



TORSIONALLY STIFF DISC PACK COUPLINGS 350 – 24,000 Nm





GENERAL INFORMATION ABOUT R+W DISC PACK COUPLINGS:

SERVICE LIFE

R+W disc pack couplings are fatigue resistant and wear free for an infinite service life, as long as the technical limits are not exceeded.

FIT CLEARANCE

Overall shaft / hub clearance of 0.01 – 0.05 mm

TEMPERATURE RANGE

-30 to +280° C

ROTATIONAL SPEED

see table

DELIVERY

LP couplings are delivered with the disc packs pre-assembled. They need only to be mounted to the hubs.

ATEX (Optional)

For use in hazardous areas available upon request.



TORSIONALLY STIFF **DISC PACK COUPLINGS** 350 – 24,000 Nm

MODEL		FEATURES	
LP1		with keyway mounting from 350 - 24,000 Nm	Page 68-69
		very high torsional stiffness	
	184	 single flex design compact layout 	
	1 million	 compact layout compensates for axial and angular misalignment 	
LP2		with keyway mounting from 350 - 24,000 Nm	Page 70-71
		high torsional stiffness	
	101	 double flex design customer specified length available 	
	and the second se	 compensates for axial, angular, and lateral misalignment 	
LPA	-	with keyway mounting for API 610 pump systems from 500 - 24,000 Nm	Page 72-73
		▶ API 610 / 671	
	1000	intermediate cartridge for lateral mounting	
LPAI		 safety catch for in case of disc pack rupture metric or imperial dimensions available 	
LP3		with conical clamping ring from 500 - 24,000 Nm	Page 74
		high torsional stiffness	
	-	high clamping pressure	
		 backlash free torque transmission good for high speed, reversing and intermittent loading 	
LP4	STO.	with conical clamping ring from 500 - 24,000 Nm	Page 75
		very high torsional stiffness	
		single flex design	
		 compact layout compensates for axial and angular misalignment 	
LPZ	C.C.S.	intermediate flange from 500 - 24,000 Nm	Page 76
	意思、日本認識	very high torsional stiffness	
	and a	 double flex design for use with various end hubs 	
		Options / Special Solutions	Page 77
LP			

DESIGN DISC PACK COUPLINGS

R+W disc pack couplings transmit torque across the disc pack assemblies purely by friction, thus avoiding stress concentration, backlash, and micro-movements resulting from transmitting torque across shoulder bolts. This aids in approaching infinite life in addition to making the complete coupling assembly more torsionally stiff.

R+W disc pack couplings are shipped as individual components. Assembly is required.



MISALIGNMENT COMPENSATION



These couplings compensate for varying combinations of shaft misalignment types as percentages of the total allowable misalignment values listed in the data tables. The total sum of the three misalignment percentages must not exceed 100%.

Example: pump skid

axial misalignment:	20%
lateral misalignment:	40%
angular misalignment:	40%

 Δ Ktotal = Δ Kr + Δ Kw + Δ Ka \leq 100%

 Δ Ktotal = 20% + 40% + 40% \leq 100% \blacktriangleright coupling is fatigue resistant