

Compressed Air Treatment System

Model 494

Focal Technologies Corporation, a Moog Inc. company, has over 30 years of expertise in supplying standard and custom marine products for harsh environment applications and is a leading manufacturer of high performance and high quality swivels. Contact Focal for any assistance in selecting the best solution for your requirements.

Description

The Model 494 Compressed Air Treatment System (CATS) is designed to supply clean, dry air for any offshore applications. The system is usually supplied as part of a purged/pressurized (Ex p) swivel to ensure the purge control system has a good air supply. Operating pressure is typically 125 psi [8.5 bar]. Flow rates are determined by the customer requirements. Output air is Class 2 in accordance with ISO 8573-1.

While the CATS is typically used with an Ex p swivel, it can be used for any application that requires a source of clean, dry air.

The system can be supplied with a pneumatic system that will automatically use a compressed gas bottle as a secondary supply should the primary supply fail. This will keep a pressurized swivel operating with a loss of primary air.

The components of the CATS are housed in a 316 SS enclosure. External to the enclosure is the air input/output connections. Ingress protection is IP66.

All 400 series products are intended for use in Floating Production Systems (FPS). They are well suited for any application requiring a product that can withstand harsh marine conditions or require long life with minimal maintenance intervals. Designed and manufactured in our ISO 9001 facility under our project management system, products have a two year warranty and are provided with a complete document package.

All products can be modified to meet specific requirements. Installation, commissioning and service is available. Contact the factory for details.

www.moog.com/marine

Features

- Enclosure: 316 stainless steel
- Piping and fittings: 316 SS
- IP66
- Temperature: -15 °C to + 60°C
- Online filter and dryer changes

Options

- Emergency use gas input
- External pressure gauges
- Instrumentation to allow remote system monitoring



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Specifications

Input (Note 1)	
Pressure	125 psi [8.5 bar]
Flow Rate	Up to 6 000 L / min
Air Quality	Not specified (Note 2)
Pipe Size	1" NPT
Output	
Pressure	125 psi [8.5 bar]
Flow Rate	Up to 6 000 L / min
Air Quality	ISO 8573-1 Class 2
Particle Size	5 micron max
Dew Point	-40 °C (at maximum pressure)
Oil Content	0.1 mg/m ³ max
Interface	
Mounting	Four tabs, two slotted suitable for M12 hardware
Classification	
Marine	Typically included with swivel classification

Note 1: All CATS systems are custom made to suit a particular application. As such, the specifications shown are typical.

Note 2: To minimize the frequency of filter changes, we recommend an instrument air supply.

Environmental	
Temperature	-15 °C to +60 °C (operational) -15 °C to +60 °C (storage) Extended temperature ranges available. Contact factory
Ingress	IP66
Physical	
Height	Typically 3 ft [900 mm]
Width	Typically 2 ft [600 mm]
Depth	Typically 2 ft [600 mm]
Weight	300-500 lbs [135-230 kg]
All dimensions depend on the configuration	
Material	316 / 316L stainless steel
Drawing	494-XXXX-00
Options	
Input/output	Other pipe interfaces available
Supply backup	Connection for compressed gas bottle; automatic switchover
Gauges	Visual gauges for input/output pressure, output flow rate
Monitoring	Available. Contact factory



All specifications and information are subject to change without notice. Please contact Focal for the latest updates.

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