

## **Wide range of couplings for applications in hazardous areas**

*Werdohl, Germany, December 2017.* R+L Hydraulics GmbH presents couplings for applications in hazardous areas. The specialist for power transmission technology and hydraulic accessories has various types of couplings available with ATEX certification, including gear couplings and disc couplings. A wide range of variants of these coupling types is offered, suitable for various potentially explosive atmosphere applications.

Disc couplings with ATEX certification are used in pumps and compressors for hazardous areas, for example in the petrochemical industry. The disc couplings are robust, matching harsh environmental conditions. They function practically without wear and stand out due to their high torsional stiffness and zero backlash. The couplings are maintenance-free and can be tested without disassembly. There are ten series available, covering a torque range from 0.24 kNm to 259 kNm. Aside from the basic designs, different variants with intermediate shafts or spacers are offered. Made especially for use in the petrochemical industry, there is a series available with an intermediate piece and protective ring, also meeting the requirements of the API 610 norm.

Typical applications for gear couplings with ATEX certification are for example pumps, breakers, mixers, presses, steelworks and conveyors. This robust coupling type is recognised for a high performance and simple maintenance. The availability of gear couplings for hazardous areas covers torque values ranging from 0.3 kNm to 5340 kNm. The gear couplings are available in 27 different series, including variants with a flanged or continuous sleeve, with special gaskets as well as with intermediary shaft or spacers.

In addition to couplings for hydraulics and power transmission applications, R+L Hydraulics develops and produces a broad range of components under the brand name Raja, including rigid and damped bell housings, damping elements, cooling pump bell housings and aluminium tanks, as well as oil-water heat exchangers, oil-air heat exchangers, shell-and-tube heat exchangers and plate heat exchangers.

**Illustration:**

Couplings from R+L Hydraulics with ATEX certification: gear coupling (left) and disc coupling (right)



**About R+L Hydraulics:**

R+L Hydraulics GmbH, headquartered in Werdohl, Germany, produces and markets a wide range of Raja hydraulic accessories and Lovejoy couplings. In July 2016, the hydraulics and power transmission specialist joined the listed US-based Timken Company (NYSE: TKR; [www.timken.com](http://www.timken.com)). Timken engineers, manufactures and markets bearings, gear drives, belts and industrial chains. In addition to R+L Hydraulics and Lovejoy, the Timken product and services portfolio includes the brand names of Timken, Philadelphia Gear, Carlisle, Drives, Interlube, Aerospace Bearing Repair, PT Tech and TCP.

**UK distributor:**

jbj Techniques Ltd.  
28 Trowers Way, Holmethorpe Industrial Estate  
Redhill, Surrey RH1 2LW  
Phone: +44 (0)1737 767493  
Fax: +44 (0)1737 772041  
E-mail: [info@jbj.co.uk](mailto:info@jbj.co.uk)  
Internet: [www.jbj.co.uk](http://www.jbj.co.uk)

**Contact in Germany:**

R+L Hydraulics GmbH  
Friedrichstr. 6  
58775 Werdohl, Germany  
Tel.: +49 2392 509 0  
Fax: +49 2392 509 509



Press release

Email: [info@rl-hydraulics.com](mailto:info@rl-hydraulics.com)

Internet: [www.rl-hydraulics.com](http://www.rl-hydraulics.com)

**Press contact:**

TPR International

Christiane Tupac-Yupanqui

Postfach 11 40

82133 Olching, Germany

Tel.: +49 8142 44 82 301

Email: [c.tupac@tradeppressrelations.com](mailto:c.tupac@tradeppressrelations.com)

Internet: [www.tradeppressrelations.com](http://www.tradeppressrelations.com)

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