

## for Refrigerants 22-134a-404A-507 — ODF Solder Connections

U.S. Patent Number 3,742,722

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.

Refrigerant distributors that will mate directly to this valve are listed below. Refer to Sporlan Bulletin 20-10 for additional application information on this subject.



### Outlet Connections

1-1/8" ODF  
1-3/8" ODF  
1-5/8" ODF

### Distributors

1115, 1116, 1655(R)  
1117, 1126, 1128, 1657(R)  
1125, 1127, 1143, 1659(R)

for complete details of  
construction, see page 36

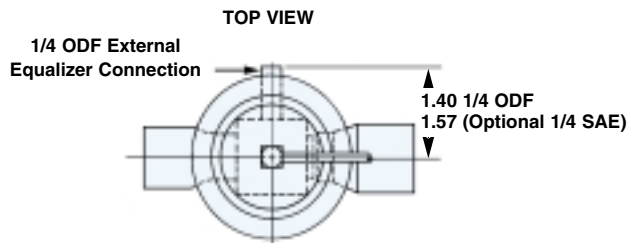
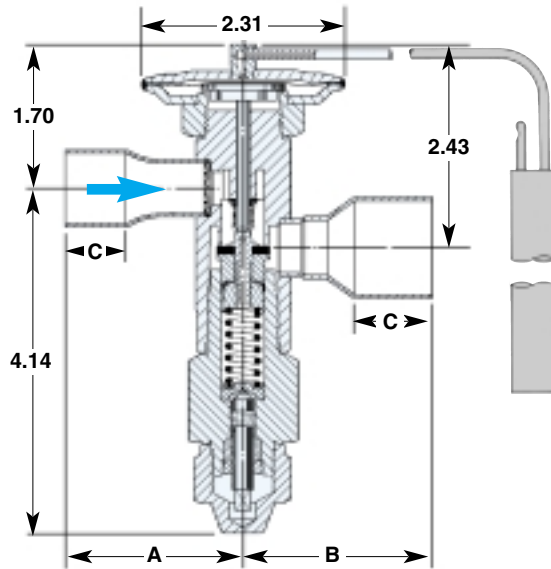
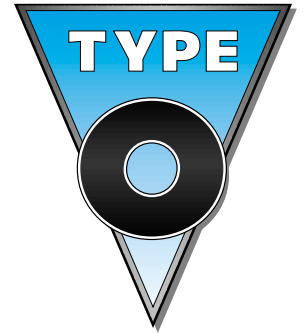
SPECIFICATIONS										ELEMENT SIZE NO.'s 83 and 33, KNIFE EDGE JOINT					
REFRIGERANT (Sporlan Code)	TYPE	NOMINAL CAPACITY Tons of Refrigeration	Element Size No.	Thermostatic Charges Available	Standard Tubing Length-Feet	CONNECTIONS – Inches ⑧ ODF Solder		Net Weight-Lbs.	Shipping Weight-Lbs.						
	External Equalizer ⑦					Blue figures are standard and will be furnished unless otherwise specified.									
						INLET	OUTLET								
22 (V) 407C (N) 407A (V)	OVE-15	15	83	* Refer to Recommended Thermostatic Charges on Page 4	5	7/8	1-1/8	2	3						
	OVE-20	20					1-3/8								
	OVE-30	30				1-1/8	1-3/8 or 1-5/8	4	5						
	OVE-40	40													
	OVE-55	55													
	OVE-70	70													
134a (J) 12 (F) 401A (X) 409A (F)	OJE-9	9	83			* Refer to Recommended Thermostatic Charges on Page 4	5	7/8	1-1/8	2	3				
	OJE-12	12							1-3/8						
	OJE-16	16						1-1/8	1-3/8 or 1-5/8	4	5				
	OJE-23	23													
	OJE-32	32													
	OJE-40	40													
404A (S) 502 (R) 408A (R)	OSE-9	9	83					* Refer to Recommended Thermostatic Charges on Page 4	5	7/8	1-1/8	2	3		
	OSE-12	12									1-3/8				
	OSE-21	21								1-1/8	1-3/8 or 1-5/8	4	5		
	OSE-30	30													
	OSE-35	35													
	OSE-45	45													
507 (P) 402A (L)	OPE-9	9	83							* Refer to Recommended Thermostatic Charges on Page 4	5	7/8	1-1/8	2	3
	OPE-12	12											1-3/8		
	OPE-21	21										1-1/8	1-3/8 or 1-5/8	4	5
	OPE-30	30													
	OPE-35	35													
	OPE-45	45													

⑦ Standard External Equalizer Connection 1/4" ODF Solder, 1/4" SAE flare connection available on request.

⑧ ODF Solder indicates a female connection on the valve of proper diameter to receive copper tubing of corresponding OD size. Thus 5/8" ODF will receive 5/8" OD tubing.

\* X - Charge Not Available

# TYPE O WITH NUMBER 83 ELEMENT



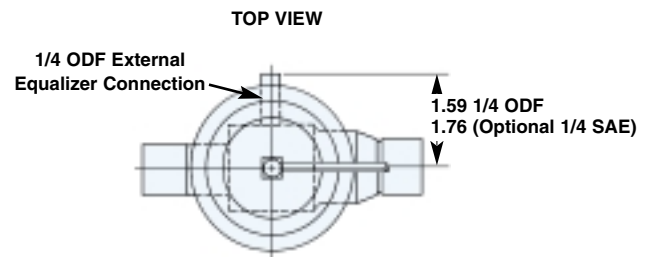
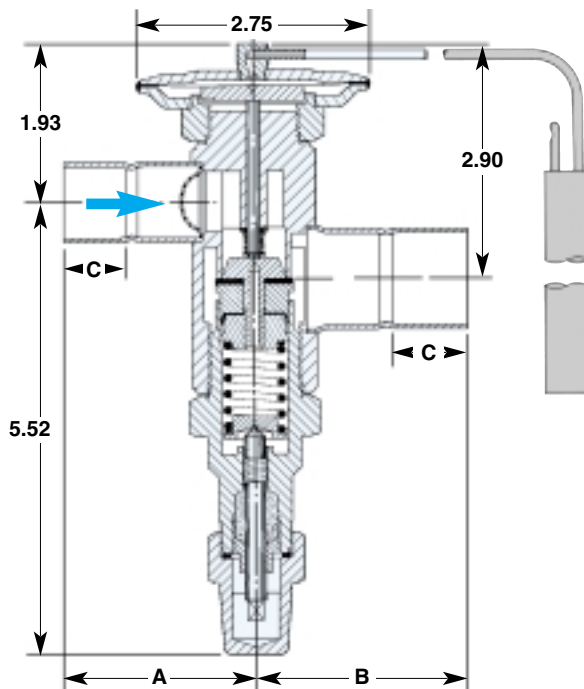
## DIMENSIONS – Inches

STRAIGHT THRU ODF SOLDER	A	B	C
7/8	2.09	2.08	0.75
1-1/8	2.21	2.23	0.91
1-3/8	–	2.39	0.97

## BULB SIZES – Inches

STANDARD CHARGES	REFRIGERANT			
	22	134a	404A	507
C	0.50 OD x 3.50			
Z & ZP Series	0.50 OD x 3.50	–	0.50 OD x 3.50	
CP Series	0.50 OD x 3.50			–
VGA	0.75 OD x 2.00	–		

# TYPE O WITH NUMBER 33 ELEMENT



## DIMENSIONS – Inches

STRAIGHT THRU ODF SOLDER	A	B	C
1-1/8	2.69	–	0.91
1-3/8	–	2.84	0.97
1-5/8	–	3.12	1.09

## BULB SIZES – Inches

STANDARD CHARGES	REFRIGERANT			
	22	134a	404A	507
C	0.75 OD x 4.00	0.50 OD x 5.00	0.75 OD x 4.00	
Z & ZP Series	0.75 OD x 4.00	–	0.75 OD x 4.00	
CP Series	0.75 OD x 4.00			–
VGA	0.75 OD x 4.00	–		