



# **DCX SERVICE PROCEDURE**

## ***NOTE:***

***THIS SERVICE MANUAL IS FOR SERVICING DCX REGULATORS  
BUILT BEFORE JANUARY 2022***

***FOR DCX's BUILT AFTER JANUARY 2022 SEE  
DOC OH.01.02.0031***

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

Doc. HO.01.02.0011

Last Revised 09/13/22

## NOTE

## SPECIFICATIONS

### TORQUES

P/N 8041.8 Receiver	80 – 100 in -lbs. (9.0 – 11.3 N-m)
P/N 8150.8 End Cap	23 – 25 ft-lbs. (31.2 – 33.9 N-m) or metal to metal contact, whichever comes first.
P/N 6564.8 Yoke Retainer	23 – 25 ft-lbs. (31.2 – 33.9 N-m)
P/N 6750 DIN Nipple	23 – 25 ft-lbs. (31.2 – 33.9 N-m)
P/N 6752 DIN Housing	23 – 25 ft-lbs. (31.2 – 33.9 N-m)
P/N 4544.200 DIN Filter Retainer	120 – 140 in-lbs. (13.6 – 15.8 N-m)
LP & HP Port Plugs	35 – 40 in-lbs. (4 – 4.5 N-m)
LP & HP Hoses	35 – 40 in-lbs. (4 – 4.5 N-m)

### INTERMEDIATE PRESSURE

Preferred	138 psi (9.5 bar)
Acceptable	134 – 142 psi

## TOOLS REQUIRED

### STANDARD TOOLS

Inch Pound Torque Wrench  
Foot Pound Torque Wrench  
Drive Extensions for Above Wrenches  
5/32" Hex Key  
¼" Hex Drive Socket  
3/8" Socket  
9/16" Open End Wrench  
5/8" Open End Wrench  
Long 5/16" Hex Key  
Soft Jawed Vise  
Magnifier  
1" Thin Wall Socket  
13/16" Deep Socket  
Ultrasonic Cleaner with Blue Gold  
External Snap ring Pliers

### SPECIALTY TOOLS

PN 40.6536.2 HP Seat Tool  
PN 220.9103 End Cap Tool Kit  
PN 40.9311 Retainer Ring Pliers  
PN 40.9520 O-Ring Tool Kit

## SERVICE BULLETINS AND QUALITY ALERTS

HO.01.03.0001 Service Bulletin – First Stage Performance Upgrade

HO.01.06.0007 Quality Alert - Button Pin Flow, Voluntary Recall (Dealer)

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<b>SYMPTOMS</b>	<b>POSSIBLE CAUSE</b>	<b>TREATMENT</b>
Restricted airflow and inhalation resistance through complete system.	<ol style="list-style-type: none"> <li>1. Cylinder valve not completely opened.</li> <li>2. Cylinder valve requires service.</li> <li>3. Filter is contaminated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Open valve completely.</li> <li>2. Connect regulator to a different cylinder.</li> <li>3. Replace with new and per-form a complete service.</li> </ol>
Air leakage detected from beneath the adjustment cup 6518, inside the end cap 8150.8.	<ol style="list-style-type: none"> <li>1. End cap 8150.8 is loose.</li> <li>2. Diaphragm 01.000031 is worn or damaged.</li> <li>3. Seating surface inside body 7276.8 is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten end cap 8150.8 onto body 7276.8, using prescribed torque value in Reassembly Procedure.</li> <li>2. Replace with new 01.000031.</li> <li>3. Replace body 7276.8 with new.</li> </ol>
Air leakage detected from Yoke Retainer 6564.8, DIN Housing 6752 or DIN Nipple 6750	<ol style="list-style-type: none"> <li>1. O-ring 2.011 or 2.010 is damaged or worn.</li> <li>2. Seating surface inside the body 7276.8 is damaged.</li> <li>3. Seating surface on the Yoke Retainer 6564.8, DIN Housing 6752 is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace with new.</li> <li>2. Replace with new.</li> <li>3. Replace with new.</li> </ol>
Air leakage from Receiver 8041.8	<ol style="list-style-type: none"> <li>1. Receiver O-rings 6510 and 2.021 Damaged or worn.</li> <li>2. Swivel to Body O-ring 2.024 worn or damaged.</li> <li>3. O-ring sealing surfaces damaged or worn.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace 6510 and 2.021 O-rings</li> <li>2. Replace 2.024 O-ring.</li> <li>3. Inspect surfaces and replace any worn or damaged part.</li> </ol>
Insufficient intermediate pressure.	<ol style="list-style-type: none"> <li>1. End cap 8150.8 is loose.</li> <li>2. First stage improperly adjusted.</li> <li>3. Diaphragm spring 6717 is weakened or damaged.</li> <li>4. Seating surface of body 7276.8 beneath Diaphragm 01.000031 is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>5. Tighten end cap 8150.8 onto body 7276.8, using prescribed torque value in Reassembly Procedure.</li> <li>6. Readjust according to the procedure specified in Final Adjustment Procedure.</li> <li>7. Replace with new.</li> <li>8. Replace body 7276.8 with new.</li> </ol>
Excessive intermediate pressure/Intermediate pressure creeps.	<ol style="list-style-type: none"> <li>1. First stage improperly adjusted.</li> <li>2. Seat 6493 is damaged or worn.</li> <li>3. HP seat O-ring V2.010 or poppet O-ring V2.007.90 is damaged or worn.</li> <li>4. Seating surface of Seat 6493, receiver 8041.8, HP poppet 6495, or body 7276.8 is damaged.</li> <li>5. Spring 6512 is weakened or damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Readjust according to Final Adjustment Procedure.</li> <li>2. Replace with new.</li> <li>3. Replace with new.</li> <li>4. Replace with new.</li> <li>5. Replace with new.</li> </ol>

## DISASSEMBLY PROCEDURE

NOTE: Be sure to check and record the Intermediate Pressure (IP) and perform a leak detection test prior to disassembling the regulator. Review the Troubleshooting Section to gain a better idea of which internal parts may be worn, and to better advise your customer of the service that is needed.

1. Before disassembling the first stage, remove the low-pressure hoses and the high-pressure hose(s) with appropriate sized wrenches
2. Remove and replace the O-rings now on all these items. Note: LP hoses supplied with your Hollis regulator use a 3.903 o-ring found in your service kit.
3. Secure the body 7276.8 in a soft-jawed or well-padded vise.

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CAUTION: Tighten the vise only as needed to hold the First Stage secure, and DO NOT over-tighten. Doing so will result in permanent damage, rendering it inoperable.

4. Using a 5/32" hex key remove the end LP plug (w/ o-ring) 3463.8.8. Remove the Receiver 8041.8 using a 1/4" Allen wrench inserted into end hex hole and, turning counterclockwise to remove from Body 7276.8 (Fig. 1). DO NOT use impact to loosen.



Fig. 1

5. Remove the HP poppet 6495 from the receiver 8041.8 and then remove the spring 6512 (Fig.2)  
*Note: Old configurations will have the seat 6490 in place of the new HP Poppet. If this is the case with your regulator, discard seat 6490 and replace with the new HP poppet 6495 found in your service kit during re-assembly. Refer to Service Bulletin HO.01.03.0001.*



Fig. 2

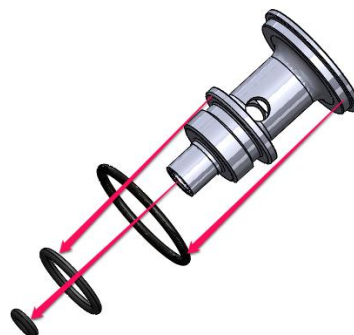


Fig. 3

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6. Using care not to scratch or damage the receiver 8041.8, remove from inside the receiver 8041.8 the HP Poppet O-ring V2.007.90. Remove O-rings 6510 and 2.021. Discard these o-rings (Fig. 3).
7. Remove Swivel washer 7291, Swivel 7280.8 and O-ring 2.024 (discard) (Fig. 4).

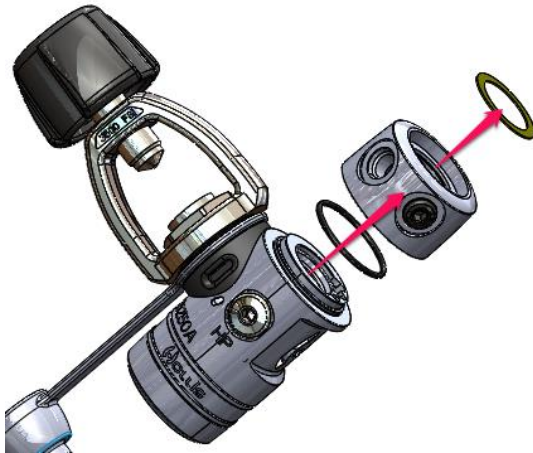


Fig. 4



Fig. 5

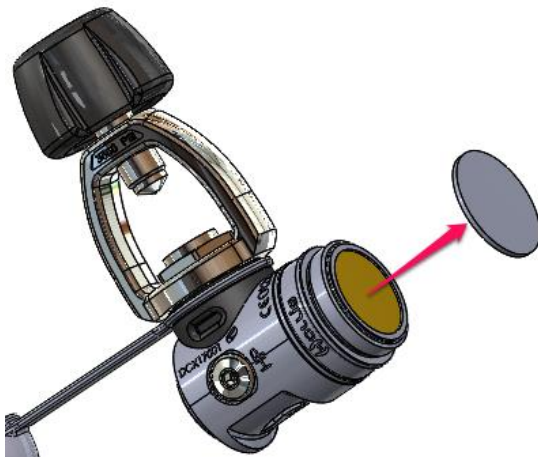


Fig. 6

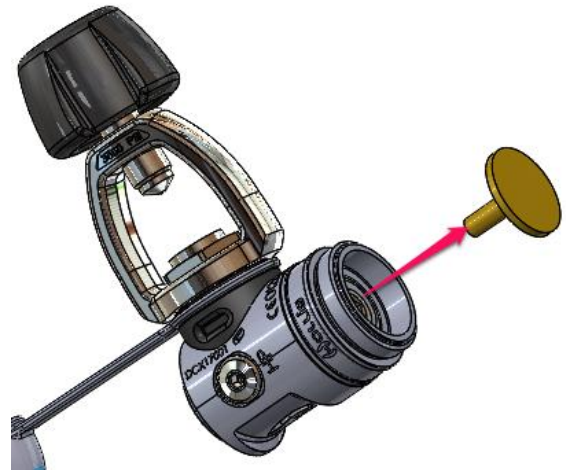


Fig. 7

8. Remove the environmental cap 7089.8 by turning counterclockwise by hand to loosen and remove (Fig. 5).
9. Remove the environmental diaphragm 6891 from the diaphragm retainer 8150.8 (Fig. 6). Avoid damage by not prying it out. Instead, use compressed air or tap the diaphragm retainer 8150.8 on the work counter lightly to free the environmental diaphragm 6891 and discard.
10. Lift the out the transfer piston 6890 from the diaphragm retainer 8150.8 (Fig. 7). Inspect the transfer piston 6890 for any signs of wear or deterioration. Discard if found.

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Fig. 8

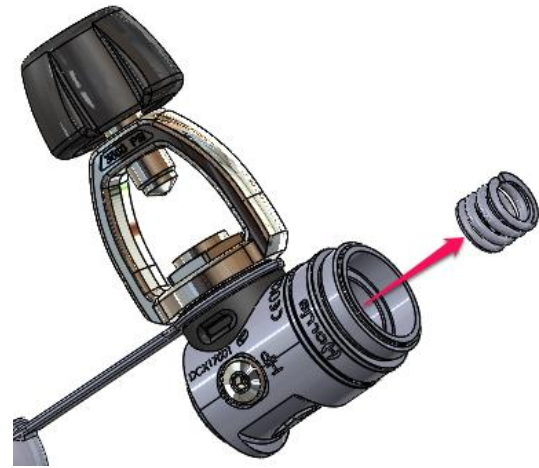


Fig.9

11. Secure the body 7276.8 in a soft-jawed or well-padded vise. Apply a 5/16" Hex Key, and turning counter clockwise, remove the adjustment cup 6518 and Washer 6524 (Fig. 8).

CAUTION: Tighten the vise only as needed to hold the First Stage secure, and DO NOT over-tighten. Doing so will result in permanent damage, rendering it inoperable.

12. Lift out the Diaphragm spring 6717 from body (Fig.9). Inspect the Diaphragm spring for corrosion. Replace spring if corrosion is found. DO NOT reuse a corroded spring.

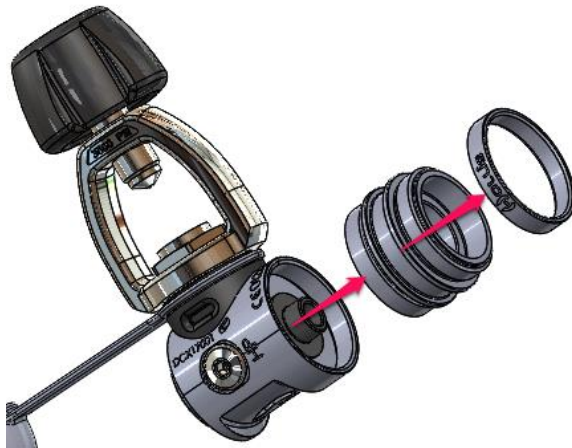


Fig. 10



Fig. 11

13. Remove the Styling Ring 8151. Using the 220.9103 End Cap Tool remove the diaphragm retainer 8150.8 by turning counter clockwise to remove it from the body 7276.8 (Fig. 10).
14. Lift out the diaphragm plate 7007 and inspect it for signs of wear or distortion. Discard if found. Remove the body from vise. Remove the diaphragm 01.000031 from the body 7276.8 by covering the Receiver opening in the body 7276.8 with the palm of your hand and directing short blasts of low pressure air through an open Yoke or DIN Port. Lift the diaphragm 01.000031 out carefully and discard, regardless of its condition, and DO NOT attempt to reuse it (Fig. 11).

CAUTION: DO NOT attempt to remove the DIAPHRAGM 01.000031 with the use of a metallic instrument. Doing so will seriously damage the brass seating surface of the BODY 7276.8.

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15. Using a 5/32" hex key, remove the HP plugs 3462.8 and LP plugs 3463.8. Remove all o-rings and discard. Replace the O-rings with new. Use O-ring 3.903 on LP plugs and 3.904 on HP plugs (Fig. 12).

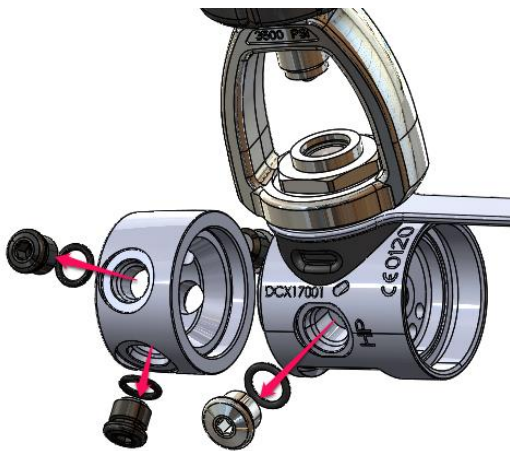


Fig. 12



Fig. 13

16. Remove the button pin 6892 by pressing in on the shaft with your finger thru the Receiver 8041.8 port (Fig. 13). Check for any signs of wear, distortion, or corrosion. Discard if found.

**WARNING:** The button pin 6892 has been modified to include flow slots on the bottom (Fig 39). The Pin has a "L" marked on the head for identification purposes. If you find an old pin which does not have the slots in the regulator you must discard immediately and replace with the new pin. Failing to do so can result in a regulator that does not function properly and can lead to injury or death.

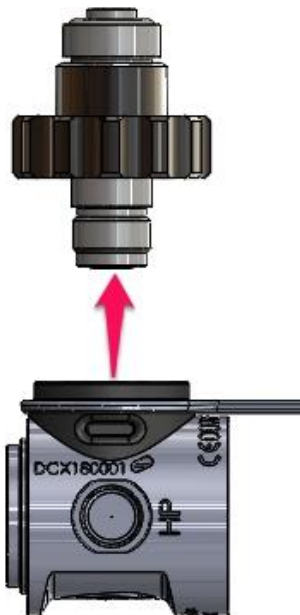


Fig. 14

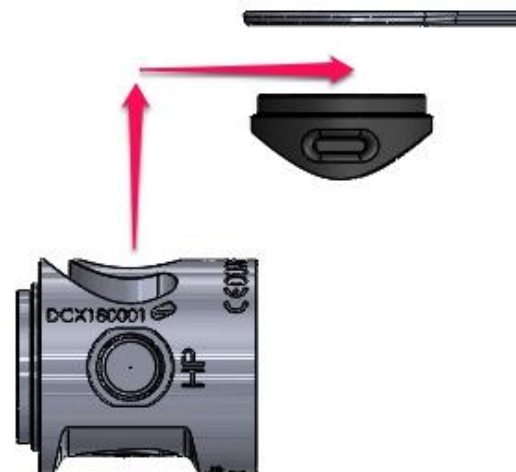


Fig. 15

17. If your DCX has a two piece DIN retainer and filter housing please see the Addendum at the end of these procedures.

18. Secure the body 7276.8 in a soft-jawed or well-padded vise.

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19. Using a ¼ Hex Key remove the DIN Nipple 6750 by turning counter clockwise (for Yoke regulators proceed to Step 24).
20. Remove the DIN assembly from the body (Fig. 14).
21. Lift off Saddle 6585 and dust cap 6878 (Fig. 15).
22. Using snap ring pliers, remove the snap ring 01-0031-00 and then slide the DIN wheel 7712 from the nipple (Fig. 16).
23. Carefully remove the 6374 and 2.010 o-rings and discard. Remove the DIN washer 01-0036-00 and filter 01-0035-00 from the DIN Nipple. (Fig. 17)



Fig. 16



Fig. 17

24. Remove the Yoke Knob 7820 from Yoke 6562.8 (Fig. 18).



Fig. 18

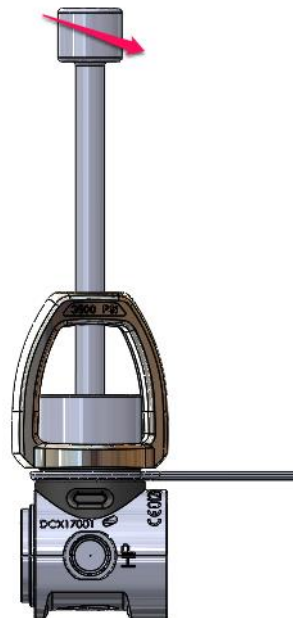


Fig. 19

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25. Secure the body 7276.8 in a soft-jawed or well-padded vise. Connect the 1" thin wall socket to the Yoke Retainer 6564.8. Connect the socket extension to the socket. Using the appropriate socket wrench remove the Yoke Retainer 6564.8 by turning counter clockwise (Fig. 19).

CAUTION: Tighten the vise only as needed to hold the First Stage secure, and DO NOT over-tighten. Doing so will result in permanent damage, rendering it inoperable.

26. Lift the Yoke Retainer 6564.8 clear from the Yoke 6562.8 and remove Yoke, Saddle 6585 and Dust Cap 6878 (Fig. 20). Remove Body from vise.

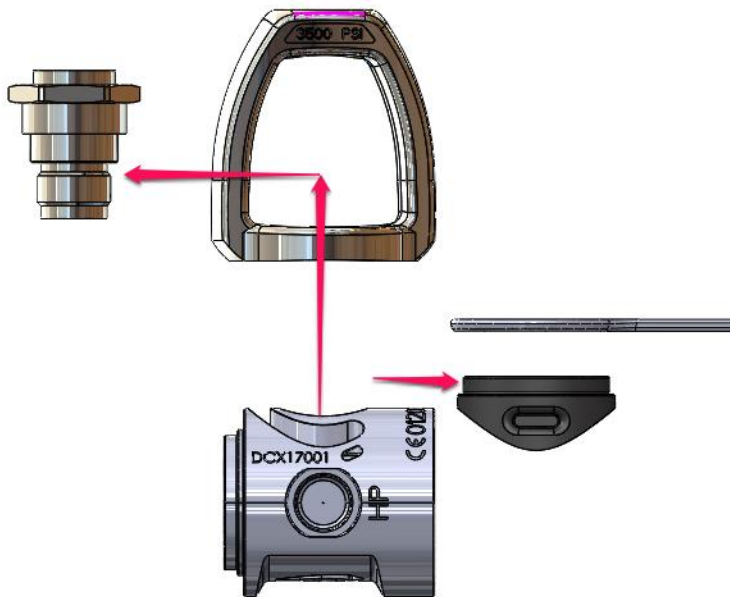


Fig. 20

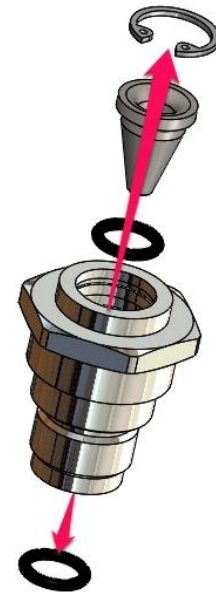


Fig. 21

27. Remove and discard the Retaining Ring 3530, Filter 3545, O-Ring 2.011 and O-Ring 2.013 from the Yoke Retainer (Fig. 21).

28. Insert the larger diameter post of the seat tool 40.6536.2 into the low-pressure side of the body 7276.8 and push out the HP seat 6493 (Fig. 22). Remove O-ring V2.010 from HP Seat 6493 and discard.

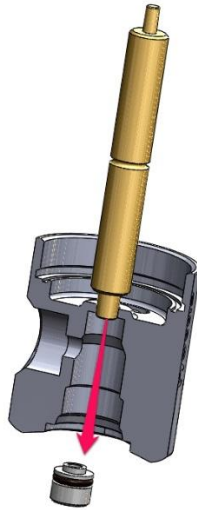


Fig. 22

Note: Old configurations will have the cone seat 8170 in place of the new seat 6493. If this is the case with your regulator, discard cone seat 8170 and replace with the new seat 6493 found in your service kit during re-assembly.

## REASSEMBLY PROCEDURE

NOTE: Prior to reassembly, it is necessary to inspect all parts, both new and those that are being reused. All parts and component should be thoroughly cleaned and dry. Ensure new o-rings are clean and supple. Except where noted, o-rings should be lightly coated with Christolube MCG 129N (or equivalent).

NOTE: In previous service procedures the LP diaphragm side of the regulator was assembled prior to the HP valve side. With the advent of the new seat 6493 and HP poppet 6495, the HP valve side shall now be assembled prior to the LP diaphragm side of the regulator.

**WARNING:** Use only genuine Hollis parts, subassemblies, and components whenever assembling Hollis products. DO NOT attempt to substitute any Hollis part with another manufacturer's, regardless of any similarity in shape, size, or appearance. Doing so may render the product unsafe and could result in serious injury or death of the user.

### 1. Install New HP Seat:

- a. Lubricate and install the HP O-ring V2.010 onto the 6493 Seat (Fig. 23). Place the sealing edge of the seat 6493 down onto the small diameter end of a clean HP Seat tool 40.6536.2. Use care not to damage the seating surface of the seat 6493 (Fig. 24).
- b. Guide the HP tool, with Seat, into the HP chamber of the body 7276.8. Take care to properly align the seat 6493 with the recess in the HP chamber. Carefully press the seat 6493 completely into place and withdraw the tool, pulling it straight out (Fig. 25).

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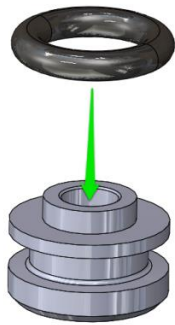


Fig. 23

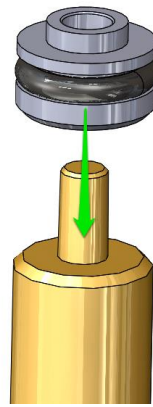


Fig. 24



Fig. 25

## 2. Installing Yoke Fitting (See Step 3 for DIN Fitting):

- Lubricate and install the O-rings 2.011 and 2.013 onto the Yoke Retainer 6564.8 (Fig. 26).
- Install the filter 3545 and Retaining Ring 3530 onto the Yoke Retainer 6564.8 (Fig. 26).
- Place the assembled Yoke Retainer 6564.8 into the Yoke 6562.8 and place the Saddle 6585 and Dust Cap 6878 on the Body 7276.8.
- Lubricate the Yoke retainer 6564.8 threads and, by hand, thread into the Body 7276.8 (Fig. 27).
- While holding the body 7276.8 secure in a soft jawed or well-padded vise apply the 1" socket, extension and torque wrench to the Yoke Retainer 6564.8 and tighten it to a torque of 23 - 25 ft-lbs. (31.2 - 33.9 N-m) (Fig. 28). Screw on the Yoke Knob 7820.



Fig. 26

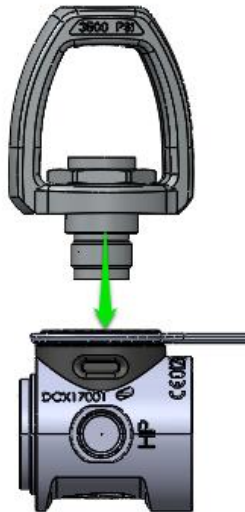


Fig. 27

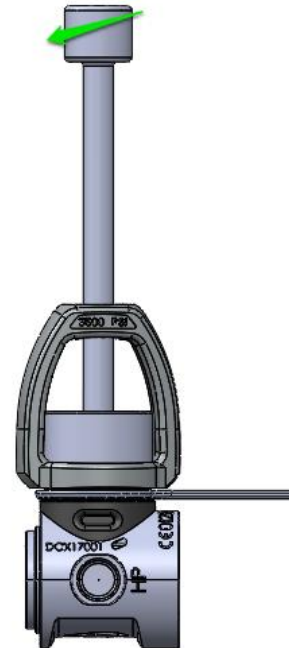


Fig. 28

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### 3. Installing the DIN Fitting:

**Note: If your DCX has a two piece DIN retainer and filter housing please see the Addendum at the end of these procedures.**

- a. Install the 6374 O-Ring into the DIN Nipple 6750 ensuring it is securely seated into the groove (Fig 29). DO NOT lubricate this o-ring.
- b. Install the filter 01-0035-00 and DIN Washer 01-0036-00 into the DIN Nipple 6750 (Fig 29).
- c. Install the 2.010 o-ring into the DIN Nipple 6750 (Fig 29). DO NOT Lubricate this o-ring.
- d. Slide the DIN Wheel 7712 onto the DIN Nipple 6750 (Fig. 30).
- e. Using the snap ring pliers install the snap ring 01-0031-00 onto the DIN Nipple 6750 (Fig 31). Ensure the snap ring is seated into the groove in the nipple.
- f. Place the saddle 6585 and Dust Cap 6878 on the Body 7276.8.
- g. Lubricate the DIN Nipple 6750 threads and by hand, screw the assembly into the body 7276.8 (Fig. 32)
- h. Secure the body 7276.8 in a soft jawed or well-padded vise. Use a ¼ Allen key mounted to a torque wrench tighten the DIN Nipple 6750 to a torque of 23 - 25 ft-lbs. (31.2 - 33.9 N-m) (Fig. 33).



Fig. 29

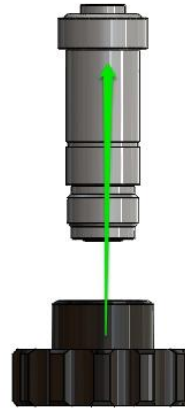


Fig. 30

i.

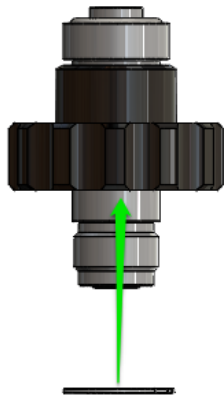


Fig. 31

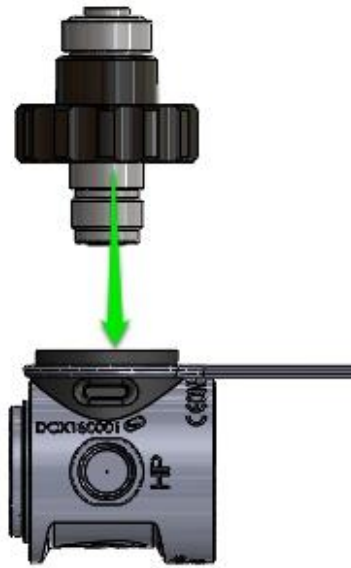


Fig. 32

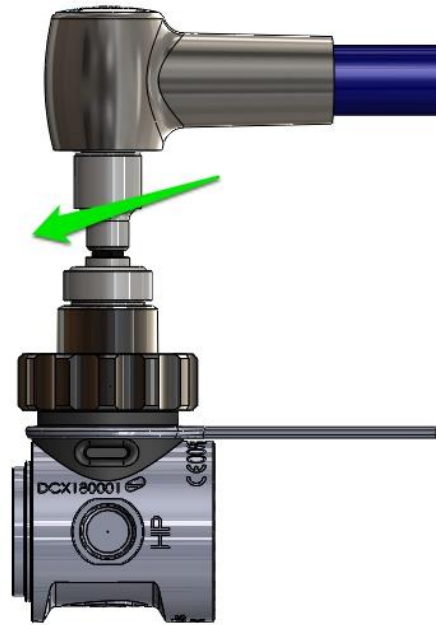


Fig. 33

#### 4. Install Swivel and Receiver Assembly:

- a. Lightly lubricate and install on the receiver O-rings 6510 and 2.021 onto the receiver 8041.8. Install the HP poppet O-ring V2.007.90 into the inner bore of the receiver 8041.8 (Fig. 34). Lightly lubricate the threads of the receiver 8041.8.
- b. Apply a very light film of lubricant to both ends of the spring 6512 and the lower 1/4" of the shaft of the HP poppet 6495. Install the spring 6512 onto the end of the receiver 8041.8 (Fig. 35).

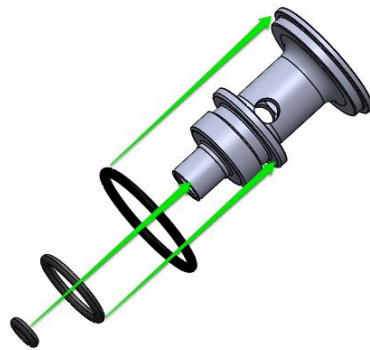


Fig. 34



Fig. 35

- c. Carefully guide the shaft of the HP poppet 6495 so that it passes through the spring 6512 and into the HP poppet O-ring V2.007.90 in the inner bore of the Receiver 8041.8 (Fig. 36).
- d. Install O-ring 2.024 onto body. Place Swivel 7280.8 onto body and place washer 7291 into swivel (Fig. 37).

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Fig. 36



Fig. 37

- e. Install the assembled Receiver 8041.8 Into the body. Using a ¼ Hex drive socket and torque wrench tighten the receiver to 80 – 100 in -lbs. (9.0 – 11.3 N-m) (Fig. 38).

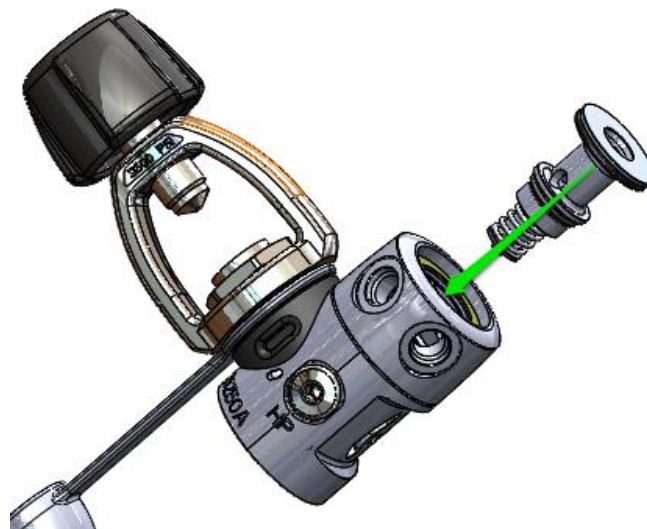


Fig. 38

#### 5. Assembly of Low Pressure Diaphragm:

- a. Place the stem of the button pin 6892 directly into the center hole in the body 7276.8, ensuring that it enters without any restriction (Fig. 38).

**WARNING:** The button pin 6892 has been modified to include flow slots on the bottom (also for identification, the part has an "L" on the head of the pin (Fig. 39). If you find a pin which does not contain slots on the bottom discard immediately. Failing to do so can result in a regulator that does not function properly and can lead to injury or death.



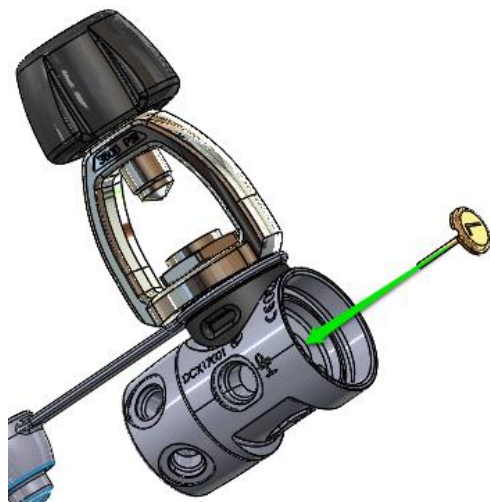


Fig. 38



Fig. 39

- b. Position the diaphragm 01.000031 flat, directly over the opening of the body 7276.8. Gently push the edges of the diaphragm 01.000031 down inside the internal threads of the body 7276.8, one thread at a time. Rotate the body 7276.8 while doing this to facilitate an even seating of the diaphragm 01.000031. Closely inspect it to ensure it is well seated at the base of the threads (Fig. 40).

CAUTION: DO NOT force the DIAPHRAGM 01.000031 into the BODY 7276.8 in a manner that will damage either the Lip or Surface of the DIAPHRAGM 01.000031, or the Threads of the BODY 7276.8. The use of a sharp instrument, such as a screwdriver, is to be strictly avoided.

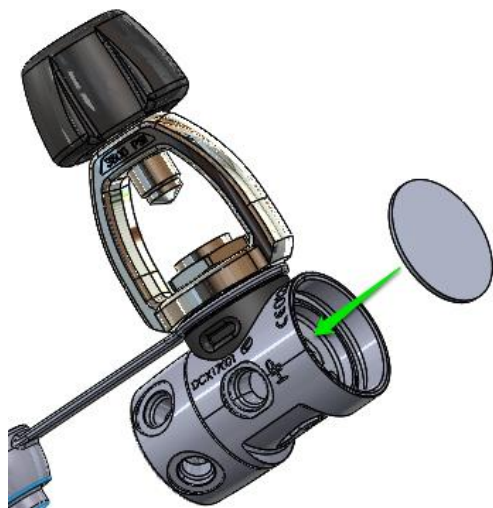


Fig. 40



Fig. 41

- c. Place the diaphragm plate 7007 into the body 7276.8 on top of the diaphragm 01.000031 with the collar facing up. Lubricate the end cap 8150.8 threads and screw onto the body 7276.8 turning it clockwise by hand until secure (Fig. 41).
- d. While holding the body 7276.8 secure in a soft jawed or well-padded vise, use a torque wrench with a Hollis 220.9103 End Cap Tool to tighten the end cap 8150.8 into the body 7276.8 to a torque of 23 - 25 ft-lbs. (31.2 - 33.9 N-m).

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CAUTION: Tighten the vise only as needed to hold the First Stage secure, and DO NOT overtighten. Doing so will result in permanent damage, rendering it inoperable.

- e. Apply a very light film of lubricant to both ends of the diaphragm spring 6717 and insert it down through the end cap 8150.8 on to the diaphragm plate 7007 (Fig. 42).
- f. Place the spring washer 6524 directly onto the upper end of the diaphragm spring 6717 (Fig. 42). Lubricate the adjustment cup 6518 threads and install into the end cap 8587 (Fig.43). Using a 5/16" hex key, turn the adjustment cup 6518 clockwise until only 2 threads are showing.

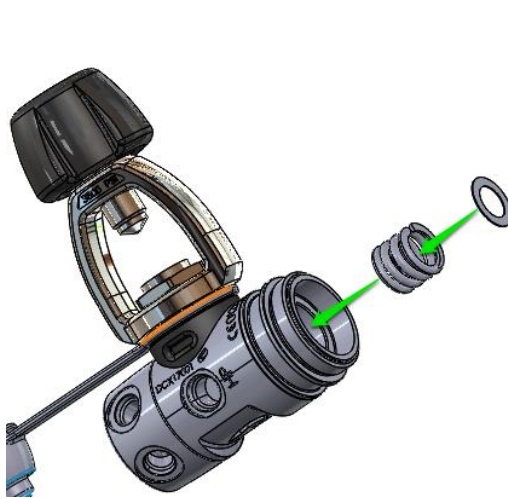


Fig. 42



Fig. 43

## FINAL ADJUSTMENT

1. Connect the assembled first stage to the test bench. Supply pressure to first stage should be set at 3000 psi (208 bar).
2. Prior to connecting an IP gauge slowly turn on the air a small amount and allow air to pass straight through the open ports. This will help remove any debris that may have found its way into the regulator. Close the air valve.
3. Connect a known accurate low-pressure test gauge to a first stage low-pressure port. Connect the second stage to the first stage and plug any open HP and LP ports. Slowly open the supply valve to pressurize the regulator and purge the second stage several times.
4. Adjust the intermediate pressure, if necessary, to read 137 to 139 PSI (9.4-9.6 bar) by turning the adjustment cup 6518 clock-wise to increase the pressure or counterclockwise to decrease it. See NOTE below.
5. Submerge pressurized regulator in water and check for leaks. This must be done prior to the reassembly of the environmental cap.

NOTE: Turn the ADJUSTMENT CUP 6518 no more than 1/8 of a turn at a time, pausing to purge the second stage several times to gain an accurate reading of the intermediate pressure before adjusting further.

NOTE: Ensure that the intermediate pressure holds stable at 137 TO 139 PSI (9.4-9.6 bar) and does not creep or fluctuate more than 5 psi after the second stage has been purged several times. If creeping over 5 psi is detected, refer to the Troubleshooting Section to determine possible cause and treatment.

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

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Last Revised 09/13/22

## ENVIRONMENTAL CAP COMPONENT REASSEMBLY

1. After adjusting the first stage as outlined in the Final Adjustment section, Install the environmental seal components **while the regulator is still pressurized**.
2. Place the stem of the transfer piston 6890 into the opening of the adjustment cup 6518.
3. Place the environmental diaphragm 6891 flat inside the Environmental end cap 8159.8. Install the Environmental end cap 7089.8, threading it clockwise by hand until fully seated, onto the end cap 8150.8. DO NOT use any tools to tighten. (Fig. 44).
4. Install the styling ring 8151 onto the end cap 8150.8.
5. Reattach all hoses and port plugs that were removed prior to service.
6. Again, submerge pressurized regulator in water and check for leaks.

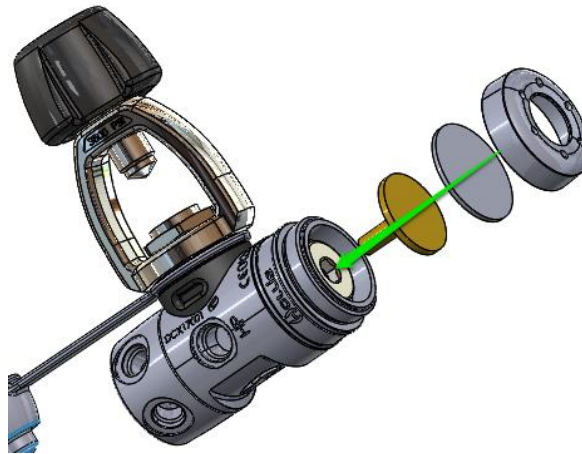


Fig.44

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

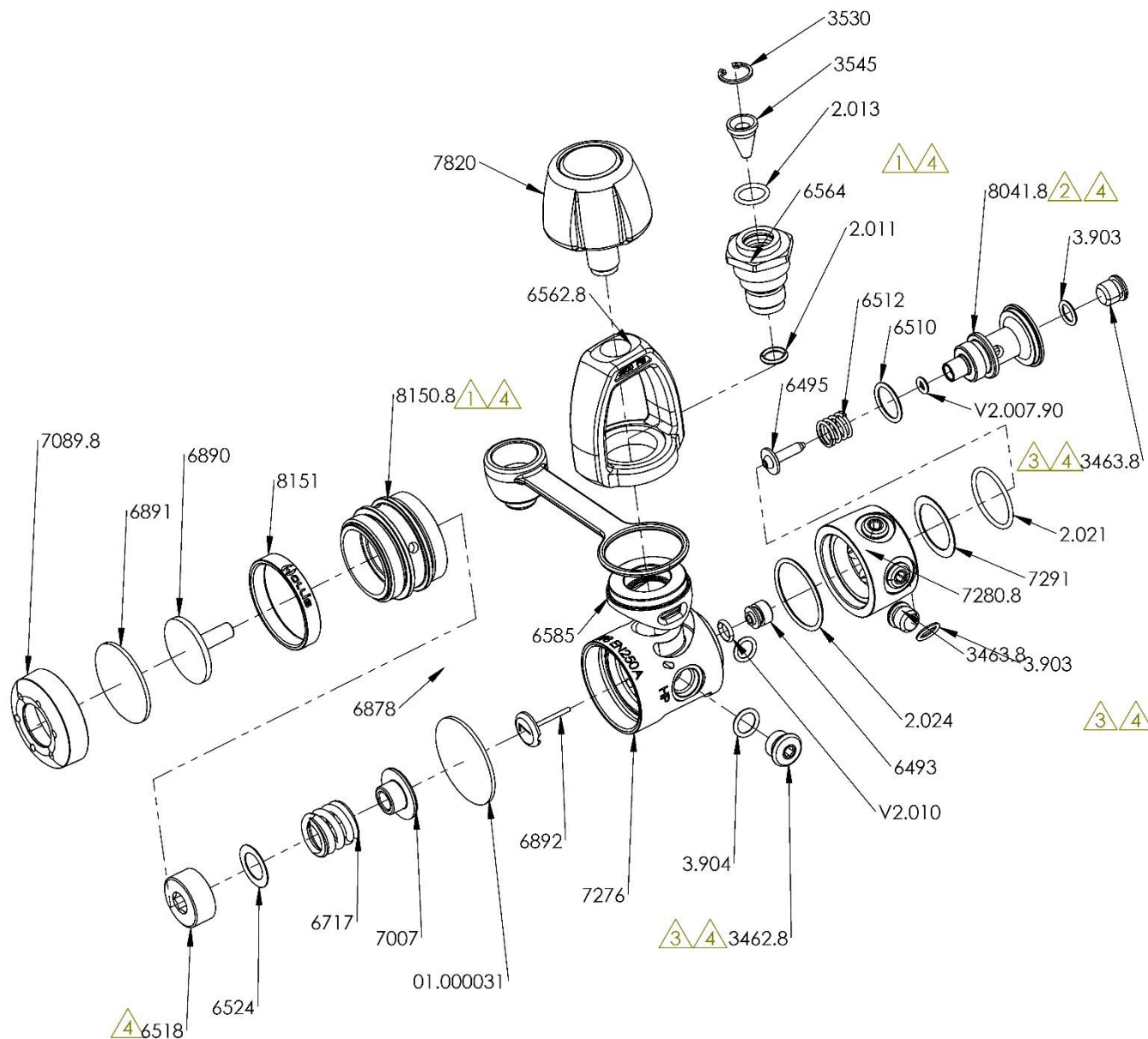
Doc. HO.01.02.0011

# SERVICE SCHEMATIC

LAST REVISED 04/07/20

# HOLLIS

PART NUMBER 7275.1 DCX YOKE



NOTES: UNLESS OTHERWISE SPECIFIED

- 1 TORQUE TO 23 - 25 ft-lbs
- 2 TORQUE TO 80 - 100 in-lbs
- 3 TORQUE TO 35 - 40 in-lbs
- 4 LUBRICATE THREADS USING CHRISTO-LUBE MCG 129N
5. LUBRICATE ALL O-RINGS USING CHRISTO-LUBE MCG 129N
6. SET IP TO 134 - 142 PSI WHEN INLET PRESSURE IS 500 - 3000 PSI

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Doc. HO.01.02.0011

Last Revised 09/13/22

7275.1 DCX YOKE BOM		
PART NUMBER	DESCRIPTION	QTY
7276.8	BODY- DIAPHRAGM	1
8041.8	RECEIVER	1
6512	SPRING	1
V2.007.90	O-RING	1
6495	HP POPPET	1
6892	BUTTON PIN	1
01.000031	DIAPHRAGM 1.50	1
7007	PLATE DIAPHRAGM	1
6717	SPRING DIAPHRAGM	1
6524	WASHER	1
6518	ADJUSTMENT CUP	1
8150.8	DIAPHRAGM RETAINER	1
6890	TRANSFER PISTON	1
6891	ENVIRONMENTAL DIAPHRAGM	1
7089.8	ENVIRONMENTAL END CAP	1
2.011	O-RING	1
3463.8.8	PLUG LP	4
3.903	O-RING	4
6564.8	YOKE RETAINER	1
3.904	O-RING	2
3545	FILTER	1
2.013	O-RING	1
3530	RETAINING RING INT .50	1
6562.8	YOKE MACHINED	1
6585	SADDLE	1
6878	DUST CAP	1
7820	KNOB ASSEMBLY	1
6493	HP SEAT (LONG)	1
V2.010	O-RING (VITON)	1
8151	STYLING RING	1
3462.8.8	PLUG HP	2
6510	O-RING (EPDM)	1
2.024	O-RING	1
7280.8	SWIVEL	1
7291	WASHER SWIVEL	1
2.021	O-RING	1

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

Doc. HO.01.02.0011

Last Revised 09/13/22

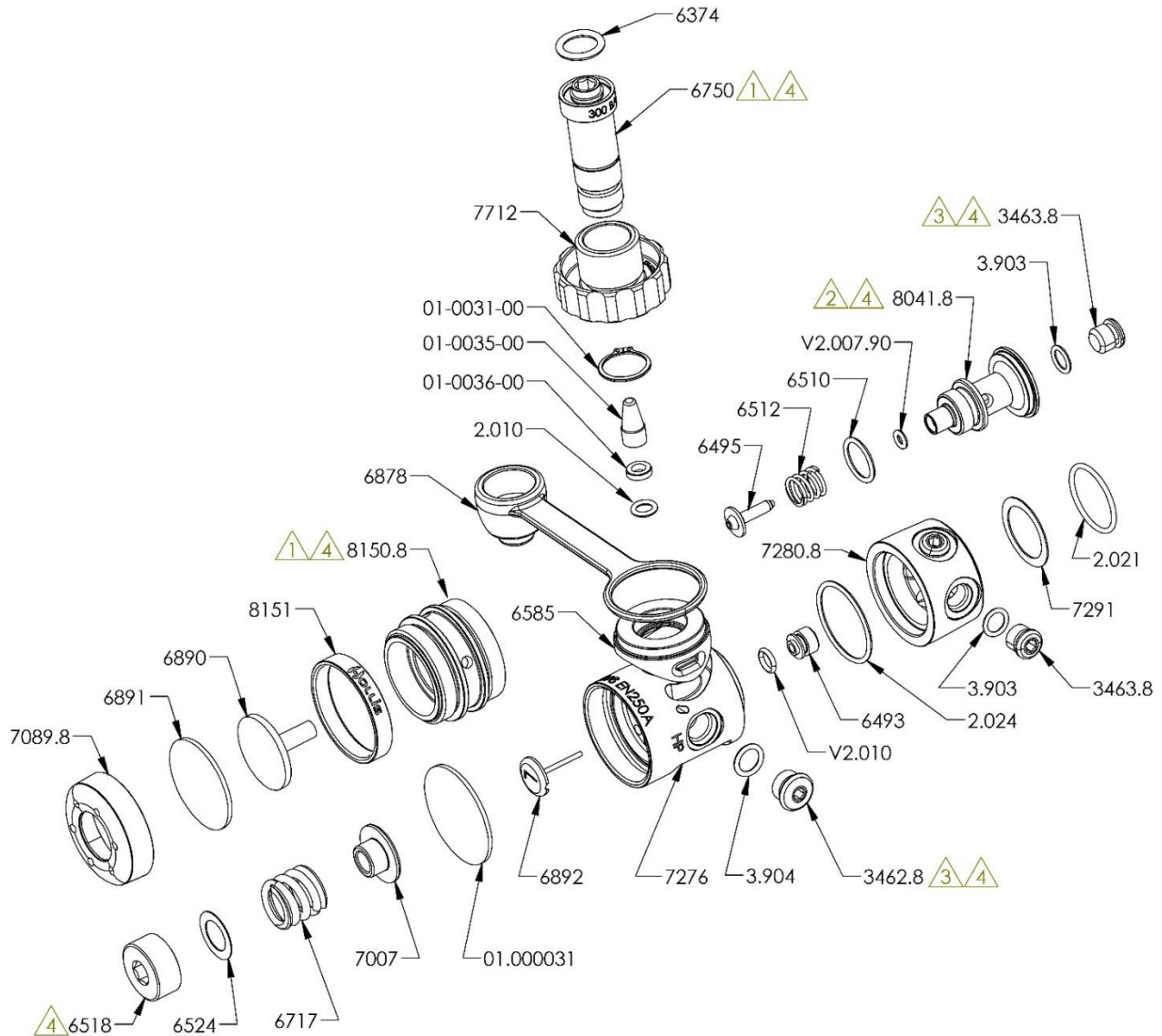


# SERVICE SCHEMATIC

LAST REV. 04/06/20

# HOLLIS

PART NUMBER 7275.2 DCX DIN (ONE PIECE)



NOTES: UNLESS OTHERWISE SPECIFIED

- 1 TORQUE TO 23 - 25 ft-lbs.
- 2 TORQUE TO 80 - 100 in-lbs.
- 3 TORQUE TO 35 - 40 in-lbs.
- 4 LUBRICATE THREADS WITH CHRISTOLUBE MCG 129N
- 5. LUBRICATE ALL O-RINGS WITH CHRISTOLUBE MCG 129N
- 6. SET IP TO 134 - 142 PSI WHE INLET PRESSURE IS 500 - 3000PSI

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Doc. HO.01.02.0011

Last Revised 09/13/22



7275.2 DCX DIN (ONE PIECE) BOM		
PART NUMBER	DESCRIPTION	QTY
7276.8	BODY- DIAPHRAGM	1
8041.8	RECEIVER	1
6512	SPRING	1
V2.007.90	O-RING	1
6495	HP POPPET	1
6892	BUTTON PIN	1
01.000031	DIAPHRAGM 1.50	1
7007	PLATE DIAPHRAGM	1
6717	SPRING DIAPHRAGM	1
6524	WASHER	1
6518	ADJUSTMENT CUP	1
8150.8	DIAPHRAGM RETAINER	1
6890	TRANSFER PISTON	1
6891	ENVIRONMENTAL DIAPHRAGM	1
7089.8	ENVIRONMENTAL END CAP	1
3463.8.8	PLUG LP	4
3.903	O-RING	4
3.904	O-RING	2
6750	DIN NPPLIE	1
01-0031-00	Snap Ring	1
7712	DIN WHEEL ASSEMBLY	1
6374	O-RING (2-112)	1
01-0035-00	FILTER	1
01-0036-00	WASHER, DIN	1
2.010	O-RING	1
6585	SADDLE	1
6878	DUST CAP	1
6493	HP SEAT (LONG)	1
V2.010	O-RING (VITON)	1
8151	STYLING RING	1
3462.8.8	PLUG HP	2
2.024	O-RING	1
7280.8	SWIVEL	1
7291	WASHER SWIVEL	1
2.021	O-RING	1
6510	O-RING (EPDM)	1

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

Doc. HO.01.02.0011

Last Revised 09/13/22

# ADDENDUM

**NOTE: PRIOR TO JULY OF 2020 THE DIN VERSION OF THE DCX WAS BUILT WITH THE FOLLOWING, TWO PIECE, CONFIGURATION. PLEASE USE THE FOLLOWING PROCEDURES TO DISASSEMBLE AND REASSEMBLE THIS DIN CONFIGURATION.**

## Disassembling the DIN Assembly:

- Using a ¼ Hex Key remove the DIN Retainer 4544.200 by turning counterclockwise. Remove O-Rings 6374 and V2.012. Discard the o-rings (Fig. A).
- Remove the Handwheel 7712 (Fig. B).
- Using the 13/16" deep socket remove the DIN Housing 6752 by turning counter clockwise. Remove the Saddle 6585 and dust cap 6878 (Fig. C).
- Remove the Filter 4546 and two O-Rings 2.011 from DIN Housing 6752 and discard (Fig. D).

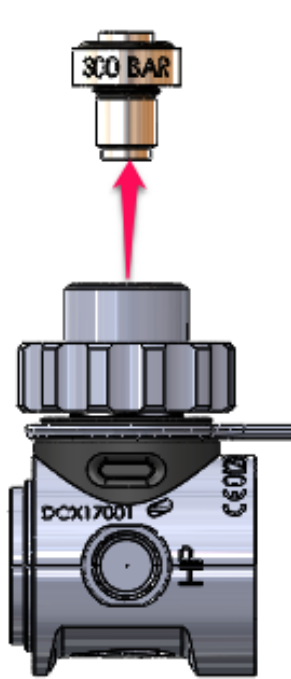


Fig. A

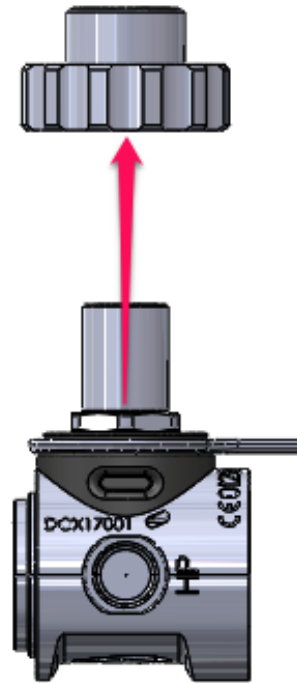


Fig. B

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

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Last Revised 09/13/22

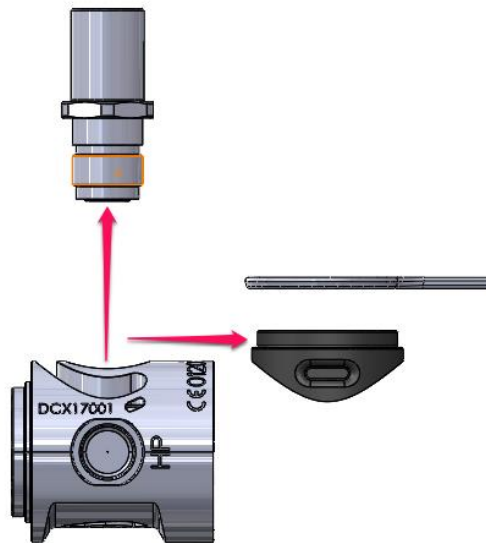


Fig. C



Fig. D

### Reassemble the DIN Assembly:

- Lubricate and install two 2.011 O-Rings into the DIN Housing 6752. Install Filter 4546 into the DIN Housing (Fig. E).
- Lubricate and install O-Ring V2.012 onto the DIN Filter Retainer 4544.200. Install O-ring 6374 (do not lubricate) onto the Filter Retainer (Fig. F).
- Place the saddle 6585 and Dust Cap 6878 on the Body 7276.8. Lubricate the DIN Housing threads and, by hand, screw the assembly into the body 7276.8 (Fig. G).
- While holding the body 7276.8 secure in a soft jawed or well-padded vise apply the 13/16" deep socket and torque wrench to the DIN Housing assembly and tighten it to a torque of 23 - 25 ft-lbs. (31.2 - 33.9 N-m) (Fig. H).
- Install the DIN Handwheel 7712 onto the DIN Housing 6752 (Fig. J).
- Lubricate the DIN Filter Retainer 4544.200 threads and install by hand, onto the DIN Housing 6752. Using the in-lbs. torque wrench fitted with a 1/4 in hex drive socket tighten the Filter Retainer to 120 – 140 in-lbs. (13.6 – 15.8 N-m) (Fig. K).

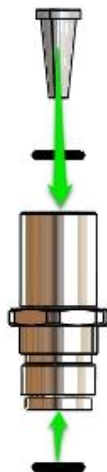


Fig. E

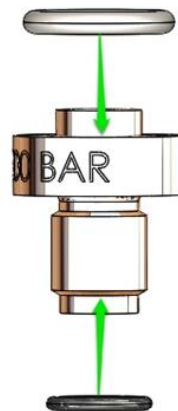


Fig. F

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

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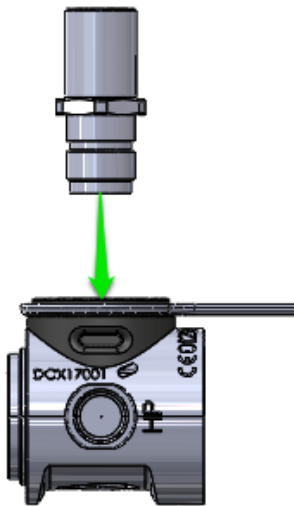


Fig. G



Fig. H

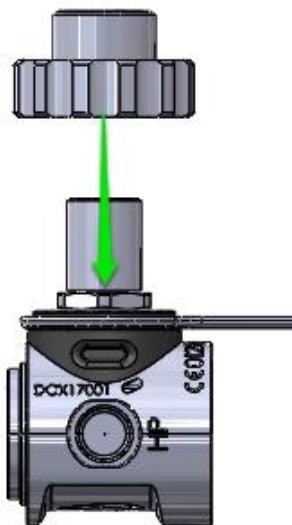


Fig. J

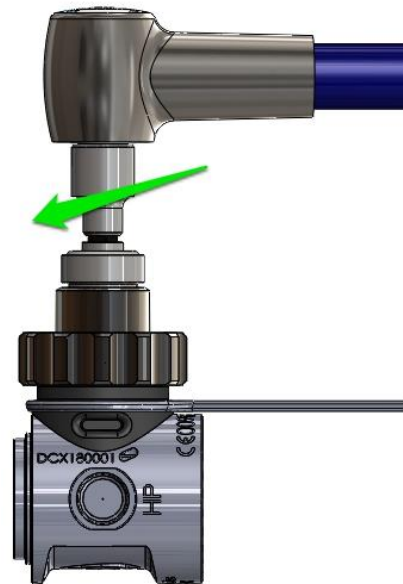


Fig K

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

Doc. HO.01.02.0011

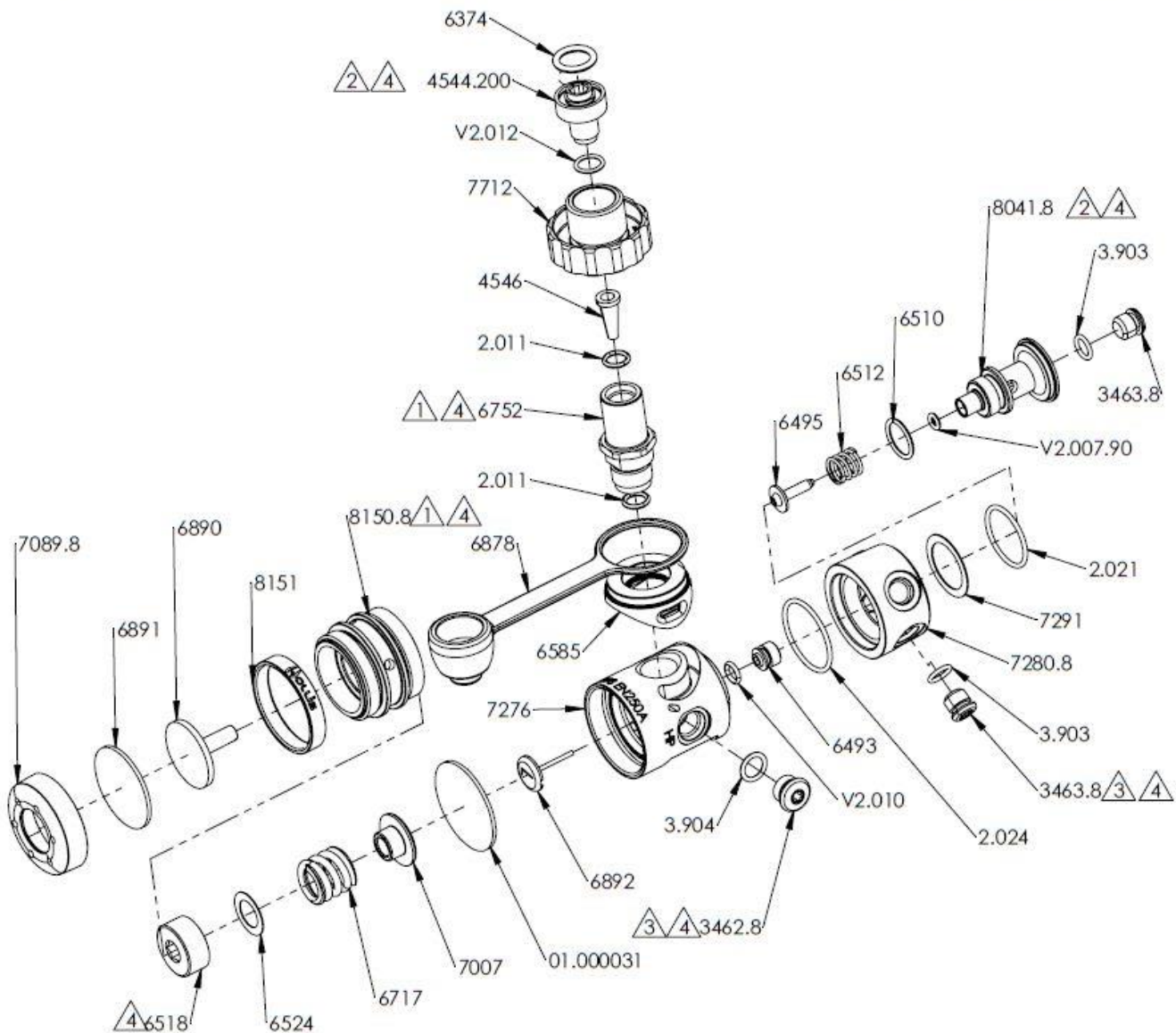
Last Revised 09/13/22

# SERVICE SCHEMATIC

LAST REVISED 02/20/20

# HOLLIS

PART NUMBER 7275.2 DCX DIN



## NOTES: UNLESS OTHERWISE SPECIFIED

- 1 TORQUE TO 23 - 25 ft-lbs
- 2 TORQUE TO 120 - 140 in-lbs
- 3 TORQUE TO 35 - 40 in-lbs
- 4 LUBRICATE THREADS USING CHRISTO-LUBE MCG 129N
- 5. LUBRICATE ALL O-RINGS USING CHRISTO-LUBE MCG 129N
- 6. SET IP TO 134 - 142 PSI WHEN INLET PRESSURE IS 500 - 3000 PSI

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Last Revised 09/13/22

7275.2 DCX DIN BOM		
PART NUMBER	DESCRIPTION	QTY
7276.8	BODY- DIAPHRAGM	1
8041.8	RECEIVER	1
6512	SPRING	1
V2.007.90	O-RING	1
6495	HP POPPET	1
6892	BUTTON PIN	1
01.000031	DIAPHRAGM 1.50	1
7007	PLATE DIAPHRAGM	1
6717	SPRING DIAPHRAGM	1
6524	WASHER	1
6518	ADJUSTMENT CUP	1
8150.8	DIAPHRAGM RETAINER	1
6890	TRANSFER PISTON	1
6891	ENVIRONMENTAL DIAPHRAGM	1
7089.8	ENVIRONMENTAL END CAP	1
2.011	O-RING	2
3463.8.8	PLUG LP	4
3.903	O-RING	4
6374	O-RING (2-112)	1
3.904	O-RING	2
4544.200	DIN FILTER RETAINER	1
V2.012	O-RING (VITON)	1
7712	DIN WHEEL ASSEMBLY	1
4546	DIN FILTER	1
6585	SADDLE	1
6878	DUST CAP	1
6752	HOUSING DIN	1
6493	HP SEAT (LONG)	1
V2.010	O-RING (VITON)	1
8151	STYLING RING	1
3462.8.8	PLUG HP	2
2.024	O-RING	1
7280.8	SWIVEL	1
7291	WASHER SWIVEL	1
2.021	O-RING	1
6510	O-RING (EPDM)	1

This DCX Service Procedure conveys a list of components and service procedures that reflect the DCX as it was configured at the time of this writing.

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