

## PARKER - STEEL SUCTION LINE FILTER DRIERS — “The Original SLD”



Parker Hannifin developed and introduced the solid-core clean-up drier for use in a system suction line. The compact design incorporates a large outside diameter shell, which results in a shorter lay-in length, and a larger core, which provides a greater filtration area for maximum operating efficiency. The core material has controlled porosity which effectively removes and holds a maximum amount of contaminants with a minimum of pressure drop. In addition, the core material collects and holds inorganic acids and other harmful contaminants present after a motor burnout. The special binding process protects the core from acid decomposition. Access valves on both the inlet and outlet sides make it easy to measure pressure accurately. Occasionally, enough contaminant matter may collect in the filter core to cause a slight pressure drop. The access valves on the SLD make it easy to determine if a pressure drop exists and to measure the amount of the drop.

### KEY FEATURES AND BENEFITS

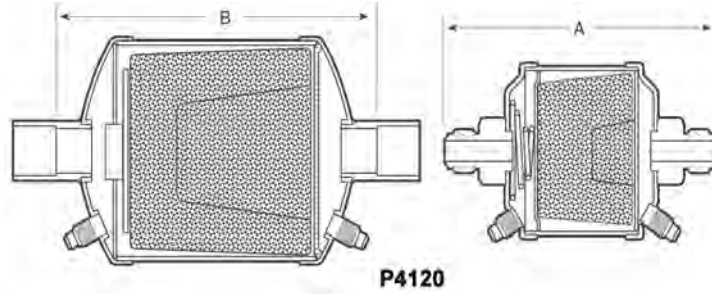
- The original SLD®, solid core, activated alumina suction line filter drier.
- High acid capacity.
- Low pressure drop - exceptionally high flow rates.
- Designed for system clean-up.
- 500 hours salt spray protection.
- Shortest system cut-out lengths allow installation in tight areas.
- Two access valves simplify pressure drop measurement.
- Flare or solid copper sweat fittings.
- UL listed - File No. SA3441.  
CSA listed LR46423.

### Steel Suction Line Drier Dimensions

PART NO	DESCRIPTION	A OVERALL LENGTH (in)	B SYSTEM CUTOUT LENGTH (in)	SHELL DIAMETER (in)
031593-01	SLD 8-3VHH Steel Suction Line Filter Drier	5.13	--	3
031593-03	SLD 8-3SVHH Steel Suction Line Filter Drier	4.31	3.13	3
031593-02	SLD 8-4VHH Steel Suction Line Filter Drier	5.38	--	3
031593-04	SLD 8-4SVHH Steel Suction Line Filter Drier	4.44	3.13	3
031593-05	SLD 8-5SVHH Steel Suction Line Filter Drier	4.66	3.16	3
031593-14	SLD 8-6SVHH Steel Suction Line Filter Drier	4.72	3.16	3
031593-09	SLD 13-5VHH Steel Suction Line Filter Drier	5.82	--	4
031593-06	SLD 13-5SVHH Steel Suction Line Filter Drier	4.91	3.45	4
031593-07	SLD 13-6SVHH Steel Suction Line Filter Drier	4.97	3.45	4
031593-08	SLD 13-7SVHH Steel Suction Line Filter Drier	4.97	3.47	4
031593-15	SLD 13-9SVHH Steel Suction Line Filter Drier	5.72	3.47	4
031593-10	SLD 27-7SVHH Steel Suction Line Filter Drier	6.97	5.47	4
031593-11	SLD 27-9SVHH Steel Suction Line Filter Drier	7.72	5.36	4
031593-12	SLD 54-11SVHH Steel Suction Line Filter Drier	12	9.17	4
031593-13	SLD 54-13SVHH Steel Suction Line Filter Drier	12	9.17	4

## PARKER - STEEL SUCTION LINE FILTER DRIERS — “The Original SLD”

Steel Suction Line Drier Water Drop Capacities at 65° F



PART NO	DESCRIPTION	FITTING SIZE (in)	DESICCANT (cu in)	FILTER AREA	R-22 & 404A	R-134a & 407	R-401A & 410A	R-502 & 507A
031593-01	SLD 8-3VHH Steel Suction Line Filter Drier	3/8 SAE Flare	8	17.25	168	168	200	185
031593-03	SLD 8-3SVHH Steel Suction Line Filter Drier	3/8 Sweat	8	17.25	168	168	200	185
031593-02	SLD 8-4VHH Steel Suction Line Filter Drier	1/2 SAE Flare	8	17.25	168	168	200	185
031593-04	SLD 8-4SVHH Steel Suction Line Filter Drier	1/2 Sweat	8	17.25	168	168	200	185
031593-05	SLD 8-5SVHH Steel Suction Line Filter Drier	5/8 Sweat	8	17.25	168	168	200	185
031593-14	SLD 8-6SVHH Steel Suction Line Filter Drier	3/4 Sweat	8	17.25	168	168	200	185
031593-09	SLD 13-5VHH Steel Suction Line Filter Drier	5/8 SAE Flare	13-1/2	26	284	284	338	312
031593-06	SLD 13-5SVHH Steel Suction Line Filter Drier	5/8 Sweat	13-1/2	26	284	284	338	312
031593-07	SLD 13-6SVHH Steel Suction Line Filter Drier	3/4 Sweat	13-1/2	26	284	284	338	312
031593-08	SLD 13-7SVHH Steel Suction Line Filter Drier	7/8 Sweat	13-1/2	26	284	284	338	312
031593-15	SLD 13-9SVHH Steel Suction Line Filter Drier	1-1/8 Sweat	13-1/2	26	284	284	338	312
031593-10	SLD 27-7SVHH Steel Suction Line Filter Drier	7/8 Sweat	27	49	568	568	676	624
031593-11	SLD 27-9SVHH Steel Suction Line Filter Drier	1-1/8 Sweat	27	49	568	568	676	624
031593-12	SLD 54-11SVHH Steel Suction Line Filter Drier	1-3/8 Sweat	54	88	1136	1136	1352	1248
031593-13	SLD 54-13SVHH Steel Suction Line Filter Drier	1-5/8 Sweat	54	88	1136	1136	1352	1248

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration

## PARKER - STEEL SUCTION LINE FILTER DRIERS — “The Original SLD”

### Steel Suction Line Drier Water Drop Capacities at 65° F

Steel Suction Line Filter Dryer Ratings and Capacities

Refrigerant	R-22					R-134a				R-404A					R-407A & R-407C					
	40° F	20° F	0° F	-20° F	-40° F	40° F	20° F	0° F	-20° F	40° F	20° F	0° F	-20° F	-40° F	40° F	20° F	0° F	-20° F	-40° F	
Evaporator Temp																				
Pressure Drop PSI	3	2	1.5	1	0.5	2.0	1.5	1.0	0.5	3.0	2.0	1.5	1.0	0.5	3.0	2.0	1.5	1.0	0.5	
SLD 8-3V-HH	1.1	0.8	0.6	0.4	0.2	0.7	0.6	0.5	0.4	1.0	0.7	0.5	0.3	0.3	1.1	0.8	0.6	0.4	0.2	
SLD 8-3SV-HH	1.2	0.9	0.7	0.5	0.3	0.8	0.7	0.6	0.5	1.0	0.8	0.6	0.4	0.5	1.2	0.9	0.7	0.5	0.3	
SLD 8-4V-HH	2.3	1.6	1.1	0.7	0.4	1.5	1.2	0.9	0.7	2.0	1.4	0.9	0.6	0.6	2.2	1.6	1.1	0.7	0.4	
SLD 8-4SV-HH	2.6	1.8	1.2	0.8	0.5	1.7	1.4	1.0	0.8	2.3	1.5	1.0	0.6	0.8	2.5	1.8	1.2	0.8	0.5	
SLD 8-5SV-HH	3.9	2.6	1.8	1.2	0.6	2.5	2.0	1.5	1.1	3.4	2.2	1.5	1.0	1.0	3.8	2.6	1.8	1.2	0.6	
SLD 8-6SV-HH	4.2	2.8	1.9	1.3	0.6	2.7	2.1	1.6	1.2	3.6	2.4	1.6	1.0	1.0	4.1	2.8	1.9	1.3	0.6	
SLD 13-5V-HH	4.1	2.7	2.0	1.3	0.8	2.6	2.0	1.7	1.2	3.6	2.3	1.6	1.0	1.3	4.0	2.7	2.0	1.3	0.8	
SLD 13-5SV-HH	5.0	3.0	2.5	1.5	1.0	3.2	2.3	2.1	1.4	4.3	2.5	2.1	1.2	1.6	4.9	3.0	2.5	1.5	1.0	
SLD 13-6SV-HH	7.0	4.5	3.0	2.0	1.0	4.5	3.4	2.5	1.9	6.1	3.8	2.5	1.6	1.6	6.8	4.5	3.0	2.0	1.0	
SLD 13-7SV-HH	7.0	4.5	3.0	2.0	1.0	4.5	3.4	2.5	1.9	6.1	3.8	2.5	1.6	1.6	6.8	4.5	3.0	2.0	1.0	
SLD 13-9SV-HH	7.2	4.6	3.1	2.1	1.0	4.6	3.5	2.6	2.0	6.3	3.9	2.5	1.7	1.6	7.0	4.6	3.1	2.1	1.0	
SLD 27-7SV-HH	10.0	8.0	5.0	3.0	2.0	6.4	6.0	4.2	2.9	8.7	6.8	4.1	2.4	3.2	9.7	7.9	5.0	3.1	2.1	
SLD 27-9SV-HH	13.0	9.0	6.0	4.0	2.0	8.3	6.8	5.1	3.8	11.3	7.6	4.9	3.2	3.2	12.7	8.3	6.0	4.1	2.1	
SLD 54-11SV-HH	20.0	13.5	9.5	6.5	3.5	12.8	10.2	8.0	6.2	17.4	11.4	7.8	5.2	5.7	19.5	13.4	9.5	6.6	3.6	
SLD 54-13SV-HH	23.0	16.0	11.0	7.0	4.0	14.7	12.1	9.3	6.7	20.0	13.5	9.0	5.6	6.5	22.4	15.8	11.1	7.1	4.1	

Refrigerant	R-407B					R-410A					R-502					R-507A				
	40° F	20° F	0° F	-20° F	-40° F	40° F	20° F	0° F	-20° F	-40° F	40° F	20° F	0° F	-20° F	-40° F	40° F	20° F	0° F	-20° F	-40° F
Evaporator Temp																				
Pressure Drop PSI	3.0	2.0	1.5	1.0	0.5	3.0	2.0	1.5	1.0	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5
SLD 8-3V-HH	0.1	0.8	0.6	0.4	0.2	1.4	0.6	0.5	0.3	0.1	0.9	0.6	0.4	0.3	0.2	1.0	0.7	0.5	0.3	0.2
SLD 8-3SV-HH	1.1	0.8	0.7	0.5	0.3	1.5	0.7	0.5	0.4	0.2	1.0	0.7	0.5	0.4	0.2	1.1	0.8	0.6	0.4	0.2
SLD 8-4V-HH	2.1	1.5	1.0	0.7	0.4	2.9	1.2	0.8	0.5	0.3	1.8	1.2	0.9	0.6	0.3	2.1	1.4	0.9	0.6	0.3
SLD 8-4SV-HH	2.4	1.7	1.1	0.8	0.5	3.2	1.4	0.9	0.6	0.4	2.0	1.3	1.0	0.7	0.4	2.3	1.6	1.0	0.7	0.4
SLD 8-5SV-HH	3.6	2.4	1.7	1.2	0.6	4.8	2.0	1.4	0.9	0.4	3.1	2.1	1.5	1.0	0.5	3.5	2.3	1.5	1.0	0.5
SLD 8-6SV-HH	3.9	2.6	1.8	1.3	0.6	5.2	2.1	1.4	1.0	0.4	3.3	2.3	1.6	1.1	0.5	3.8	2.5	1.6	1.1	0.5
SLD 13-5V-HH	3.8	2.5	1.9	1.3	0.8	5.1	2.1	1.5	1.0	0.6	3.2	2.3	1.6	1.0	0.6	3.7	2.4	1.7	1.1	0.6
SLD 13-5SV-HH	4.6	2.8	2.4	1.4	1.0	6.2	2.3	1.9	1.1	0.7	4.0	2.5	2.0	1.0	0.6	4.5	2.7	2.1	1.2	0.8
SLD 13-6SV-HH	6.5	4.2	2.9	1.9	1.0	8.7	3.4	2.3	1.5	0.7	5.0	3.5	2.5	1.5	1.0	6.3	4.0	2.6	1.7	0.8
SLD 13-7SV-HH	6.5	4.2	2.9	1.9	1.0	8.7	3.4	2.3	1.5	0.7	5.0	3.5	2.5	1.5	1.0	6.3	4.0	2.6	1.7	0.8
SLD 13-9SV-HH	6.7	4.3	2.9	2.0	1.0	8.9	3.5	2.3	1.6	0.7	5.1	3.6	2.6	1.5	1.0	6.4	4.1	2.6	1.7	0.8
SLD 27-7SV-HH	9.3	7.5	4.8	2.9	1.9	12.4	6.1	3.8	2.2	1.5	8.0	5.0	4.0	2.5	1.5	8.9	7.2	4.3	2.5	1.6
SLD 27-9SV-HH	12.1	8.5	5.7	3.9	1.9	16.1	6.9	4.5	3.0	1.5	10.0	7.0	5.0	3.0	2.0	11.6	8.1	5.1	3.3	1.6
SLD 54-11SV-HH	18.6	12.7	9.0	6.3	3.4	24.8	10.3	7.2	4.8	2.6	15.0	10.5	7.5	5.0	3.0	17.9	12.1	8.1	5.4	2.8
SLD 54-13SV-HH	21.4	15.1	10.5	6.7	3.9	28.5	12.2	8.3	5.2	2.9	18.0	12.5	9.0	6.0	3.0	20.6	14.3	9.4	5.8	3.2