FLUID CONTROLS®

FLEXIGRIP CONNECTORS

OUR COMPANY

Established in 1974 by Dr. Y.E. Moochhala, a Ph.D in Mechanical Engineering from Northwestern University, USA, Fluid Controls® is a leading provider of instrumentation products and services for a wide variety of industrial applications. Headquartered in Mumbai, the group has manufacturing facilities in Pune and Goa, including a state-of-the-art R&D centre and testing laboratory.

OUR PRODUCTS

Fluid Controls® offers clients a complete range of instrumentation erection hardware, from tube fittings, valves, manifolds and air headers to DIN pipe clamps, SAE flanges and condensate pots. We also offer clients customised close coupled instrument hook-ups, high pressure needle valves, a range of gas valves for turbine applications and block and bleed valves.

RESEARCH & DEVELOPMENT

Fluid Controls® offers clients customized solutions based on analytical formulations, 2D and 3D Modelling and Finite Element Analysis. Our commitment to product upgradation and new product development has resulted in the recognition of Fluid Controls® as an **"R&D Centre"** by the **Department of Scientific & Industrial Research (DSIR).**

OUR CERTIFICATIONS

Fluid Controls® is systems certified for ISO 9001:2015, ISO 14001, ISO 18001, and PED. Product performance certifications include ASTM F1387-99 (2012), ISO 19879 (ISO 8434), NGV, ISO 15500, ECE R110, PDA for DIN Single Ferrule Fittings, American Bureau of Shipping PDA for Fittings, Valves and Manifolds, MSS-SP-99, Valve certifications for API 607 and Fugitive Emission. We also have special certifications to IEC and EN standards for corrosion and shock/vibration for fittings.

OUR CUSTOMERS

Fluid Controls® is a premier supplier for onshore and offshore oil & gas installations, process applications, power plants and railways in India. We are approved by all leading OEM's, including ONGC (offshore/onshore), NTPC, NPCIL, BHEL, GAIL, SAIL and RINL. For railway applications, we are approved for electric and diesel locomotives, motorized coaches, LHB coaches and metro rail cars. Our railway customers include CLW, DLW, DMW, ICF, MCF, RCF, BEML, Bombardier, Alstom, General Electric.

Connectors are used for piping connections across industries and applications. Standard connectors can be used where piping in an installation is aligned and of the same material. If, however, there is a mis-alignment between the two pipes that are to be connected, or if a joint is to be created between pipes of disparate material, standard connectors will not work.

To overcome this, Fluid Controls® has developed a range of FlexiGrip® connectors which can be used to create joints between mis-aligned pipes and to create joints between pipes of different material.

Fluid Controls® FlexiGrip® Connectors

FlexiGrip® connectors consist of a five piece assembly of a Body, Nut, O ring, Retaining Ring, Split Ring

The Split Ring, Backup Washer and O ring provide three sealing points for a completely **leak-proof** connection. The split ring also provides superior **vibration resistance** by ensuring the joint remains in a springing condition.
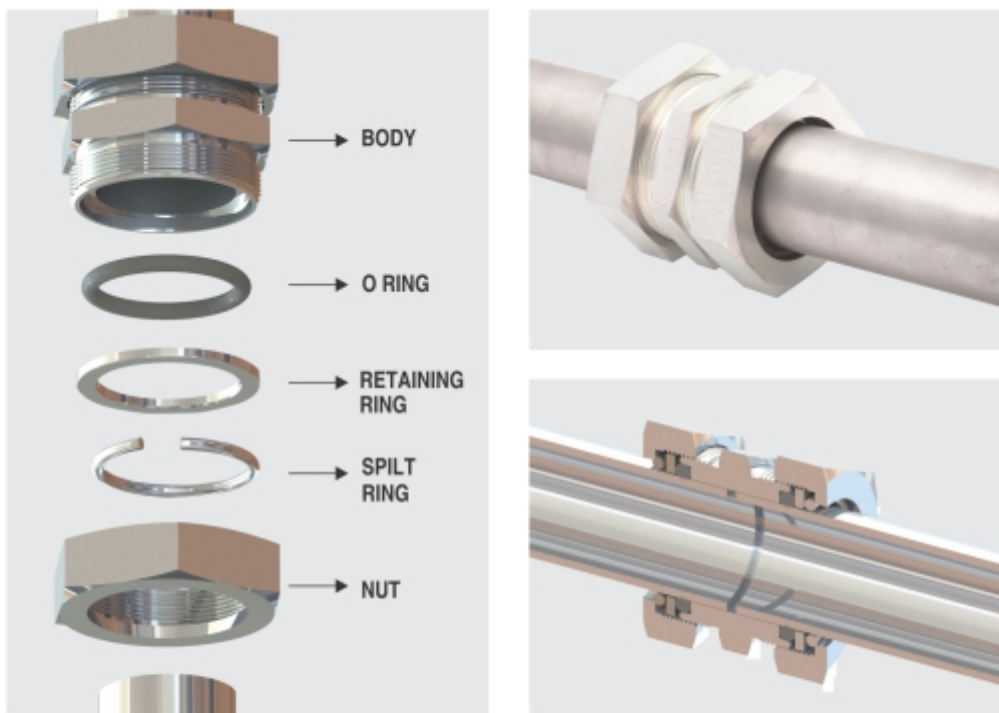
Fluid Controls® FlexiGrip® Connectors offer several advantages, including

- Creating joints for mis-aligned piping up to 3°
- Creating joints between two or three metal pipes of different materials
- Zero leakage with no spillage and high vibration resistance
- Easy assembly - no special tools are required
- "Make & Break" - the pipes and FlexiGrip connectors are re-usable

Fluid Controls® FlexiGrip® Connectors are available in a carbon steel, stainless steel and aluminium. They offer connections for the pressures detailed below:

TUBES OD mm	6, 8, 10.2	12, 13.5, 16, 17.2, 18, 20, 21.3, 22, 25	26.9, 28, 30, 33.7, 38	42.4, 48.3, 60.3
TUBES inch BS	1/8"	1/4", 3/8", 1/2"	3/4", 1"	1-1/4", 1-1/2", 2"
STATIC PRESSURE	200 bars	100 bars	80 bars	40 bars