



"SAFE PASSAGE FOR HYDRAULIC HOSES"

**HYDRAULICS PVT. LTD.**



HOUSE OF HYDRAULICS

**HIFLEX HYDRAULICS PVT. LTD.** is the Leading name in Manufactures of Flexible Hose Assemblies.

The wide product range includes Steam Hose Assemblies. Low and Hi Pressure Hydraulic Hose Assemblies, Adaptors and Variety of Fittings.

The Company, established long back in 1977, has today won the satisfaction of the Clientele spread over in the varied application Industries.

The Simple Secret is the quest for Excellence, Excellence in Quality. Excellence in Design And Excellence in Service.

The team of Technical Experts at **HIFLEX** takes enough pain to have in-depth study of real application. Products designed precisely, manufactured in stringent quality controls and tested throughly, finally get the **HIFLEX** Mark. The mark that assures products loaded with a weighted performance.

The Expertise coupled with more than 26 year Experience works finally, and so the products.

## QUALITY POLICY

We will provide Products & Services of the best standard to higher-up the expectation of the Customer.

Hardik Quality Philosophy is : "We do not compromise, because our Customers do not."

### QUALITY KEY FACTORS :

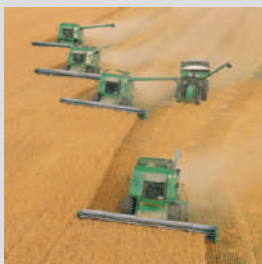
- ❖ Commitment to Dedication, Innovation, Technical Upgradation and Best Value for Money.

### WE COMMIT TO :

- ❖ Understand real application and Customer's expectation.
- ❖ Maintain Fully Integrated Quality Management System meeting the standards internationally accepted.
- ❖ Design the products most precisely to meet exact requirement and to perform the best, in cost effective manner.
- ❖ Adopt best manufacturing process well equipped with Technical capacities.

### QUALITY VALUES :

- ❖ Maintain business ethics to strengthen relationship.
- ❖ Creativity and teamwork in the workplace.
- ❖ Respect for our Customers, Suppliers, Employees and Community.





## HYDRAULIC HOSE PIPE & FITTINGS

High pressure hydraulics, steam hose for Industrial application, Stainless Steel Corrugated Hose, PTFE Teflon Hose, G.I. braided low Pressure Hose, all type of hydraulic Fittings & Special Application Fittings & Hoses.

Authorised Dealer of Parker.

## HARDIK

All type of BSP Fittings from M.S., S.S., & G.S. Materials like Adaptor, Reducer, Hex Plug, Hex Couplings, Male or Female Tee, Male or Female Elbow, Welding Adaptor, Male Female Swivel Elbow Up to 700kg/cm<sup>2</sup>, from 1/4" to 2" size.



## GEAR PUMP

Hydraulic Gear Pump High & Low pressure Single & Double & Triple Gear Pump From 1.2 LPM to 227 LPM @ 210BAR and 250 to 270 BAR

**Application :** For Industrial, Earthmoving & all type of Machine Tool Equipments.

## ELECTRO HYDRAULICS MOBILE VALVE & ALL TYPE OF HYDRAULIC CONTROL

High Pressure Solenoid Valves, Flow Control valves, Proportional Valves, Relief Valve, Variable Displacement Pumps, Axial Piston Pump, Hydro Motor, Mobile Control Valves for Industrial Earthmoving Machine Tools Application.



## POLYHYDRON

Hydraulic Hand Pump hand operated Radial Piston Pump, Flow Control, Check Valves, Modular Valve, Hand Lever Direction Control Valves, Electrical Operated Direction Control Valves & Pressure Reducing & sequence Valves & All type of Accessories for Power units.



## HYDROLINE

All type of Filtration Components Related to Power Units & Machines like High Pressure Filters, Return Line Filters, Suction Strainers, Level Gauge, Temperature Gauge, Tank Cleaners Etc..

## PRESSURE GAUGES & TEST POINT HOSE

Micro pressure Gauge & Imported test Hose with Test Point Connector High & Low Pressure Glycine filled Pressure Gauge in Different Range like 2.1/2" Dial & 4" Dial, 6" Dial with Panel Mounting Back & Bottom ..... Mounted Pressure Gauge From 0 to 1000kg/cm<sup>2</sup>, Pressure with calibration Certificate. Minimize Hose for line pressure Testing.



## FERRULE FITTINGS

All type of tube fittings with Ferrule OR Weld Nipple Equal Elbow, Equal Tee, Male Stud Coupling, Male Stud Elbow, Swivel Banjo, Swivel Elbow, Weld Coupling, Gauge Coupling, Run Tee, Branch Tee, Socket Head Plug, with ED seal or without ED seal up to 700Bar from 6MM to 42MM





## HYDRAULIC PIPING ACCESSORIES

All type of Accessories for M.S. Piping & Machine Tools Equipments like pipe Clamps, Copper washer, Dowty seal & seamless Tube in various Size, Seamless Pipe from 6mm to 42mm, Dowty seal & copper washer up to 1/8" to 2" in standard size.

## ASSESORIES FOR SYSTEM & GENERAL PURPOSE

Flow Control Valves, Ball Valves, Quick Relies Coupling, Gauge Isolator Valves, Shut off Valves, Needle Valves in BSP & NPT Thread from 1/4" to 2"



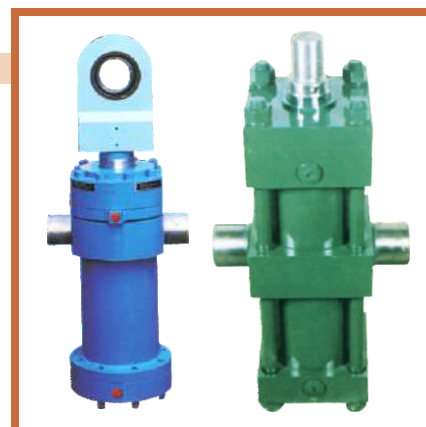
## SAE FLANGES.

All type of mounting flange for Pumps, Single & Two pieces in high pressure & low pressure as per SAE Standard.

## HYDRAULIC CYLINDERS FOR INDUSTRIAL APPLICATIONS.

We are manufacturing Cylinders as per the customer specification & ISO 2060/6022 Standards. This included long stroke cylinders for materials handling equipments, Tyrod & Claris mounted single & double acting cylinders.

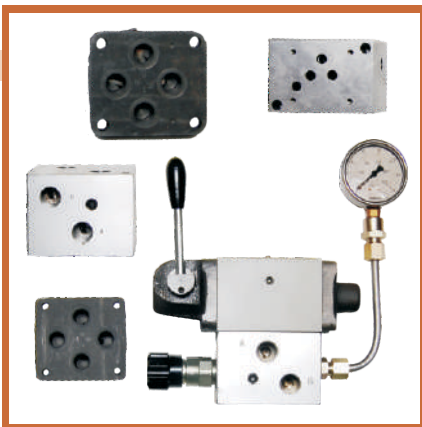
Bore 25 to 500mm (1 inch to 20 inch) Working Pressure : 500kg./Cm2  
Stroke up to 5000mm (200 inch) Fluid : Oil & Water





## HYDRAULIC POWER PACK

Hydraulic Power units we manufacturing as per customers requirements as well as for all General & Special purpose requirements.



## MANIFOLD BLOCK & SUB PLATE

Manifold Blocks as per customer requirement & standard block also. Base plate for all type of Direction Control valves & Flow control valves.

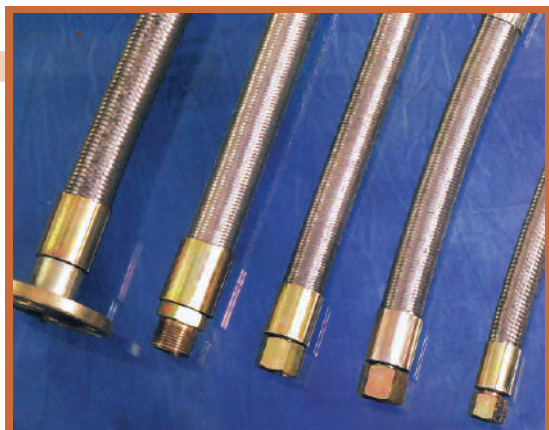
## BELL HOUSING & GEAR COUPLINGS.

From 0.5hp to 40hp Motor, Bell Housing & "L" type bracket for Gear Pump, Radial Piston Pump & Vane Pump with Gear Coupling & Bolt Kit.



## INDUSTRIAL HOSES DIFFERENT TYPE OF INDUSTRIAL HOSE

Heavy Duty Air / Water Hoses, Hot Water Hoses, Premium Welding Hoses, Rockdrill / Pneumatic Hoses, Superspray / Car Washing Hoses, Petrol / Oil Hoses, Mud and Sandblasting Hoses, Cement & Concrete Hoses, Steam Hoses, Acid Solvent and Chemical Hoses, Food & Beverage Hoses, Hydraulic Hoses, Various Hoses, Dunloflex PVC Hoses.



## STAINLESS STEEL WIRE BRAIDED RUBBER STEAM HOSE

**Application :** Steam at high Temperature  
**Tube :** EPDM Synthetic Seamless Tube  
**Reinforcement :** One High Tensile Steel wire braided  
**Cover :** Oil and abrasion resistant synthetic rubber with over S.S. 304 wire braided  
**Temp. Range :** up to 205° C

Hose I.D.		Maximum Working Pressure		Minimum Burst Pressure	
INCH	MM	PSI	BAR	PSI	BAR
3/8"	9.5	232	16	2320	160
1/2"	12.7	232	16	2320	160
3/4"	19.0	232	16	2320	160
1"	25.4	232	16	2320	160
1.1/4"	31.8	232	16	2320	160
1.1/2"	38.1	232	16	2320	160
2"	50.8	232	16	2320	160

### End Fittings :

Above hoses are available with standard BSP Male/Female or flange fittings made from M.S., S.S. or G.M. materials.

## PTFE TEFLON HOSE

**Application :** Steam, Chemicals, Solvents etc.  
**Tube :** Smooth Inside core in PTFE or extruded white teflon.  
**Reinforcement / Cover :** One braid in stainless steel AISI - 304 wire  
**Temp. Range :** -60° C + 260° C



Hose I.D.		Maximum Working Pressure		Minimum Burst Pressure	
INCH	MM	PSI	BAR	PSI	BAR
3/16"	4.8	3000	200	6000	400
1/4"	6.4	3000	200	6000	400
5/16"	7.9	3000	200	6000	400
3/8"	9.5	2500	160	5000	320
1/2"	12.7	2000	135	4000	270
5/8"	15.9	1500	100	3000	200
3/4"	19.0	1200	80	2400	160
1"	25.4	1000	67	2000	133

### End Fittings :

Above hoses are available with standard BSP Male/Female or flange fittings made from M.S., S.S. or G.M. materials.



## STAINLESS STEEL CORRUGATED FLEXIBLE HOSES

A full range of metallic flexible hoses & hose assemblies are manufactured in austenitic steel are AISI 304, 321, 316 L conforming to international quality standards.

### ADVANTAGES OF FLEXIBLE METAL HOSES

- ✦ Suitable for wide temperature range (-200°C to +700°C)
- ✦ Compensates for thermal expansion contraction in the piping system
- ✦ High physical strength
- ✦ Fire resistant, Longer life, Moisture resistant
- ✦ Good corrosion characteristics
- ✦ Resistant to abrasion, penetration and damage
- ✦ Connects misaligned rigid piping absorbs or dampens vibration and similar equipments.
- ✦ A flexible and quick option for rigid piping in difficult locations.

### QUALITY CONTROL

Every single hose assembly is tested hydraulically at 1.5 times working pressure before despatch. Pneumatic testing is also carried out whenever necessary. All raw material used to manufacture of hoses, braiding and end connection undergo rigid inspection to ensure highest quality standards.



### HOSE

Stainless steel corrugated flexible hoses are made from 6mm (1/4") to 300mm (12") in side diameter. The annular corrugated hose body provides the flexibility and pressure tight core of the assembly. Braiding in high tensile stainless steel AISI 304 wire.

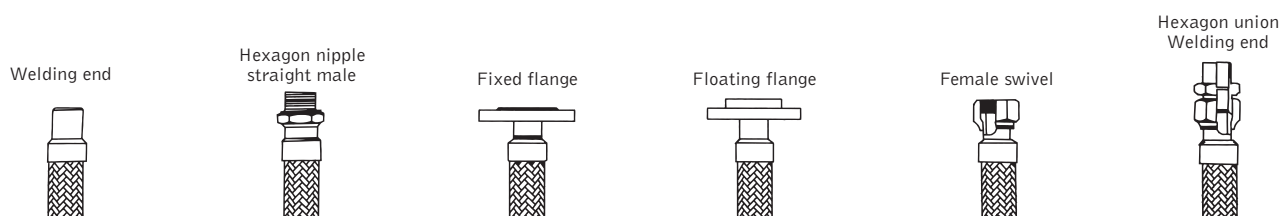
### MODES OF MOVEMENTS

**STATIC INSTALLATIONS :** Where the flexible hose is used to connect misaligned pipes and remain in static position.

**OCCASIONAL FLEXING :** Where the hose is required to flex occasionally, such as manually operated equipment.

**CONSTANT FLEXING :** When the hose is required to flex continuously, usually in moving machinery.

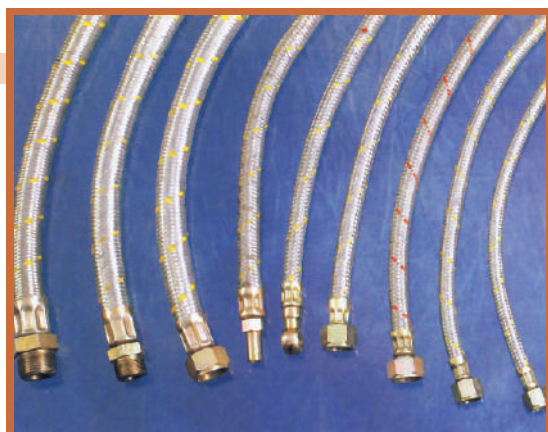
**VIBRATION :** High frequency, low amplitude movement e.g. On a compressor.



### TECHNICAL DATA

NORMAL BORE N.B.  mm	MINIMUM BEND RADIUS		WITHOUT BRAID		SINGLE BRAID		DOUBLE BRAID	
	STATIC	FLEXING	MAX Working Pressure Kg/cm2	TEST Pressure Kg/cm2	MAX Working Pressure Kg/cm2	TEST Pressure Kg/cm2	MAX Working Pressure Kg/cm2	TEST Pressure Kg/cm2
6	25	100	4	6	100	150	160	240
10	40	150	4	6	90	135	144	216
12	50	200	3	4.5	80	120	128	192
16	50	200	3	4.5	70	105	112	168
20	70	200	2	3	64	96	102	153
25	90	200	2	3	50	75	80	120
32	110	250	1.5	2.3	40	60	64	96
40	130	250	1.5	2.3	30	45	48	72
50	175	350	1.0	1.5	28	42	44	66
65	200	410	1.0	1.5	24	36	38	57
80	205	450	1.0	1.5	18	27	28	42
100	230	560	0.8	1.2	16	24	26	39
125	280	660	0.6	0.9	12	18	20	30
150	320	815	0.6	0.9	10	15	16	24
200	435	1015	0.5	0.75	8	12	12	18





## LOW PRESSURE 'LP' HOSE

- Type :** 'S'
- Tube :** Extruded rubber tubing resistant to effect petroleum based fuel and Lubricants
- Cover :** Outer cover metallic GI braided
- Identification :** Yellow Vestan band
- Temp. Range :** 40° C + 90° C
- Type :** GC/VA  
This is similar to type 'S' but further strengthened by Vulcanized Rayon Braided between rubber tubing and outer metal braiding
- Identification :** Red Vestan Band

HOSE TYPE	HOSE WITH BSP FITTING									
		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
'S'	W.P.	498	427	356	284	213	213	213	213	150
GC / VA	W.P.	853	782	711	640	427	400	356	356	300
		PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI

### Standard Length :

Type 'S' & GC / VA hose available in length of 250, 300, 400, 500, 600, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 3000, 4000 & 5000 mm ex-stock. Required length can be made.

## ACCESSOIEIRS

All the accessories are available in BSP / METRIC / JIC threads made from Mild Steel, Brass or Stainless Steel materials.





## HYDRAULIC HIGH PRESSURE HOSES

HYDRAULIC HOSE FOR INDUSTRIAL  
& EARTH MOVING APPLICATION

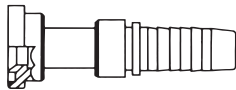


Maximum Working Pressure of Hoses

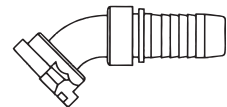
HOSE I/D	R-1		R-2		SUPER		4-SP		4-SH		R-13		R-15		R-3		R-6	
INCH	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI
1/4"	225	3265	400	5800											86	1250	28	400
5/16"	215	3120	350	5100											83	1200	28	400
3/8"	180	2610	330	4800	350	5080	445	6460							78	1125	28	400
1/2"	160	2320	276	4000	345	5005	415	2020							69	1000	28	400
5/8"	130	1890	250	3600	300	4350	350	5075							60	875	24	350
2/4"	105	1525	215	3100	265	3845	350	5075	420	6100	350	5000	414	6000	52	750	21	300
1"	88	1275	165	2400	210	3045	280	4060	380	5515	350	5000	414	6000	39	565	13	190
1.1/4"	63	915	125	1800	155	2250	210	3045	325	4720	350	5000	414	6000	26	375		
1.1/2"	50	725	90	1300			185	2685	290	4210	350	5000	414	6000	17	250		
2"	40	58	80	1160			165	2395	250	3625	350	5000			15	215		

\*The Burst Pressure is 4 times the Maximum Working Pressure.

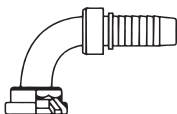
## SAE TYPE FLANGES FITTING IN HIGH & LOW PRESSURE



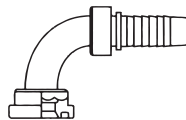
SAE 3000 PSI  
(CODE - 61)



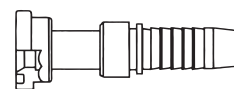
SAE 3000 PSI  
(CODE - 61) 45° ELBOW



SAE 3000 PSI  
(CODE - 61) 90° ELBOW

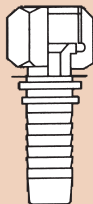
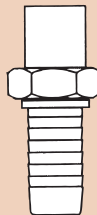
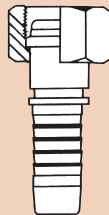



SAE 6000 PSI  
(CODE - 62) 90° ELBOW



SAE 6000 PSI  
(CODE - 62)

# HOSE FITTINGS

HOSE SIZE						
I.D.	DN	BSP-FEMALE	METRIC-FEMALE WITH 'O' RING	FERRULE FTG TUBE OD	STAND PIPE	UNF-FEMALE
1/4"	6	1/8" -BSP-28 TPI 1/4" -BSP-19 TPI 3/8" -BSP-19 TPI 1/2" -BSP-14 TPI	M12 X 1.5 M14 X 1.5 M16 X 1.5 M18 X 1.5	6-L 8-L OR 6-H 10-L OR 8-H 12-L OR 10-H	6 OD X 20 L 8 OD X 22 L 10 OD X 24 L 12 OD X 25 L	7/16" - 20 UNF 1/2" - 18 UNF 9/16" - 18 UNF -
5/16"	8	3/8" -BSP-19 TPI 1/2" -BSP-14 TPI -	M16 X 1.5 M18 X 1.5 M20 X 1.5	10-L OR 8-H 12-L OR 10-H 12-H	10 OD X 24 L 12 OD X 25 L -	9/16" - 18 UNF 5/8" - 18 UNF 3/4" - 16 UNF
3/8"	10	3/8" -BSP-19 TPI 1/2" -BSP-14 TPI -	M18 X 1.5 M20 X 1.5 M22 X 1.5	12-L OR 10-H 12-H 14-H	10 OD X 24 L 12 OD X 25 L 14 OD X 25 L	9/16" - 18 UNF 5/8" - 18 UNF 3/4" - 16 UNF
1/2"	12	1/2" -BSP-14 TPI 5/8" -BSP-14 TPI 3/4" -BSP-14 TPI	M22 X 1.5 M24 X 1.5 M26 X 1.5	15-L 16-H 18-L	15 OD X 25 L 16 OD X 30 L 18 OD X 25 L	3/4" - 16 UNF 7/8" - 14 UNF -
5/8"	16	5/8" -BSP-14 TPI 3/4" -BSP-14 TPI 1" -BSP-11 TPI	M24 X 1.5 M26 X 1.5 M30 X 2.0	16-H 18-L 20-H	16 OD X 30 L 18 OD X 25 L 20 OD X 32 L	- - 1.1/16" - 12 UNF
3/4"	19/20	3/4" -BSP-14 TPI 1" -BSP-11 TPI 1.1/4" -BSP-11 TPI	M30 X 2.0 M36 X 2.0	20-H OR 22-L 25-H -	20 OD X 32 L 22 OD X 25 L 25 OD X 34 L	- 1.1/16" - 12 UNF 1.5/16" - 12 UNF
1"	25	1" -BSP-11 TPI 1.1/4" -BSP-11 TPI 1.1/2" -BSP-11 TPI	M36 X 2.0 M36 X 2.0 M42 X 2.0	25-H 28-L 30-H	25 OD X 34 L 28 OD X 25 L 30 OD X 36 L	1.5/16" - 12 UNF 1.5/8" - 12 UNF -
1.1/4"	32	1.1/4" -BSP-11 TPI 1.1/2" -BSP-11 TPI 2" -BSP-11 TPI	M45 X 2.0 M52 X 2.0 M52 X 2.0	30-L 38-H 42-L	35 OD X 30 L 38 OD X 38 L 42 OD X 36 L	1.5/8" - 12 UNF 1.7/8" - 12 UNF -
1.1/2"	38/40	1.1/2" -BSP-11 TPI 2" -BSP-11 TPI	M52 X 2.0 M52 X 2.0	38-H 42-L	38 OD X 38 L 42 OD X 36 L	1.7/8" - 12 UNF 2.1/2" - 12 UNF
2"	50/51	2" -BSP-11 TPI 2.1/2" -BSP-11 TPI	>RE-USABLE L - LIGHT SERIES H - HEAVY SERIES			



## **HI FLEX** HYDRAULICS PVT. LTD.

### **: MARKETING OFFICE :**

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