



KK-4456 FLUID REGULATOR REPAIR KIT

DESCRIPTION

The KK-4456 HGS fluid regulator repair kit is recommended for replacement of the diaphragm and seating components when repairing the regulator. It is designed to be used with all HGS regulators.

DISASSEMBLY



Shut off and relieve pressure before disconnecting hoses from fluid regulator. Pressurized parts cause a risk of injury to personnel if disassembled under pressure.

1. Remove all pressure from regulator.
2. Remove regulator and clean.

Note

Refer to HGS Fluid Regulator Service Bulletin SB-6-403 for general service and cleaning procedures.

3. Remove six cap screws (8).
4. Remove bottom plug (25) circulating regulators; or plug (27) non-circulating regulators.
5. Remove and discard O ring (24) from plug.
6. Remove stem (23) by inserting a bladed screwdriver into slot and turning counterclockwise while holding hex nut (14).
7. Remove and discard upper plate (15), gasket (16), diaphragm (17) and PTFE washer (18) from valve stem (23). Remove and save flat washer (19).
8. Remove and discard PTFE valve seat (22) from body (20 or 21).
9. Clean all parts to remove any trace of contaminants.

ASSEMBLY

1. Insert valve seat (22) into body (20 or 21) so that the flat surface of the valve seat is flush with the flat surface of the body.
2. Insert stem (23) through seat (22) so it extends through body (20 or 21).
3. Install flat washer (19) and PTFE washer (18) onto valve stem (23).

Note

PTFE washer (18) must be positioned between the flat washer (19) and diaphragm (17).

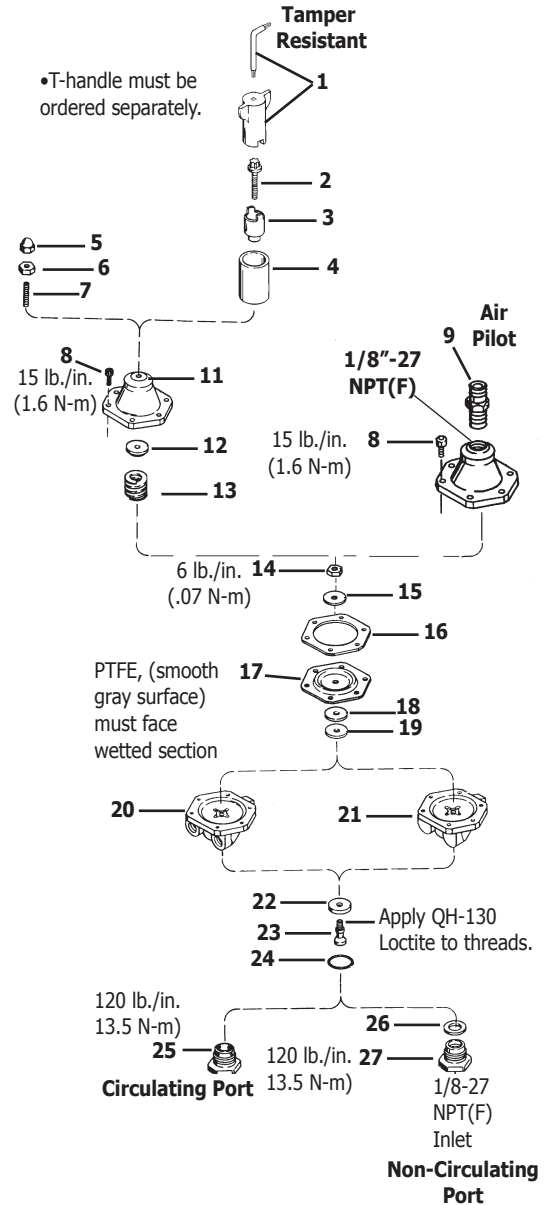
4. Place diaphragm (17) onto valve stem (23) so that threaded portion of stem protrudes through diaphragm.
5. Apply a couple of drops of QH-130 to threads of valve stem (23).
6. Place upper plate (15) over threads of stem against diaphragm and secure in place with hex nut (14). Torque to proper torque specification.
7. Install gasket (16) and bonnet (10 or 11) and secure in place with six cap screws (8). Torque to proper torque specifications.
8. On circulating regulators, install O ring (24) and plug (25); on non-circulating regulators, install O-ring (24) and plug (27); and if equipped, install spacer (26). Torque to proper torque specification.
9. Reinstall fluid regulator into the system.



PROP 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

PARTS LIST



Ref. No.	Description	Ind. Parts Req'd.
1	T-handle Kit	•
2	Adjustment Screw	1
3	Lock	1
4	Guard	1
5	Cap Nut	1
6	Nut	1
7	Allen Set Screw	1
8	Cap Screw	6
9	Connector	1
10	Bonnet	1
11	Bonnet	1

Ref. No.	Description	Ind. Parts Req'd.
12	Adjustment Seat	1
13	Regulator Spring	1
14*	Hex Nut	1
15*	Upper Plate	1
16*	Gasket	1
17*	Diaphragm, PTFE	1
18*	Washer, PTFE	1
19	Flat Washer	1
20	Regulator Body	1
21	Regulator Body	1
22*	Valve Seat, PTFE	1

Ref. No.	Description	Ind. Parts Req'd.
23	Valve Stem	1
24*	O-ring, PTFE	1
25	Plug	1
26	Spacer	1
27	Plug	1
*	QH-130 Loctite	1

•T-handle must be ordered separately.
*These parts are included in the KK-4456 Regulator Repair Kit.

WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

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