CARRIER 23 XRV SCREW CHILLER
HEAD PRESSURE 2-WAY VALVE CONTROL WIRING

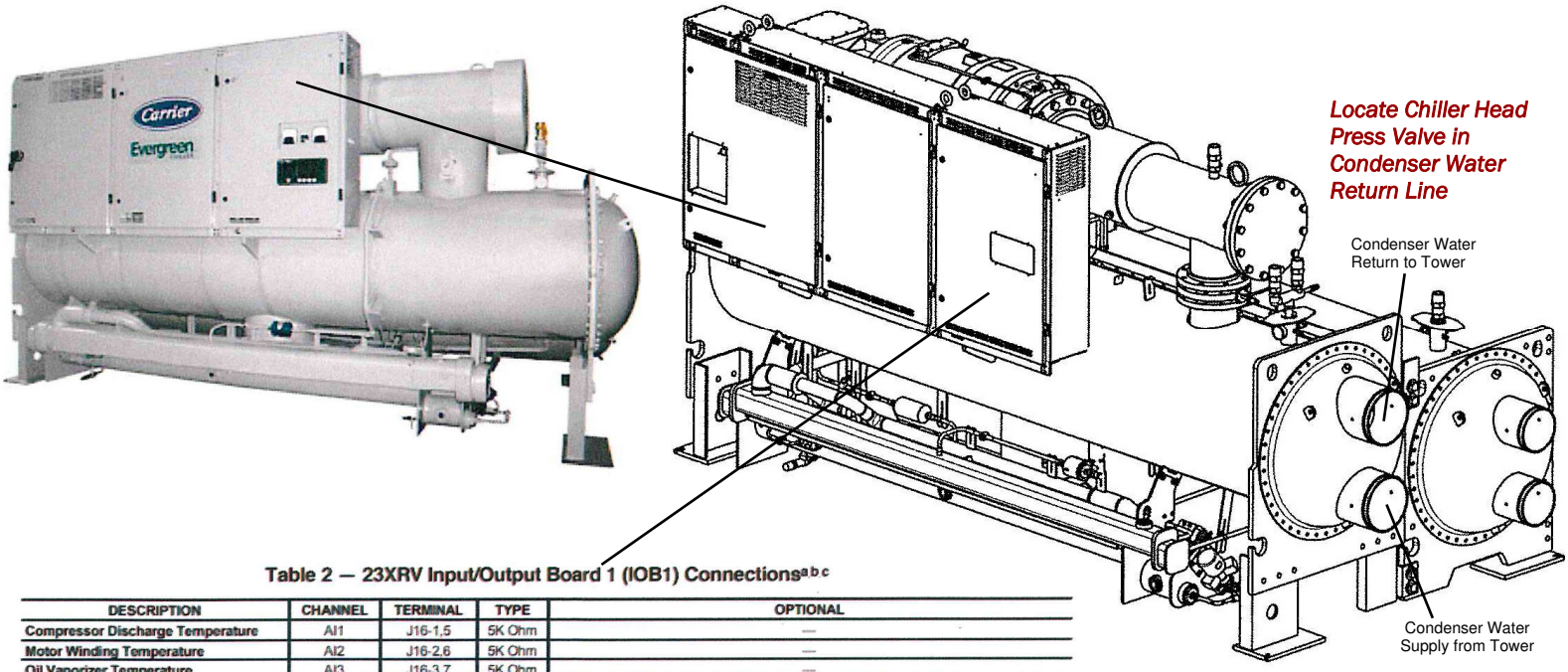
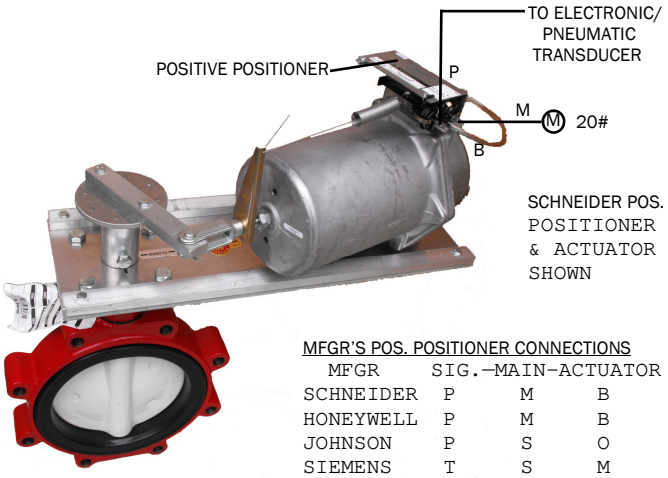


Table 2 — 23XRV Input/Output Board 1 (IOB1) Connections[a,b,c]

DESCRIPTION	CHANNEL	TERMINAL	TYPE	OPTIONAL
Compressor Discharge Temperature	AI1	J16-1,5	5K Ohm	—
Motor Winding Temperature	AI2	J16-2,6	5K Ohm	—
Oil Vaporizer Temperature	AI3	J16-3,7	5K Ohm	—
Oil Sump Temperature	AI4	J16-4,8	5K Ohm	—
Remote Reset Sensor	AI5	J15-6,12	5K Ohm	Optional Field Connection 7TB-17, 18
Economizer Gas Temperature	AI6	J15-5,11	5K Ohm	—
Oil Pump Discharge Pressure	AI7	J15-4,10	5V	—
Oil Sump Pressure	AI8	J15-3,9	5V	—
Refrigerant Leak Sensor	AI9	J15-2,8	4-20mA	Optional Field Connection 7TB-19, 20 (Ensure channel 5 on SW2 dip switch is ON)
Auto Chilled Liquid Reset	AI10	J15-1,7	4-20mA	Optional Field Connection 7TB-21, 22 (Ensure channel 9 on SW2 dip switch is ON)
Head Pressure Output	AO3	J14-3,6	4-20mA	Optional Field Connection 7TB-34, 35
Remote Contact Input	DI1	J13-1,5	24 VAC	Optional Field Connection 7TB-9,10, Dry contact. Must be configured in "Configure Startup Options" in Chiller Start/Stop Menu.
Emergency Stop	DI2	J13-2,6	24 VAC	Optional Field Connection 7TB-11,12; Dry contact
Evaporator Flow Switch	DI3	J13-4,7	24 VAC	Optional Field Connection 7TB-13,14; Closed indicates flow
Condenser Flow Switch	DI4	J13-4,8	24 VAC	Optional Field Connection 7TB-15,16; Closed indicates flow
Chiller Alert	DO1	J12-6,7	24 VAC	Optional Field Connection 7TB-24V, 27
Chiller Alarm	DO2	J12-9,10	24 VAC	Optional Field Connection 7TB-24V, 29
Discrete Chiller Run Status Output (OFF=0V, ON=24VAC)	DO3	J12-1,2	24 VAC	Optional Field Connection 7TB-24V, 31
VFD Run Permissive	DO4	J12-4,5	24 VAC	—
Condenser Liquid Level Sensor	AI11	J10-1,7	0-5V	NOTE: For TP compressors only.

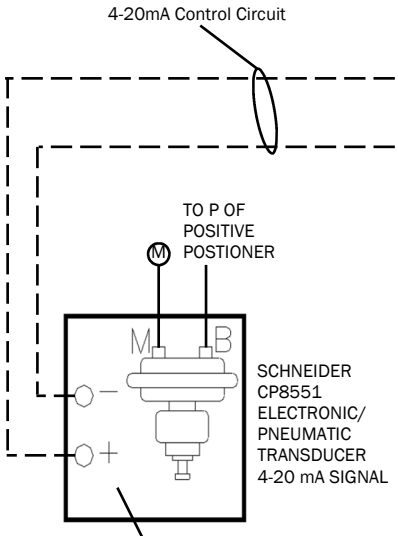
NOTE(S):
a. See Fig. 5 for IOB1 wiring diagram.
b. For pressure readings, only Vout (output) terminal is indicated. See Fig. 5 for Vin (+) and ground (–).
c. Defaults are shown. In some cases the IOB can be configured differently depending on job requirements.



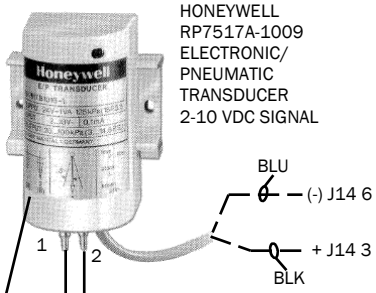
MFGR'S POS. POSITIONER CONNECTIONS

MFGR	SIG.	MAIN	ACTUATOR
SCHNEIDER	P	M	B
HONEYWELL	P	M	B
JOHNSON	P	S	O
SIEMENS	T	S	M

PNEUMATIC CONDENSOR WATER VALVE



Use for 4-20 mA Signal



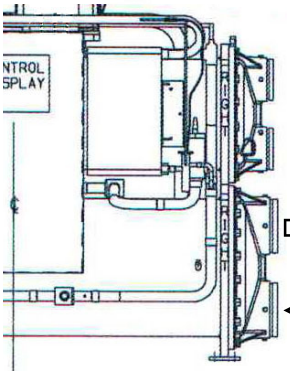
2-10 VDC Signal

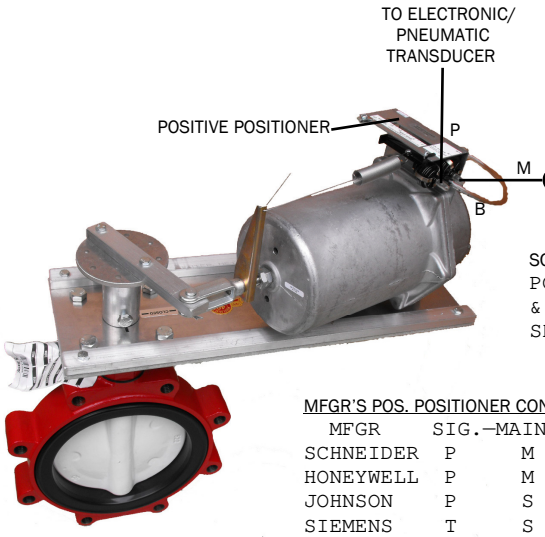
Add 500 Ohm Resistor between Blk & Blu for Chiller 4-20 mA Signal or locate at Chiller Terminal

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CARRIER 30 HXC SCREW CHILLER UNITS HEAD PRESSURE VALVE CONTROL WIRING





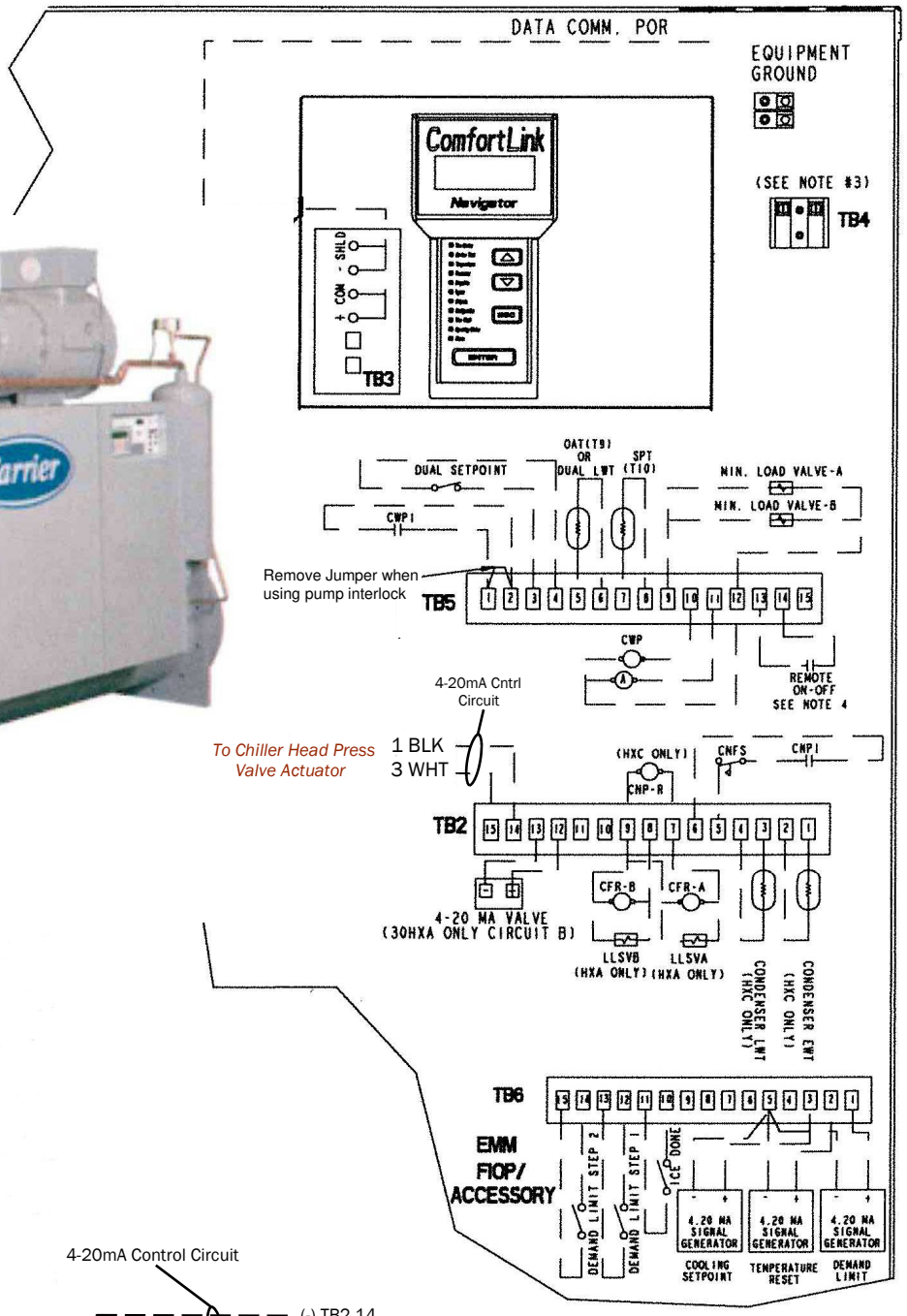


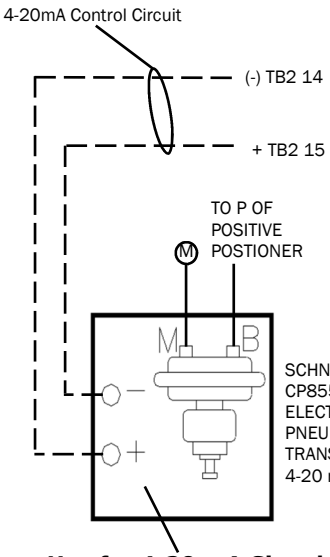
SCHNEIDER POS. POSITIONER & ACTUATOR SHOWN

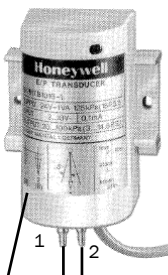
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JOHNSON	P	S	O
SIEMENS	T	S	M

PNEUMATIC CONDENSOR WATER VALVE





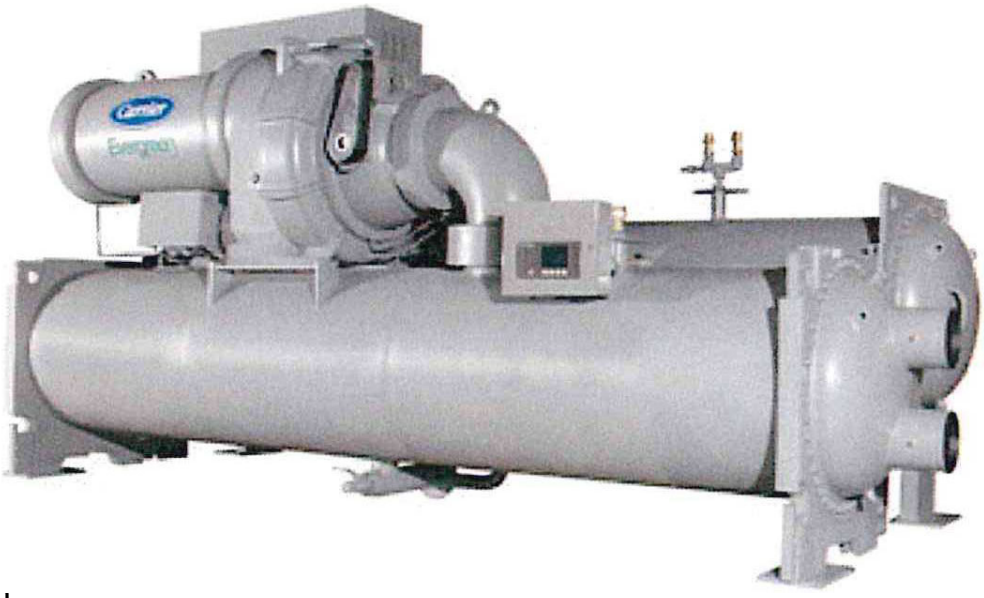


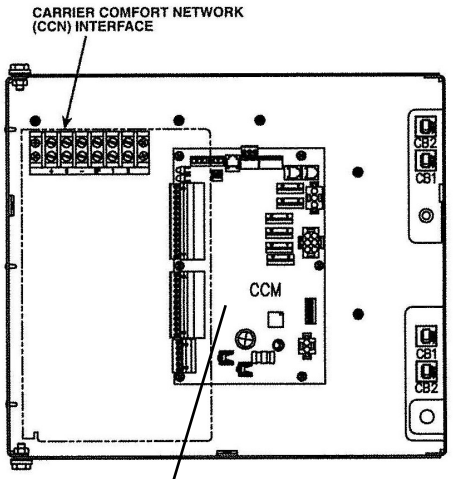
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WESLY VALVE CO.

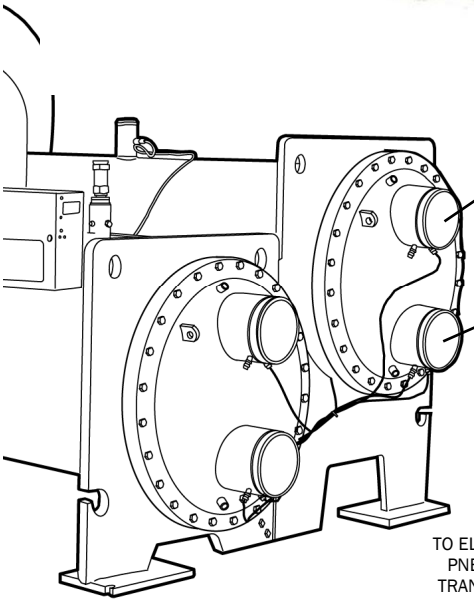
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CARRIER 19 XR CENTRIFUGAL CHILLER
HEAD PRESSURE VALVE CONTROL WIRING

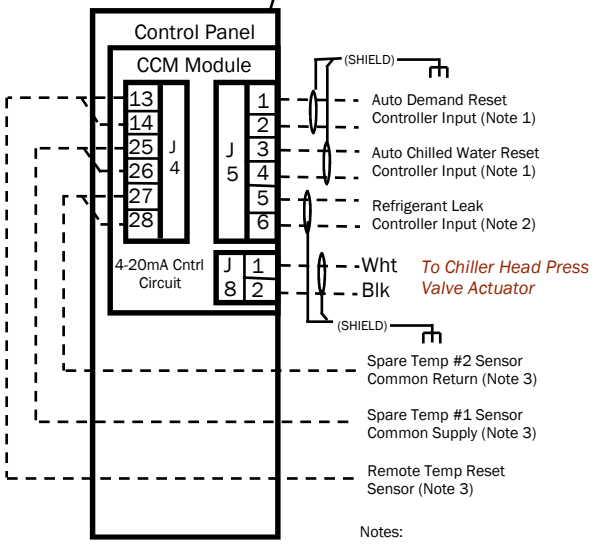




Control Panel

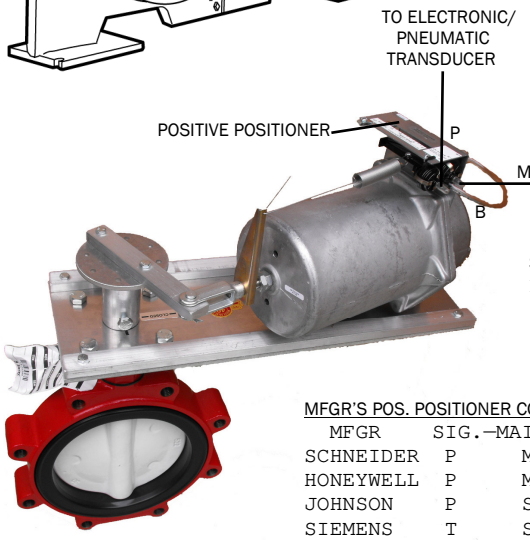


Locate Chiller Head Press Valve in Condenser Water Return Line



Notes:

1. Requires a controller with a non grounded 4-20 mA or 1-5 Vdc signal. Not by Carrier
2. Requires a controller with a non grounded 4-20 mA or 1-5 Vdc signal Not by Carrier
3. Requires a sensor package option by Carrier

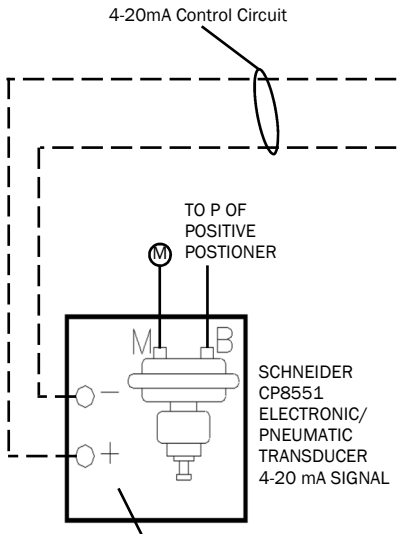


SCHNEIDER POS. POSITIONER & ACTUATOR SHOWN

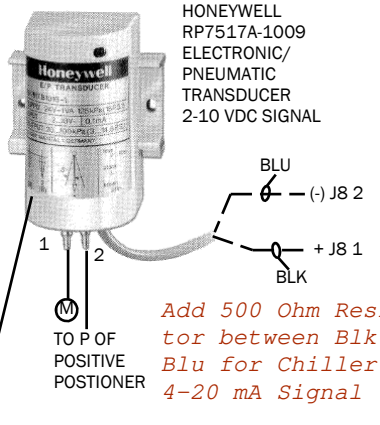
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PNEUMATIC CONDENSOR WATER VALVE



Use for 4-20 mA Signal



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2-10 VDC Signal

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