

**OPERATION AND MAINTENANCE SHEET  
MODEL 1181 FLOW CONTROLLER**

**GENERAL**

The model 1181 restricts flow when the inlet pressure is high and gradually opens as inlet pressure decreases. If maximum restriction is desired at 5000 PSI, tighten the adjusting bolt approximately 3 turns beyond the point where it starts compressing the spring. Under this condition maximum valve opening will be reached when the inlet pressure drops to about 3000 PSI. If the adjusting bolt is tightened to where it starts compressing the spring and no more maximum restriction will occur at about 2000 PSI and full opening will be at 0 PSI. The inlet is the female NPT port at the side of the valve. The outlet is the male NPT at the bottom of the valve. It can be mounted using either the upper 1.25" threaded section and lock nuts (part number 952) or the lower 1 inch jam nut.

**SPECIFICATIONS**

Max inlet pressure            6000 PSI  
 Outlet pressure                0 to 5000 PSI  
 Body ports                      1/4" MNPT - outlet at the

bottom centerline  
 1/4" FNPT inlet on the side as shown  
 Flow coefficient (Cv)        0.05 shut, 0.20 open for 1181-1 assy  
    .03/.20 for 1181-2  
    .08/.20 for 1181-3  
 Materials                        anodized aluminum body, brass and stainless interiors  
    viton seals

IN ALL CASES THE UNIT CAN BE RETURNED TO THE FACTORY OR DEALER FOR REPAIR UNDER WARRANTY OR AT A NOMINAL CHARGE. Maintenance or repairs can be done by qualified personnel in a clean environment by following the drawings herein.

**ASSEMBLY AND DISASSEMBLY**

Assembly and disassembly can be done by following the following drawings and parts list.

**PARTS LIST - 1181 REGULATOR**

ITEM	QTY	PART NO.	DESCRIPTION
1	1	811	body
2	1	1182	orifice
3	1	1180-1	piston (.05/.20) for assy 1181-1
		1180-2	piston (.03/.20) for assy 1181-2
		1180-3	piston (.08/.20) for assy 1181-3
4	1	1124	cap, lower
5	1	1126	collar
6	1	849	spring guide
7	1	903	cap, upper
8	1	410	spring guide
9	1	1181-9	bolt
10	1	1181-10	lock nut
11	1 or 2	952	mount nut (optional)
12	1	379-5	spring
13	1	2-010 -90V	seal
14	1	2-014 -90V	seal
15	1	2-018 -90V	seal
16	1	1120-20	1" x 14 thd jam nut plt stl
17	1	1181-17	repair kit incl. items 3,13,15

