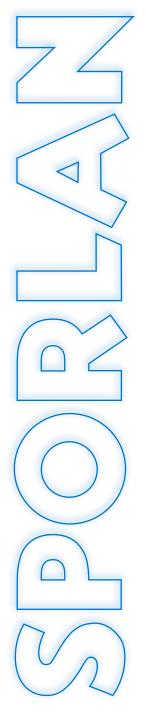


A8/SPORT and A9 to CDS Valve

Conversion Kits









FEATURES AND BENEFITS

- Converts a mechanical A8, SPORT or A9 valve to a stepper motor driven modulating valve
- Eliminates the need for brazing, because the existing A8,
 SPORT or A9 valve body stays in the system piping
- Economical system upgrade opportunity, with a typical 30 minute valve installation
- · Reduces the external seal surface area
- Improves performance and system efficiency
- · No manual setting or adjustment required
- Tight seating for defrost and pumpdown applications
- No pressure drop required for operation
- Field proven reliability and Sporlan quality

For nearly a decade, Sporlan has offered an innovative and economical method to convert currently installed SORIT Evaporator Pressure Regulators into stepper motor driven CDS valves. After tens of thousands of successful conversions and in response to growing demand for more productivity and efficiency tools, Sporlan is pleased to offer the next generation of CDS Conversion Kits. Now it is possible to convert nearly all A8, SPORT and A9 Pressure Regulators into Sporlan stepper motor valves using only one of four kits, and the retrofit has never been easier.

By utilizing the existing A8, SPORT or A9 valve body, there is no brazing required to complete the conversion, saving considerable time and expense. The conversion kit reduces the seal surface area of the installed valve, making this an ideal upgrade opportunity versus a seal rebuild, or even as a full store scheduled retrofit. Once the retrofit is complete, you will find that the solution pays for itself through improvements in system performance, and through future serviceability and diagnostic capabilities.

Review Installation Instruction SD-399 for A8/SPORT and SD-420 for A9 valves for step by step instructions to complete a typical conversion. And for easy implementation and optimal performance, make sure to pair your Conversion Kit with a Sporlan Pressure or Temperature Control.

△WARNING - USER RESPONSIBILITY

Failure or improper selection or improper use of the products described herein or related items can cause death, personal injury and property damage.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

FOR USE ON REFRIGERATION and/or AIR CONDITIONING SYSTEMS ONLY

For more information about our products visit us at www.sporlan.com.

SPECIFICATIONS

Motor Type	2 phase, bipolar internal (wet) motor		
Compatible Refrigerant	All common HCFC and HFC refrigerants		
Compatible Oils	All common Mineral, Polyolester and Alkybenzene oils		
Supply Voltage	12 VDC +10% -5% (measured at the valve leads)		
Cable Type	20' (6m) hermetic cable w/ stripped ends		
Phase Resistance	75Ω ± 10% at 70°F (21°C)		
Phase Inductance	43MHz ± 20%		
Nominal Current	160 mA / winding		
Holding Current	Not recommended		
Number of Steps	6,386		
Recommended Step Rate	200 steps / second (PPS)		
Initialization Steps	7,500 steps closing		
Overdriving	Recommended one 10% overdrive closed per day maximum (overdriving open not permitted)		
MRP	700 psig (48 bar)		
Max Internal Leakage	400 cc/min at 100 psid (6.9 bar), dry air		
Ambient Temp Range	-50°F to 140°F (-45°C to 60°C)		
Refrigerant Temp Range	-50°F to 240°F (-45°C to 116°C)		
Relative Humidity	0-100% (Condensing)		

CONVERSION KIT CROSS REFERENCE

Valve Type	Port Size	Conversion Kit	Item Number
A81	5/8"	A81 to SDR-5	183903
A8A	3/8"		
	5/8"		
(S)PORT or (S)PORT-II	3/8"		
	5/8"		
A81	7/8"	A81 to CDS-17	183904
	1-1/8"		
	1-3/8"		
A8A	7/8"		
(S)PORT or (S)PORT-II	7/8"		
	1-1/8"		
	1-3/8"		
A82*	1-5/8"	A82 to CDS-17	183905
	2-1/8"		
(S)PORT*	1-5/8"		
	2-1/8"		
А9	3/8"	A9 to CDS 805580	
	5/8"		905590
	7/8"		800080
	1-1/8″		

^{*2-5/8&}quot; port not supported.



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