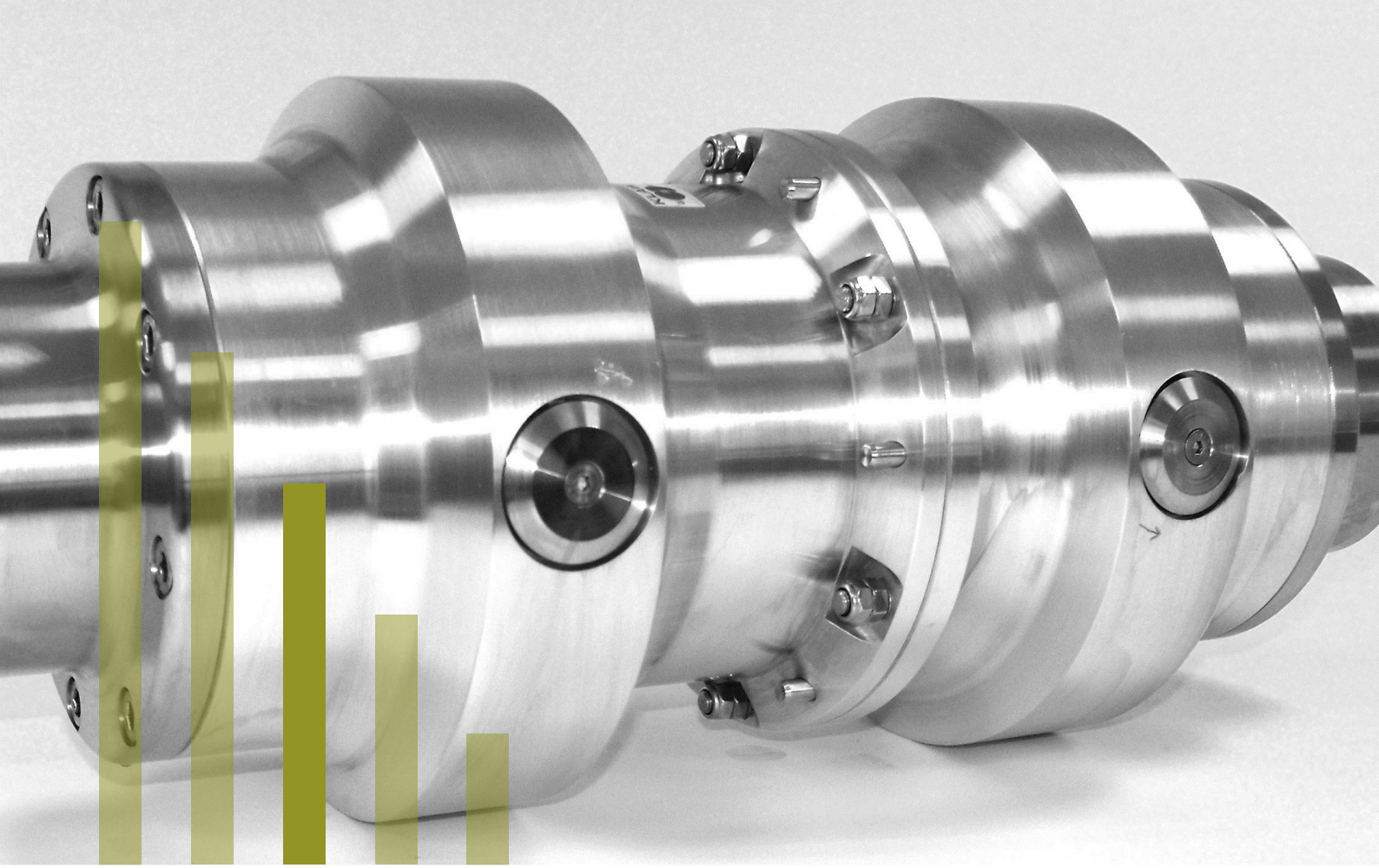

IGA International TEC

Couplings

Breakaway Couplings (BAC)

Emergency Release Couplings (ERC)

Know how & consulting directly from manufacturer with decades of experience

That‘s why you choose... IGA International TEC

- Our original **FLIP-FLAP design** not only provides minimum head loss through the unit but also ensures that under no circumstances can the seal between the two coupling body halves open to atmosphere before the internal flap valves have been released and provided a 100% shut off
- **DUPLEX, SUPERDUPLEX, HASTELLOY, ALUMINIUM…**
  We machine all compatible materials
- **ASME, NACE, NORSOK, DIN…**
  We manufacture according to all required guidelines and directives
- **Customized connections**
- **Certifications**

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Emergency Release Coupling (**ERC**)

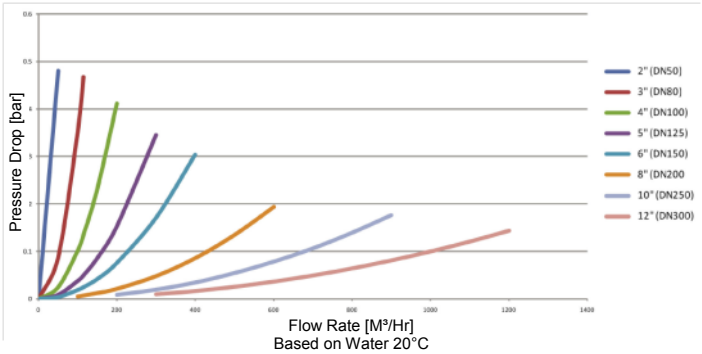
ERC Types	• Non-cryogenic and elevated ER • Cryogenic ERC
Advantages	• Light weight • Compact design • Minimal flow restriction • Low pressure drop • Risk of “partial break” eliminated • Proven protection

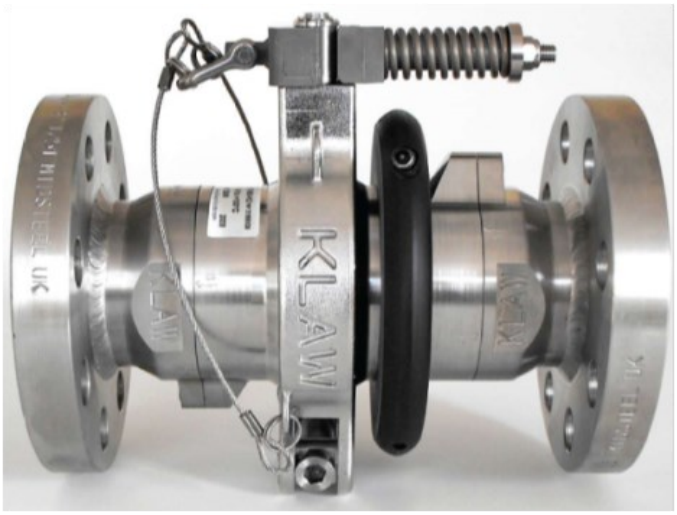
How it Works:

In ERC breakstuds are replaced by a collar release mechanism. The collar is released via a cable, hydraulic or dual system, which activates at a predetermined point before over extension of the arm or hose.

Cable Release ERC 	• Installed between a fixed rigid point and a hose string • The cable is connected to the cable release ERC and the end of the hose string • ERC is activated when the hose string has a force applied. The connected cable releases at the predetermined breakload setting ⇒ Safe activation ⇒ Limited risk of associated strains on the transfer system ⇒ Reduced risk to operators
Hydraulic Release ERC 	• Can be offered for integration into an existing on-site hydraulic supply or a manual hand pump activation method • Hydraulic power unit system can be provided to generate activation as required
Dual Release ERC 	• Offers multiple methods of release • Over extension of the hose string: cable release mechanism will create the activation • Over extension on the connected hydraulic system: coupling is also activated at the pre-determined point • No existing hydraulic systems in place: we offer either the required hydraulic power unit (HPU) to accommodate the activation or provide manual hand pump activation method

Flow Rate Characteristics:





ERC

		Non-cryogenic and elevated ERC	Cryogenic ERC
Type			
Working temperature		Up to +275°C / **+527°F**	Down to –196°C / **+320°F**
Standard nominal bores	Standard range	DN25 / **1″** to DN300 / **12″**	DN25 / **1″** to DN300 / **12″**
	K2 range	DN25 / **1″** to DN80 / **3″**	DN25 / **1″** to DN80 / **3″**
Pressure ratings (standard range design pressure)		Up to 4″= 40 bar / **580 psi** 5″ = 27 bar / **391 psi** 6″ = 23 bar / **333 psi** 8″ = 17 bar / **246 psi** 10″ = 14 bar / **203 psi** 12″ = 10 bar / **145 psi**	Up to 4″= 40 bar / **580 psi** 5″ = 27 bar / **391 psi** 6″ = 23 bar / **333 psi** 8″ = 17 bar / **246 psi** 10″ = 14 bar / **203 psi** 12″ = 10 bar / **145 psi**
Connections		• Threaded (male / female) • Threaded (tapered / parallel) • Flanged • Weld prepared ends [other configurations on request]	• Threaded (male / female) • Threaded (tapered / parallel) • Flanged • Weld prepared ends [other configurations on request]
Materials		• Stainless steel • Carbon steel • Aluminium • Exotic alloys	• Stainless steel
Type of sealing		Application specific	Application specific
Body		Two-parts	Two-parts
Activation		According to customers spec.	According to customers spec.
Control system		• Electric HPU • Air driven HPU • Manual hydraulic pump	• Electric HPU • Air driven HPU • Manual hydraulic pump
Application		• Loading arms or hose assemblies	• Bunkering, refueling and loading arm coupling solutions within cryogenic industrial gas transfer systems • LNG ship-to-ship transfer
Fluid		LPG, Fuel and Chemical transfer systems	LNG, LPG, fuels, chemicals, industrial gases e.g. liquid nitrogen, liquid helium, liquid oxygen
Certifications		TUV	TUV, BV, NK Class