10G79B, 10G711B and 10G711C HOT GAS DEFROST 22, 134a, 404A, 507

Application

Hot gas defrost valves are utilized in systems in which one or more compressors provide refrigeration to multiple refrigerated cases, both medium and low temperature. The 3-way valves are used to control the flow of gas off a discharge header to the various cases (defrost) or suction gas from the cases to the suction header (refrigeration). The direction of flow



is dependent upon whether the pilot valve coil is energized or deenergized. These 3-way valves are used for gas defrost only.

When the coil is de-energized, the valve allows the flow of refrigerant in the normal direction for refrigeration. When the valve is energized the piston and seat assembly shifts to close the suction port and open the discharge gas port, to allow hot gas to flow from the discharge header through the valve to the evaporator outlet.

Due to the fact that when de-energized the valves remain closed to the hot gas connection, these can only be applied off a discharge header and not in the main discharge line.

Installation and Service

The 10G79B, 10G711B and 10G711C may be installed either upright or on its side. However, it should not be mounted with the coil housing below the valve body. The valve can be soldered in place without disassembly, but the body must be kept cool to avoid damage to the Nylatron synthetic seating material. Body and connections should be wrapped in a wet cloth. The valves may be easily disassembled without unsweating connections.

Specifications

ТҮРЕ	CONNECTIONS ODF SOLDER Inches			MOPD* AC	MRP**	STANDARD COIL RATINGS		
	DISCHARGE	SUCTION	EVAPORATOR	bar	bar	VOLTS/CYCLES	WATTS	COIL
10G79B		1-1/8	1-1/8	20.6	34.4	24/50-60		MKC-1
10G711B	7/8	1-3/8	1-3/8			120/50-60 208-240/50-60	10	
10G711C						120-208-240/50-60		

* MOPD stands for Maximum Operating Pressure Differential.

** MRP stands for Maximum Rated Pressure Not available for R-410A.

Available with conduit boss, junction box, or DIN at no extra charge. Dual voltage 4-wire coils, 120-208-240/50-60 are available at slight additional cost.

For other voltages and cycles, consult your nearest Sporlan Wholesaler or email europecold@parker.com

Evaporator Capacities kW - bar - °C

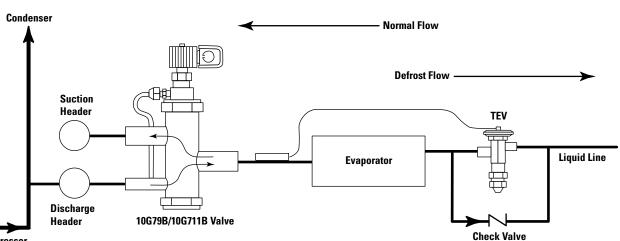
EVAPORATOR	PRESSURE DROP ACROSS THE VALVE $\Delta P - bar$										
TEMPERATURE		0.	03		0.07						
°C	22	134a	404A	507	22	134a	404A	507			
-5	19.6	14.7	16.5	16.2	29.5	22.1	24.8	24.3			
-10	17.7	13.0	14.7	14.4	26.6	19.6	22.1	21.7			
-15	15.9	11.5	13.0	12.8	23.9	17.3	19.6	19.3			
-20	14.3	10.1	11.5	11.3	21.5	15.2	17.3	17.0			
-25	12.7	8.87	10.1	9.98	19.2	13.3	15.2	15.0			
-30	11.3	7.72	8.87	8.74	17.1	11.6	13.3	13.2			
-35	10.0	6.69	7.72	7.62	15.1	10.1	11.6	11.5			
-40	8.83	5.76	6.68	6.60	13.3	8.66	10.0	9.93			

Capacities are based on 38°C condensing temperature isentropic compression plus 28°C, evaporator temperature as shown plus 14°C superheat suction gas. For capacities at other conditions, use the Sporlan Selection Program or email europecold@parker.com. All capacity ratings are in accordance with ARI Standard No. 760-80

Valve Nomenclature/Ordering Instructions

When ordering complete valves, specify Valve Type, Voltage and Cycles. When ordering Valve Body ONLY, specify Valve Type. When ordering Coil Assembly ONLY, specify Coil Type, Voltage and Cycles. Example: MKC-1 120/50-60.

МКС	_	1 -		120		50-60	
Coil Type		Size		Voltage		Cycles	



Compressor