SINGER VALVE
Result-Based Solutions. Globally.™

12850-87th Avenue
Surrey, BC. Canada. V3W 3H9
Ph: 604-594-5404
Fx: 604-594-8845
www.singervalve.com

SINGER MODEL 82B

3-Way Booster Pilot Schematic A0663A

Installation, Operation and Maintenance Instructions

DESCRIPTION:
Model 82B is a three-way valve that is pushed to one position by a light spring and to the other position by external pressure.

DESCRIPTION OF OPERATION:
When the bottom of the diaphragm is vented to atmosphere, Port 'B' is connected to Port 'A'. When the bottom of the diaphragm is pressurized, Port 'B' is connected to Port 'C'.

INSTALLATION:
Refer to schematic for the control valve involved.

SERVICE SUGGESTIONS:
If Model 82B fails to work as expected, the reason could be:

1. Pressure does not reach the sensing chamber (1/4"N.P.T.) because of obstruction or other problems with the solenoid valve or other component feeding the 82B.

2. Pressure is not released from the sensing chamber for reasons listed above.

3. Diaphragm of 82B ruptured or failure of seals (14) or (15). If the spring casing (2) gets pressurized, the valve will not operate.

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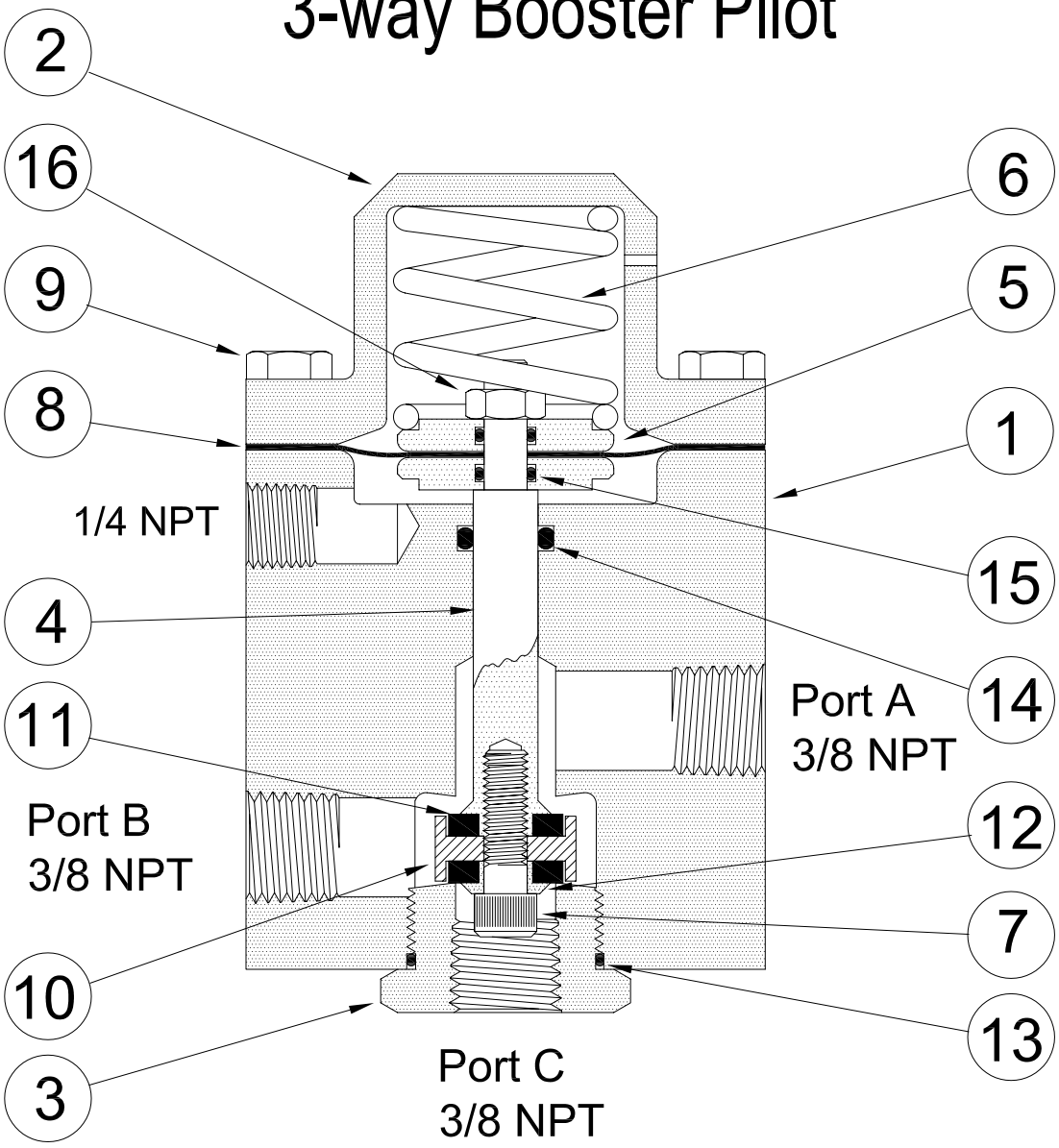
Model 82-B
3-way Booster Pilot



ITEM	DESCRIPTION	STANDARD MATERIAL
1	Body	Brass
2	Spring casing	Brass
3	Seat ring	Stainless steel
4	Inner valve stem	Stainless steel
5	Clamp plate (2)	Brass
6	Spring	Spring steel
7	Inner valve screw	Stainless steel
8	Diaphragm	Buna-N
9	Body capscrew (6)	Stainless steel
10	Inner valve	Stainless steel
11	Resilient disc (2)	Buna-N
12	Disc retainer	Stainless steel
13	Seat ring seal	Buna-N
14	Stem seal	Buna-N
15	Clamp plate seal (2)	Buna-N
16	Stem nut	Stainless steel

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Drawn By:	Approved By:
Kari Oksanen	Kari Oksanen
Date:	Drawing:
November 17, 2005	A0663A

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