



Flexible Hoses, Wire Braided Technical Specifications

Flexible Hose Product Specification HIC Manufactured UNIVERSAL Brand

Universal Flexible Hoses ensures burst-proof hydraulic pneumatic pressure flow, in a way, hose inner lining rubber tube is made of compounded synthetic rubber, braiding material used is either of textile dipped nylon yarn or woven ply cotton fabric and or galvanized iron wire for operating pressure rating needs, outer hose cover made of water-proof and abrasion resistant smooth or wrapped finish superseding relevant IS:446, 444, 447, 10655, 2482, 3549, 5821, 10733, 5894, 2765, 8189, 7654 standards of quality.



Hydraulic Pneumatic High Pressure Rubber Hoses

- Air compressor heavy duty Pneumatic Tool Hoses
- Oxygen - acetylene gas Welding Hose pipe
- Hi-temperature up to 250 deg. C R7 Wire-braided Steam Hoses
- Mining Rock-Drill wrapped pressure Hose
- Contractors Water Delivery rubber Hoses
- Workshops Hot Water delivery woven ply Hoses
- Furnace cable coolant Carbon-Free asbestos covered Hoses
- Slurry Discharge Material Handling rubber Hoses
- Composite Hoses with Flanged end connections as per table BS, ASA, DIN
- Ordinance workshops copper wire reinforced Sand Blasting Hoses
- Petroleum Dock Oil Suction & Discharge Hoses
- Road-Rail Tankers Petroleum Transfer Hoses
- Muddy construction sites Water Suction and Discharge Hoses
- Concentrated Sulphuric-phosphoric acid, Naptha, Caustic soda handling Chemical Suction hoses
- Dilute Alkalies, Salt solutions Transfer Chemical Delivery hoses
- Wine distilleries, Milk dairies carrying Food hose
- Automotive, Earth movers engines water circulation Radiator Hoses
- Condensate, boilers fuel firing guns Stainless Steel Corrugated SS304 -321 Hoses
- Water Blast, Oil, Air, Excavators High -Pressure Hydraulic Hoses-R1, R2, R9, R13, Spiral
- Vehicle service stations Car Washing pressure hoses
- Pesticides sprinkling Super Spray hose.
- Fire Fighting Equipment quick coupled Canvas hose & Reel

Contact For Quote:

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Key personnel : Mr. Anil Gupta, President



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Hoses Technical Specification HYDRAULIC DELIVERY SUCTION HIC Manufactured UNIVERSAL Brand

Rubber Hose Type & High Pressure Hose Construction	Hose Nominal Bore I.Dia. (mm)	Hose O.D. (mm)	Hose Working Pressure (bar)	Hose Bursting Pressure (bar)	Hose Pipe Tolerance in size	Hoses Roll Lengths Availability (in meters)	Flexible Hose Industrial & Agricultural Application
1. Air Hose heavy duty (Pneumatic Tool)							
(synthetic fibre braided hose with smooth rubber cover type 2 conforming to IS:446	5	12	14	40	<u>I.D.</u>	50/75/100	Structural shops, construction work, air compressors, etc. 
	6	14	14	40	-0.5 mm	50/75/100	
	8	16	14	40	+1.0 mm	50/75/100	
Temp upto 65°C	10	19	14	40		50/75/100	
Sub. to tol. +5mts. per roll length upto 25mm I.D., +3mts per roll length for above 25 mm I.D.	12.5	23.5	14	40		50/75/100	
	16	26.5	14	40		50/75/100	
	19	31	14	40	<u>O.D.</u>	50/75/100	
# Colour - black	25	38	14	40	± 1.25mm	40/50/75	
Also in red colour at extra charges.	32	46	14	40		20/40	
	38	55	14	40		20/40	
	50	69	14	40		15.28/18	
* Garden Hose, Radiator Hose, Sand Blast Hose also manufactured.							



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2. Furnace Hose Kink Free (Non Conductive Electrical Carbon Free Heat Resistant)							
Rubberized plies of woven textile with white electrical resistant inner lining having cloth marked outer rubber cover finish) Temp :- upto 100°C Electrical resistance upto 11KVA voltage. * Asbestos covering provided, if required on extra charges. # Colour - green	13	22	10	35	<u>I.D.</u>	15.25	Steel mills, glass work, etc. for use in electric power cables as an outer protective covering to avoid damage to cables & thus protecting leakage of current. 
	19	31	10	35	-0.75 mm	15.25	
	25	36.5	10	35	+1.50 mm	15.25	
	31.5		10	10		15.25	
	38	52	10	35		15.25	
	45	59	10	35		15.25	
	50	65	10	35	<u>O.D.</u>	15.25	
	63	78	10	35	±1.75mm	15.25	
	70	85	10	35		15.25	
	75	90	10	35		15.25	
88	104	10	35		15.25		
3. Water Delivery Hose							
(synthetic fibre braided or plies of woven textile with smooth/cloth marked/fluted rubber cover type 2 conforming to IS:444 Temp. :- upto 65°C Sub. to tol. ± 5mts. per roll length upto 25mm I.D., 3mts. per roll length for above 25mm I.D. * Wire Armored outside hose also manufactured, If required on extra charges. # Colour - black	10	16	10	30		40/50/75	Construction sites, irrigation, mines, railways, horticulture and various business industries. 
	12.5	19	10	30		40/50/75	
	16	23	10	30	<u>I.D.</u>	40/50/75	
	19	28	10	30	-0.5 mm	40/50/75	
	25	34	10	30	+1.25 mm	40/50/75	
	32	42	10	30		20/40	
	38	51	10	30		20/40	
	45	56	10	30		15.25/18	
	50	63	10	30	<u>O.D. ±</u>	15.25/18	
	63	72	10	30	1.50mm	15.25	
75	85	10	30		15.25		
100	112	10	30		7.5		

* Fire Hose, Canvas Fire Fighting, Fire Hose Reel also manufactured.

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4. Chemical Delivery Hose (Concentrated Type)							
(rubberized woven ply of textile fabric with white or black inner lining rubber compound based on EPDM, Butyl, Acrylonitrile, Hypalon, SBR, Natural rubber or blend depending on the chemical to be handled having chemical resistant smooth rubber cover) Conforming to IS:7654 type 2 Temp. :- upto 125°C of hot water # Colour - black with yellow stripes. *Suction Hose with wire helix embedded having corrugated cover & soft plain ends for clamping also manufactured.	10	17	10	40		15.25	Handling almost 75% of todays chemicals, hydrochloric acid, sulphuric acid, caustic soda, benzene, ethyl alcohol, ketones, esters & other chemicals in fertilizer & process plants. (Name of chemical must be indicated while ordering.) 
	13	20	10	40		15.25	
	16	25	10	40	<u>I.D.</u>	15.25	
	19	32	10	40	-0.5 mm	15.25	
	25	38	10	40	+1.25 mm	15.25	
	32	45	10	40		15.25	
	38	51	10	40		15.25	
	45	59	10	40		15.25	
	50	70	10	40	<u>O.D.</u>	15.25	
	63	84	10	40	± 1.25mm	15.25	
	75	100	10	40		15.25	
	88	114	10	40		7.5	
100	127	10	40		7.5		
125	152	10	40		6/7.5		
150	180	10	40		6/7.5		

* Hose Flanges built-in type, as per Table BS, ASA & hose nipples screwed ends assembly services also provided.



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5. Water Suction and Discharge Hose								
(two helical GS wire embedded between reinforcement plies-first is visible and second is embedded bet, layers of plies in case of rough bore with corrugated or plain cloth marked finish weather & abrasion resistant cover with soft plain ends on each side for clamping) Conforming to IS:3549 Temp. :- upto 70°C of hot water Vacuum : 635 mm of Mercury # Colour - black with yellow stripes.	38	56	7	20		15.25	80	Excavation of mines, deflodding operations, sewerage, mud water, project construction & other rugged services. Type A (Rough Bore) is suitable for non-corrosive liquids carrying no solids in suspension while Type B (Smooth Bore) is used in other cases.
	50	70	7	20		15.25	80	
	60	80	7	20	I.D.	15.25	80	
	63	85	7	20	±1.0 mm	15.25	80	
	75	100	7	20		15.25	80	
	90	114	6	20		7.5/12	105	
	100	125	5	20		7.5	105	
	125	152	5	20		7.5	145	
	150	180	5	20	O.D.	6/7.5	145	
	200	234	5	20	±1.5mm	6/7.5	145	
250	285	5	20		4.5/6	145		
300	355	5	20		4.5	145		
* Hose Flanges built-in type & hose nipples assembly services also provided.								



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6. Steam Hose							
(Synthetic rubber yarn braided or woven ply textile with HR lining highly flexible with smooth or cloth marked heat & abrasion resistant outer cover) Conforming to BS: 5122 Type 2 & IS : 10655 Temp. :- upto 153°C Sub. to tol. ± 3 mtrs * Wire braided high pressure hose type R7 as per SAE 100 in 1 wire & 2 wire from 10mm I.D. to 50mm for w.p. 10 bar & 14 bar respectively & temp. resistant upto 200°C. Stainless steel hose SS wire braid bellows for temperature upto 600 °c also manufactured. # Colour - black Also mfd in blue or brown colour	13	19	3.5	35	<u>I.D.</u>	15.25	Steel plants, paper mills, chemicals works, sugar mills, thermal power plants, etc. for supply of saturated steam 
	19	27	3.5	35	± 1.0 mm	15.25	
	25	33	3.5	35		15.25	
	32	40	3.5	35		15.25	
	38	48	3.5	35	<u>O.D.</u>	15.25	
	50	63	3.5	35	± 1.25 mm	15.25	
63	75	3.5	35		15.25		

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		1B	T-2B	1B	T-2B	1B	T-2B			1B	T-2B	1B	T-2B	
7. Oil Tanker Hose (Petroleum Transfer)														
(synthetic rubber woven ply in smooth bore with spiral wire with helix having corrugated or smooth outer rubber cover resistant to oil, weather & abrasion comprising copper wire between reinforcement plies to provide electrical continuity) Conforming to IS:10733 & BS 3492 Temp: upto 93°C # Colour - black with red stripes * Also available in Rough Bore (Type 1A & 1B) * Hose Flanges as per table BS, ASA, DIN standards of quality with rubber lining also manufactured.	32	45	50	3.5	7	14	28	<u>I.D.</u>	3.75/7.5/15.25	130	190	1.35	1.95	Petroleum products handling viz., diesel, petrol, kerosene, industrial fuels, etc. in storage tanks, road & rail tankers.
	38	50	56	3.5	7	14	28	-0.75 mm	3.75/7.5/15.25	155	230	1.65	2.40	
	50	63	70	3.5	7	14	28	+1.50 mm	3.75/7.5/15.25	205	305	2.25	3.00	
	63	78	85	3.5	7	14	28	-	3.75/7.5/15.25	255	380	3.00	4.13	
	75	89	100	3.5	7	14	28	<u>O.D.</u>	3.75/7.5/15.25	305	460	3.75	5.25	
	102	116	125	3.5	7	14	28	± 2.0mm	3.75/7.5/15.25	410	560	4.80	8.25	



* Oil Drilling, Petroleum Dock, Oil Suction & Discharge Hose also manufactured.



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8. Welding Gas Hose							
(Synthetic rubber textile yarn braided hose with flat fluted/smooth rubber cover)	6	14	12	50	I.D.	50/75/100	Steel mills, engineering workshop, thermal power stations, ship building, welding equipments, etc. 
	8	16	12	50	±0.5 mm	50/75/100	
conforming to IS:447 & DIN 8541	10	18	12	50	O.D.	50/75/100	
Tem :- upto 65°C					±1.0mm		
Sub. to tol. +2mts. per roll length							
# Colour - Red - ACETYLENE gas hose							
Blu - OXYGEN gas hose Black - PROPANIOUM gas hose							

Rubber Hose Type & High Pressure Hose Construction	Hose Nominal Bore I.Dia. (mm)	Hose Working Pressure (bar) LP1 LP2 LP3			Hose Bursting Pressure (bar) LP1 LP2 LP3			Hose Pipe Tolerance in size	Hoses Roll Lengths Availability (in meters)	Min. Bend Radius (mm) LP1 LP2 LP3			Flexible Hose Industrial & Agricultural Application
9. Low Pressure Flexible Fuel Line Hose (Wire Braided)													
(seamless oil resistant black rubber tube in all 3 types but outer G.I.wire braid in type LP1; but outer rayon braid in type LP2; but outer rayon & then further G.I.wire braid in type LP3)	4	24	12	48	96	48	192	-	1 to 50	25	20	30	For use in oils, grease, petroleum, gas, air & water. 
	6	23	12	46	92	48	184	I.D.	1 to 50	30	25	35	
	8	22	10	44	88	40	176	±0.5mm	1 to 50	35	30	40	
	10	18	9	36	72	36	144		1 to 45	40	35	50	
	13	16	8	32	64	32	128		1 to 45	55	45	65	
	16	15	7	30	60	28	120		1 to 40	75	60	80	
	19	12	5	24	48	20	96		1 to 40	90	75	100	
Temp :- upto - 40°C to +93°C	25	8	3	16	32	12	64		1 to 35	110	90	125	
# Colour - black													
* Crimped fittings reusable end connection manufactured.													
* Hydraulic hose high pressure wire braid types R1 hose, R2 hose, also manufactured.													



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Hose Nominal Bore	Outer Diameter (mm)						Hydraulic Hose Working Pressure (bar)						Min. Bend Radius (inch)						High Pressure Hose Industrial & Automotive Application
	10. Hydraulic High Pressure SAE 100 Conforming Wire Braided Hoses																		
Inner Dia. (mm)	R1	R2	R6 j517	4SP	R13	Water Clast	R1	R2	R6	4SP Spiral	R13 6 Spiral	Water Blast	R1	R2	R6	4SP	R13	Water Blast	
5	12.0	13.7	-	-	-	-	248	414	-	-	-	-	3.56	3.55	-	-	-	-	
6	14.1	15.7	12.7	17.9	-	-	224	400	28	450	-	-	3.90	4.00	2.60	6.00	-	-	
8	15.7	17.3	14.3	-	-	-	214	352	28	-	-	-	4.50	4.55	3.00	-	-	-	
10	18.1	19.7	15.9	21.4	23.8	-	179	331	28	445	690	-	5.10	5.10	3.00	7.00	6.00	-	
12.5	21.5	23.1	19.8	24.6	27.0	29.0	158	276	28	414	517	1006#	7.10	7.10	4.10	9.00	8.00	8.00	
16	24.7	26.3	23.0	28.5	-	-	131	248	24	362	-	-	7.90	7.90	4.30	10.00	-	-	
19	28.6	30.2	26.9	32.0	32.6	-	103	214	21	352	345	-	9.50	9.45	6.10	12.00	9.50	-	
25	36.6	38.9	33.4	39.7	39.2	-	89	165	17	290	345	-	11.80	11.80	8.10	13.00	12.00	-	
32	44.8	49.6	-	50.8	49.8	-	62	124	-	210	345	-	16.50	16.50	-	18.00	16.50	-	
38	52.0	56.0	-	57.2	57.3	-	50	90	-	185	345	-	19.70	19.70	-	22.00	20.00	-	
50	65.9	68.6	-	70.6	71.7	-	40	79	-	172	345	-	24.80	24.80	-	26.00	25.00	-	
* Lengths : upto 60 Mtrs. max.						* Bursting Pressure : 4 times of w.p.						# Water Blast (Bursting Pressure) : 2.5 times of wp							

**R6 is Textile Braided rubber hose construction while others are high tensile steel (HTS) wire braided

Length Formula = 1 mtr = 3.28 ft. = 39.37 inch = 1000 mm ; Pressure Formula = 1 kg/cm² = 14.22 lbs/psi = 0.98 bar = 1.01 MPa

*Hydraulic Hose Assemblies for various earth moving machineries such as L & T Poclain, Demag, BEML, JCB, etc. as per Part Nos. is HIC Universal speciality.



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Hydraulic Hose R 1 Wire Braided



High Pressure Hose R 2



Hydraulic Hose R 13



High Pressure Water Blast Hose



High Pressure Rayon
Braided Hose R 6



LPG Hose

Industrial Hoses and Hydraulic Hoses Minimum Information Required While Sending Enquiry Please:-

1. Hose Bore Nominal, ID, mm
2. Pressure , working - bar or kg/sq cm
3. Application Type
4. Quantity , Roll Lengths , meters sub. to tol. +5%, -1%
5. Hose Fitting type , detail drawing or old used sample
6. Outer Diameter ,OD mm in case ID is not known
7. Bend Radius Max. , mm

Disclaimer: Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.



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