SINGER VALVE
Result-Based Solutions. Globally.™

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SINGER MODEL 82-PR

Normally Open Pilot Schematic A0667C
Installation, Operation and Maintenance Instructions

DESCRIPTION:

Model 82-PR is a normally open pilot that closes when the control pressure below the diaphragm exceeds the force of the spring.

INSTALLATION:

1. Flush system of all foreign matter before installing the valve.
2. The valve can be installed in any position.
3. Check direction of flow and install the valve accordingly. Refer to enclosed schematic and check the arrow in the valve body.
4. Connect control tubing from the sensing connection of the valve to the point of control. Refer to enclosed schematic.

ADJUSTING PROCEDURE:

1. Loosen the locknut.
2. Turn the adjusting screw clockwise for increased setting, counterclockwise for reduced setting.
3. Lock adjustment by tightening adjusting screw locknut.

SERVICE SUGGESTIONS:

FAILS TO CLOSE

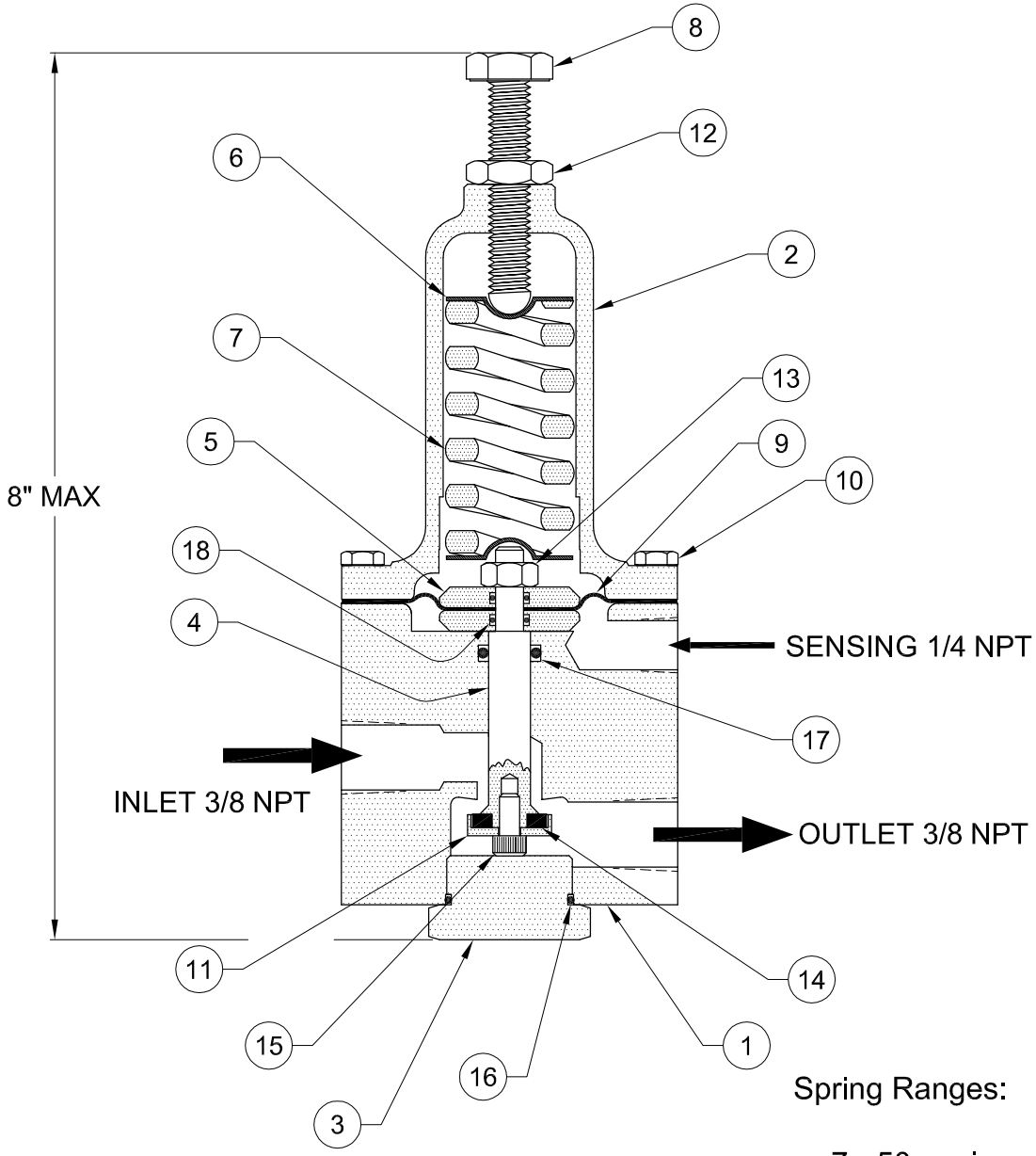
POSSIBLE CAUSE	REMEDY
Spring overset	Decrease setting
Foreign material in valve	Dismantle and clean
Diaphragm ruptured	Replace diaphragm

FAILS TO OPEN

Spring underset	Increase setting
Foreign material in valve	Dismantle and clean

A0667C

Normally Open Pilot



Item	Description	Material
1.	Body	Brass
2.	Spring Casing	Bronze
3	Bottom Cap	Brass
4.	Inner Valve Stem	Stainless Steel
5	Clamp Plate (2)	Brass
6	Spring Step (2)	Stainless Steel
7.	Spring	Steel
8.	Adjusting Screw	Stainless Steel
9.	Diaphragm	Buna-N
10.	Body Capscrew	Stainless Steel
11.	Disc Retainer	Stainless Steel
12.	Locknut	Stainless Steel
13.	Inner Valve Nut	Stainless Steel
14	Resilient Disc	Buna-N
15.	Inner Valve Screw	Stainless steel
16.	Bottom Cap Seal	Buna-N
17.	Body Seal	Buna-N
18.	Clamp Plate Seal	Buna-N
** 19.	Adjusting Screw Bearing	Stainless Steel

Spring Ranges:

7 - 50 psi	20 - 80 psi
45 - 200 psi	100 - 300 psi
200 - 500 psi	200 - 600 psi **

** Used in spring range 200 - 600 psi only.
Not shown in drawing.

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Date:	Drawing:
March 10, 1999	A0667C

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