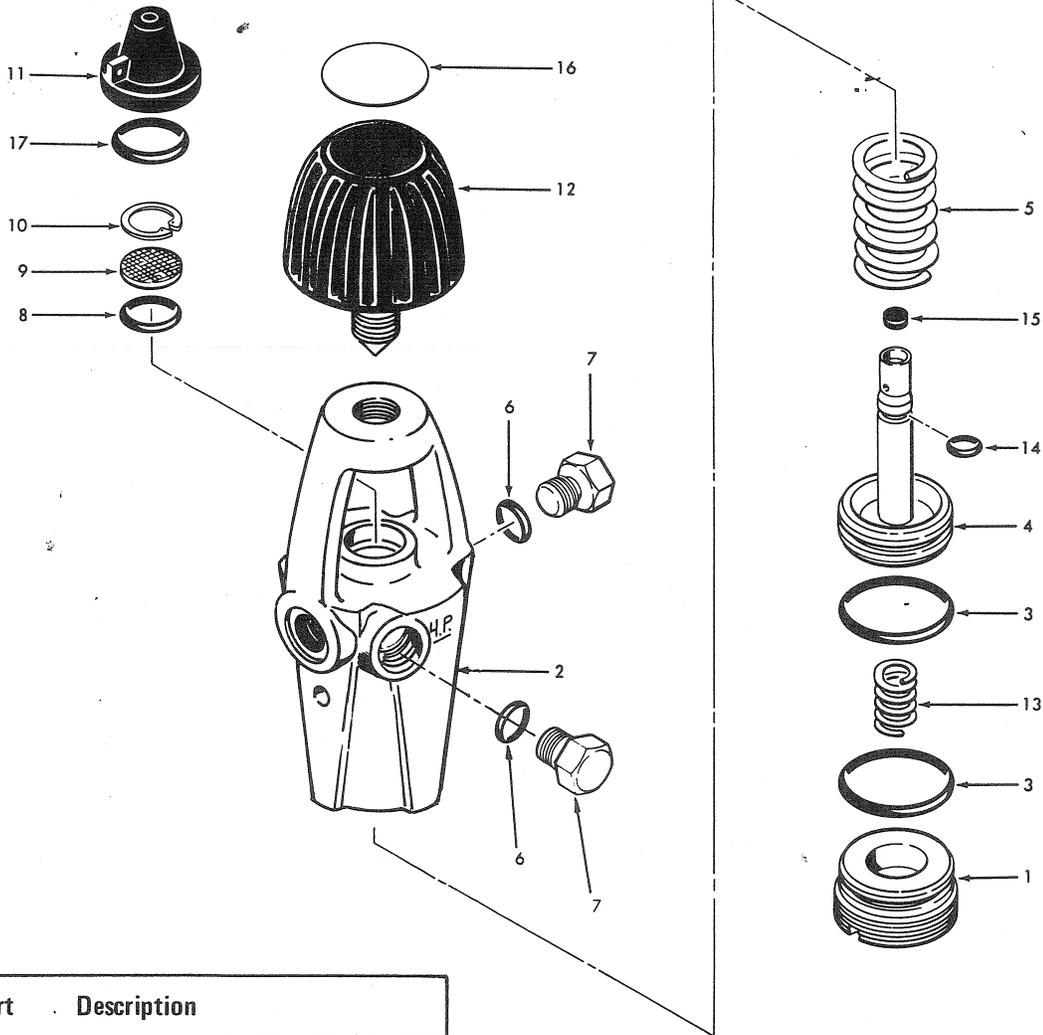
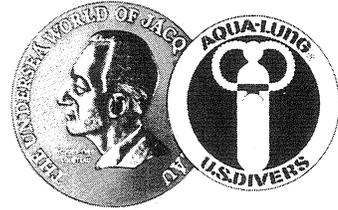


**PARTS LIST**

**FIRST STAGE FOR 1075-00 AQUARIUS REGULATOR**

**1075-08 AQUARIUS 1ST STAGE REGULATOR**

**(SECOND STAGE IS 1075-09)**



Key Order Part	Description
1 - 1075-03	Cap
2 - 1075-01	Body
3 - 8201-13	O'Ring
4 - 1075-04	Piston
5 - 1075-07	Spring
6 - 8200-11	O'Ring
7 - 9109-12	Plug
8 - 8200-12	O'Ring
9 - 1051-06	Filter
10 - 1024-09	Retainer
11 - 1010-12	Protection Cap Assy
12 - 1075-06	Screw Cap
13 - 1075-02	Spring
14 - 8200-07	O'Ring
15 - 1055-08	Seat
16 - 1075-10	Decal
17 - 8201-12	O'Ring

**A. DISASSEMBLY**

Step No.	Key No.	Description	Procedure (Ref exploded view)
1.		Hose	Unscrew from body (2) with 9/16" wrench.
2.	11	Protection Cap	Remove screw cap (12).
3.	1	Cap	Unscrew and remove cap (1) with screwdriver. Also remove spring (13) and O'ring (3).
4.	10	Retainer	Remove press-fit retaining ring (10) with small hook tool. Also remove filter (9) and O'ring (8).
5.	4	Piston	Remove piston by inserting a .060" dia by 3" long hard plastic rod through the high pressure inlet and pushing on seat (15). Also remove spring (5), O'rings (3) & (14), and if necessary remove seat (16), push out with 1/16" dia by 3" long rod through back end of piston (4).

**B. INSPECTION AND REPAIR PROCEDURE**

1.		All O'rings, gaskets, etc.	Check for nicks, wear, deterioration, etc. Replace if necessary.
2.	15	Seat	This seat is reversible. Check both ends for deep embedding, nicks, wear, etc. If one end is good, place it on the outside at time of assembly. Replace if necessary.
3.	2	Body	Check seat for nicks, dents, etc. Replace if necessary.
4.	9	Filter	Check for excessive foreign matter, dirt or verdigris. Replace if necessary.

**C. CLEANING PROCEDURE**

1.		All plastic and rubber parts. (Note: Filter (9) and piston (4), if seat not taken apart, should be cleaned at this step and not in acid.)	Clean in warm, soapy water. Rinse thoroughly and dry with air hose or cloth. Apply very thin coat of silicone grease to all surfaces except filter. Wipe with clean cloth to remove excess silicone or loose dirt.
2.		All metal parts, except as previously noted. (Note: Remove all rubber and plastic parts first.)	Clean in mixture of 15-20% nitric acid solution and rinse thoroughly with fast running fresh water. Dry with air hose or cloth.

NOTE: Additional cleaning may be necessary due to extra thick foreign matter. Use extra fine wire brush or equivalent.

**D. ASSEMBLY**

1.	4	Piston	Place on piston (silicone lubricated) O'rings (14) & (3), seat (15) and spring (5). Place in piston assy into body (2).
2.	1	Cap	Place on cap spring (13) and O'ring (3) (lubricated lightly with silicone). Screw on cap (1) into body (2). Cap (1) should be flush with body (1).
3.	10	Retainer	Place in O'ring (8), filter (9) press on retainer (10) into body (2) with 15/32" dia rod.
4.	11	Protection Cap	Tie onto yoke on body (2).

**ADJUSTMENT PROCEDURE**

The intermediate pressure can be adjusted by turning cap (1). To increase pressure turn cap (1) counter clockwise. Intermediate pressure is 128-132 psig @ 2400 ±50 psig inlet pressure. This pressure can be checked by placing test gauge (Ref 1116-00, TOOLS) in place of 2nd stage. Note: Before supply pressure is turned on, first open bleed screw on test gauge. After flow begins, close bleed off slowly. Test gauge needle should stop within the specified range.

## TROUBLE SHOOTING CHART

NOTE: Trouble shooting should be done as a complete unit (1st and 2nd stages together).

COMPLAINT	ORIGIN	KEY NO.	CAUSE*	REMEDY (Ref exploded view)
Air leak from 2 drain ports	O'Rings Body	3, 14 2	O'ring or body damage.	Replace as necessary
High pressure air leak to 2nd Stage	Seat	15	Deep embedding, nicks, cuts, etc.	Replace (see "Repair" Step No. 2).

## NOTES:

- \*Cause could be due to dirt, sand, wear or verdigris in addition to items already listed.
- See "Adjustment Procedure" in this and also 2nd Stage (1048-00, 1050-00, 1052-00 and 1056-00) for breathing characteristics.