SINCE 1994

HI-TECH SYSTEMS

HTS

CAMLOCK & QUICK RELEASE COUPLING SOLUTIONS

AN ISO 9001 : 2015 COMPANY

HI-TECH SYSTEMS (HTS)

Hi-Tech Systems (HTS), established in 1994, is a trusted name in the manufacturing of Camlock Couplings and Quick Release Couplings in India. With decades of industry experience and deep engineering expertise, HTS delivers a comprehensive portfolio of high-performance coupling solutions designed to ensure safe, reliable, and efficient fluid transfer across a wide range of industrial applications.

Equipped with advanced manufacturing facilities and precision-driven processes, HTS maintains stringent quality standards while ensuring timely delivery and cost efficiency. The company excels in both large-scale production and the development of customized solutions, tailored to specific operational parameters such as pressure, temperature, fluid compatibility, and application requirements.

HTS manufactures its products using premium-grade materials including AISI 304, AISI 316, and AISI 321 stainless steels, along with brass and aluminium, ensuring superior durability and performance in demanding environments. Its diverse product range—comprising Quick Connect & Disconnect Couplings, Cam and Groove Couplings, and Claw Couplings—serves critical sectors such as oil & gas, power generation, chemicals, pharmaceuticals, steel, automotive, and defence.

Driven by a commitment to quality, innovation, and continuous improvement, HTS invests consistently in product development and workforce capability enhancement. The company is dedicated to delivering leak-proof, high-efficiency coupling solutions while supporting India’s emergence as a global hub for advanced industrial fluid handling systems.

CAMLOCK COUPLING (HTS SERIES)

The HTS Series Camlock Couplings are precision-engineered for heavy-duty and critical service applications, where operational reliability and safety are non-negotiable. Designed to perform in demanding industrial environments, the HTS Series offers a perfect balance of strength, durability, and global compatibility. Also the assembly design ensures interchangeability with major standards like DIN, EN(14420-7:2013) and MIL (A-A-59326).

Specification

- Material of construction: stainless steel 316 & 304
- Size: 1/4", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 12"
- Type: 8 (eight) types A , B, C, D, E, F, DC and DP
- Threads: BSP, BSPP, BSPT, NPT, Metric threads etc.. (we can also make any special threads)
- Pressure Resistance: Up to 50 kg/cm²
- Seal Material Options: PTFE ENVELOP SEALS, NITRILE, SILICON, FFKM, VITON, NBR & CR

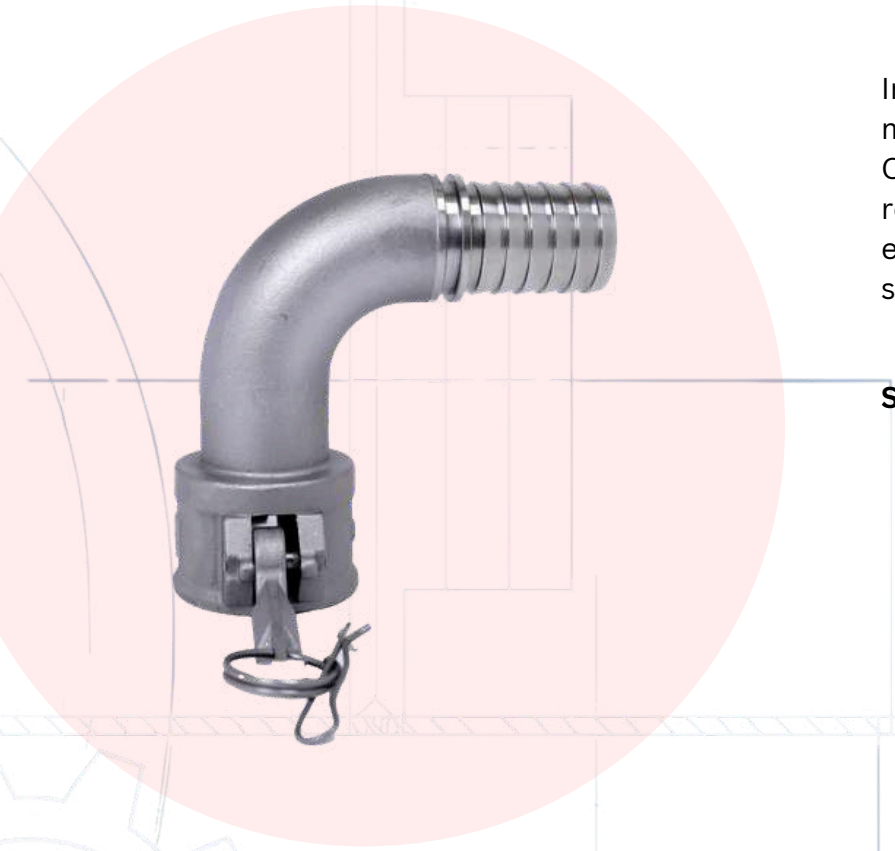
Pressure Table

Model	Size (Inch)	NB (mm)	Aluminum	Brass	Stainless Steel	Polypropylene
HTS-Type-050	½”	15 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-075	¾”	20 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-100	1”	25 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-125	1¼”	32 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-150	1½”	40 mm	250 PSI / 17 bar	300 PSI / 20 bar	450 PSI / 31 bar	125 PSI / 9 bar
HTS-Type-200	2”	50 mm	250 PSI / 17 bar	300 PSI / 20 bar	450 PSI / 31 bar	125 PSI / 9 bar
HTS-Type-250	2½”	65 mm	200 PSI / 14 bar	250 PSI / 17 bar	400 PSI / 28 bar	100 PSI / 7 bar
HTS-Type-300	3”	80 mm	150 PSI / 10 bar	200 PSI / 14 bar	300 PSI / 21 bar	100 PSI / 7 bar
HTS-Type-400	4”	100 mm	125 PSI / 9 bar	150 PSI / 10 bar	250 PSI / 17 bar	75 PSI / 5 bar
HTS-Type-500	5”	125 mm	100 PSI / 7 bar	125 PSI / 9 bar	200 PSI / 14 bar	60 PSI / 4 bar
HTS-Type-600	6”	150 mm	100 PSI / 7 bar	125 PSI / 9 bar	150 PSI / 10 bar	50 PSI / 3.5 bar
Note: 8", 12" also available (MADE TO ORDER)						

Seal Material – Temperature Range Chart

Seal Material	Min Temp (°C)	Max Temp (°C)	Min Temp (°F)	Max Temp (°F)	Key Properties
NBR (Buna-N)	-30°C	+100°C	-22°F	+212°F	Oil & fuel resistant, general purpose
EPDM	-40°C	+150°C	-40°F	+302°F	Excellent for water, steam, chemicals
PTFE (Teflon)	-200°C	+260°C	-328°F	+500°F	good chemical resistance, wide range
Viton (FKM)	-20°C	+200°C	-4°F	+392°F	High temp & chemical resistance

CAMLOCK COUPLING (BEND-REDUCER SERIES)



In this series a versatile range of Camlock Couplings designed with multiple end connection options including bends and reducers. Custom end connections are available to suit specific application requirements. All couplings feature a standardized assembly design, ensuring full interchangeability in accordance with EN, DIN, and MIL standards for seamless global compatibility. (Made to Order)

Specification

- Material of construction: stainless steel 316 & 304
- Size: 1/4", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 12"
- Type: 8 (eight) types A , B, C, D, E, F, DC and DP
- End connections: Hose shank, BSP, BSPP, BSPT, NPT, Metric threads etc.. (we can also make any special threads)
- Pressure Resistance: Up to 50 bar
- Seal Material Options: PTFE ENVELOP SEALS, NITRILE, SILICON, FFKM, VITON, NBR & CR

Key Features

- Space-Constrained Installations, used where straight connections are not possible due to limited space. Common in skid systems, machinery connections, and compact plant layouts.
- The bends redirect flow without stressing hoses. Helps in smooth product transfer (fuel, chemicals, etc.).
- Ideal for routing pipelines around equipment or structures. Prevents sharp hose bending and reduces wear in corrosive or hazardous fluid transfer.
- It is very useful in systems handling dry materials where flow direction needs to be controlled without additional fittings.
- It eliminates need for additional elbows or fittings and saves installation space.
- Size Transition Capability, Enables connection between different pipe or hose sizes within the same system.
- Global Interchangeability, as assembly is fully compatible with EN, DIN, and MIL standards for seamless integration across international systems.
- Quick Connect / Disconnect, Cam & groove mechanism allows fast, tool-free operation, saving time and improving operational efficiency.
- Reliable Sealing Performance, precision design ensures secure and leak-resistant connections during operation.
- We manufacture made to order special types in all the 8 (eight) types of Camlock couplings A, B, C, D, E, F, DC & DP

Seal Material – Temperature Range Chart

Seal Material	Min Temp (°C)	Max Temp (°C)	Min Temp (°F)	Max Temp (°F)	Key Properties
NBR (Buna-N)	-30°C	+100°C	-22°F	+212°F	Oil & fuel resistant, general purpose
EPDM	-40°C	+150°C	-40°F	+302°F	Excellent for water, steam, chemicals
PTFE (Teflon)	-200°C	+260°C	-328°F	+500°F	good chemical resistance, wide range
Viton (FKM)	-20°C	+200°C	-4°F	+392°F	High temp & chemical resistance

CAMLOCK COUPLING (EN 14420-7:2022 SERIES)

The EN 14420-7:2022 Series Camlock Couplings are Manufactured in full compliance with EN 14420-7:2022, the latest European standard for cam and groove couplings, these products meet stringent requirements for design integrity, dimensional accuracy, and operational safety. The enhanced construction ensures consistent performance under high-stress and continuous-duty conditions. These are precision-engineered for heavy-duty and mission-critical applications, where performance, safety, and reliability are paramount. Developed to operate in the most demanding industrial environments, this series delivers an exceptional combination of mechanical strength, durability, and global interchangeability.

Specification

- Material of construction: stainless steel 316 & 304
- Size: 1/4", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 12"
- Type: 8 (eight) types A , B, C, D, E, F, DC and DP
- Threads: BSP, BSPP, BSPT, NPT, Metric threads etc.. (we can also make any special threads)
- Pressure Resistance: Up to 50 bar
- Seal Material Options: PTFE ENVELOP SEALS, NITRILE, SILICON, FFKM, VITON, NBR & CR

Pressure Table

Model	Size (Inch)	NB (mm)	Aluminum	Brass	Stainless Steel	Polypropylene
HTS-Type-050	½”	15 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-075	¾”	20 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-100	1”	25 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-125	1¼”	32 mm	250 PSI / 17 bar	300 PSI / 20 bar	500 PSI / 34 bar	150 PSI / 10 bar
HTS-Type-150	1½”	40 mm	250 PSI / 17 bar	300 PSI / 20 bar	450 PSI / 31 bar	125 PSI / 9 bar
HTS-Type-200	2”	50 mm	250 PSI / 17 bar	300 PSI / 20 bar	450 PSI / 31 bar	125 PSI / 9 bar
HTS-Type-250	2½”	65 mm	200 PSI / 14 bar	250 PSI / 17 bar	400 PSI / 28 bar	100 PSI / 7 bar
HTS-Type-300	3”	80 mm	150 PSI / 10 bar	200 PSI / 14 bar	300 PSI / 21 bar	100 PSI / 7 bar
HTS-Type-400	4”	100 mm	125 PSI / 9 bar	150 PSI / 10 bar	250 PSI / 17 bar	75 PSI / 5 bar
HTS-Type-500	5”	125 mm	100 PSI / 7 bar	125 PSI / 9 bar	200 PSI / 14 bar	60 PSI / 4 bar
HTS-Type-600	6”	150 mm	100 PSI / 7 bar	125 PSI / 9 bar	150 PSI / 10 bar	50 PSI / 3.5 bar

Seal Material – Temperature Range Chart

Seal Material	Min Temp (°C)	Max Temp (°C)	Min Temp (°F)	Max Temp (°F)	Key Properties
NBR (Buna-N)	-30°C	+100°C	-22°F	+212°F	Oil & fuel resistant, general purpose
EPDM	-40°C	+150°C	-40°F	+302°F	Excellent for water, steam, chemicals
PTFE (Teflon)	-200°C	+260°C	-328°F	+500°F	Good chemical resistance, wide range
Viton (FKM)	-20°C	+200°C	-4°F	+392°F	High temp & chemical resistance

QUICK RELEASE COUPLING (ISO 7241-A SERIES)

HTS Quick Release Couplings are precision-engineered in accordance with ISO 7241-A, ensuring full global interchangeability and reliable performance across a wide range of hydraulic applications. Manufactured using advanced automated machinery, each coupling is produced with high dimensional accuracy and consistency. The complete manufacturing, assembly, and testing processes are carried out under strict quality control systems to meet international performance standards.

Specification

- Standard Compliance: ISO 7241-A
- Type: Ball Locking Quick Release Coupling
- Connection Type: Push-to-connect / Pull-back sleeve disconnect
- Nominal Sizes: 1/4” to 2” (DN 6 to DN 50)
- End connections: BSPP, BSPT, NPT, SAE, Metric threads, Hose ends (We can also make special threads on demand)
- Working Pressure: Up to 350 bar (depending on size & material)
- Burst Pressure: Up to 4 times working pressure
- Materials of Construction: Carbon Steel / Stainless Steel / Brass
- Surface Finish: Zinc Plated / Cr3 / Nickel Plated / Electroless Nickel Plated / Passivated / Cadmium Coating / Custom Coating
- Seals: Viton, NBR, FKM, CR, Si, EPDM
- Flow Medium: Hydraulic oil, water, glycol, and compatible fluids

Pressure Table

Model	Size (Inch)	DN (mm)	Working Pressure (bar)	Working Pressure (PSI)
HTS-A-1/4"	1/4”	6 mm	350 bar	5075 PSI
HTS-A-3/8"	3/8”	10 mm	330 bar	4785 PSI
HTS-A-1/2"	1/2”	12 mm	300 bar	4350 PSI
HTS-A-3/4"	3/4”	20 mm	250 bar	3625 PSI
HTS-A-1"	1”	25 mm	220 bar	3190 PSI
HTS-A-1-1/4"	1-1/4”	32 mm	180 bar	2610 PSI
HTS-A-1-1/2"	1-1/2”	40 mm	150 bar	2175 PSI
HTS-A-2"	2”	50 mm	120 bar	1740 PSI

Seal Material – Temperature Range Chart

Seal Material	Abbreviation	Temperature Range (°C)	Temperature Range (°F)
Nitrile Rubber	NBR	-20°C to +100°C	-4°F to +212°F
Fluorocarbon	FKM (Viton)	-15°C to +200°C	+5°F to +392°F
Neoprene	CR	-20°C to +120°C	-4°F to +248°F
Silicone	Si	-60°C to +200°C	-76°F to +392°F
Fluorocarbon	Viton	-15°C to +200°C	+5°F to +392°F

QUICK RELEASE COUPLING (ISO 7241-B SERIES)

HTS Quick Release Couplings are precision-engineered in compliance with ISO 7241-B, ensuring reliable performance and full interchangeability with globally accepted ISO B profile couplings. Designed to meet the requirements of international hydraulic systems, these couplings are widely used in OEM and industrial applications, particularly in North American markets. All manufacturing, assembly, and testing processes are carried out under strict quality control systems to meet international performance standards.

Specification

- Standard Compliance: ISO 7241-B
- Type: Ball Locking Quick Release Coupling
- Connection Type: Push-to-connect / Pull-back sleeve disconnect
- Valve Type: Poppet Valve (Double Shut-Off)
- Interchangeability: Compatible with all ISO 7241-B profile couplings
- Nominal Sizes: 1/4” to 2” (DN 6 to DN 50)
- End connections: BSPP, BSPT, NPT, SAE, Metric threads, Hose ends (We can also make special threads on demand)
- Working Pressure: Up to 350 bar (depending on size & material)
- Burst Pressure: Up to 4 times working pressure
- Materials of Construction: Carbon Steel / Stainless Steel / Brass
- Surface Finish: Zinc Plated / Cr3 / Nickel Plated / Electroless Nickel Plated / Passivated / Cadmium Coating / Custom Coating
- Seals: Viton, NBR, FKM, CR, Si, EPDM
- Flow Medium: Hydraulic oil, water, glycol, and compatible fluids

Pressure Table:

Size (Inch)	DN (mm)	Working Pressure (bar)	Working Pressure (PSI)
1/4”	6 mm	350 bar	5075 PSI
3/8”	10 mm	330 bar	4785 PSI
1/2”	12 mm	300 bar	4350 PSI
3/4”	20 mm	250 bar	3625 PSI
1”	25 mm	220 bar	3190 PSI
1-1/4”	32 mm	180 bar	2610 PSI
1-1/2”	40 mm	150 bar	2175 PSI
2”	50 mm	120 bar	1740 PSI

Seal Material – Temperature Range Chart

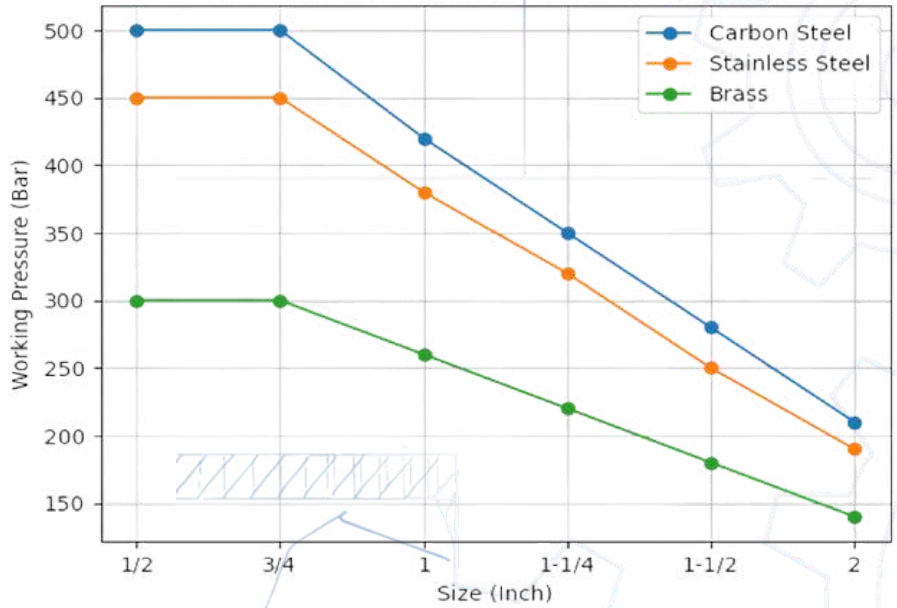
Seal Material	Abbreviation	Temperature Range (°C)	Temperature Range (°F)
Nitrile Rubber	NBR	-20°C to +100°C	-4°F to +212°F
Fluorocarbon	FKM (Viton)	-15°C to +200°C	+5°F to +392°F
Neoprene	CR	-20°C to +120°C	-4°F to +248°F
Silicone	Si	-60°C to +200°C	-76°F to +392°F
Fluorocarbon	Viton	-15°C to +200°C	+5°F to +392°F

QUICK RELEASE COUPLING (WING SERIES)

HTS Wing Series Quick Release Couplings are engineered for high-pressure applications requiring secure, leak-proof connections. Featuring a robust wing nut locking system, they ensure reliable performance even under vibration and harsh conditions. Manufactured with precision and premium materials, they are ideal for global industrial and hydraulic applications.

Specification

- Size Range: ½” to 2” (DN15 to DN50)
- Working Pressure: Up to 500 bar (depending on size & material)
- Burst Pressure: 3–4 times working pressure
- Connection Type: Threaded NPT / BSP / BSPT / SAE / METRIC THREADS
- Locking Mechanism: Wing Nut / Hammer Lug Type
- Material Options: Carbon Steel, Stainless Steel (SS304/SS316), Brass
- Seal Material: NBR (Standard), Viton (Optional), EPDM (Optional)
- Surface Finish: Zinc Plated, Phosphate Coated, Passivated / Polished (SS)
- Interchangeability: Compatible with Eaton 5100 Series, Parker 6100 Series, Snap-tite 78 Series & equivalent
- Application: Oilfield Equipment, Hydraulic Systems, Dump & Live Floor Trailers, Mobile Equipment, Submersible Pumps
- Media Compatibility: Hydraulic Oil, Water, Fuel, Mild Chemicals
- Connection Method: Manual or Hammer Tightening



Pressure Table

HTS Model	Size (Inch)	NB (mm)	Working Pressure (PSI)	Working Pressure (Bar)	Burst Pressure (Bar)
HTS-WING-1/2"	½”	15 mm	7250 PSI	500 bar	1500 bar
HTS-WING-3/4"	¾”	20 mm	7250 PSI	500 bar	1500 bar
HTS-WING-1"	1”	25 mm	6000 PSI	420 bar	1260 bar
HTS-WING-1 1/4"	1¼”	32 mm	5000 PSI	350 bar	1050 bar
HTS-WING-1 1/2"	1½”	40 mm	4000 PSI	280 bar	840 bar
HTS-WING-2"	2”	50 mm	3000 PSI	210 bar	630 bar

Industry We Served

OIL & GAS

CHEMICAL

PHARMA

STEEL PLANTS

FOOD & BEVERAGE

AIRLINES

POWER PLANTS

DEFENCE

MARINE/SHIPYARDS

RAILWAYS

PAPER MILL

CONSTRUCTION

HYDRAULICS

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TEXTILE INDUSTRY

MINING

DEWATERING

DUMP TRAILERS

MOBILE EQUIPMENT

SUBMERSIBLE PUMPS

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