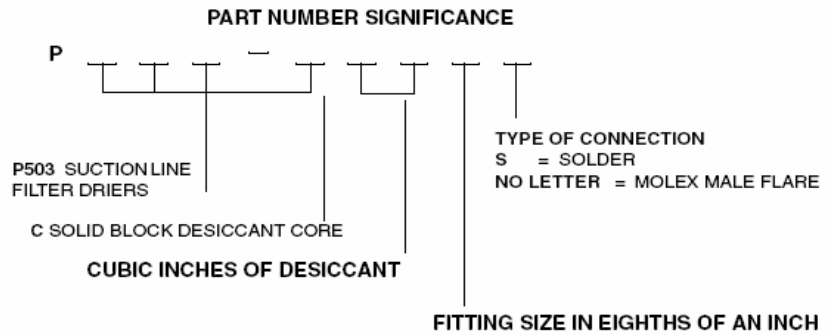


## TOTALINE® STANDARD CAPACITY SUCTION LINE FILTER DRIERS— P503-C SERIES



### FEATURES

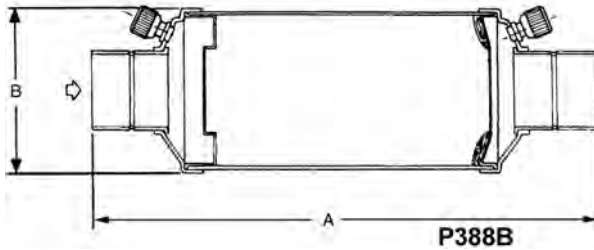
- Dual Access Valve on each end for accurate pressure drop reading
- For Use with HCFCs, & CFCs
- High Organic and Inorganic Acid Removal
- Corrosion Resistant Paint
- Unique Molded Desiccant Block

### SPECIFICATIONS

- Max Working Pressure = 500 psig

### APPLICATION

Removes solid contaminants and harmful acids that are created during motor burnout. The suction line filter drier should be installed in remote systems with long refrigerant lines to remove contaminants.



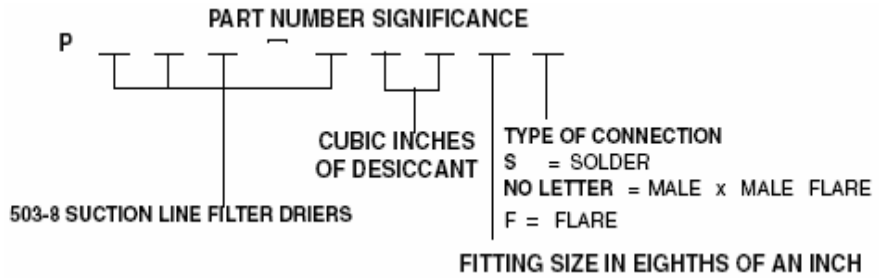
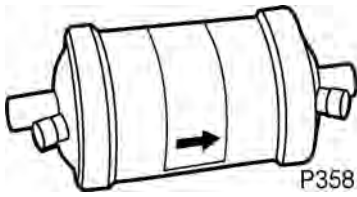
### CONNECTIONS, DIMENSIONS, FLOW CAPACITIES\* IN REFRIGERANT TONS AT SELECTED EVAPORATOR TEMPERATURES

PART NO	CONNECTIONS (Size and Type)	DIMENSIONS		Pressure Drop in PSI														
				R-134a				R-22				R-502						
		A	B	Temperature														
				+40°F	+20°F	0°F	-20°F	+40°F	+20°F	0°F	-20°F	-40°F	+20°F	0°F	-20°F	-40°F	+20°F	
P503-C083	3/8 SAE	6.10	2.5	0.6	1.5	1	0.5	0.1	0.9	0.6	0.4	0.3	0.1	0.7	0.5	0.3	0.2	0.1
P503-C083S	3/8 ODF	5.43	2.5	0.8	0.5	0.3	0.2	1.3	0.8	0.6	0.4	0.2	1.0	0.7	0.5	0.3	0.1	
P503-C084	1/2 SAE	6.34	2.5	1.4	0.9	0.6	0.3	2.2	1.4	1.0	0.6	0.3	1.8	1.1	0.8	0.5	0.3	
P503-C084S	1/2 ODF	5.48	2.5	1.7	1.2	0.7	0.4	2.7	1.8	1.2	0.8	0.4	2.2	1.4	1.0	0.6	0.3	
P503-C085	5/8 SAE	6.17	2.5	2.2	1.5	0.9	0.5	3.4	2.2	1.5	1.0	0.5	2.8	1.8	1.2	0.8	0.4	
P503-C085S	5/8 ODF	5.74	2.5	2.4	1.6	1.0	0.5	3.8	2.5	1.7	1.1	0.6	3.1	2.0	1.3	0.8	0.4	
P503-C164	1/2 SAE	7.13	2.5	1.5	1.0	0.6	0.3	2.3	1.5	1.0	0.7	0.4	1.9	1.2	0.8	0.5	0.3	
P503-C164S	1/2 ODF	6.27	2.5	1.7	1.2	0.7	0.4	2.7	1.8	1.2	0.8	0.4	2.2	1.4	1.0	0.6	0.3	
P503-C165	5/8 SAE	7.50	2.5	2.1	1.4	0.9	0.4	3.2	2.1	1.4	0.9	0.5	2.7	1.7	1.2	0.7	0.4	
P503-C165S	5/8 ODF	6.54	2.5	2.2	1.5	0.9	0.5	3.4	2.2	1.5	1.0	0.5	2.8	1.8	1.2	0.8	0.4	
P503-C166S	3/4 ODF	6.95	2.5	2.6	1.8	1.1	0.6	4.1	2.7	1.8	1.2	0.6	3.4	2.2	1.5	0.9	0.5	
P503-C167S	7/8 ODF	7.13	2.5	2.7	1.8	1.1	0.6	4.6	2.8	1.9	1.1	0.6	4.3	2.6	1.7	1.0	0.6	
P503-C305	5/8 SAE	10.18	3.0	3.0	2.0	1.2	0.6	4.7	3.1	2.1	1.3	0.7	3.8	2.5	1.7	1.0	0.5	
P503-C305S	5/8 ODF	9.21	3.0	2.8	1.8	1.1	0.6	4.3	2.8	1.9	1.2	0.6	3.6	2.3	1.5	1.0	0.5	
P503-C306S	3/4 ODF	9.63	3.0	3.4	2.3	1.4	0.7	5.4	3.5	2.4	1.5	0.8	4.4	2.8	1.9	1.2	0.6	
P503-C307S	7/8 ODF	9.80	3.0	3.8	2.5	1.6	0.8	5.9	3.9	2.6	1.7	0.9	4.9	3.1	2.1	1.3	0.7	
P503-C309S	1-1/8 ODF	9.80	3.0	3.9	2.6	1.6	0.8	6.1	4.0	2.7	1.7	0.9	5.0	3.2	2.2	1.3	0.7	
P503-C417S	7/8 ODF	9.92	3.5	4.8	3.2	2.0	1.0	7.6	4.9	3.4	2.1	1.1	6.2	4.0	2.7	1.7	0.9	
P503-C419S	1-1/8 ODF	9.92	3.5	5.4	3.6	2.2	1.2	8.5	5.5	3.8	2.4	1.3	6.9	4.5	3.0	1.9	1.0	

\* All ratings in accordance with ARI Standard 710-86.

## TOTALINE® HIGH CAPACITY SUCTION LINE FILTER DRIERS — P503-8 SERIES

### TOTALINE SUCTION LINE FILTER DRIER PHYSICAL DATA



#### APPLICATION

- Premium suction line filter drier for moisture, acid & contaminant removal.
- For use with CFC, HCFC, and HFC refrigerants.
- Totaline's P503-8 Series is a high capacity suction line filter drier that incorporates beaded desiccant plus a filter.

#### FEATURES

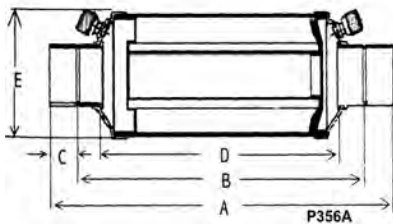
- Solid copper fittings
- Dual Access Valves
- Corrosion Resistant Paint Finish
- High Filtration Capacity

#### SPECIFICATIONS

- Filtration: 40 microns
- Maximum Working Pressure: 500 PSIG
- UL/CUL File Number: SA3124



#### DIMENSIONAL DATA



#### TOTALINE SUCTION LINE FILTER DRIER PHYSICAL DATA

PART NO	CONNECTION SIZE	DIMENSIONS					SHIP WT (lbs)		
		A	B	C	D	E			
P503-8283	3/8 SAE	5-19/32	—	7/16	4-1/8	3-11/16	2		
P503-8283S	3/8 ODF	5-19/32	4-23/32	7/16					
P503-8284S	1/2 ODF	5-11/16	4-11/16	1/2					
P503-8355	5/8 SAE	7-9/16	—	—	4-3/4	3-11/16	2-1/2		
P503-8355S	5/8 ODF	6-17/32	5-9/32	5/8					
P503-8456S	3/4 ODF	7-3/4	6-1/2	5/8	5-9/16	3-11/16	3		
P503-8457S	7/8 ODF	7-15/16	6-7/16	3/4					
P503-8509S	1-1/8 ODF	8-27/32	7-1/32	29/32				6-1/8	
P503-87511S	1-3/8 ODF	12-1/4	10-5/16	31/32				8-1/4	5
P503-87513S	1-5/8 ODF	12-5/32	9-29/32	1-1/8					

## TOTALINE® HIGH CAPACITY SUCTION LINE FILTER DRIERS — P503-8 SERIES CAPACITY TABLE

PART NO	CONNECTION (Size and Type)	FLOW CAPACITY IN TONS REFRIGERANT (For kW, Multiply Tons by 3.5)																	
		R-12				R-134a				R-22				R-407C					
		Evaporator Temperature (°F)																	
		40	20	0	-20	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40
		Pressure Drop (PSI)																	
2	1.5	1	0.5	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5		
P503-8283	3/8 SAE	1.1	0.4	0.5	0.5	1.1	0.5	1	0.4	2.3	1.3	0.9	0.4	0.5	2.4	1.5	1.1	1	0.5
P503-8283S	3/8 ODF	1.1	0.6	0.5	0.5	1.1	0.6	0.5	0.4	2.3	1.3	0.9	0.6	0.5	2.6	1.5	1.1	0.7	0.7
P503-8284S	1/2 ODF	1.8	1.2	0.8	0.7	1.9	1.2	0.8	0.6	3.8	2.1	1.4	1	0.8	4.2	2.4	1.7	1.2	1.1
P503-8355	5/8 SAE	2.1	1.4	1.1	0.9	2.2	1.4	1	0.8	4.4	2.5	1.7	1.2	0.9	4.9	2.9	2.1	1.5	1.2
P503-8355S	5/8 ODF	2.8	1.9	1.4	1.1	2.9	1.9	1.3	1	5.8	3.2	2.2	1.6	1	6.5	3.7	2.7	2.0	1.3
P503-8456S	3/4 ODF	3.8	2.5	1.8	1.2	3.9	2.5	1.7	1.1	7	4.6	3.2	2	1.1	7.8	5.3	3.9	2.5	1.5
P503-8457S	7/8 ODF	5.0	3.6	2.3	1.5	5.1	3.5	2.2	1.3	9.2	6	4.1	2.6	1.4	10	6.9	4.9	3.2	1.9
P503-8509S	1-1/8 ODF	7.1	5.0	3.2	1.8	7.3	4.9	3	1.6	13.2	8.5	5.7	3.5	1.8	15	9.7	6.9	4.3	2.4
P503-87511S	1-3/8 ODF	8.6	5.9	3.7	2.0	8.8	5.8	3.5	1.8	16.2	10.2	6.7	4	2	18	12	8.1	4.9	2.7
P503-87513S	1-5/8 ODF	9.0	6.2	3.9	2.1	9.3	6.1	3.7	1.9	17.3	10.7	7	4.2	2.1	19	12	8.4	5.2	2.8

PART NO	CONNECTION (Size and Type)	FLOW CAPACITY IN TONS REFRIGERANT (For kW, Multiply Tons by 3.5)														
		R-410A				R-502				R-404A/507						
		Evaporator Temperature (°F)														
		40	20	0	-20	-40	40	20	0	-20	-40	40	20	0	-20	-40
		Pressure Drop (PSI)														
3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5		
P503-8283	3/8 SAE	1.6	0.9	0.6	0.4	0.3	2.2	1.1	0.3	0.5	0.3	2.1	1.1	0.7	0.5	0.3
P503-8283S	3/8 ODF	1.6	0.9	0.6	0.4	0.3	2.2	1.1	0.7	0.5	0.3	2.1	1.1	0.7	0.5	0.3
P503-8284S	1/2 ODF	2.6	1.4	1.0	0.7	0.5	3.7	1.8	1.1	0.7	0.5	3.6	1.8	1.1	0.7	0.5
P503-8355	5/8 SAE	3.0	1.7	1.2	0.8	0.6	4.2	2.1	1.3	0.9	0.6	4.1	2.1	1.3	0.9	0.6
P503-8355S	5/8 ODF	4.0	2.2	1.5	1.1	0.7	5.6	2.8	1.7	1.1	0.8	5.4	2.8	1.7	1.1	0.8
P503-8456S	3/4 ODF	4.8	3.2	2.2	1.3	0.7	6.6	3.7	2.5	1.5	0.9	6.4	3.7	2.5	1.6	1
P503-8457S	7/8 ODF	6.3	4.1	2.8	1.7	0.9	7.7	4.8	3.3	1.9	1.0	7.5	4.8	3.3	2	1.1
P503-8509S	1-1/8 ODF	9.0	5.8	3.9	2.3	1.2	11	6.9	4.6	2.7	1.3	11	6.9	4.6	2.8	1.4
P503-87511S	1-3/8 ODF	11	7.0	4.6	2.7	1.3	14	8.4	5.4	3.1	1.5	14	8.4	5.4	3.2	1.6
P503-87513S	1-5/8 ODF	12	7.3	4.8	2.8	1.4	15	8.9	5.7	3.3	1.6	15	8.9	5.7	3.4	1.7

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration