-installing. Alternate tightening of each tie rod nut a half turn until all tie rod nuts are secure, see page 2 for torque values. This completes the repair of your HP Series Air Cylinder.



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Parts List

Starter Tube

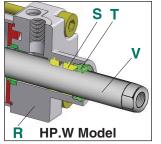
Use the starter tube to guide the piston and rod assembly into the tube.

HP.350.032 HP.350.040 HP.350.050 HP.350.080 HP.350.100 HP.350.125









NOTE: For bore diameters ø160-ø250, please contact DADCO.

	Over	.:							
Pa	Quant ırts List Requir		ø32	ø40	ø50	ø63	ø80	ø100	ø125
Α	Cushion Seal	2	IP470949	IQ470950	IR470951	IR470951	IT470953	IU470954	IV470955
В	Rear Head	1	IP600460	IQ600461	IR600462	IS600463	IT600214	IU600215	IV600216
С	Tube	1	IP05Z	IQ05Z	IR05Z	IS05Z	IT05Z	IU05Z	IV05Z
F	Guide Tape	1	IP417725	IQ417726	IR417727	IS417728	IT417521	IU417467	IV41V360
Н	Piston Seal	2	IP480969	IQ480970	IR480971	IS480972	IT480973	IU480974	IV47V359
J	Tie Rod	4	IP75M	IQ75M	IR75M	IS75M	IT75M	IU75M	IV75M
K	Tie Rod Nut Torque Value	8	IP852201 8 lbs.ft.	IP852201 8 lbs.ft.	IR852203 18 lbs.ft.	IR852203 18 lbs.ft.	IT852205 34 lbs.ft.	IT852205 34 lbs.ft.	IV850313 62 lbs.ft.
L	Regulating Screw	2	IP502240	IQ502241	IR502242	IS502243	IT502244	IU502245	IV502246
M	Retaining Ring	2	IP857278	IP857278	IR857279	IS857280	IS857280	IU857281	IV857282
N	Adj. Screw O-Ring	2	IP450979	IP450979	IR450981	IS450982	IT450983	IU450984	IV450985
Q	Dampening Washer	2	IP450860	IQ450861	IR450862	IS450863	IT450864	IU450865	IV450866
HP.Z Model									
R	Front Head	1	IP600450	IQ600451	IR600452	IS600453	IT600204	IU600205	IV600206
S	Rod Bearing	2	IP400939***	90.240.00300	90.240.00500	90.240.00500	90.240.00750	90.240.01500	90.240.U.2600
Т	Rod Seal/Wiper/Ring	1	IP47V229	IQ47V230	IR47V231	IR47V231	IT47V232	IU47V233	IV47V234
**U	Piston Rod Assembly	1	IP00Z	IQ00Z	IR00Z	IS00Z	IT00Z	IU00Z	IV00Z
	HP.W Model								
**V	Piston Rod Assembly	1	IP00W	IQ00W	IR00W	IS00W	IT00W	IU00W	IV00W
	Seal Kit Contains A, H & T		IP009180	IQ009181	IR009182	IS009183	IT009184	IU009185	IV009186
	Repair Kit Contains A, H, S & T		IP009190	IQ009191	IR009192	IS009193	IT009194	IU009195	IV009196

HP.Z Model

Every effort has been made to have all illustrations and drawings accurately represent the product as it was at the time this bulletin was printed. However, so that we effectively may continue to meet the requirements of DADCO customers, some product changes may occur during the life of this bulletin without prior notice.

Not sold separately: Piston (D), Piston O-Ring (I), Piston Nut (G) and Cushion Spears (E).

Includes D, I, G and E. When ordering, please note the stroke length in addition to the part number.

The ø32 mm bore cylinder uses only one rod bearing.