

STANDARD

Steam couplings complying with EN 14423/ DIN 2826 are available in female and male threaded screw couplings and in flange couplings. The screw couplings are available in galvanized steel, stainless steel or brass. The flanged couplings are available in galvanized steel or stainless steel.

OPERATION

Steam couplings complying with EN 14423 / DIN 2826 are used to assemble steam hoses complying with EN ISO 6134. The serrated hose shank with collar is designed to be assembled with RKS steam clamps complying with EN 14423 / DIN 2826. Under no circumstances RK safety clamps complying with EN 14420-3 / DIN 2817 shall be used. Compared with EN 14420-2 / DIN 2817-compliant smooth hose shanks, steam hose shanks complying with EN 14423 / DIN 2826 are serrated and are physically longer, larger and stronger.



Due to the high temperature applications in which steam couplings are used, PTFE or novatec® PREMIUM II thread seals are used for the female threaded couplings.

APPLICATION

For saturated steam and hot water applications.

N.B.: Steam is dangerous. Never use quick-release couplings for steam applications. Extra care and attention should be taken when choosing the correct hose, fitting and clamping solution.

WORKING PRESSURE

Working pressure: 18 bar / 261 psi with a temperature of 210°C / 410°F

Test pressure: 90 bar / 1305 psi

Burst pressure: 180 bar / 2611 psi

TEMPERATURE

Saturated steam: +210°C / 410 °F

Hot water: +120°C / 248°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.



MATERIAL

- Coupling
 - Stainless steel: AISI 304 / 1.4301
 - Galvanized steel: 95MnPb28 – 1.0718
 - Brass: CW614N / EN 12420
- Flange
 - Swivel flange
 - Galvanized carbon steel Rst 37.2
 - Stainless steel AISI 316 / 1.4401
 - Fixed flange
 - Galvanized carbon steel Rst 37.2
 - Stainless steel AISI 316 / 1.4401
- Seal
 - For steam couplings
 - novatec® PREMIUM II with para-aramid fibres (KEVLAR®) for brass and steel steam couplings
 - PTFE for stainless steel steam couplings
 - For steam flanges
 - novatec® PREMIUM II with KEVLAR®

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ASSEMBLY

RKS steam clamps complying with EN 14423 / DIN 2826

N.B.: The bolts used for RKS steam clamps are not standard bolts. They differ from standard bolts in terms of their length, diameter, overall thread length and material hardness. These bolts can be re-torqued, but it is not recommended that they are reused, since they are designed for one-off use only. We recommend using only factory-supplied replacement bolts.

Under no circumstances RK safety clamps complying with EN 14420-3 / DIN 2817, worm drive clamps or swage ferrules shall be used for steam applications.

THREADS

- Male thread: EN 10226-1 / DIN 2999, BSPT
 ANSI B.1.20.1, NPT
- Female thread: EN ISO 228-1, BSP
 ANSI B.1.20.1, NPT available on request

