

THERMOSTATIC EXPANSION VALVES

The thermostatic expansion valve (TEV) controls the flow of liquid refrigerant entering the direct expansion (DX) evaporator by maintaining a constant superheat of the refrigerant vapor at the outlet of the evaporator. The TEV controls the difference between the actual temperature and the saturation temperature of the refrigerant corresponding to the suction pressure at the sensing bulb location; this is superheat. By controlling superheat, the TEV keeps nearly the entire evaporator surface active, while preventing liquid refrigerant from returning to the compressor. The ability of the TEV to match refrigerant flow to the rate at which refrigerant can be vaporized in the evaporator makes the TEV the ideal expansion device for most air conditioning and refrigeration applications.

THERMOSTATIC CHARGES	
APPLICATION	CHARGES
AIR CONDITIONING	CP 60 CP 100 GA CP 115
COMMERCIAL REFRIGERATION (50°F TO -10°F)	C
LOW TEMPERATURE REFRIGERATION (0°F TO -40°F)	Z ZP ZP40
EXTREME LOW TEMPERATURE REFRIGERATION (-40°F TO -100°F)	X



TYPE BF THERMOSTATIC EXPANSION VALVES SAE FLARE CONNECTIONS

Sporlan Type BF valve is a small brass bar body valve with SAE flare connections and balanced port construction. This valve has the same exterior dimensions as the Type F valve. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. The balanced port construction makes this valve ideally suited for small capacity refrigeration applications which operate over widely varying operating conditions.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8532385	BFVE-AC	22	EXTERNAL	A	3/4 thru 1-1/2	C	3/8", 1/2", 1/4"



TYPE C THERMOSTATIC EXPANSION VALVES SAE FLARE CONNECTIONS

Sporlan Type C valve is a forged brass body, externally adjustable valve with SAE flare connections. The thermostatic element is replaceable, and the inlet connection has a removable 80 mesh strainer. This valve is designed for refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type C valve may be used for small capacity air conditioning and heat pump units.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8533001	CF-2C	12	INTERNAL	-	2	C	3/8", 1/2", -
8533045	CFE-2-1/2C	12	EXTERNAL	-	2-1/2	C	3/8", 1/2", 1/4"
8533034	CS-2C	404A	INTERNAL	-	2	C	3/8", 1/2", -
8533178	CSE-3C	404A	EXTERNAL	-	3	C	3/8", 1/2", 1/4"
8533188	CSE-3Z	404A	EXTERNAL	-	3	Z	3/8", 1/2", 1/4"
8533145	CVE-4CP100	22	EXTERNAL	-	4	CP100	3/8", 1/2", 1/4"
8533156	CVE-5C	22	EXTERNAL	-	5	C	3/8", 1/2", 1/4"
8533167	CVE-5CP100	22	EXTERNAL	-	5	CP100	3/8", 1/2", 1/4"



TYPE EBS THERMOSTATIC EXPANSION VALVES ODF SOLDER CONNECTIONS

Sporlan Type EBS valve is a brass bar body valve having the same physical size as the Type S valve except the Type EBS features a balanced port construction and extended ODF connections. The thermostatic element is replaceable. The balanced port construction makes this valve ideally suited for refrigeration and air conditioning applications which operate over widely varying conditions.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534449	EBSJE-5C	134a	EXTERNAL	-	5	C	5/8", 7/8", 1/4"
8534451	EBSSE-6ZP	404A	EXTERNAL	-	6	ZP	5/8", 7/8", 1/4"
8534453	EBSSE-7-1/2ZP	404A	EXTERNAL	-	7-1/2	ZP	5/8", 7/8", 1/4"
8534455	EBSVE-8C	22	EXTERNAL	-	8	C	5/8", 7/8", 1/4"
8534456	EBSVE-8CP100	22	EXTERNAL	-	8	CP100	5/8", 7/8", 1/4"
8534457	EBSVE-11C	22	EXTERNAL	-	11	C	5/8", 7/8", 1/4"
8534458	EBSVE-11CP100	22	EXTERNAL	-	11	CP100	5/8", 7/8", 1/4"



TYPE EF THERMOSTATIC EXPANSION VALVES ODF SOLDER CONNECTIONS

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60x50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8533204	EFF-1/4Z	12	INTERNAL	-	1/4	Z	1/4", 1/2", -
8533208	EFF-1/4ZP	12	INTERNAL	-	1/4	ZP	1/4", 1/2", -
8533326	EFV-1/4C	22	INTERNAL	-	1/4	C	1/4", 1/2", -



Sporlan Type EG valve is a forged brass body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer which can be cleaned and/or replaced without removing the valve from the line. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type EG valve may be used for small capacity air conditioning and heat pump units.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534807	EGSE-1/2C	404A	EXTERNAL	-	1/2	C	3/8", 1/2", 1/4"
8534808	EGSE-1/2Z	404A	EXTERNAL	-	1/2	Z	3/8", 1/2", 1/4"
8534809	EGSE-1/2ZP	404A	EXTERNAL	-	1/2	ZP	3/8", 1/2", 1/4"
8534810	EGSE-1C	404A	EXTERNAL	-	1	C	3/8", 1/2", 1/4"
8534811	EGSE-1Z	404A	EXTERNAL	-	1	Z	3/8", 1/2", 1/4"
8534812	EGSE-1ZP	404A	EXTERNAL	-	1	ZP	3/8", 1/2", 1/4"
8534813	EGSE-1-1/2C	404A	EXTERNAL	-	1-1/2	C	3/8", 1/2", 1/4"
8534814	EGSE-1-1/2Z	404A	EXTERNAL	-	1-1/2	Z	3/8", 1/2", 1/4"
8534815	EGSE-1-1/2ZP	404A	EXTERNAL	-	1-1/2	ZP	3/8", 1/2", 1/4"
8534816	EGSE-2C	404A	EXTERNAL	-	2	C	3/8", 1/2", 1/4"
8534817	EGSE-2Z	404A	EXTERNAL	-	2	Z	3/8", 1/2", 1/4"
8534818	EGSE-2ZP	404A	EXTERNAL	-	2	ZP	3/8", 1/2", 1/4"
8534820	EGVE-1/3C	22	EXTERNAL	-	1/3	C	3/8", 1/2", 1/4"
8534826	EGVE-1/2C	22	EXTERNAL	-	1/2	C	3/8", 1/2", 1/4"
8534832	EGVE-3/4C	22	EXTERNAL	-	3/4	C	3/8", 1/2", 1/4"
8534838	EGVE-1C	22	EXTERNAL	-	1	C	3/8", 1/2", 1/4"
8534844	EGVE-1-1/2C	22	EXTERNAL	-	1-1/2	C	3/8", 1/2", 1/4"
8534850	EGVE-2C	22	EXTERNAL	-	2	C	3/8", 1/2", 1/4"
8534856	EGVE-3C	22	EXTERNAL	-	3	C	3/8", 1/2", 1/4"



TYPE F THERMOSTATIC EXPANSION VALVES ODF SOLDER CONNECTIONS

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60x50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8533201	FF-1/4C	12	INTERNAL	-	1/4	C	1/4", 1/2", -
8533213	FF-1/2C	12	INTERNAL	-	1/2	C	1/4", 1/2", -
8533217	FF-1/2C	12	INTERNAL	-	1/2	C	3/8", 1/2", -
8533221	FF-1/2Z	12	INTERNAL	-	1/2	Z	1/4", 1/2", -
8533225	FF-1/2ZP	12	INTERNAL	-	1/2	ZP	1/4", 1/2", -
8533241	FF-1C	12	INTERNAL	-	1	C	3/8", 1/2", -
8533210	FS-1/4C	404A	INTERNAL	-	1/4	C	1/4", 1/2", -
8533262	FSE-1/4ZP	404A	EXTERNAL	-	1/4	ZP	1/4", 1/2", 1/4"
8533249	FS-1C	404A	INTERNAL	-	1	C	3/8", 1/2", -
8533325	FV-1/4C	22	INTERNAL	-	1/4	C	1/4", 1/2", -
8533327	FV-1/2C	22	INTERNAL	-	1/2	C	1/4", 1/2", -
8533329	FV-1C	22	INTERNAL	-	1	C	1/4", 1/2", -



TYPE G THERMOSTATIC EXPANSION VALVES SAE FLARE CONNECTIONS

Sporlan Type G valve is a forged brass body, externally adjustable valve with SAE flare connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type G valve may be used for small capacity air conditioning and heat pump units.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8533334	GF-1/4C	12	INTERNAL	-	1/4	C	1/4", 1/2", -
8533345	GF-1/2C	12	INTERNAL	-	1/2	C	1/4", 1/2", -
8533361	GF-1/2C	12	INTERNAL	-	1/2	C	3/8", 1/2", -
8533382	GF-1/2Z	12	INTERNAL	-	1/2	Z	3/8", 1/2", -
8533403	GFE-1/2C	12	EXTERNAL	-	1/2	C	3/8", 1/2", 1/4"
8533424	GFE-1/2Z	12	EXTERNAL	-	1/2	Z	3/8", 1/2", 1/4"
8533445	GF-1C	12	INTERNAL	-	1	C	3/8", 1/2", -
8533466	GF-1Z	12	INTERNAL	-	1	Z	3/8", 1/2", -
8533487	GF-1ZP	12	INTERNAL	-	1	ZP	3/8", 1/2", -
8533508	GFE-1C	12	EXTERNAL	-	1	C	3/8", 1/2", 1/4"
8533532	GFE-1ZP	12	EXTERNAL	-	1	ZP	3/8", 1/2", 1/4"
8533550	GF-1-1/2C	12	INTERNAL	-	1-1/2	C	3/8", 1/2", -
8533571	GF-1-1/2Z	12	INTERNAL	-	1-1/2	Z	3/8", 1/2", -
8533575	GF-1-1/2ZP	12	INTERNAL	-	1-1/2	ZP	3/8", 1/2", -
8533592	GFE-1-1/2C	12	EXTERNAL	-	1-1/2	C	3/8", 1/2", 1/4"
8533613	GFE-1-1/2Z	12	EXTERNAL	-	1-1/2	Z	3/8", 1/2", 1/4"
8533645	GFE-2Z	12	EXTERNAL	-	2	Z	3/8", 1/2", 1/4"
8533648	GFE-2ZP	12	EXTERNAL	-	2	ZP	3/8", 1/2", 1/4"
8533656	GVE-1/3CP100	22	EXTERNAL	-	1/3	CP100	1/4", 1/2", 1/4"
8533393	GV-1/2C	22	INTERNAL	-	1/2	C	3/8", 1/2", -
8533396	GV-1/2ZP	22	INTERNAL	-	1/2	ZP	3/8", 1/2", -
8533658	GVE-1/2C	22	EXTERNAL	-	1/2	C	3/8", 1/2", 1/4"
8533659	GVE-1/2Z	22	EXTERNAL	-	1/2	Z	3/8", 1/2", 1/4"
8533663	GVE-3/4CP100	22	EXTERNAL	-	3/4	CP100	3/8", 1/2", 1/4"
8533490	GV-1C	22	INTERNAL	-	1	C	3/8", 1/2", -
8533667	GVE-1C	22	EXTERNAL	-	1	C	3/8", 1/2", 1/4"
8533669	GVE-1CP100	22	EXTERNAL	-	1	CP100	3/8", 1/2", 1/4"
8533701	GVE-1-1/2C	22	EXTERNAL	-	1-1/2	C	3/8", 1/2", 1/4"
8533703	GVE-1-1/2CP100	22	EXTERNAL	-	1-1/2	CP100	3/8", 1/2", 1/4"
8533723	GVE-2CP100	22	EXTERNAL	-	2	CP100	3/8", 1/2", 1/4"
8533764	GVE-2Z	22	EXTERNAL	-	2	Z	3/8", 1/2", 1/4"
8533765	GVE-2ZP	22	EXTERNAL	-	2	ZP	3/8", 1/2", 1/4"
8533785	GVE-3CP100	22	EXTERNAL	-	3	CP100	3/8", 1/2", 1/4"
8533806	GVE-3C	22	EXTERNAL	-	3	C	3/8", 1/2", 1/4"
8533827	GVE-3Z	22	EXTERNAL	-	3	Z	3/8", 1/2", 1/4"
8533828	GVE-3ZP	22	EXTERNAL	-	3	ZP	3/8", 1/2", 1/4"
8533838	GS-1/4C	404A	INTERNAL	-	1/4	C	1/4", 1/2", -
8533854	GSE-1/4C	404A	EXTERNAL	-	1/4	C	1/4", 1/2", 1/4"
8533858	GSE-1/2C	404A	EXTERNAL	-	1/2	C	3/8", 1/2", 1/4"
8533869	GSE-1/2Z	404A	EXTERNAL	-	1/2	Z	3/8", 1/2", 1/4"
8533890	GSE-1/2ZP	404A	EXTERNAL	-	1/2	ZP	3/8", 1/2", 1/4"
8533908	GS-1C	404A	INTERNAL	-	1	C	3/8", 1/2", -
8533911	GS-1Z	404A	INTERNAL	-	1	Z	3/8", 1/2", -
8533932	GS-1ZP	404A	INTERNAL	-	1	ZP	3/8", 1/2", -
8533948	GSE-1C	404A	EXTERNAL	-	1	C	3/8", 1/2", 1/4"
8533953	GSE-1Z	404A	EXTERNAL	-	1	Z	3/8", 1/2", 1/4"
8533974	GSE-1ZP	404A	EXTERNAL	-	1	ZP	3/8", 1/2", 1/4"
8533943	GS-1-1/2C	404A	INTERNAL	-	1-1/2	C	3/8", 1/2", -
8533990	GSE-1-1/2C	404A	EXTERNAL	-	1-1/2	C	3/8", 1/2", 1/4"
8533997	GSE-1-1/2ZP	404A	EXTERNAL	-	1-1/2	ZP	3/8", 1/2", 1/4"
8534001	GSE-2C	404A	EXTERNAL	-	2	C	3/8", 1/2", 1/4"



Sporlan Type M valve is a cast bronze body, externally adjustable valve with either ODF solder or FPT flange connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type provides capacities greater than the Type H, and it is designed for both air conditioning and refrigeration applications. Flanges for the Type M valve are interchangeable with the Type V.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534069	MFE-25CP60	12	EXTERNAL	-	25	CP60	1-1/8", 1-1/8", 1/4"
8534090	MVE-21CP100	22	EXTERNAL	-	21	CP100	7/8", 1-1/8", 1/4"
8534111	MVE-26CP100	22	EXTERNAL	-	26	CP100	7/8", 1-1/8", 1/4"
8534123	MVE-34CP100	22	EXTERNAL	-	34	CP100	7/8", 1-1/8", 1/4"
8534125	MVE-42CP100	22	EXTERNAL	-	42	CP100	1-1/8", 1-1/8", 1/4"



TYPE NI THERMOSTATIC EXPANSION VALVES SAE FLARE CONNECTIONS

Sporlan Type NI valve is a small brass bar body, angle style (bottom outlet) valve with SAE flare connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. An internal adjustment is provided in the outlet fitting, and adjustments can be made with a 7/32" hex wrench when the outlet is not connected. This valve is designed for small refrigeration systems such as drink dispensers and ice cubers where space is limited and an external superheat adjustment is not necessary.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534128	NIF-1/4Z	12	INTERNAL	-	1/4	Z	1/4", 1/2", -
8534129	NIF-1/2C	12	INTERNAL	-	1/2	C	1/4", 1/2", -
8534130	NIF-1/2Z	12	INTERNAL	-	1/2	Z	1/4", 1/2", -
8534131	NIF-1C	12	INTERNAL	-	1	C	3/8", 1/2", -
8534132	NIF-1Z	12	INTERNAL	-	1	Z	3/8", 1/2", -



TYPE O THERMOSTATIC EXPANSION VALVES ODF SOLDER CONNECTIONS

Sporlan Type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction, and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve type has two body styles: a small body which provides capacities up to 30 tons R-22, and a large body which extends capacities to 70 tons R-22.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534137	OSE-9ZP	404A	EXTERNAL	-	9	ZP	7/8", 1-1/8", 1/4"
8534140	OSE-12ZP	404A	EXTERNAL	-	12	ZP	7/8", 1-3/8", 1/4"
8534144	OVE-15C	22	EXTERNAL	-	15	C	7/8", 1-1/8", 1/4"
8534145	OVE-15CP100	22	EXTERNAL	-	15	CP100	7/8", 1-1/8", 1/4"
8534162	OVE-20C	22	EXTERNAL	-	20	C	7/8", 1-3/8", 1/4"
8534163	OVE-20CP100	22	EXTERNAL	-	20	CP100	7/8", 1-3/8", 1/4"
8534175	OVE-30CP100	22	EXTERNAL	-	30	CP100	1-1/8", 1-3/8", 1/4"
8534184	OVE-40CP100	22	EXTERNAL	-	40	CP100	1-1/8", 1-3/8", 1/4"
8534187	OVE-55CP100	22	EXTERNAL	-	55	CP100	1-1/8", 1-3/8", 1/4"
8534190	OVE-70CP100	22	EXTERNAL	-	70	CP100	1-1/8", 1-3/8", 1/4"



TYPE RIVE THERMOSTATIC EXPANSION VALVES ODF SOLDER CONNECTIONS

Sporlan Type RIVE valve is a small brass bar body, externally adjustable valve available with either SAE flare or ODF solder connections. This valve has a replaceable thermostatic element, and it is designed for small R-22 air conditioning and heat pump units where space is limited. This valve is also ideal for replacement of OEM type Sporlan TEVs such as the Type I and BI when used on the above applications.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534294	RIVE-3-GA-RPB	22	EXTERNAL	-	3	GA	3/8", 1/2", 1/4"
8534295	RIVE-4-GA-RPB	22	EXTERNAL	-	4	GA	1/2", 1/2", 1/4"



TYPE S THERMOSTATIC EXPANSION VALVES SAE FLARE CONNECTIONS

Sporlan Type S valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve is designed for both air conditioning and refrigeration applications.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534342	SFE-3CP60	12	EXTERNAL	-	3	CP60	1/2", 7/8", 1/4"
8534345F	SSE-2C	404A	EXTERNAL	-	2	C	1/2", 5/8", 1/4"
8534345I	SSE-2ZP	404A	EXTERNAL	-	2	ZP	1/2", 5/8", 1/4"
8534349	SSE-4C	404A	EXTERNAL	-	4	C	1/2", 7/8", 1/4"
8534352	SSE-4Z	404A	EXTERNAL	-	4	Z	1/2", 7/8", 1/4"
8534353	SSE-4ZP	404A	EXTERNAL	-	4	ZP	1/2", 7/8", 1/4"
8534358	SSE-6Z	404A	EXTERNAL	-	6	Z	5/8", 7/8", 1/4"
8534363	SVE-2CP100	22	EXTERNAL	-	2	CP100	1/2", 5/8", 1/4"
8534366	SVE-2Z	22	EXTERNAL	-	2	Z	1/2", 5/8", 1/4"
8534367	SVE-2ZP	22	EXTERNAL	-	2	ZP	1/2", 5/8", 1/4"
8534384	SVE-3CP100	22	EXTERNAL	-	3	CP100	1/2", 5/8", 1/4"
8534405	SVE-4CP100	22	EXTERNAL	-	4	CP100	1/2", 7/8", 1/4"
8534426	SVE-5CP100	22	EXTERNAL	-	5	CP100	1/2", 7/8", 1/4"
8534447	SVE-8CP100	22	EXTERNAL	-	8	CP100	5/8", 7/8", 1/4"



TYPE SBF THERMOSTATIC EXPANSION VALVES ODF SOLDER CONNECTIONS

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer. The Type SBF has a 100 mesh removable strainer that can be cleaned and/or replaced while the valve is still soldered to the system tubing. The balanced port construction makes these valves ideally suited for small capacity refrigeration applications which operate over widely varying conditions.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8532520	SBFSE-AC	404A	EXTERNAL	A	1/2 thru 1	C	3/8", 1/2", 1/4"
8532521	SBFSE-AZ	404A	EXTERNAL	A	1/2 thru 1	Z	3/8", 1/2", 1/4"
8532574	SBFVE-AAC	22	EXTERNAL	AA	1/2 thru 2/3	C	3/8", 1/2", 1/4"
8532580	SBFVE-AC	22	EXTERNAL	A	3/4 thru 1-1/2	C	3/8", 1/2", 1/4"

TYPE Q, SQ, EQE, QE, SQE, SBQ, AND SBQE THERMOSTATIC EXPANSION VALVES - BODY ONLY

Sporlan selective charges are specifically designed for low temperature, medium temperature and air conditioning applications. Since the valve body and thermostatic element are supplied as independent components, you select the best possible thermostatic charge for the application. The element is manufactured with a large, flat diaphragm to yield maximum power and performance. The thermostatic element to body is Sporlan's proven knife edge, metal-to-metal joint, insuring leak-proof construction.

ILLCO #	SPORLAN #	EQUALIZER	CONNECTION TYPE	CONNECTION SIZE (INLET, OUTLET, EXT. EQUAL.)
8539700	Q	INTERNAL	SAE FLARE	1/4", 1/2", -
8539702	Q	INTERNAL	SAE FLARE	1/4", 3/8", -
8539704	Q	INTERNAL	SAE FLARE	3/8", 1/2", -
8539706	SQ	INTERNAL	ODF SOLDER	3/8", 1/2", -
8539713	EQE	EXTERNAL	ODF SOLDER	3/8", 1/2", 1/4"
8539720	QE	EXTERNAL	SAE FLARE	1/4", 1/2", 1/4"
8539722	QE	EXTERNAL	SAE FLARE	1/4", 3/8", 1/4"
8539724	QE	EXTERNAL	SAE FLARE	3/8", 1/2", 1/4"
8539726	SQE	EXTERNAL	ODF SOLDER	3/8", 1/2", 1/4"
8539729	SBQ	INTERNAL	ODF SOLDER	3/8", 1/2", -
8539730	SBQE	EXTERNAL	ODF SOLDER	3/8", 1/2", 1/4"



VALVE CARTRIDGES FOR Q-SERIES TEV's

ILLCO #	SPORLAN #	SIZE	COLOR CODE
8539755	BQC-AAA	AAA	RED
8539756	BQC-AA	AA	YELLOW
8539757	BQC-A	A	BLUE
8539758	BQC-B	B	PINK
8539759	BQC-C	C	WHITE
8539760	QC-0	0	RED
8539761	QC-1	1	YELLOW
8539762	QC-2	2	GREEN
8539763	QC-3	3	BLUE
8539764	QC-4	4	PINK
8539765	QC-5	5	BLACK
8539766	QC-6	6	WHITE

ELEMENT KITS FOR TEV's

Thermostatic elements for expansion valves.

ILLCO #	SPORLAN #	FOR USE WITH VALVE TYPES	REFRIG.	CHARGE	TUBING LENGTH
8535962	KT-43-FC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12	C	30"
8535963	KT-43-FCP60	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12	CP60	30"
8535964	KT-43-FZ	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12	Z	30"
8535966	KT-43-FZP	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12	ZP	30"
8535967	KT-43-L1	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	VARIABLE	L1	30"
8535967A	KT-43-L2	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	VARIABLE	L2	30"
8535968	KT-43-VC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	C	30"
8535969	KT-43-VCP100	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	CP100	30"
8535969A	KT-43-VGA	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	GA	30"
8535970	KT-43-VZ	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	Z	30"
8535971	KT-43-VZP	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	ZP	30"
8535971A	KT-43-VZP40	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	ZP40	30"
8535972	KT-43-SC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	404A	C	30"
8535975	KT-43-SZ	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	404A	Z	30"
8535978	KT-43-SZP	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	404A	ZP	30"
8535984	KT-43-PC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	507	C	30"
8535701	KT-33-FC	P, H, O	12	C	5'
8535752	KT-33-FCP60	P, H, O	12	P60	5'
8535754	KT-33-FCP60	P, H, O	12	P60	10'
8535803	KT-33-FZ	P, H, O	12	Z	5'
8535810	KT-33-SC	P, H, O	404A	C	5'
8535813	KT-33-SZP	P, H, O	404A	ZP	5'
8535854	KT-33-VC	P, H, O	22	C	5'
8535905	KT-33-VCP100	P, H, O	22	CP100	5'
8535907	KT-33-VCP100	P, H, O	22	CP100	5'
8535956	KT-33-VZ	P, H, O	22	Z	5'
8535960	KT-33-VZP	P, H, O	22	ZP	5'
8536007	KT-53-FC	G, EG, MC, EMC, X	12	C	5'
8536058	KT-53-FCP60	G, EG, MC, EMC, X	12	CP60	5'
8536109	KT-53-FZ	G, EG, MC, EMC, X	12	Z	5'
8536151	KT-53-FZP	G, EG, MC, EMC, X	12	ZP	5'
8536170	KT-53-L2	G, EG, MC, EMC, X	VARIABLE	L2	5'
8536175	KT-53-L3	G, EG, MC, EMC, X	VARIABLE	L3	5'
8536202	KT-53-VC	G, EG, MC, EMC, X	22	C	5'
8536253	KT-53-VCP100	G, EG, MC, EMC, X	22	CP100	5'
8536304	KT-53-VZ	G, EG, MC, EMC, X	22	Z	5'
8536307	KT-53-VZP	G, EG, MC, EMC, X	22	ZP	5'
8536312	KT-53-VZP40	G, EG, MC, EMC, X	22	ZP40	5'
8536355	KT-53-SC	G, EG, MC, EMC, X	404A	C	5'
8536406	KT-53-SZ	G, EG, MC, EMC, X	404A	Z	5'
8536457	KT-53-SZP	G, EG, MC, EMC, X	404A	ZP	5'
8536460	KT-53-PC	G, EG, MC, EMC, X	507	C	5'
8536470	KT-63-FCP60	M, V, K, W	12	CP60	5'
8536472	KT-63-FCP60	M, V, K, W	12	CP60	10'
8536474	KT-63-VC	M, V, K, W	22	C	10'
8536476	KT-63-VCP100	M, V, K, W	22	CP100	5'
8536478	KT-63-VCP100	M, V, K, W	22	CP100	10'
8536508	KT-63-FC	C, S, EBS, O	12	C	5'

ELEMENT KITS CONTINUED ON NEXT PAGE

ELEMENT KITS FOR TEV's (CONT.)

ILLCO #	SPORLAN #	FOR USE WITH VALVE TYPES	REFRIG.	CHARGE	TUBING LENGTH
8536559	KT-83-FCP60	C, S, EBS, O	12	CP60	5'
8536601	KT-83-FZ	C, S, EBS, O	12	Z	5'
8536652	KT-83-FZP	C, S, EBS, O	12	ZP	5'
8536665	KT-83-L1	C, S, EBS, O	VARIABLE	L1	5'
8536670	KT-83-L2	C, S, EBS, O	VARIABLE	L2	5'
8536675	KT-83-L3	C, S, EBS, O	VARIABLE	L3	5'
8536703	KT-83-VC	C, S, EBS, O	22	C	5'
8536704	KT-83-VC	C, S, EBS, O	22	C	10'
8536754	KT-83-VCP100	C, S, EBS, O	22	CP100	5'
8536756	KT-83-VCP100	C, S, EBS, O	22	CP100	10'
8536758	KT-83-VCP100	C, S, EBS, O	22	CP100	20'
8536805	KT-83-VZ	C, S, EBS, O	22	Z	5'
8536808	KT-83-VZP	C, S, EBS, O	22	ZP	5'
8536856	KT-83-SC	C, S, EBS, O	404A	C	5'
8536907	KT-83-SZ	C, S, EBS, O	404A	Z	5'
8536958	KT-83-SZP	C, S, EBS, O	404A	ZP	5'
8536970	KT-83-PC	C, S, EBS, O	507	C	5'



TEMPERATURE RESPONSIVE EXPANSION VALVES

The Type Y1037 Temperature Responsive Expansion Valve (TREV) was developed in response to the refrigeration industry's move to R-22 as a refrigerant for medium and low temperature refrigeration. Since R-22 refrigeration systems run higher compressor discharge temperatures than comparable R-12 and R-502 systems, a need has developed for an expansion valve which will prevent excessive discharge temperatures from occurring on these systems. The Y1037 TREV solves this problem by modulating refrigerant flow in response to bulb temperature only.

ILLCO #	SPORLAN #	NOMINAL CAPACITY (TONS)	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534500	Y1037 FV-1/2	1/2	3/8", 3/8", -
8534509	Y1037-FV-1/2	1/2	3/8", 3/8", -
8534514	Y1037-FV-1	1	3/8", 3/8", -
8534518	Y1037-FV-1	1	3/8", 3/8", -



ELEMENT KITS FOR TREV's

For use with type Y1037 temperature responsive expansion valves.

ILLCO #	SPORLAN #	FOR USE WITH VALVE TYPES
8537010	KT-Y735-VCP100	Y1037
8537030	KT-Y750-VCP100	Y1037