



# HINDUSTAN HYDRAULICS & PNEUMATICS

No. 325 (Old 158) Linghi Chetty Street, (Opp. Ambika Lodge) Near Parris Corner, Chennai - 600 001

Phone : 2534 3066, 2534 5625, 2534 5587 Fax : 044-2534 5587

E-mail : hhp@airtelmail.in / hindustanhydraulic@yahoo.co.in Web : www.hindustanhydraulic.com

Contact Person : V. Anandha Krishnan - 98409 21885

## Product Range

### HOSES

Hydraulic, L.P. PVC, Steam, Rubber, SS & Teflon

### HYDRAULICS

DC Valves, Cylinders, Power Pack & Accessories

### PNEUMATICS

Cylinders, Solenoid Valves, FRL, PU & Nylon Tubes & Fittings.

### INSTRUMENTATION

Gauges, Switches, Transmitters, Level & Flow Switches.

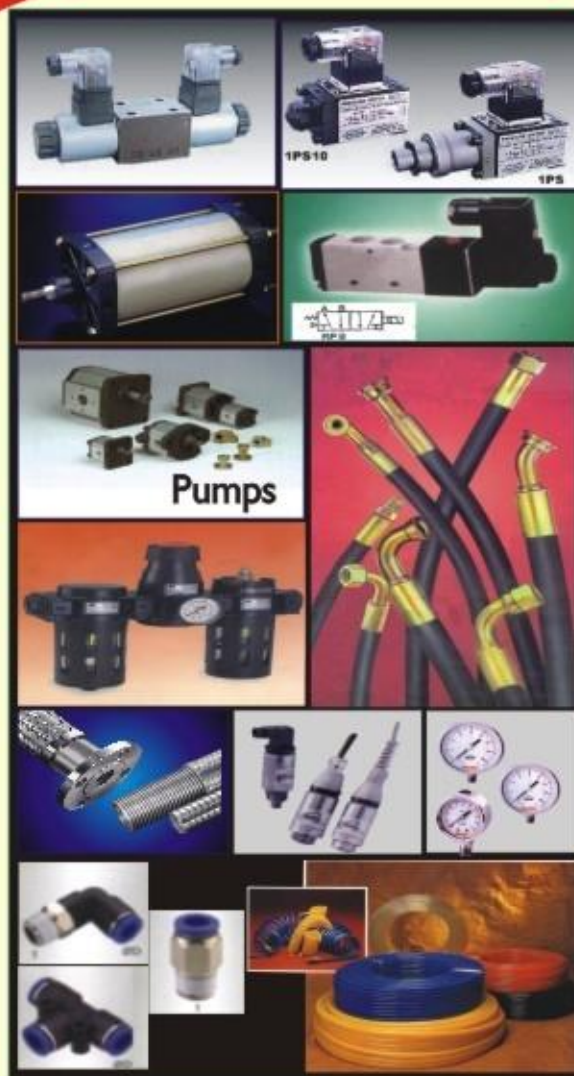
### VALVES & ACTUATORS

Solenoid Valves, Pneumatic Actuators, Y Type Control Valves Ball Valves, Gate Valves, Globe Valves & Strainers.

### PIPES & FITTINGS

Brass, SS, Hydraulic tube Compression Fittings, All type of pipes & Fittings.

## HINDUSTAN HYDRAULICS



## & PNEUMATICS

**Super Seal**  
HYDRAULIC HOSES

**COSMOFLEX**  
PVC HOSES

**VAC**<sup>TM</sup>  
PNEUMATIC

**Airmax**  
PNEUMATIC PRODUCTS

**FLOCON**

**WAREE**  
INSTRUMENTATION SOLUTIONS...

**polyhydron**

**YUKEN**  
HYDRAULICS

**Rexroth**  
Bosch Group

**hydroline**  
Products



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## HIGH PRESSURE HYDRAULIC / SPIRAL HOSES



### SAE 100 R1 AT / DIN-EN 853 1 SN STEEL WIRE BRAIDED HYDRAULIC HOSE

ID		OD	WP		BP		BR
Inch	mm	mm	BAR	PSI	BAR	PSI	mm
3/16	4.8	11.8	250	3625	1000	14500	90
1/4	6.4	13.4	225	3263	900	13050	100
5/16	8	15	215	3118	850	12325	115
3/8	9.5	17.4	180	2610	720	10440	130
1/2	12.7	20.6	160	2320	640	9280	180
5/8	16	23.7	130	1885	520	7540	200
3/4	19	27.7	105	1523	420	6090	240
1	25.4	35.6	88	1276	350	5075	300
1.1/4	31.8	43.5	63	914	250	3625	420
1.1/2	38.1	50.6	50	725	200	2900	500
2	50.8	66.7	40	580	160	2320	630

-40°C / +120°C  
-40°F / +232°F

(+125°C Intermittent)

NORMS : SAE J 517 100 R1 AT  
DIN EN 853 1 SN



**Tube** : Hydraulic Oil resistant Special Synthetic Rubber  
**Reinforcement** : High Tensile Steel 1 Wire Braid  
**Cover** : Oil, Abrasion and weather resistant wrapped synthetic Rubber  
**Application** : For high pressure hydraulic systems in industry and agriculture.

### SAE 100 R2 AT / DIN-EN 853 2 SN STEEL WIRE BRAIDED HYDRAULIC HOSE

ID		OD	WP		BP		BR
Inch	mm	mm	BAR	PSI	BAR	PSI	mm
3/16	4.8	13.4	415	6018	1650	23925	90
1/4	6.4	15	400	5800	1600	23200	100
5/16	8	16.6	350	5075	1400	20300	115
3/8	9.5	19	330	4785	1320	19140	130
1/2	12.7	22.2	275	3988	1100	15950	180
5/8	16	25.4	250	3625	1000	14500	205
3/4	19	29.3	215	3118	850	12325	240
1	25.4	38.1	165	2393	650	9425	300
1.1/4	31.8	48.3	125	1813	500	7250	420
1.1/2	38.1	54.6	90	1305	360	5220	500
2	50.8	67.4	80	1160	320	4640	630

-40°C / +120°C  
-40°F / +232°F

(+125°C Intermittent)

NORMS : SAE J 517 100 R2 AT  
DIN EN 853 2 SN



**Tube** : Hydraulic Oil resistant Special Synthetic Rubber  
**Reinforcement** : High Tensile Steel 2 Wire Braids  
**Cover** : Oil, Abrasion and Weather resistant wrapped synthetic Rubber  
**Application** : For high pressure hydraulic systems in industry and agriculture.

**MAKE** : Superseal , Indo Maksson , Gates

**R3 Rayon Braided Hydraulic Rubber Hose**

Size 3/16 " to 2"

Working Pressure : 26 kg / Cm2 to upto 100kg / cm2 depends on sizes

**R6 Textile Braided Hydraulic Rubber Hoses**

Size 3/16 " to 1"

Working Pressure : 10 kg / Cm2 to upto 35kg / cm2 depends on sizes

**4SP / 4SH Multispiral Hydraulic High Pressure Hoses**

Size 3/8 " to 2"

Working Pressure : 250kg/cm2 to upto 445kg/cm2 depends on sizes

NOTE : For Further Technical Clarification / Prices please Mail or Fax



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## STAINLESS STEEL HOSES AND HOSE ASSEMBLIES

### Technical Data



**SS 304 OUTER BRAIDED,  
SS INNER 321 / 316 / 316L  
Metalic Flexible Bellows  
Temperature :- 270°C to + 700°C**

SIZE		SINGLE BRAID					DOUBLE BRAID				
Nominal Size		Static bend radius	Dynamic Bend radius	Max. Working Pressure	Test Pressure	Burst Pressure	Static bend radius	Dynamic Bend radius	Max. Working Pressure	Test Pressure	Burst Pressure
Inch	mm	mm	mm	bar	bar	bar	mm	mm	bar	bar	bar
1/4	6	25	100	154	230	616	25	100	246	369	984
3/8	10	40	150	105	157	420	40	150	168	252	672
1/2	12	50	200	88	132	352	50	200	140	210	560
5/8	16	50	200	73	109	292	50	200	116	174	464
3/4	20	70	200	64	96	256	70	200	102	153	408
1	25	90	200	50	75	200	90	200	80	120	320
1 1/4	32	110	250	42	63	168	110	250	67	100	268
1 1/2	40	130	250	32	48	128	130	250	51	76	204
2	50	175	350	31	46	124	175	350	49	73	196
2 1/2	65	200	410	26	39	104	200	410	41	61	164
3	80	205	450	18	27	72	205	450	28	42	112
4	100	230	560	16	24	64	230	560	26	39	104
5	125	280	660	16	24	64	280	660	25	37	100
6	150	320	815	12	18	48	320	815	20	30	80
8	200	435	1015	10	16	40	435	1015	16	24	64

## TEFLON (PTFE) HOSE WITH S.S. BRAID



### TM SERIES P1 (P.T.F.E.)

Inner TEFLON tube, reinforcement by single layer of stainless steel wire.

TEFLON flexible hoses are capable of resisting low and high temperature between -73°C to + 260°C for longer periods and have an unlimited shelf life.

SELECTION CHART									
SIZE									
ID in inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
ID in mm	4.8	6.4	7.9	9.5	12.7	15.9	19.0	22.2	25.4
OD in mm	7.8	9.5	11.0	14.3	16.1	19.4	24.0	28.2	31.5
Working Pressure in PSI	4000	3000	2650	2500	2000	1750	1500	1250	1000
Testing Pressure in PSI	8000	6000	5300	5000	4000	3500	3000	2500	2000
Min. Bend radius in mm.	50	70	100	133	165	200	275	325	400

### Application:-

Diluted or concentrated acids, caustics, hot, lacquers, solvents, fuel, oils, oxidising agents, gases, foods, drugs, Generally unaffected by all chemical (except melted alkaline metals), used in Laundry, Rubber, Plastic, Chemical & Refrigeration Industries.

Maximum Utilisation of steam pressure 250 PSI

Also Available in S.S. Braided with Corrugated Teflon Hose for 1.1/2", 2", 3"

## DEALERS IN

Metal Braided LP Hose, Steam Hoses, Oil discharge Loading / Unloading Hose, RD Hose, Carbon Free Hoses, Welding Rubber Hose, PVC Nylon Braided Hose, Pneumatic Tool Rubber Hoses, PVC Grey Suction Hose, Duct Hose, Green Suction Hose, PVC Steel Braided Non Toxic thunder Hose.



**PVC FLEXIBLE BRAIDED HOSES RUBBER HOSES**

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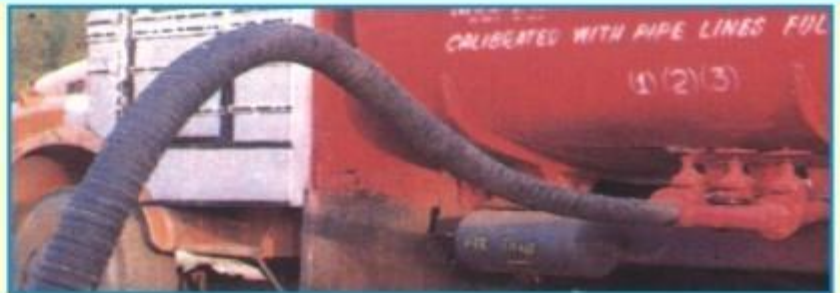
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## RUBBER OIL SUCTION / DISCHARGE ROAD / RAIL OIL DECANTING HOSE ( As per IS : 10733 / 1983)



- APPLICATION :** For handling and transferring petroleum products, like petrol, diesel oils, industrial fuels kerosene etc., In road / rail tankers and storage tanks.
- CONSTRUCTION :**  
**Tube:** : Uniform lining of suitable rubber compound resistant to oil and petroleum products. Tube is seamless upto 88 mm NB.
- Reinforcement :** Textile reinforcement with embedded steel wire helix.
- Electrical Bonding :** Anti static copper wire is incorporated between the reinforcement plies to provide electrical continuity along the whole length of the hose.
- Cover :** : Rubber cover resistant to oil weather and abrasion.
- Temperature Range :** : 40° f to + 250° f
- Length :** : 3.65 Mtr., 5 Mtr., 10 Mtr., 15 Mtr

### TECHNICAL SPECIFICATIONS

Nominal bore size in mm	Tolerance on Nominal bore in mm	Working Pressure kg./cm <sup>2</sup>	Testing Pressure kg./cm <sup>2</sup>	Bursting Pressure kg./cm <sup>2</sup>	Mass Kg./mtr.	Bend Radius in mm	Working Pressure kg./cm <sup>2</sup>	Testing Pressure kg./cm <sup>2</sup>	Bursting Pressure kg./cm <sup>2</sup>	Mass Kg./mtr.	Bend Radius in mm
31.5	1.50	3.5	7	14	1.35	130	7	14	28	1.95	190
38.0	1.50	3.5	7	14	1.65	155	7	14	28	2.40	230
50.0	1.50	3.5	7	14	2.25	205	7	14	28	3.00	305
63.0	1.50	3.5	7	14	3.00	255	7	14	28	4.13	380
75.0	2.50	3.5	7	14	3.75	305	7	14	28	5.25	460
100.0	3.0	3.5	7	14	4.80	410	7	14	28	8.25	560



## ROCK DRILL HOSE (WIRE BRAIDED)

Conforms to IS 446 : type 3, 1987

**Application :** Recommended for all pneumatic applications for Rock Drilling in open cast mines & quarries.

### Construction :

**Tube :** Black smooth synthetic rubber oil resistant tube.

**Reinforcement :** 1 high tensile steel wire braid.

**Cover :** Black Synthetic rubber cover, abrasion resistant to work in the most severe service & rigid conditions (with perforation)

**Temperature Range :** -40°C to + 75°C

### HEAT RESISTANT CARBON FREE RUBBER HOSE

Size	No. of Ply	
	Braid	Ply
12.50	2	2
20.00	2	2
22.00	2	2
25.00	2	2
28.00	2	2
31.50	2	3
35.00	2	3
38.00	2	3
45.00	2	3
50.00	2	3
56.00	3	4
60.00	3	4
63.00	3	5
70.00	3	5
75.00	3	6
80.00	-	6
88.00	-	6
100.00	-	6



Type : with Asbestos Cover, without Asbestos  
 Temperature : 40°F To 200°F

### SPECIFICATIONS

Hose I.D.		Working Pressure		Operating Temp. Range
in.	mm	psi	bar	
1/2	12.5	500	35	- 40°C to + 75°C
5/8	16	500	35	- 40°C to + 75°C
3/4	20	500	35	- 40°C to + 75°C
1	25	500	35	- 40°C to + 75°C
1.1/4	31.5	500	35	- 40°C to + 75°C
1.1/2	38	500	35	- 40°C to + 75°C
2	50	500	35	- 40°C to + 75°C



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## WELDING HOSE I S S 447



I.D. in Inches	I.D. in mm No. of Braided	Working Pressure
3/16"	5.0 MM X 1	12.50
1/4"	6.3 MM X 1	12.50
5/16"	8.0 MM X 1	12.50
5/16"	8.0 MM X 2	17.50
3/8"	10.0 MM X 1	12.50
3/8"	10.00 MM X 2	17.50
1/2"	12.5 MM X 1	12.50

## INDUSTRIAL RAYON BRAIDED RUBBER HOSE : ISS 446



Size I.D. in Inches	I.D. in mm No. of Braided	Working Pressure	I.D. in Inches	I.D. in mm No. of Braided	Working Pressure
3/16"	5.0 MM X 1	14.00	3/4"	20.0 MM X 3	17.50
1/4"	6.3 MM X 1	14.00	1"	25.0 MM X 2	14.00
1/4"	6.3 MM X 2	17.50	1"	25.0 MM X 3	17.50
5/16"	8.0 MM X 1	14.00	1.1/4"	31.5 MM X 2	07.00
5/16"	8.0 MM X 2	17.50	1.1/4"	31.5 MM X 3	10.00
3/8"	10.0 MM X 1	14.00	1.1/2"	38.0 MM X 2	07.00
3/8"	10.0 MM X 2	17.50	1.1/2"	38.0 MM X 3	10.00
1/2"	12.5 MM X 2	17.50	2"	50.0 MM X 2	07.00
3/4"	20.0 MM X 2	14.00	2"	50.0 MM X 3	10.00

## Rubber Sand Blast Hose



MM	Size		No. of Braid	Ply
	INCH			
12.50	1/2"		2	2
20.00	3/4"		2	2
25.00	1.0		2	2
31.00	1.1/4		2	3
38.00	1.1/2		2	3
45.00	1.3/4		2	3
50.00	2.0		2	5
63.00	2.1/2		-	5
75.00	3.0		-	6
100.00	4.0		-	6

Type 1 : W / P 7 kg / cm<sup>2</sup> Type 2 : W / P 16 kg / cm<sup>2</sup>

## PVC GREEN SUCTION HOSE



MM	Size		Std. Length in Mtr.
	INCH		
20 MM	3/4"		30
25 MM	1"		30
30 MM	1 1/4"		30
40 MM	1 1/2"		30
50 MM	2"		30/45/50
60 MM	2 1/4"		30
65 MM	2 1/2"		30/45
75 MM	3"		30/3C
90 MM	3 1/2"		30
100 MM	4"		15/18/30

### Application :

Agriculture saline water, Light acids Alkalies, & other chemicals except Solvents Alkalies, Temperature : 70° C

## PVC GRAY FLEXIBLE DUCT HOSE



MM	Size		Std. Length in Mtr.
	INCH		
16 MM	1/2"		30
22 MM	3/4"		30
25 MM	1"		30
30 MM	1.1/4"		30
40 MM	1.2"		30
50 MM	2"		30
60 MM	2 1/4"		30
63 MM	2 1/2"		30
75 MM	3"		30
80 MM	3 1/4"		30
90 MM	3 1/2"		30
100 MM	4"		30

### Application :

Conveying of Air, Gases, Dust & Light Materials, Used for Conduits of Air, Industrials Ventilation Collecting Dust with Exhaust fans in Stone Masoning, Fiber Glass, Textiles, Asbestos processing & other industrial Vaccum Cleaning Equipments, Air Conditions for office.

## PVC GRAY FLEXIBLE DUCT HOSE



MM	Size		Std. Length in Mtr.
	INCH		
110 MM	4 1/4"		30
125 MM	5"		15
140 MM	5 1/2"		15
150 MM	6"		15
160 MM	6.1/2"		15
200 MM	8"		10/15
225 MM	9"		10/15
250 MM	10"		10/15
300 MM	12"		10
315 MM	12 1/2"		10

## PVC HEAVY DUTY GRAY SUCTION HOSE



MM	Size		Std. Length in Mtr.
	INCH		
25 MM	1"		30
30 MM	1 1/4"		30
40 MM	1 1/2"		30
50 MM	2"		30
60 MM	2 1/4"		30
65 MM	2 1/2"		30
75 MM	3"		30
100 MM	4"		15/30
125 MM	5"		15
140 MM	5 1/2"		15
150 MM	6"		15
200 MM	8"		6/4.5
250 MM	10"		6/4.5
300 MM	12"		6/4.5

### Application :

Abrasive materials , Coal & Mineralmines, Stone & Lime Quarries, Shipping Sewerage Disposal, Aquaculture, Paper Mills, Cements, Chemicals, Petro Chemicals, Oil Exploration.

Temperature : 70° C

## PVC STEEL WIRE VACCUM THUNDER HOSE



**Special Resistance to Pressure By Delivery & to Absolute Vacuum By Suction.**

- In Side & Out Side Smooth Surface
- Very Flexible & Light in Weight
- Resistant to atmospherical agent, Oil & most Chemicals.
- Strong Abrasion Resistant.
- Very Narrow Bending Radius.

1) **STRUCTURE** : SOFT P.V.C. HOSE WITH EMBEDDED STEEL WIRE REINFORCE.

2) **COLOUR** : CRYSTAL CLEAR TRANSPARENT HOSE

3. **TEMP RANGE** : -10°C to + 60°C

### APPLICATION :

- Suction & Delivery of Air Slurries, Food Stuff, Portable Water, Distillates.
- Vaccum Pump
- Agricultural Machinery.
- Chemical Plants.
- Plastic Machinery Manufacturing.
- Sludge Tankers.
- For Corrosion - Proof or Protection Hoses for Under Ground Piping.



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**WAAREE**  
Instrumentation Solutions...

### ACCESSORIES

- Thermowell
- Syphon
- Snubber
- Needle Valve
- Manifold Valve

Sensing your Needs

**WAAREE**  
Instrumentation Solutions...

### Pressure & DP Switches

**UT Series**

**CNI Series**

**Z Series**

- ECONOMICAL
- RELIABLE
- ACCURATE
- WIDE RANGE
- USER FRIENDLY

Sensing your Needs

**WAAREE**  
Instrumentation Solutions...

### Industrial Pressure Gauges

ACCURACY - 0.25%  
OVER THE FULL RANGE

Nominal Sizes : 23 mm to 250 mm  
Range : -250 mmwc upto 2000 bar

Sensing your Needs

**WAAREE**  
Instrumentation Solutions...

### LEVEL MEASUREMENT

- Indicators
- Gauges
- Switches

**WAAREE**  
Instrumentation Solutions...

### Instrumentation Manifolds

Variety of:  
2/3/4/5 Valve Manifolds  
Flange Block & Bleed Valves available

**ISOLATE**   **EQUALIZE**   **DRAIN / VENT**

Sensing your Needs

**WAAREE**  
Instrumentation Solutions...

### NEEDLE VALVES

**NV4**   **RPV**

**GV8**   **HPV**

**AVT**   **CET**

VARIETY OF VALVES:  
 ■ Standard Threaded Needle Valves  
 ■ Compression End Needle Valve  
 ■ Single Block & Bleed Valve  
 ■ Multiport Gauge Valves  
 ■ Miniature Needle Valves  
 ■ Angle Type Needle Valves  
 ■ Special Models available

Sensing your Needs

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**WAREE**  
Instrumentation Solutions

### Pressure Gauges Newly Launched

Sensing your Needs

**WAREE**  
Instrumentation Solutions

### Temperature Elements

- RTD's
- Thermocouples

Thermowells

Sensing your Needs

**WAREE**  
Instrumentation Solutions

### Temperature Measurement

Nominal Sizes : 63mm to 150 mm  
Range : -50°C upto 850°C

Sensing your Needs

### Instrumentation Tube Fittings

Male Elbow      Union Tee

Male Connector      Socket Weld Connector

Union Cross      Union Elbow

Female Elbow      Female Connector

- Material of Construction Available :
  - Brass • AISI SS 316, SS 316 TI • Duplex • Monel • Hastelloy C
- Higher rated fittings upto 10,000 psi optional
- Complete Interchangeability

Waree also caters to specific & unique customer requirements including variation in designs & dimension

Magnehelic Differential Positive or Negative Pressure Gauge

Cable Float Switch

Transmitter with Indicator or Controller

Flow Switch

Rotameter - Acylic

Miniture Level Switch - PP

Compact High Pressure Transmitter -1 to 2200 bar

(RTD) Resistance Thermometer Detector

Miniture Top Mounted Level Switch- Stainless Steel

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## ELECTROMAGNETIC FLOW METER

## ELECTRONET



**ELMAG 50**  
Flow Meter with Switch



**ELMAG 60**  
2 Wire System



**ELMAG 100**  
Insertion Type



**ELMAG 200**  
Without Local display



**ELMAG 200M**  
With Local Display



**ELMAG 200R**  
Remote Electronics



**ELMAG 200M**  
Wafer Type



**ELMAG 600**  
Battery Operated

MEDIUM	LIQUID (CONDUCTIVE)
TYPE	INBUILT LCD DISPLAY / REMOTE TYPE INSERTION TYPE / BATTERY TYPE
SUPPLY	24VDC / 230VAC / BATTERY OPERATED
OUTPUT	POTENTIAL FREE RELAY CONTACT / PULSE / 4 TO 20 MA
ENCLOSURE	FLAMEPROOF /IP65/11A/11BCMRI CERTIFIED
CONNECTION	SCREWED ENDS / FLANGED ENDS
SIZE	15NB (½") to 600NB ( 24")
DISPLAY	16 X 2 LCD – 4 DIGIT for FLOW RATE 8 DIGIT FOR TOTALISED FLOW

ACCURACY	± 0.5% of FS
LINEARITY	± 0.5%
REPEATABILITY	± 1%
M O C	CS / MS / SS
OPTIONAL FOR COMMUNICATION PORT	RS 485 with MODBUS / RTU PROTOCOL
PROCESS TEMP.	85°C
FLOW RATE	0.64 m <sup>3</sup> /HR to 1017.84 m <sup>3</sup> /hr
FEATURES	Absolute Maintenance Free / Full bore type Outstanding accuracy / Flow measurement In forward & reverse direction on demand / Empty pipe Indication on demand





# HINDUSTAN HYDRAULICS & PNEUMATICS

No. 325 (Old 158) Linghi Chetty Street, (Opp. Ambika Lodge) Near Parrys Corner, Chennai - 600 001

Phone : 2534 3066, 2534 5625, 2534 5587 Fax : 044-2534 5587

E-mail : hhp@airtelmail.in / hindustanhydraulic@yahoo.co.in Web : www.hindustanhydraulic.com

Contact Person : V. Anandha Krishnan - 98409 21885

## TURBINE FLOW TRANSMITTER

## ELECTRONET



**FL 100** 2 Wire



**FL 102** Without Local Indication



**FL 104** Insertion Type



**FL 204** 4 Wire



**FL 106** Battery Operated

MEDIUM	LIQUID (CLEAR)
TYPE	INBUILT LCD DISPLAY / REMOTE TYPE INSERTION TYPE / BATTERY TYPE
SUPPLY	24VDC / 230VAC/ BATTERY OPERATED
OUTPUT	POTENTIAL FREE RELAY CONTACT / PULSE / 4 TO 20 MA
ENCLOSURE	FLAMEPROOF /IP65/11A/11BCMRI CERTIFIED
CONNECTION	SCREWED ENDS / FLANGED ENDS
SIZE	15NB (1/2") to 150NB ( 6")
DISPLAY	8 X 1 LCD – 4 DIGIT for FLOW RATE 8 DIGIT FOR TOTALISED FLOW
ACCURACY	± 1% of FS
LINEARITY	± 1%
REPEATABILITY	± 1%
M O C	CS / MS / SS
PROCESS TEMP.	85°C
FEATURES	Suitable for Non conductive clear liquid Outstanding accuracy for clean & low Viscosity application / Durable & versatile

FLOW RATE	In LPM
1/2"	6.6 to 66.6
3/4"	13.32 to 133.3
1"	26.6 to 266.6
1 1/2"	56.6 to 566.0
2"	113.0 to 1133.0
3"	225.0 to 2250.0
4"	450.0 to 4500.0
6"	916.0 to 9166.0



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SPOOL TYPE SINGLE SOLENOID VALVE	SPOOL TYPE DOUBLE SOLENOID VALVE	POPPET TYPE VALVE	FOOT OPERATED VALVE	HAND LEVER OPERATED VALVE
 <p>Size : 1/8", 1/4", 1/2" Type : 5/2, 3/2 Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air Pressure : 0 to 10 Bar</p>	 <p>Size : 1/8", 1/4", 1/2" Type : 5/2, 3/2, Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air Pressure : 0 to 10 Bar</p>	 <p>Size : 1/2", 3/4", 1 Type : 3/2, 5/2, (N/C, N/O) Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air, Inert Gas Pressure : 0 to 10 Bar</p>	 <p>SIZE : 1/4", 1/2" (5/2, 3/2) TYPE : Spring Return, With Lock down, PRESSURE : 0 to 10 Bar APPLICATION : AIR</p>	 <p>SIZE : 1/4", 1/2" (5/2, 5/3, 3/2) TYPE : Spring Return, detend PRESSURE : 0 to 10 Bar APPLICATION : AIR</p>

VAC MAKE SINGLE SOLENOID VALVE	VAC MAKE DOUBLE SOLENOID VALVE	COMPAIR / ELECTRO PNEUMATIC VALVE	COMPAIR SINGLE SOLENOID VALVE
 <p>Size : 1/8", 1/4", 3/8", 1/2" Type : 3/2, 5/2, Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air Pressure : 0 to 10 Bar</p>	 <p>Size : 1/8", 1/4", 3/8", 1/2" Type : 3/2, 5/2, Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air Pressure : 0 to 10 Bar</p>	 <p>Size : 1/4", 3/8", 1/2" 3/4", 1" Type : 3/2 (N/C, N/O) Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air, Inert Gas Pressure : 0 to 10 Bar POPPET TYPE</p>	 <p>Size : 1/4", 3/8", 1/2" 3/4", 1" Type : 5/2 (N/C, N/O) Voltage : 24VDC, 24 VAC, 110 VAC, 230 VAC Application : Air Pressure : 0 to 10 Bar</p>

## FLOCON MAKE SOLENOID VALVE

FS 200	FSD 200	FD 200	FSD 200	FS 208, 2010, 2012	FDM 200
 <p>Type : FS 200 2 way Servo Operated SOLENOID VALVES Normally closed and Normally open. Size : 1/8" to 3/4" BSP/NPT. MED : Air, Water, Inert Gas, L.D. Oil &amp; Steam. PORT SIZE : Full Port OP. PRESSURE : 0.3 to 20 Kg/Cm<sup>2</sup> BODY MATERIAL : Forged Brass, S.S. 304, S.S. 316 FLUID TEMPERATURE : 150°C Max</p>	 <p>Type : FSD 200 2 WAY Diaphragm type Pilot Arrangement SOLENOID VALVES Normally Closed and Normally Open. Size : 1" to 2" BSP/NPT. MED : Air, Water, Gas, L.D. Oil. PORT SIZE : Full Port OP. PRESSURE : 0.3 to 10 Kg/Cm<sup>2</sup> BODY MATERIAL : Forged Brass, Cast Bronze, S.S. 304, S.S. 316 FLUID TEMPERATURE : 80°C Max. Teflon, Viton, diaphragm can be supplied for higher temperature upto 150°C</p>	 <p>Type : FD 200 2 WAY Direct Operated SOLENOID VALVES Normally Closed. Size : 1/8" to 3/4" BSP/NPT. MED : Air, Water, Inert Gas, L.D. Oil. PORT SIZE : Full Port OP. PRESSURE : 0 to 1 Kg/Cm<sup>2</sup> BODY MATERIAL : Forged Brass, S.S. 304, S.S. 316 FLUID TEMPERATURE : 80°C Max.</p>	 <p>Type : FSD 200 2 WAY Diaphragm Type Pilot Arrangement For Fast Acting SOLENOID VALVES Normally Closed and open. Size : 1/8" to 3/4" BSP/NPT. MED : Air, Water, Inert Gas, L.D. Oil, Steam PORT SIZE : Full Port OP. PRESSURE : 0.3 to 10kg/cm<sup>2</sup> BODY MATERIAL : Forged Brass, S.S. 304, S.S. 316 FLUID TEMPERATURE : 80°C Max Teflon Viton, Diaphragm can be given for 150°C Max.</p>	 <p>Type : FS, 208, 2010, 2012 2 Way Servo Operated SOLENOID VALVES Normally Closed and Normally Open. Size : 1" to 2" BSP/NPT. MED : Air, Water, L.D. Oil, Steam. PORT SIZE : Full Port OP. PRESSURE : 0.5 to 10 Kg/Cm<sup>2</sup> BODY MATERIAL : Bronze FLUID TEMPERATURE : 150°C Max. 1</p>	 <p>Type : FDM 200 2 way Direct Operated Midget Type SOLENOID VALVES Normally Closed Only. Size : 1/8, 1/4" BSP/NPT. MED : Air, Water, Inert Gas, L.D. Oil. PORT SIZE : 1mm. to 4 mm. OP. PRESSURE : 0 to 50 Kg/Cm<sup>2</sup> BODY MATERIAL : Brass, S.S. 304, S.S. 316 Zinc FLUID TEMPERATURE : 120°C Max</p>



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## ISO 5200 PNEUMATIC ROTARY ACTUATOR



Design : ISO 5211  
 Actuator : Single/ Double Acting  
 Type : Double Rack & Pinion  
 Mounting : Namur  
 Rotation Angle : 90° to 180°  
 Body : Extruded Aluminium Pipe  
 Seals : Nitrile / Buna - N  
 Pressure : 15 to 150 PSI  
 Temperature : -20° & 90° C  
 Torque : Upto 4500 Nm at 5Kg/Cm<sup>2</sup>  
 (Pneumatic Press.)

## 3 PC BALL VALVE WITH PNEUMATIC ROTARY ACTUATOR



Model : BMW  
 Actuator : Single / Double Acting  
 Size Range : 1/2" to 10"  
 Ball Valve : 3 Piece Design  
 MOC : CF8 / CF8M / WCB  
 C.S. / C.I. / PP  
 Ends : Screwed / Flanged  
 Socket Weld / Triclover

## BUTTERFLY VALVE WITH PNEUMATIC ROTARY ACTUATOR



Design : Eco-Tech / Eco-Tef  
 Actuator : Single / Double Acting  
 Size Range : 1, 1/2" to 20"  
 Butterfly Valve : Cast Iron / CF 8 / CF 8 M  
 Disc : C.I. / CF8 / CF8M  
 Seals : Nitrile / EPDM  
 (Silicon, Teflon on request)  
 Pressure : PN 10 (Max.) PN 16 Avail. on req  
 Oper. Temperature : -25° C to 130° C  
 (Depending on M.O.C.)

Butterfly Valves Low Torque lever Operated  
 Marked also available on request

## 2/2 WAY PNEUMATIC ANGLE TYPE ON/ OFF CONTROL VALVES



Model : AY CV / TY CV  
 Type : Normally Close / Open  
 Size Range : 1/2" to 4"  
 Body : CF8 / CF8M  
 Pneu. Press. : 3.5 to 7 Bar  
 Working Press. : Upto 16 Bar  
 Working Temp. : 220° C  
 Ends : Screwed/Flanged/Triclover  
 Media : Air, Water, Oil, Gas & Steam

## 3/2 WAY PNEUMATIC CYLINDER OPERATED CONTROL VALVE



Model : 3 CV  
 Type : Normally Close / Open  
 Size Range : 1/2" to 2"  
 Body : CF 8 / CF 8 M  
 Pneu. Press. : 3.5 to 7 Bar  
 Working Press. : Upto 16 Bar  
 Working Temp. : 220° C  
 Ends : Screwed/Flanged/Triclover  
 Media : Air, Water, Oil, L.P.  
 Gas & Steam

## DISC CHECK VALVE (DCV)



Model : DNRV / DCV  
 Size Range : 1/2" to 6"  
 Body : CF 8 / CF 8 M  
 Disc : S.S. 304 / S.S. 316  
 Disc Seat : Metal to Metal Soft Seated  
 Spring : Standard  
 Max. Oper. Press. : Upto 42 Bar (PN 40)  
 Max. Oper. Temp. : Upto 300° C  
 Testing : As per API 598

Disc Check Valve is an advanced design which gives full flow and occupy very less space than other type of Non Return Valve. This Available with IBR Certificate in Form III C.

## ISO PNEUMATIC CYLINDER OPERATED KNIFE GATE & PULP VALVE



Type : Normally Close/Open  
 Actuation : Single/Double Acting  
 Pneumatic Cylinder  
 Size Range : 1, 1/2" to 24"  
 Valve Body : S.Steel / Cast Iron  
 Gate (plate) : S.Steel / Cast Steel  
 Seat : Metal to Metal / Rubber Seated  
 Pneu. Press. : 4 to 12 Bar  
 Temperature : Upto 200° C  
 (250° C on request)  
 Ends : Flanges to 150 # / 300 # / 600 #  
 Application : Oil, Air, Gas, Water, Steam, Pulp, etc.

## 2 WAY DIAPHRAGM TYPE SOLENOID VALVE



Model : ISD  
 Actuator : Diaphragm Type Internal  
 Pilot Operated  
 Type : Normally Close / Open  
 Size Range : 1/4" to 3" (4" on request)  
 Body : CF8  
 Diaphragm : Neoprene / Viton / Teflon  
 Pressure : 0.5 to 10 Bar  
 Temperature : Upto 85° C (Optional high Temp. on request)  
 Ends : Screwed / Flanged / Triclover  
 Media : Air, Water, Oil Gas, Vacuum etc,  
 Available Volv. : All std. voltage available

## 2 WAY ELECTRICAL ACTUATOR BALL VALVE



Model : EL - BMW  
 Electrical Actuator : Aluminium Alloy/Nylon  
 Material : Gear Motor  
 System Design : IP 67  
 Casing Protection : Upto 60° C  
 Working Temp. :  
 Valve :  
 Size : 1/2" to 6"  
 Body : ASTM A 216 Gr. WC / WCB  
 ASTM A 351 Gr. CF8 - CF8M  
 Temp. : -20° C to 180° C (High Temp. on request)  
 Ends : Screwed / Flanged / Socket Weld



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## SS SWAGELOCK FERRULE COMPRESSION FITTING



MALE  
ELBOW  
ASSEMBLY



UNION ASSEMBLY



MALE  
CONNECTOR  
ASSEMBLY



EQUAL TEE  
ASSEMBLY

Material : SS 304, SS 316, SS 316 L

Size : 1/8" OD to 1" OD 4mm to 20 mm OD

## SS I.C. FITTINGS

SIZE RANGE : 1/8" to 4"  
M.O.C. : S.S. 304 / 316  
Pressure Range : 150 LBS  
Thread Ends : BSP, BSPT, NPT,  
DIN 259, DIN 2999

NIPPLE



ELBOW  
45°/90°



TEE



UNION



HOSE  
NIPPLE



PLUG



SOCKET



## BRASS FITTINGS



## PU ONE TOUCH FITTINGS



## PU TWO TOUCH FITTINGS





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## Roto Seal Coupling (Right/Left Handed Thread)



Model : ARS /ASH  
Size : 1/4", 3/8", 1/2", 3/4", 1  
1.1/2" & 2" BSP/NPT  
Body : Aluminium/Steel/WCB  
Shaft : Stainless Steel  
Pressure : Upto 10Kg/cm<sup>2</sup>  
Media : Air, Water, Oil & Gas

## High Flow Regulator



Model : HFR  
Size : 2.1/2", 3" & 4"  
Screwed / Flanged  
Body : S. Steel Fabricated  
Pressure : Upto 12Kg/cm<sup>2</sup>  
Media : Air & Gas

## 'HYDINT' Moisture Separators (99.99% Eff. with imported Drain Valve)



Size : 1/4" to 6" BSP / NPT / Flanged  
Body : M. Steel / Aluminium  
Pressure : Upto 10 Kg/Cm<sup>2</sup>, 24 Kg/Cm<sup>2</sup>  
Media : Air, Gas & Steam  
Drain : Manual / Automatic with  
Facility : Transparent Bowl

## ISO Series Flow Control Valve



Model : FS / BS  
Size : 1/8" & 1/4" BSP/NPT  
Pressure : Upto 12 Bar  
Media : Air Gas

## Quick Exhaust Valve



Model : AQEV  
Size : 1/4", 1/2" &  
3/4" BSP / NPT  
Pressure : Upto 10 Kg / Cm<sup>2</sup>  
Media : Air

## AIRLINE FILTERATIONS



"Airmatic" FRL Unit



FRL UNIT



FILTER



REGULATOR



LUBRICATOR



INTEGRAL FILTER  
REGULATOR



FRL UNIT

## PNEUMATIC AIR CYLINDER



Slim Cylinder



Standard Cylinder



Compact Cylinder



## POLYURETHENE TUBES



AIR BLOW GUN

## QUICK RELEASE COUPLINGS



## CAMLOCK COUPLINGS





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## GATE VALVE



BS 1414/BS 5352 / API 600 / API 602 / API 6 D / A  
SME B 16.34 / ADI 598

### STAINLESS STEEL ( BAR STOCK)

Rating : 150 # / 300 #  
Size : 8 MM to 100 MM

### FORGED CARBON STEEL / S. STEEL

Rating : 150 # / 300 # / 800 # / 1500 #  
Size : 25 mm to 600 mm

### CAST CARBON STEEL /S. STEEL / ALLOY STEEL

Rating : 150 # / 300 # / 600 # / 900 #  
Size : 25 mm to 600 mm

### CAST IRON

Rating : 125 # / 150 #  
Size : 25 mm to 600 mm

	Forged Iron	Cast Range
Pressure / Temp. Rating	ANSI B 16.34 / API 6D	ANSI B 16.34
DESIGN (Mfg.) STD.	API 602 / BS 5352	API 600 / API 6D
Test (Inspection) STD.	API 598 / BS 6755	API 598 / API 6D

## NON RETURN VALVE



BS 6755 / BS 1868 / ASME B 16.34  
API 6D

### STAINLESS STEEL ( BAR STOCK)

Rating : 150 # / 300 #  
Size : 8 mm to 100mm

### FORGED CARBON STEEL / S. STEEL

Rating : 150 # / 300 # / 800 # / 1500 #  
Size : 15 mm to 50 mm

### CAST CARBON STEEL /S. STEEL / ALLOY STEEL

Rating : 150 # / 300 # / 600 # / 900 #  
Size : 25 mm to 600 mm

### CAST IRON

Rating : 125 # / 150 #  
Size : 25 mm to 400 mm

	Forged Iron	Cast Range
DESIGN (Mfg.) STD.	BS 5352	BS 1868 / API 6 D
Test (Inspection) STD.	BS 6755	BS 6755 / API 6 D

## DIN GLOBE VALVE



BS 6755 / BS 1873 / ASME B 16.34 / DIN 3356

### CAST CARBON STEEL / S. STEEL

RATING : PN 40 / PN 64  
SIZE : 25 MM TO 300 MM  
DESIGN STD : BS 1873 / DIN 3356  
TEST (INSPECTION) STD : BS 6755

### CAST IRON

RATING : PN 10 / PN 16  
SIZE : 15 MM TO 250 MM

## FORGED BALL VALVE



### FORGED CARBON STEEL / S. STEEL

Design : 3 PC (BS 5351 / API 609)  
Ends : Screwed / Socket Weld  
Size : 15 mm to 50 mm  
Test : BS 6755 / API 607 / API 6D  
(Inspection) STD

## DIAPHRAGM VALVE



### CAST IRON / SS 304

Linnig : Natural Rubber / Ebonite  
Neoprene / Nitrile  
Size : 15 MM to 200 MM  
Ends : Flanged / Triclover

## BALL VALVE



### CAST IRON

Design : 1 PC / 3 PC  
Ends : Screwed / Socket Weld / Flanged  
Size : 15mm to 100 mm

### CARBON STEEL/CAST CARBON STEEL/ POLYPROPYLENE

ENDS : SCREWED / SOCKET WELD  
FLANGED  
SIZE : 15MM TO 400 MM

### STAINLESS STEEL

MOC : SS 304/ 316  
DESIGN (BAR STOCK)  
ENDS : 1 PC / 3 PC  
SCREWED / SOCKET WELD  
FLANGED  
SIZE : 6 MM TO 100 MM

## BUTTERFLY VALVES



Materials : CI, SS, PP,  
Dairy Polished SS  
Type : Hand Lever,  
Gear Operated  
Wheel Type  
Seating : TEFLON, EPDM,  
NITRILE  
Disc : CI, SS, PP  
Size : 1" TO 12"

## WAFER TYPE CHECK VALVE



CARBON STEEL  
SIZE : 25 mm  
TO 600 MM  
ENDS : WAFER TYPE  
STAINLESS STEEL  
SIZE : 25 mm  
to 600 MM  
ENDS : WAFER TYPE

## STRAINER



### CAST CARBON STEEL / STAINLESS STEEL

Design : Y - Type (PN 40 /  
DIN 3356 / BS 1873)  
Size : 15 MM to 300 MM

### STAINLESS STEEL

DESIGN : Y - Type (150 #)  
ENDS : SCREWED  
/ SOCKET WELD  
SIZE : 15 MM TO 80 MM

### CAST IRON

DESIGN : T-TYPE (DIRT BOX)  
ENDS : FLANGED  
SIZE : 25 MM TO 30 MM

DESIGN : Y - Type (150 #)  
ENDS : SCREWED / SOCKET WELD  
SIZE : 15 MM TO 300 MM

DESIGN : POT TYPE  
ENDS : FLANGED  
SIZE : 40 MM TO 300 MM

## GUN METAL VALVES



HORIZONTAL  
CHECK VALVE

HORIZONTAL  
CHECK VALVE

SAFETY  
VALVE

GLOBE  
VALVE

GATE  
VALVE

VERTICAL  
CHECK  
VALVE

"Y" Type  
Strainer

THERMO  
DYNAMIC  
STEAM  
TAP



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## HYDRAULIC CYLINDERS

## HYDROMACS



We manufacture hydraulic cylinder under the Brand Name of **HYDROMACS** of **TIE ROD TYPE / WELDED TYPE / THREADED TYPE/ BOLTED TYPE** Construction, **STANDARD & NON / STANDARD** cylinders.

Range from 25 mm Bore and upto 300 mm Bore with the stroke length from 10 mm and upto 5000 mm. Working pressure 500 Kg/ cm<sup>2</sup>

### CYLINDER MATERIAL SPECIFICATION :

**CYLINDER TUBE** : ST- 52 BK Grade inside honed & Burnished tubes. Bored and micro honed for long life of seals.

**PISTON RODS** : CK - 45/ En8 grade Hard Chrome plated rod minimum 30 microns plating thickness. Ground and hard chrome plated for long seal life and for corrosion resistance.

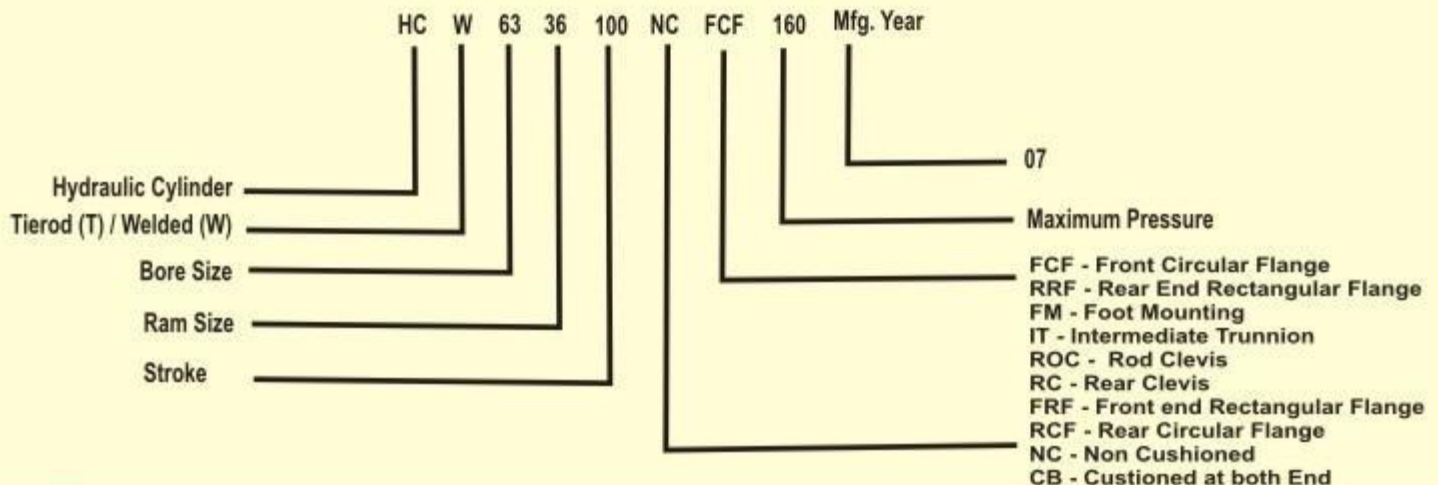
**PISTON** : Ck45 grade steel material with precisely machined on lathe / CNC machine . Made of high Grade cast iron with long bearing area.

**GLAND & END COVER** : Ck45 grade steel material with precisely machined on Lathe / CNC machine . This Holds the static 'O' ring.

**THE RODS** : Made of medium carbon steel with hexagonal nuts.

**SEALS** : Standardized with imported seals from England & USA.

### ORDERING CODE





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## HYDRAULIC REMOTE JACK



## HYDROMACS

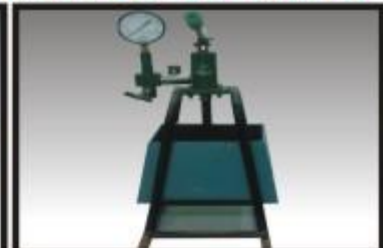
### HYDRAULIC BOTTLE JACK



## HYDRAULIC FLOOR JACK



## HYDRAULIC HAND OPERATED PUMPS



- Type of Pump : Oil & Water
- Pressure : upto 10000PSI
- Capacity : For Oil 1.3 Ltr to 13 Ltrs for water 10 Ltrs
- Hand Operation

- TYPES OF JACKS : BOTTLE TYPE / REMOTE TYPE & CUSTOMISED JACKS
- Type of Operation : Handling and Power Operation.
- CAPACITY : 2 tonnes and upto 500 tonnes capacity

**APPLICATIONS :** These jacks are an excellent choice for maintenance, positioning bending, pressing, and production application. Ideal for a wide range of applications at construction site, mills, railway workshops, power plants and industrial maintenance.

## Features / Benefits

- High strength , Heat treated alloy steel body for better life.
- Hard chrome - plated ram to resist scoring & corrosion.
- Single acting, spring return for smooth return.
- Wiper to arrest ingress of foreign particles.
- Adequate gripping by grooved saddle.
- High pressure long life seals, Quick change couper with dust cap.
- Mounting holes helps easy fixturing.
- Bottom mounting holes for bolting. Collar threading and tilling saddle available on request
- Port size 3/8" inch NPT.
- Working Pressure 650 bar.





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## HYDRAULIC POWERPACK

## HYDROMACS



We Specialize in the manufacture of STANDARD and CUSTOM made Hydraulic Power Pack. The Pumps and valves used in our system are of high quality and international products like YUKEN / REXROTH / DOWTY / HYDROLINE / HYLOCTUBINGS & FITTINGS & WAAREE GAUGES

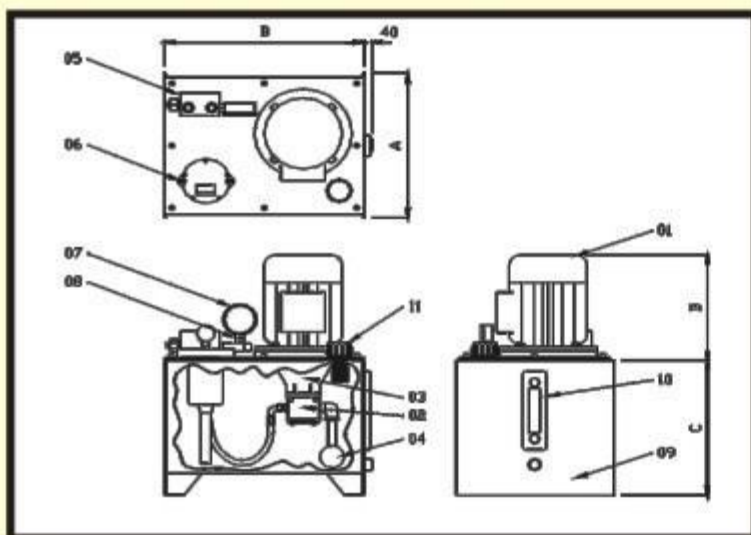
### Design

- Steel Tank 16, 30, 55, 75, 100 & 180 Litre
- Aluminium Gear Pumps / Cast Iron Gear Pumps
- Pressures upto 400 bar
- Flow rates to 100 litres / minute
- Suction filter 90 micron

### Quality

- Return filter 25 micron
- Submerged Pump
- Cetop subplate options
- 1 Phase to 3 kw
- 3 Phase to 30 kw
- 100% functional testing
- Tanks with painted finish
- Motors IEC frame B5 IP55
- Supplied with C to C

## POWERPACK OVERVIEW



- 01. Motor
- 02. Pump
- 03. Bellhousing and coupling
- 04. Suction filter
- 05. Manifold base plate
- 06. Return Filter & Indicator
- 07. Pressure Gauge
- 08. Gauge Isolator
- 09. Tank
- 10. Level Gauge
- 11. Filler Breather

Tank	A	B	C
20 litre	350 mm	300 mm	260 mm
30 litre	470 mm	375 mm	340 mm
55 litre	600 mm	470 mm	370 mm
75 litre	600 mm	470 mm	460 mm
100 litre	675 mm	520 mm	510 mm
180 litre	805 mm	620 mm	560 mm



# HINDUSTAN HYDRAULICS & PNEUMATICS


No. 325 (Old 158) Linghi Chetty Street, (Opp. Ambika Lodge) Near Parys Corner, Chennai - 600 001

Phone : 2534 3066, 2534 5625, 2534 5587 Fax : 044-2534 5587

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Contact Person : V. Anandha Krishnan - 98409 21885

## HYDRAULIC ACCESSORIES



**VANE PUMP**

Type : Flange / Threaded  
 Model : PVR1T/PVR50/PVR1050/  
 PVR 50150/VPVR/SVP1T /PV2R23  
 Flow Capacity : 4to 352 LPM  
 Pressure Range : 0 to 175 / 210 Bar

**DIRECTIONAL CONTROL VALVE**



Type : Solenoid Operated Valve ,  
 Hand Valve  
 & Pilot Operated Valve  
 Model : Cetop3, Cetop5 & Cetop10  
 Flow Capacity : 0 to 63 LPM, 120 LPM & 300 LPM  
 Pressure Range : 0 to 315bar/700bar  
 Supply : 24VDC,220VAC & 110VAC  
 Mounting : Sub plate Type Spring Return  
 Valve & Detent type Valve



**PRESSURE SWITCH**

Type : Sub Plate & Threaded  
 Model : 1PS10/1PS  
 Pressure Range : 10,50,100,200,350 &420 Bar



**RADIAL PISTON PUMP**

Type : External & immersed mounting  
 Flow Capacity : 1 to 24.5 LPM  
 Speed Range : 300 to 2000 RPM  
 Pressure Range : 200,250,300,350,450&550 Bar  
 No. of Elements : 3,5 & 7



**GEAR PUMP**

Type : Flange / Threaded  
 Model : 1PF /OP/IP/2P/3P/F002  
 Flow Capacity : 1.2 to 227 LPM  
 Pressure Range : 0 to 200 Bar



**PILOT CHECK VALVE**

Type : Sub plate & Threaded  
 Model : Size 10,20 & 30  
 Flow Capacity : 80,160 & 350 LPM  
 Pressure Range : 0 to 315 Bar




**CHECK VALVE**

Type : Subplate, Threaded  
 Model : Size 06, 08, 10,15,20,25 &30  
 Flow Capacity : 10,20,30,80,120,220 &280 LPM  
 Port : 1/2 to 11/2 Bsp  
 Pressure Range : 0 to 315 Bar



**MODULAR TYPE PILOT OPERATED CHECK VALVE**

Type : Modular Type  
 Model : Size 06 & 10  
 Flow Capacity : 35 LPM / 80 LPM  
 Pressure Range : 0 to 315 Bar



**PRESSURE GAUGE**

Dial : 40 mm, 50mm, 63mm, 100 mm  
 150 mm, 250mm  
 Range : 760 mm HG Vacuum Pressure  
 to 1600 kg / CM<sup>2</sup>  
 Connection : Bottom / Back  
 Material : MS/ SS  
 Filling : with & without Glycerine  
 Accuracy : 1% , 2%  
 Make : WAAREE



**PRESSURE RELIEF VALVE**

Type : Subplate, Threaded & Cartridge  
 Model : Size 06, 10&20  
 Flow Capacity : 0 to 30 LPM 80 LPM & 160 LPM  
 Pressure Range : 25,50,100,200,315,400&700bar  
 Adjustment : with set Screw & Lock nut with  
 hand knob



**COUNTER BALANCE VALVE**

Type : Threaded  
 Model : Size 10 & 20  
 Flow Capacity : 30 LPM / 115 LPM  
 Pressure Range : 0 to 315 Bar



**HAND OPERATED VALVE**

Model : CETOP 3, CETOP 5 & CETOP 10  
 Flow Capacity : 0to 63, 120 x 300 LPM  
 Pressure Range : 0 to 315 bar / 700 bar  
 Mounting : Sub Plate Type Threaded Type  
 Type : Spring Return, Detent Type

**Rexroth**  
Bosch Group

**polyhydron**

**YUKEN**  
HYDRAULICS

**hydraulic**  
Products

**HYDAX**  
HYDRAULIC ACCESSORIES

**WAAREE**  
INSTRUMENTATION SOLUTIONS...

**Super Seal**  
HYDRAULIC HOSES



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## HYDRAULIC ACCESSORIES



**RETURN LINE FILTER**

Type : Sub Plate  
Flow Capacity : 40 LPM  
Filtration : 22 Microns



**SHUTTLE VALVE**

Type : Sub plate & Threaded  
Model : Size 06  
Flow Capacity : 30 LPM  
Pressure Range: 0 to 315 Bar  
Port : 1/4 & 3/8 BSP



**HYDRAULIC ACCESSORIES STRAINER**

Type : Threaded (1/2' to 3')  
Model : SCS - 002 to SC3-150  
Flow Capacity : 0 to 600 LPM  
Filtration : 149 microns /74/63/124 microns - optional  
Material : Aluminium Die cast (SS MESH)

**TRANSMITTER**

Type : Pressure Transmitter,  
Temperature Transmitter  
DP Transmitter

Range : 1to 0 Bar , 0 to 2200 Bar  
Accuracy : 0.01% to 1% Accuracy  
Thread Connection : 1/4 Male Connection  
Make : Keller , Gems , Dwyer  
Output : 4 to 20 mamps / 10 VDC  
Construction : 2 Wire , 3 Wire, 4 Wire




**FILLER BREATHER**

Type : Top Mounted / Side Mounted  
Model : FSB -05/FSB - 25  
Flow Capacity : 0 to 720 LPM  
Material : Chrome Plated Steel Cap



**RETURN LINE FILTER**

Type : Top mounted Construction  
Model : TIF2 / CFR2/FIF/HFR/ IFR/TIFP/SPF/RPF  
Port : 1/2 to 1 1/2 BSP  
Filtration : 10 microns / 25 microns / 149 microns

**HIGH PRESSURE HYDRAULIC / SPIRAL HOSES**

All type of hydraulic Hose

Size : 1/4 " to 2"  
W.P. : 0 to 10000 PSI  
TYPE : SAE 100 R1 to 4 SH  
END FITTINGS : BSP, UNF, SAE, FLANGE, MM, FLANGE TYPE  
APPLICATION : Air Water, Oil, Steam, Gas  
Temperature : 0 to up to 250 deg. C



**HYDRAULIC SEAMLESS TUBE**



Size : 4mm 6,8,10,12,16,  
(OD in mm) 18,20,22,25, 28,  
30, 35, 38  
Pressure : 0 to 6000 PSI

**HYDRAULIC FITTINGS**



Equal Elbow    Banjo Elbow    Male Connector    Straight Coupling    Equal Tee

# HYDROMACS

## HYDRAULIC PALLET TRUCK



### Special Features

Designed with built in overload valve,  
Totally sealed hydraulic pump. High quality seal kit offer longer pump life.  
Self lubricating bearing at key points offers less operating force.  
Heavy duty and reinforced forks for greater strength and durability.  
Hydraulic ram with solid steel rod, hard chrome plated.  
Entry rollers prevent physical exertion of the operator and protect load rollers and pallet.

Type	HY-HP -20S	HY-HP-25S	HY-HP-30S
Capacity	2000 Kgs	2500 Kgs	3000 Kgs
Min. Fork Height	85 mm	85 mm	85 mm
Max. Fork Height	205 mm	205 mm	205 mm
Fork Length	1150 mm	1150 mm	1150 mm
Overall Fork Width	540 mm	540 mm	540 mm
Individual Forks Width	160 mm	160 mm	160 mm
Load Roller Dia.	80 mm	80 mm	80 mm
Steering Wheel Dia.	200 mm	200 mm	200 mm
Overall Length	1550 mm	1550 mm	1550 mm
Overall Height	1220 mm	1220 mm	1220 mm

## OIL & DIESEL LOADING & UNLOADING TRANSFORMING PUMP ( Mobile Trolley type ) HYDROMACS MAKE



**Electrical Motor** : Available in Single Phase & 3 Phase 1440 RPM (Flame proof and Weather proof)  
**Pump** : 5 Lpm to 40 Lpm for oil and diesel  
**Type** : Mobile Trolley type and Fixed Frame type for oil & diesel  
**Filter** : Suction line and delivery line  
**Hose** : Rubber Hose 2 mtrs long with fittings for suction and delivery.

## HYDRAULIC TRAINING KIT



**Power Pack** : Drive in Electrical Motor operated to Gear pump  
**Panel Board** : Electrical system on off switch Hydromotor, Hand lever dc valve, hydraulic cylinder, Flow control valve, Electrical operated D.C. Valve. Pressure gauge, Pressure relief valve, Oil level gauge, Manifold, pipes with fittings and accessories.



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