

▼ DISCHARGE BYPASS VALVES

Capacities – Tons

Capacities based on 6°F evaporator temperature change from closed to rated opening (does not apply to pilot operated models), discharge temperature 30°F above isentropic compression, 100°F condensing temperature, 0°F subcooling, 25°F superheat at the compressor and includes both the hot gas bypassed and liquid refrigerant for desuperheating, regardless of whether the liquid is fed through the system thermostatic expansion valve or auxiliary desuperheating thermostatic expansion valve.

REFRIGERANT	MINIMUM ALLOWABLE EVAPORATOR TEMPERATURE	VALVE TYPE & ADJUSTMENT RANGE (psig)														
		ADRI-1-1/4 ADRIE-1-1/4		ADRS-2 ASRSE-2		ADRP-3 ADRPE-3		ADRHE-6		DRHE-6 (Adjustable "Remote Bulb" Model)*				SHGB-8 SHGBE-8	SHGB-15 SHGBE-15	
		0/55	0/75	0/100	0/30	0/80	0/30	0/80	0/30	0/80	25/35	32/44	55/70	65/80	0/100	0/80
22	40	—	0.58	0.53	—	3.51	—	5.99	—	9.16	—	—	19.8	—	15.5	43.0
	26	0.44	0.64	0.54	—	3.57	—	6.26	—	9.90	—	—	16.9	—	15.8	47.4
	0	0.63	0.60	0.49	3.90	3.66	7.38	6.61	13.9	10.9	—	—	—	—	16.1	52.6
	-20	0.59	0.50	0.44	3.75	3.65	7.45	6.64	14.1	11.0	—	—	—	—	16.2	55.3
134a	40	0.40	0.43	0.34	—	2.67	—	4.94	—	9.34	9.64	—	—	—	10.8	30.6
	26	0.41	0.39	0.32	2.60	2.44	4.95	4.42	9.36	7.26	8.31	—	—	—	10.9	33.2
	0	0.38	0.31	0.28	2.46	—	4.89	—	9.41	—	—	—	—	—	11.0	36.4
401A	40	0.45	0.48	0.39	—	2.76	—	4.95	—	7.99	—	11.0	—	—	10.6	29.6
	26	0.47	0.45	0.37	2.97	2.79	5.66	5.04	10.7	8.26	—	9.49	—	—	10.7	32.4
	0	0.44	0.36	0.32	2.83	2.74	5.62	5.01	10.8	8.32	—	—	—	—	10.8	35.7
404A	40	—	—	0.55	—	—	—	—	—	—	—	—	—	—	17.2	48.6
	26	—	0.67	0.60	—	3.91	—	6.70	—	10.4	—	—	—	21.4	17.5	53.2
	0	0.67	0.71	0.56	—	4.00	—	7.16	—	11.7	—	—	—	—	17.6	58.8
	-20	0.68	0.61	0.51	4.17	4.02	8.08	7.28	15.3	12.1	—	—	—	—	17.6	61.5
407C	40	—	0.78	0.65	—	4.25	—	7.50	—	12.1	—	—	22.9	—	15.9	44.6
	26	0.61	0.78	0.63	—	4.25	—	7.50	—	12.1	—	19.3	—	—	16.1	48.8
	0	0.74	0.68	0.56	4.51	4.31	8.63	7.81	16.3	13.0	—	—	—	—	16.3	53.8
	-20	0.68	0.56	0.50	4.33	4.23	8.64	7.71	16.5	12.9	—	—	—	—	16.4	56.3
507	40	—	—	0.53	—	—	—	—	—	—	—	—	—	—	17.2	48.6
	26	—	0.65	0.59	—	3.87	—	6.60	—	10.2	—	—	—	—	17.5	53.2
	0	—	0.71	0.57	—	3.96	—	7.09	—	11.5	—	—	—	—	17.6	58.8
	-20	0.69	0.62	0.52	4.17	4.00	8.02	7.25	15.2	12.0	—	—	—	—	17.6	61.5

*These models applicable on air conditioning systems only.

For complete information see your Sporlan Wholesaler, our website at www.sporlan.com, or write Sporlan and request Bulletin 90-40.

Capacities – Tons – R-410A

REFRIGERANT	VALVE TYPE	ADJUSTMENT RANGE (psig)	MINIMUM ALLOWABLE EVAPORATOR TEMPERATURE AT REDUCED LOAD °F								
			40			26			20		
			CONDENSING TEMPERATURE °F								
			80	100	120	80	100	120	80	100	120
410A	HGBE-5	95/115	4.27	5.43	6.76	4.29	5.46	6.80	4.30	5.47	6.81
	HGB-8	75/150	18.9	25.2	31.9	19.8	25.8	32.2	20.2	25.9	32.3
	HGBE-8										

Capacities based on discharge temperatures 50°F (28°C) above isentropic compression, 25°F (14°C) superheat at the compressor, 10°F (5°C) subcooling, and includes both the hot gas bypassed and liquid refrigerant for desuperheating, regardless of whether the liquid is fed through the system thermostatic expansion valves or an auxiliary desuperheating thermostatic expansion valve.

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