

## Flexflo® MODEL 83 FIELD DISASSEMBLY AND ASSEMBLY INSTRUCTIONS

### Contents

Scope .....	1	Disassembly .....	1
General Description .....	1	Assembly .....	1
Removal from Pipeline .....	1	Installation on Pipeline .....	2

### Scope

This instruction covers field disassembly and assembly of Model 83 Flexflo.

### General Description

The Flexflo Model 83 consists of 3 major parts, the body, the core, and the tube. The tube fits over the core and inside the body.

The opening of the Flexflo occurs when the tube lifts off the core, allowing flow between the tube and the core. The closing of the Flexflo happens in the opposite manner with the tube sealing on the core. The position of the tube is determined by four variables; the upstream pressure; the downstream pressure; the jacket pressure; and the tube characteristics. The jacket pressure is in the jacket which is sealed annular space between the tube and the body. The jacket pressure is varied for control of the valve. If the jacket pressure equals the upstream pressure, the valve will shut bubble tight; but if the jacket pressure is lower than the upstream pressure, the valve will open as determined by the four variables.

### Removal from Pipeline

#### CAUTION

**Before starting removal, isolate Flexflo from pipeline pressure and release all pressure from body & jacket.**

1. Disconnect inlet, outlet and sense tubing from pilot and valve. Disconnect any piping that will inhibit removal of the valve from the pipeline. If the pilot does not inhibit removal or disassembly it may be left on the valve.

2. Loosen line flange bolting and remove studs on top so that the valve will clear the bolting.
3. Lift valve from pipeline.

### Disassembly (See Figure 1)

1. Remove Allenhead capscrews that hold body and core together.
2. Pull body and core apart.
3. Remove the tube from the core, either by cutting off or by prying with a screwdriver.

#### CAUTION

**Take care not to scratch sealing groove on core barrier when removing tube.**

### Assembly (See Figure 1)

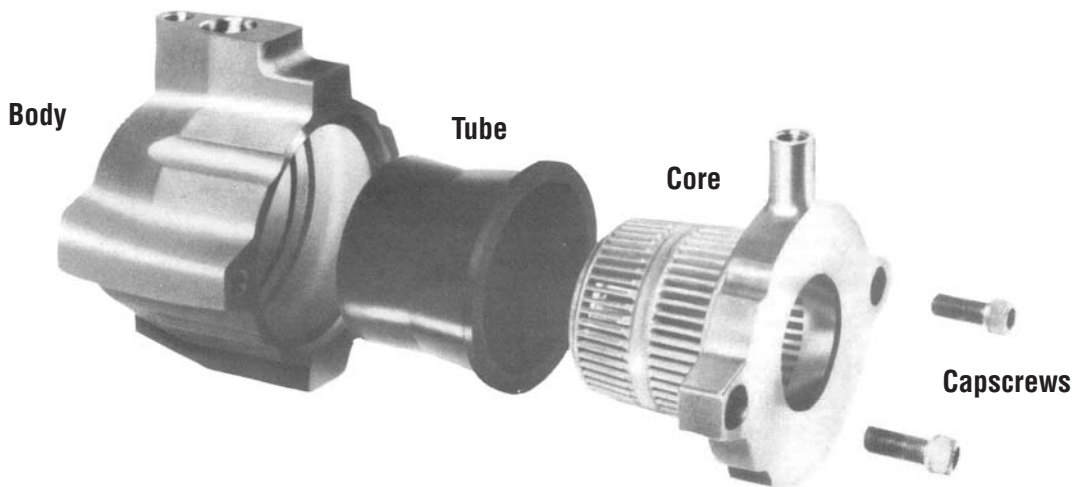
1. Lubricate interior surface of the tube and the exterior surface of the core with silicone grease (Dow Corning Molykote 55M or equal) or glycerin.
2. Press tube on core.
3. Clean capscrews and mounting holes in body and lubricate threads with an anti-friction grease. Place tube and core in the body and bolt together with the allenhead capscrews. Torque capscrews equally until metal-to-metal contact between body and the core's mounting "ears" is achieved.

#### CAUTION

**Do not over torque. Excessive torque may damage the threads.**

### Installation on Pipeline (Suggestion)

1. With the lower half of the line flange bolting already in place, lower the valve with gaskets between the flanges.
2. Check that the flow arrow on the body is pointing downstream.
3. Install the remaining studs and nuts.
4. Tighten evenly to torque values specified.
5. Replace pilot and associated tubing.



**Figure 1** - REDQ Model 83 Flexflo® Regulator

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