



ESG Service Information

File In/With: 155.17-RP3

SI0010

New 10-01

Equipment Type "S" Model
Affected: Absorption Chillers

Globe Valve Design Change

General

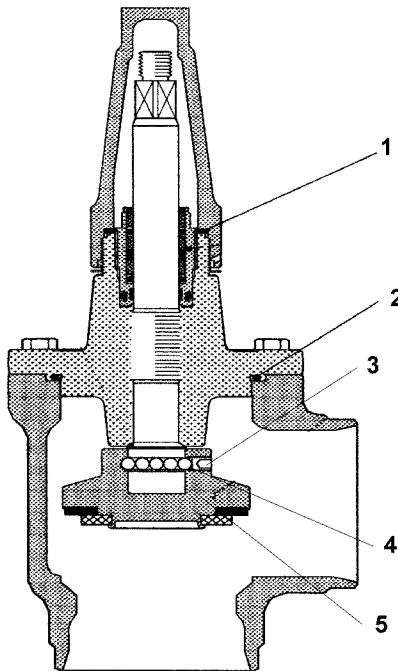
On or about October 2001, all type "S" model absorption chillers will be shipped with different globe valves installed. York is changing from the Hitachi Morikawa 1-piece design globe valve to a Danfoss 2-piece globe valve design. See figure below of the Danfoss valve. Currently, there are three different size valves being used on the "S" model chillers. The York part numbers for these new valves are as follows:

<u>York part number</u>	<u>Danfoss model number</u>	<u>Description</u>
022-10097-000	SVA-ST 40 A 123	1-1/2" with cap
022-10098-000	SVA-ST 50 A 123	2" with cap
022-10099-000	SVA-ST 65 A 123	2-1/2" with cap

For maintenance and serviceability of the Danfoss valves, certain spare parts are necessary. York has available two types of spare parts kits for each valve that can be used for repair. Both kits have a York part number. Kit type and contents are as follows:

Spare parts kit – (Used when valve is leaking externally). Contains: gasket for valve cap (1) and an "O"-ring (2) for the valve bonnet.

Complete repair kit – (Used when valve is leaking internally). Contains cone (5), set screw (3), steel balls (4), "O"-ring (2), packing gland assembly (not shown), and a gasket for valve cap (1).



<u>Complete Valve p/n</u>	<u>Kit Part Number</u>	<u>Type Kit</u>
022-10097-000	022-10602-000	spare parts kit
022-10097-000	022-10603-000	complete repair kit
022-10098-000	022-10604-000	spare parts kit
022-10098-000	022-10605-000	complete repair kit
022-10099-000	022-10606-000	spare parts kit
022-10099-000	022-10607-000	complete repair kit

Part Number for Seal Cap Only

<u>Complete Valve Part Number</u>	<u>Seal Cap Part Number</u>
022-10097-000	022-10620-000
022-10098-000	022-10621-000
022-10099-000	022-10622-000

The valves installed on the unit have undergone extensive factory testing using helium and other leak testing methods to ensure leak free operation. **Do Not** loosen the four bolts that hold the bonnet to the valve body unless the valve is being re-built by a certified York factory technician. If the valve is taken apart, a through leak test must be performed to verify leak tightness of the valve. The chart below lists torque values for the Danfoss valves.

YORK Part Number	Valve Size (in.)	Packing Gland Torque (ft/lb)	Seal Cap Torque* (ft/lb)
022-10097-000	1-1/2	52	16
022-10098-000	2	30	30
022-10099-000	2-1/2	51	51

*Four bolts that hold the bonnet to the valve body.

Since the lead is shorter on the Danfoss valves than what it is on the Hitachi “Morikawa” valves, the distance the valve travels when turned will be different. The below chart compares the Danfoss valve positions to the Hitachi valve positions:

Number of Turns Open	
Hitachi Morikawa Valve	Danfoss Valve
3/4	1-1/4
1	1-3/4
1-1/4	2-1/4
1-1/2	2-1/2
1-3/4	3
2	3-1/2
3	5
4	7.5
5	8.75
6	9.75