



**Product**

## MSV Sinter Metallic Friction, Pin Drive Clutch

**Application**

## Dredging Vessel Centrifugal Pump Drive

**Highlights**

- Air-applied clutch with sintered metallic friction material
- Designed for high-energy start applications
- Unique pin drive arrangement ensures plate separation and provides ease of maintenance
- Radially removed friction segments reduce downtime
- Built for marine duty
- Suitable for use with all major flexible coupling brands
- Extremely long friction material service life

The pneumatically actuated clutch, positioned between the forward end of the main propulsion diesel engine and input shaft to the dredge pump gearbox, was configured to connect with the existing flexible coupling and designed to “drop-in” to the existing space to avoid expensive re-engineering costs.

Wichita selected its new sinter metallic friction variant of its tried and tested MSV (Marine Standard Ventilated) clutch. The use of sinter metallic friction linings provides the perfect solution for high-speed engagement of the high-inertia systems associated with the large-capacity centrifugal pump drives found on these highly specialized vessels. The sinter metallic linings provide outstanding lifetime performance when compared to the more traditional use of organic friction materials found within competitive clutches. When the time does eventually come for friction pad replacement, the unique segmented design allows for radial pad removal. A complete pad change can be achieved without disturbance of the clutch/coupling drive-line and in a fraction of the time normally associated with more traditional clutch designs.

The hardened pin and lubricated bush drive arrangement provide a robust solution for countering vibratory fretting wear issues often associated with such high-powered diesel driven installations.

Available in 1, 2, 3 and 4 plate designs and in a wide range of diameters to suit the torque and energy requirements of high-energy clutching duties, the MSV range of clutches can be configured to connect with all major flexible coupling brands to provide the perfectly engineered solution for the marine and industrial sectors. Available with marine classification approval if required.

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