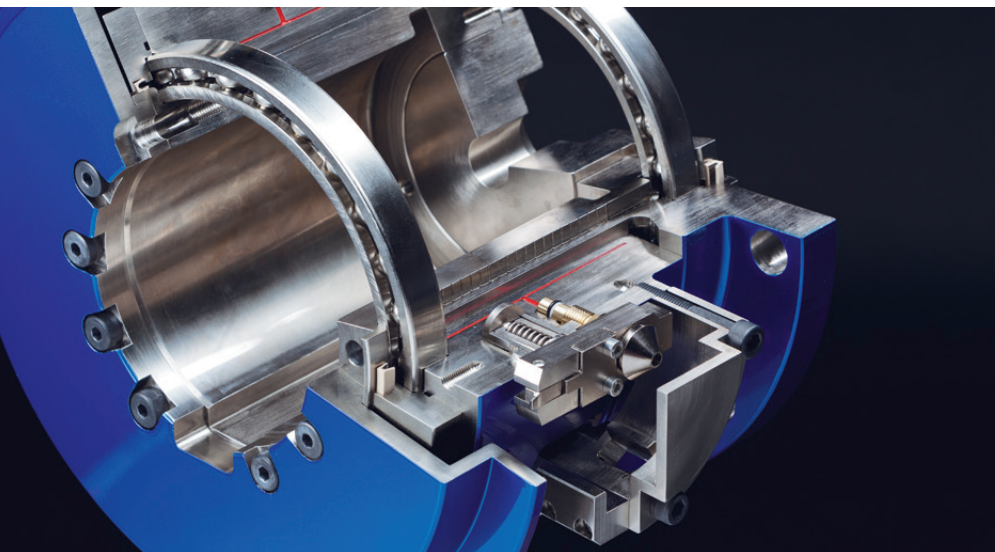


Process Improving Coupling with Controlled Slip. SmartSet



SmartSet is a process improving coupling with controlled slip. It has the ability to slip without releasing to reduce short duration and dynamic torque peaks.

SmartSet improves processes and maximizes the output of the application by functioning as an adjustable peak shaver. It can reduce system transient torques with short slippages, without releasing. It can be adapted for start-ups or continuous drives that experience many short peaks.

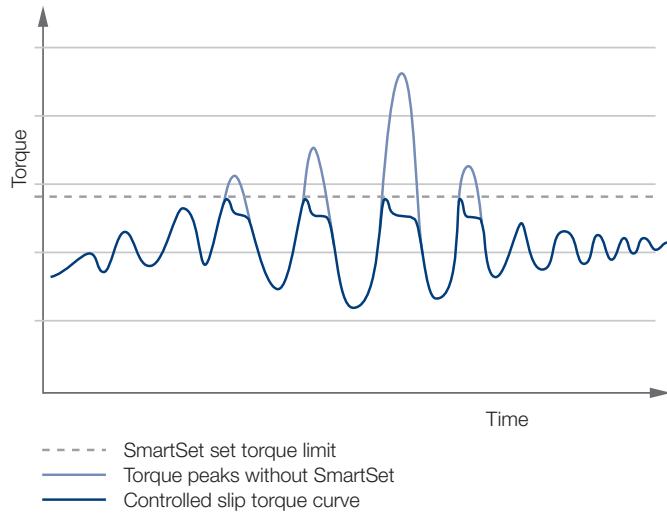
Operation

The technology is the same as for the SafeSet coupling, but it is equipped with a SmartSet device that will give the coupling an additional slip feature. This centrifugal device is activated by the rotational speed of the intended application. This enables the coupling to slip during high transient torques. If the torque peak is of long duration in an overload situation, like a complete blockage, the SmartSet coupling can fully release as a normal SafeSet coupling and subsequently save the drive train from catastrophic failure. Torque capacity available between 10 to 10 000 kNm.

Coupling and function Features**Benefits**

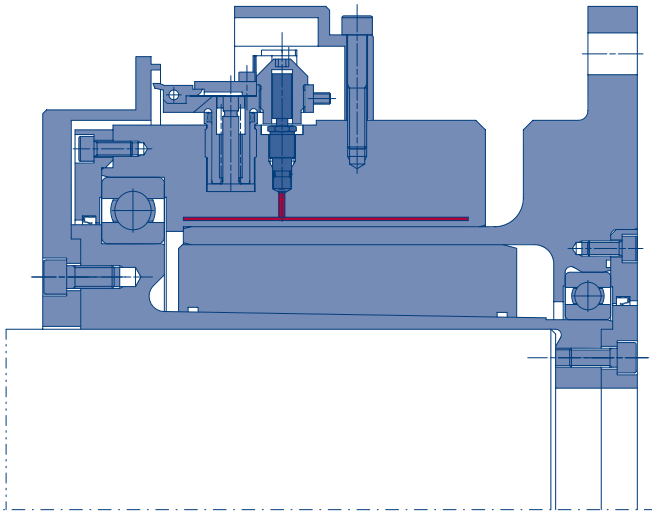
SmartSet Process improving coupling with controlled slip	Accurate release torque	Increases production uptime Due to precise point of release that gives higher safety margins in the production level, higher out put of the driveline and less repair of drive equipment
	Compact and flexible design	High utilization of investment Due to optimized driveline design – no need of changes in your existing driveline and can be positioned anywhere to maximize the driveline
	Instant torque limitation in overload situations	Protects your driveline from expensive standstill costs Due to minimized risk of overload and minimized delay time in production
	Adjustable release torque	Minimizes additional cost in the event of a upgrade of the driveline Due to adaptability to the existing driveline design and specific application requirements
	Back-lash free power transmission	Minimizes cost of repair Due to protection against wear on other parts in the driveline
	Set torque remains constant over time	Continous production process Due to no unwanted releases and reduced repair time
	Quick and easy resetting	Minimizes standstill and downtime
	Limitation of short peaks without release	Improves production uptime Due to no resetting needed for short peak event
	Automatic resetting of slip angle	Lower maintenance cost Due to no manual resetting needed
	Complete disengagement during a long peak event	Less investment cost Due to no additional equipment needed

SmartSet basic principle

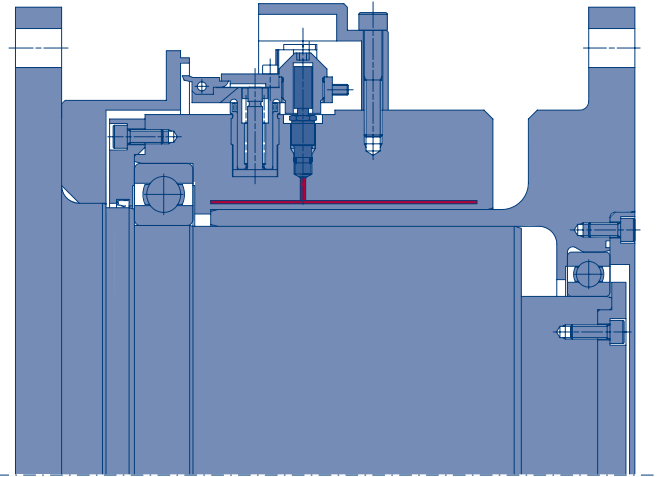


Normal slippage during transient start condition would be between 5-15 degree total.

SM-F for shaft to flange connections



SM-PF for flange to flange connections



Voith Turbo Safeset AB
Rönningevägen 8
82434 Hudiksvall, Sweden
Tel. +46 650 540 150
info.safeset@voith.com
voith.com/safeset

VOITH
Engineered Reliability