FLUID CONTROLS®

PRE-FABRICATED INSTRUMENTATION HOOK-UPS





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.



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)**.



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.
Fluid Controls® Pre-Fabricated Instrument Hook-ups are approved by engineers India Limited



APPROVALS

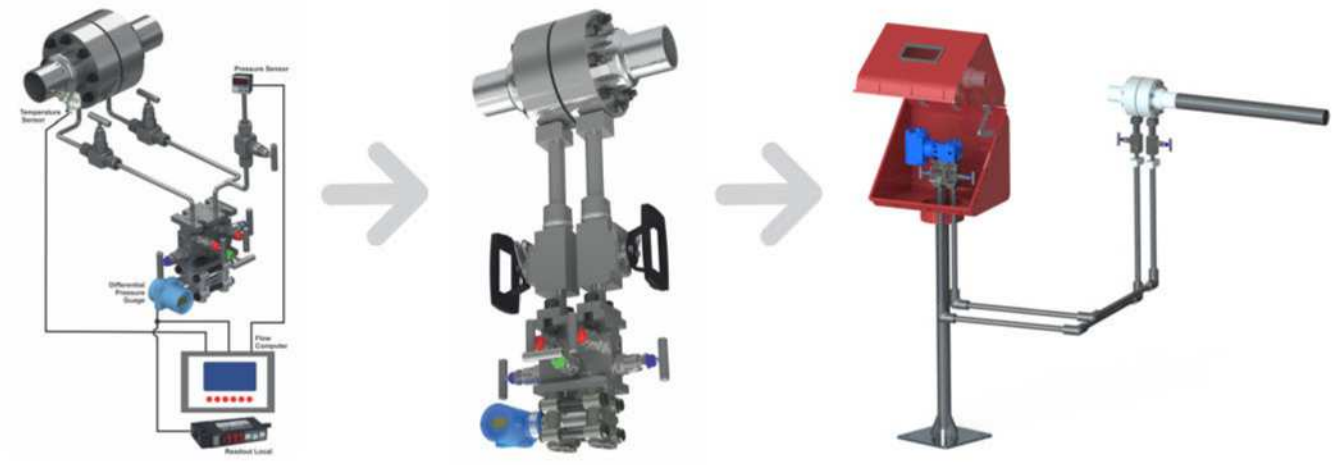
Fluid Controls® is approved by all major OEM's such as BPCL, EIL, GAIL, HPCL, IOCL, NPCIL, NTPC, ONGC (on-Shore and off-shore) & SAIL.

FLUID CONTROLS PRE-FABRICATED INSTRUMENTATION HOOK-UPS

APPROVED BY ENGINEERS INDIA LIMITED

Instrument Hook-Ups are a convenient way of eliminating impulse piping by using sandwich construction valves. The valves have an isolating block attached to a manifold on which the transmitter/ instrument is mounted. The design of the sandwich valves allows for removal with adequate isolation protection of the instrument / gauge with or without the manifold. The flange type construction for connection to the orifice flange assembly for differential pressure instruments and the flange assembly for pressure instruments makes for convenient assembly at site.

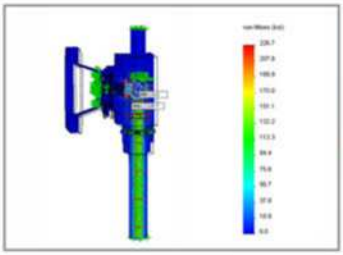
PARTNERING WITH YOU FROM CONCEPT TO COMMISSIONING



Conventional System

Fluid Controls® Hookup System

Instrument Hookups from Fluid Controls® are custom designed to our clients needs and are available with different end connections and materials to suit site conditions. Fluid Controls® offers clients a complete hookup solution including specially designed enclosures and other accessories required for site installation.



TOTAL DESIGN SOLUTIONS
- Custom designed hook-ups
- 3D modelling
- PDS / PDMS files for easy integration
- FEA / Simulation analysis if required



SUPPLY OF HOOKUPS
- In-house manufacture
- Testing of each hookup
- Complete component traceability
- Fluid Controls® Guarantee



PROVISION OF ACCESSORIES
- Locking provision
- Housing arrangements
- Mounting brackets
- Clamping equipment



SITE SUPPORT
- Support at site installation if needed

INSTRUMENT HOOKUPS : RANGE

Pre-Fabricated Instrument Hook-Ups can be used for mounting differential pressure flow transmitters, pressure gauges and pressure instruments.

Pre-Fabricated Instrument Hook-Ups from Fluid Controls® are custom designed to our clients needs and are available with different end connections and materials to suit site conditions.

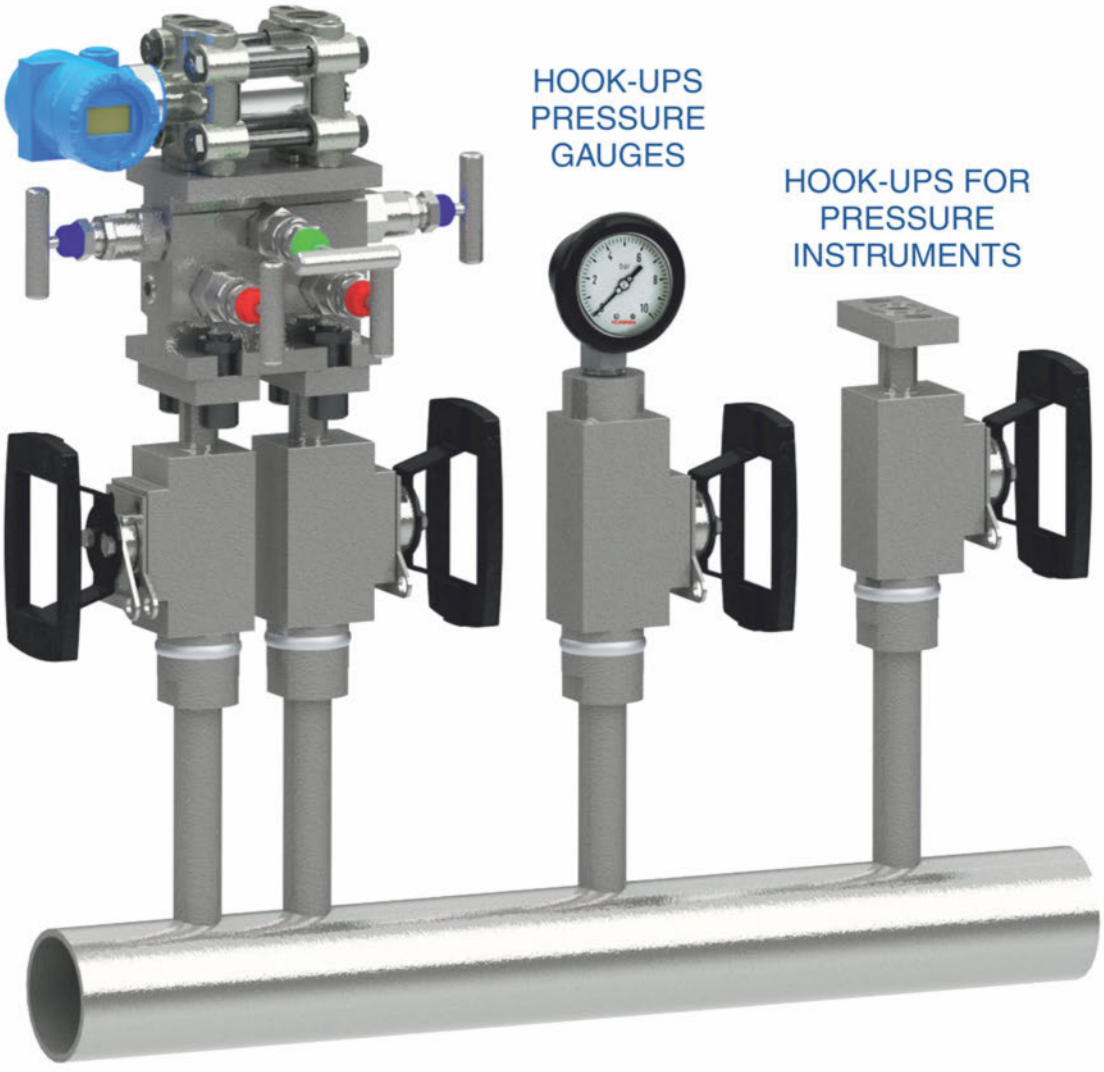
Fluid Controls® offers Pre-Fabricated Instrument Hook-Ups for differential pressure transmitters, pressure gauges values and pressure transmitters with options such as root valves, monoflange valves, double block and bleed valves.

Fluid Controls® also offers services for design and supply for prefabricated close coupled instrument hookups.

HOOK-UPS
DIFFERENTIAL PRESSURE
FLOW TRANSMITTERS

HOOK-UPS
PRESSURE
GAUGES

HOOK-UPS FOR
PRESSURE
INSTRUMENTS



INSTRUMENT HOOKUPS FOR DIFFERENTIAL PRESSURE FLOW TRANSMITTERS



'H' Type 5 Valve Manifold connected to orifice plate with an option of two types of valves

1) Isolation Ball Valve - One end Instrument flange - connected to 5 valve process side, Second end depends on Orifice plate assembly - connected to Orifice plate

OR

2) Isolation Needle Valve - One end Instrument flange - connected to 5 valve process side, Second end depends on Orifice plate assembly - connected to Orifice plate

Temperature	:	Up to 540°C (1004°F)
Pressure	:	6000 PSIG (PN 400)
Gland Packing Material	:	Up to 180°C - PTFE, Above 180°C to 540°C - Graphoil with inconel inhibitor
Material	:	As per customer requirement

NOTE: The close coupled instrument hookups shown are those that have been manufactured and supplied by Hyd-Air®, Each client has their own specific requirements based on site conditions, and each Fluid Controls® close -coupled instrument hookup is custom designed using 2D and 3D modeling techniques.



VHU-FT-8PE/5H

Hook-Up Flow Transmitter with
½" Plain X Inst. Isolation Ball
Valve With Five Valve Manifold



5VHU-DT-EL-GPHL

Hook-Up Flow Transmitter with
½" NPT(M) X Five Valve Manifold
Extra Long Nipple Graphoil Seal

INSTRUMENT HOOK-UPS FOR PRESSURE GAUGES



Pressure Gauge Hook-Up assembly consisting of a Multiport Isolation Ball Valve or Multiport Isolation Needle Valve

Temperature	:	Up to 540°C (1004°F)
Pressure	:	6000 PSIG (PN 400)
Gland Packing Material	:	Up to 180°C - PTFE, Above 180°C to 540°C - Graphoil with inconel inhibitor
Material	:	As per customer requirement

NOTE: The close coupled instrument hookups shown are those that have been manufactured and supplied by Hyd-Air®, Each client has their own specific requirements based on site conditions, and each Fluid Controls® close -coupled instrument hookup is custom designed using 2D and 3D modeling techniques.



VHU-PG-12PE/8FN
Hook-Up pressure guage with 3/4" Plain X 1/2"NPT(F) end



VHU-PG-24F3/8FN
Hook-Up pressure guage with 1-1/2" flange 300# X 1/2" NPT(F) end



VHU-PG-24F3/8FN-EL-GPHL
Hook-Up pressure gauge with 1-1/2" flange 300# connected with SW coupling X 1/2"NPT(F) end graphoil seal



VHU-PG-24F3/8FN-GPHL
Hook-Up pressure gauge with 1-1/2" flange 300# X 1/2"NPT(F) end graphoil seal



2VHU-CG-GPHL
Hook-Up pressure guage with 3/4" NPT(M) X ½ "NPT(F) end graphoil seal



VHU-PG-12PE/8FN-GPHL
Hook-Up pressure gauge with 3/4" Plain X 1/2" NPT(F) end graphoil seal



VHU-PG-12PE/8FN
Hook-Up pressure gauge with 3/4" NB PE SCH 80X 1/2"NPT(F) end

INSTRUMENT HOOK-UPS FOR PRESSURE INSTRUMENTS



Pressure Instrument Hook-Up assembly consisting of a Multiport Isolation Ball Valve or Multiport Isolation Needle Valve

Temperature	:	Up to 540°C (1004°F)
Pressure	:	6000 PSIG (PN 400)
Gland Packing Material	:	Up to 180°C - PTFE, Above 180°C to 540°C - Graphoil with inconel inhibitor
Material	:	As per customer requirement

NOTE: The close coupled instrument hookups shown are those that have been manufactured and supplied by Hyd-Air®, Each client has their own specific requirements based on site conditions, and each Fluid Controls® close -coupled instrument hookup is custom designed using 2D and 3D modeling techniques.



VHUPT-24F6/8MN-GPHL

Hook-Up flow transmitter with ½" Plain X Inst. isolation ball valve with five valve manifold



VHU-PT-24F6/8MN

Hook-Up pressure transmitter with 1-1/2" flange 600# X 1/2"NPT(M) end



2VHU-AT-GPHL

Hook-Up pressure transmitter with 3/4" flange 150# X instrument oval flange graphoil seal



2VHU-CT-GPHL

Hook-Up pressure transmitter with 3/4" NPT(M) X instrument oval flange graphoil seal



2VHU-BT-GPHL

Hook-Up pressure transmitter with 3/4" plane X instrument ovel flange graphoil seal



2VHU-BT

Hook-Up pressure transmitter with 3/4" Plain X instrument flange



VHU-PT-12PE/8MN-GPHL

Hook-Up pressure transmitter with 3/4" NB PE SCH 80 X 1/2"NPT(M) end graphoil seal

FLUID CONTROLS PRIVATE LIMITED

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FLUID CONTROLS



HYD-AIR



FC-MN-HU-02-bk