



**A TECHNOLOGY BASED COMPANY ACTIVE IN PROVIDING
PORT TO PORT SOLUTIONS IN FLUID & GAS POWER**

www.hssindia.in

INTRODUCTION TO HSS

At its inception in 2014, Hydraulic Sealing Solutions sought only to provide local technical expertise in the application of fluid power components. Over the years, this has grown to include complete system integration, manufacturing, and support for the energy, industrial, power generation, and construction markets.

HSS manufactures a wide range of Manifolds, High Pressure Manifolds, Adaptors, Flanges, and Hose End Fittings, from low to ultra high pressure range and compatible to high temperature, aggressive fluids in single/double wire braided and multi-spiral hoses. Our components conform to BCS, SAE, ISO, DIN/EN and other international standards.

All our products meet highest industrial norms and standards. Over a period of time, we have built up a lot of goodwill and reputation. Customer satisfaction is our prime motive so we always strive for timely Delivery and efficient service.

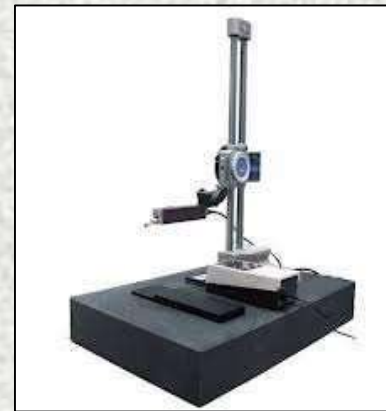
We distinguish ourselves from other Hose assemblies and End fitting manufacturers by offering products that have genuine quality, are reliable, flexible and durable, and stringently comply with high international quality parameters. Moreover, we have a state-of-the-art infrastructure and efficient team that aids us providing finest quality products and make prompt Deliveries

We dedicate ourselves to serve the customer to their satisfaction and assure our utmost consideration at all time

HSS PLANT & MACHINERY



**CNC TURNING CENTERS
DRILLING SPM
SINGLE SPINDLE AUTOMATS
CHAMFERING MACHINE
CONVENTIONAL LATHES
NUT CRIMPING MACHINE
UNIFLEX HOSE CRIMPER
PRESSURE TESTING MACHINE
HEIGHT GAUGE
DIGITAL VC
PROFILE PROJECTOR
DIGITAL MICROMETER
THREAD RING GAUGE
THREAD PLUG GAUGE
BORE GAUGE
ID PIN GAUGE
CNC BENDING MACHINE
HARDNESS TESTER**



HIGH PRESSURE MANIFOLDS

1. Hydraulic Manifold

HSS manufactures hydraulic manifold blocks for industry and mobile applications. They are used for industry hydraulics, truck hydraulics, mobile hydraulics, hydraulic power units and many more applications. The manifold blocks, in steel or aluminium design, offer maximum functionality in a very small space.



2. High Pressure Manifold

A CNG filling manifold is a unit that can be installed in vehicles and CNG systems to fill them with compressed natural gas (CNG). CNG manifolds can include a variety of high-pressure components, such as:

- Manifold block
- Receptacle
- High-pressure gauge
- Filter
- Automatic shut-off valve
- Fittings
- Manual shut-off valve
- Micro switch for starter cut-off
- Pressure sensor



ADAPTORS

Hydraulic adaptors are parts used to connect hoses, pipes, and tubes in hydraulic systems. Hydraulic equipment generally operates under high pressures and is often not a fixed system. Consequently, adaptors need to be strong, versatile, and reliable to operate safely and effectively in their respective applications.

Our extensive range of adaptors includes different variations of JIC, SAE, Metric, BSP, BSPT, NPTF and NPSM made from mild steel, stainless steel & Brass. Adaptors are made to International Standards- BS5200, ISO 8343-2, ISO 8343-3, DIN 2353

We specialize in not just one type of product - we have the flexibility to produce special requirements alongside our standard product ranges. This diversity of ranges and sizes, combined with our unparalleled customer service and technical assistance, gives HSS a distinct advantage over other suppliers.



HOSE END FITTINGS FOR WIRE BRAID

HOSES

Selecting the right hose and fittings combination usually belongs to the last steps in the design of a hydraulic system and its importance is often overlooked and underestimated. The right hose and fitting combination is however, vital for the overall functionality and long term service life of the complete system. HSS end fittings are manufactured as per international standards and single piece configuration in NON-SKIVE style .Same fitting is compatible with R1 & R2 hoses. Complete range available as per below standard

BSP

DIN METRIC

SAE ORFS

JIC

JIS

KOMATSU

CAT



HOSE END FITTINGS FOR SPIRAL HOSES

Fittings are designed for mounting on to hydraulic hose. The fitting must be compatible to the hose in order to withstand the rigors encountered in extreme working conditions. HSS End Fittings are manufactured from different materials namely -

- Carbon Steel
- Stainless Steel
- Brass
- Other Material

Fittings made from normal Carbon Steel are the most common and are Cr-VI free electro zinc plated for protection against corrosion and finished with clear passivation. HSS end fittings are manufactured as per international standards and two piece configuration in NON-SKIVE style .Complete range available as per below standard

BSP , DIN METRIC , SAE ORFS , JIC , JIS , KOMATSU , CAT



TUBE FITTINGS

We are renowned for manufacturing wide range of Hydraulic Fittings as per National and International Standards (DIN 2353). These fittings are widely appreciated for their low maintenance, excellent durability, high performance, corrosion resistance, dimensional accuracy and cost effectiveness. Our diverse range includes Hydraulic Equal Elbows, Hydraulic Equal Tees, Hydraulic Swivel Couplings, Single Ferrule Hydraulic Fittings and Hydraulic BSP Swivel Tees. In addition to this, we also offer, Hydraulic BSP Swivel Elbows, Hydraulic BSP Male Tees, Hydraulic BSP Male Elbows and Hydraulic BSP/UNF Adapters

We specialize in not just one type of product - we have the flexibility to produce special requirements alongside our standard product ranges. This diversity of ranges and sizes, combined with our unparalleled customer service and technical assistance, gives HSS a distinct advantage over other suppliers.



HOSE ASSEMBLIES

Hydraulic hose assemblies are used to transmit forces by means of oil pressure, and consist of flexible hydraulic hoses to which fittings are attached at either end to ensure safe, interlocking connections.

The correct choice of a hose assembly is influenced by many factors, particularly dynamic working pressure, resistance to media handled, operating temperature - both of the medium and of the surroundings.

HSS manufactures a wide range of hose assemblies with wire braid, Teflon, PTFE , concrete hoses, industrial hoses, Thermoplastic Hose and spiral hoses with standard and customized end connections. Hose assemblies are available from 3/16" to 8" hose sizes.

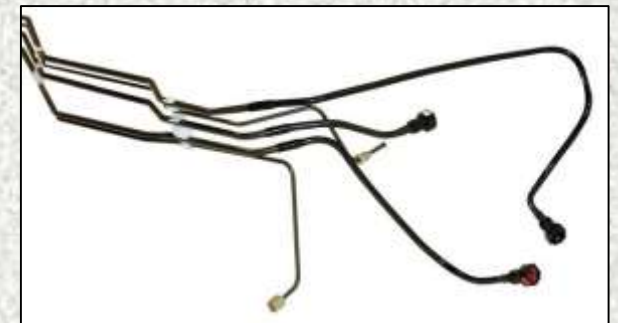
Hose assemblies are made in standard length as well as to customer specific drawings.



FUEL LINE ASSEMBLIES AND CONNECTORS

HSS designs and builds flexible fuel lines to meet each unique product application and environment. Considering the volatile nature of most fuels, sound design and construction of components and systems by reliable, experienced professionals is essential to safe, trouble-free operation.

Flexible fuel lines utilize specially compounded hose to safely function with certain fuel types and blends as well as LPG and Natural Gas. Assemblies can consist of flexible hose with end fittings or a combination “hybrid” assembly of flexible hose coupled with a section of bent and end-formed hard tubing. Hard lines are also an option in many fuel applications. HSS will help design fuel lines from components best suited for each unique application and condition.



SPIRAL SLEEVES & SPRING GAURD

Rust resistant, zinc plated open wound spring guards prolong the life of the hose cover and reinforcement from abrasion, kinking and other damage incurred in severe working areas. Open wound spring guards are available for all types and sizes of hoses

Widely used in excavators, loaders, road rollers, pavers, forklifts, cranes, dump trucks and other construction machinery and injection moulding machine equipment. Mainly installed in the hydraulic hose, wire and cable products external. Its function is to enhance the hydraulic hose external wear resistance in a variety of harsh environments and extend the life of hose assembly.

Standard length of spring guards are available for hoses from 3/16" to 2" size. we have the flexibility to produce special requirements alongside our standard product ranges.



TEST POINT FITTINGS & HOSES

The need for preventative maintenance of hydraulic systems in general has added to the use of test points throughout the system. This need is answered by the installation of a range of test points, plugs and probes, which can be connected under full system pressure to 6000 psi. Where the introduction of test points is needed, and the hydraulic system uses flexible hydraulic hoses, HSS has full range of Stauff Test point fittings to suit the needs of customer.

STAUFF Test stands for a varied spectrum of screw-in test points and test couplings for tube fittings, which are oriented to international standards and therefore guaranteed to comply with the requirements of applications all over the world.



HOSE CLAMPS

Screw clamps consist of a galvanized or stainless steel band into which a screw thread pattern has been cut or pressed. One end of the band contains a captive screw. The clamp is put around the hose or tube to be connected, with the loose end being fed into a narrow space between the band and the captive screw. When the screw is turned, it acts as a worm drive pulling the threads of the band, causing the band to tighten around the hose (or when screwed the opposite direction, to loosen). Screw clamps are normally used for hoses 1/2 in diameter and up, with other clamps used for smaller hoses.

Standard hose clamps are available in sizes 1/2" to 6" hose. In SS202 and SS306 material. Heavy duty clamps are also available in different sizes.



MACHINED COMPONENTS FOR HYDRAULIC CYLINDERS

HSS manufactures quality components for hydraulic cylinder parts for Backhoe Loaders important for smooth and hassle free functioning of Earthmoving machines.

All the hydraulic cylinder products are machined on PLC controlled machines and made to highest quality standard.

HSS manufactures hydraulic cylinder products like

PISTONS

GLANDS

END CAPS

MALE/FEMALE THREADED PORTS

PIPES & BANJO'S

TRUNIONS

ROD EYE BOSES

BALL JOINT ENDS



BANJO FITTING , BANJO BOLT,DOWTY SEAL & COPPER WASHER

Backed by a team of experienced and qualified team members, we have been able to bring forth qualitative range of **Banjo Bodies and Bolts**. Manufactured using optimum quality iron, stainless steel and sophisticated technology, these are bolts are at par with the defined parameters of the industry. Further, these bolts are available in various sizes and shapes that fit almost any auto part or machinery.

We manufacture these Banjo bodies and banjo bolts to International standards IS,DIN,SAE J512



O-RINGS ,BONDED SEALS & O-RING KITS

HSS offers O-rings and O-ring kits in various sizes and material. O-rings are very important part of any hydraulic system and are responsible for leak free system functioning and performance.



HSS offers O-rings in different material like

NBR

VITON

HNBR

SLICONE

EPDM



HSS offers O-rings made to various international standards like BS ISO 3601,BS 1806,DIN 3771,SAE J515,SAE AS568



SAE FLANGES

We manufacture an array of SAE flanges and Hydraulic flanges which corresponds to relevant international standards. These flanges find application in industries where flanged joints are encountered during the tasks of fabrication & maintenance. Our wide array of SAE Flanges can also be customized as per the drawings and specifications provided by the clients.

Various types of flanges manufactured

SPLIT FLANGES

MONOBLOCK FLANGES

BUTT WELD FLANGES

SOCKET WELD FLANGES

THREADED FLANGES

BUTT WELD FLANGE ADAPTOR

THREADED FLANGE ADAPTORS



TUBE CLAMPS

HSS clamps are available in a wide range of sizes and materials. Polypropylene (PP) is used for standard clamps or Aluminum (AL) for special applications. Weld plates are phosphate coated. Stainless steel hardware is also available. All standard duty top plates and heavy duty sizes 1 to 4 top plates are zinc plated.

HSS clamps assure a simple, reliable dampening support for tubes, pipes, hoses, and conduits in industrial hydraulic systems, mobile hydraulic systems, process industries, and electrical construction. HSS clamps absorb shock, dampen vibration, and reduce noise in hydraulic systems. Tube clamps are designed as per DIN 3015



LIST OF FEW MAJOR CUSTOMERS

1.PLASSER INDIA PVT LTD

2.METSO INDIA PVT LTD

3.JBM AUTO LTD

4.ROBBINSON TUNNELING

5. J.K.FENNER (INDIA) LTD

6.GATES INDIA PVT LTD

7.POLYHOSE PVT LTD

8.GREENFUEL ENERGY SOLⁿ PVT LTD

9.COMPAC INDUSTRIES INDIA LTD

10.TGT FUEL TECHNOLOGIES LTD

- RAILWAYS

- CONSTRUCTION

- AUTOMOTIVE

- TBM MANUFACTURER

- HOSES

- HOSE MANUFACTURER

- HOSE MANUFACTURER

- AUTOMOTIVE

- CNG DISPENSER MANUFACTURER

- CNG DISPENSER MANUFACTURER

THANK YOU