

## 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:**

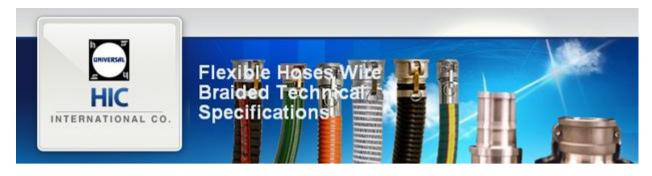
HIC INTERNATIONAL CO -Rubber Hoses Hydraulic Pneumatic Products Div

D-136, Shankar Road, New Delhi - 110060, India

**Phone:** 91-11-6547 2400, 2874 5120

Fax: 91-11-2874 2791

**E-mail:** universal@hic-india.com; belts@universaldelhi.org **Website:** http://www.rubber-steel-industrial-products.com



### 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 (P Tool)	neumatic						
(synthetic fibre braided hose with smooth rubber	5	12	14	40	I.D.	50/75/100	Structural shops, construction work,
cover type 2 conforming to IS:446	6	14	14	40	-0.5 mm	50/75/100	air compressors, etc.
13.440	8	16	14	40	+1.0 mm	50/75/100	ctc.
Temp upto 65°C	10 19		14	40		50/75/100	100
Sub. to tol. +5mts. per roll length upto 25mm I.D.,	12.5	23.5	14	40		50/75/100	
+3mts per roll length for above 25 mm I.D.	16	26.5	14	40		50/75/100	
above 25 mm 1.b.	19	31	14	40	<u>O.D.</u>	50/75/100	
# Colour - black	25	38	14	40	<u>+</u> 1.25mm	40/50/75	
Also in red colour at extra	32	46	14	40		20/40	
charges.	38	55	14	40		20/40	
	50	69	14	40		15.28/18	
<ul> <li>* Garden Hose, Radiator I</li> </ul>	lose, Sand	Blast Hose also	manufactured.				



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2. Furnace Hose Kink Free (No	n Conductiv								
Rubberized plies of woven	13	22	10	35	I.D.	15.25	Steel mills, glass		
textile with white electrical resistant inner lining having cloth marked outer rubber	19	31	10	35	-0.75 mm	15.25	work, etc. for use in electric power cables as an outer		
cover finish)	25	36.5	10	35	+1.50 mm	15.25	protective covering to avoid damage to		
T 100%	31.5		10	10		15.25	cables & thus		
Temp :- upto 100°C	38	52	10	35		15.25	protecting leakage of current.		
Electrical resistance upto 11KVA voltage.	45	59	10	35		15.25			
<b>* A - L L</b>	50	65	10	35	<u>O.D.</u>	15.25			
* Asbestos covering provided, if required on extra charges.	63	78	10	35	<u>+</u> 1.75mm	15.25			
# Colour areas	70	85	10	35		15.25			
# Colour - green	75	90	10	35		15.25			
	88	104	10	35		15.25			
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3. Water Delivery Hose	10	1.6	10	1 20	1	40/50/75	C		
(synthetic fibre braided or plies of woven textile with smooth/cloth marked/fluted rubber cover type 2		16 19	10 10	30 30		40/50/75 40/50/75	Construction sites, irrigation, mines, railways, horticulture		
conforming to IS:444	16	23	10	30	I.D.	40/50/75	and various business industries.		
Temp. :- upto 65°C	19	28	10	30	-0.5 mm	40/50/75			
Sub. to tol. $\pm$ 5mts. per roll length upto 25mm I.D., 3mts. per roll	n 25	34	10	30	+1.25 mm	40/50/75			
length for above 25mm I.D.	32	42	10	30		20/40			
* Wire Armored outside hose als	38	51	10	30		20/40			
manufactured, If required on extra charges.		56	10	30		15.25/18			
<i>y</i>	50	63	10	30	<u>O.D.</u> +	15.25/18			
# Colour - black	63	72	10	30	1.50mm	15.25			
	75	85	10	30		15.25			
# E' 11 0 E'	100	112	10	30		7.5			
* Fire Hose, Canvas Fire Fighti	ng, Fire Hos	e Reel also	manutactured						



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



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



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6. Steam Hose							
(Synthetic rubber yarn braided or woven ply textile with HR lining highly flexible	13	19	3.5	35	I.D.	15.25	Steel plants, paper mills,
with smooth or cloth marked heat & abrasion resistant outer cover)	19	27	3.5	35	<u>+</u> 1.0 mm	15.25	chemicals works, sugar mills,
	25	33	3.5	35		15.25	thermal power plants, etc. for
Conforming to BS: 5122 Type 2 & IS: 10655	32	40	3.5	35		15.25	supply of saturated stream
Temp. :- upto 153°C	38	48	3.5	35	<u>O.D.</u>	15.25	333
Sub. to tol. +3mtrs	50	63	3.5	35	<u>+</u> 1.25mm	15.25	
* 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.	63	75	3.5	35		15.25	
Stainless steel hose SS wire braid bellows for temperature upto 600 °c also manufactured.  # Colour - black							
Also mfd in blue or brown colour							



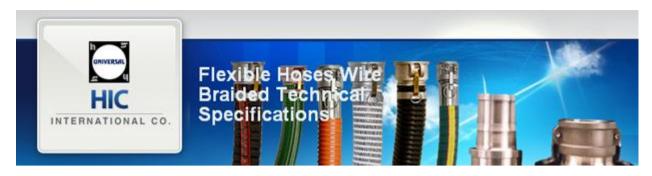
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Rubber Hose Type & High Pressure Hose Construction	Hose Nominal Bore I.Dia. (mm)	(mm) 1B	T-2B Pressure (bar) T- 1B T-2B		Burs Pres (ba	ose sting ssure r) <u>T-</u> <u>T-2B</u>	Hose Pipe Tolerance in size	Hoses Roll Lengths Availability (in meters)	Rad (mm	Bend dius ) <u>T-</u> T-2B	App. Wt. Kg/mtr <u>T-</u> <u>1B</u> <u>T-2B</u>		Flexible Hose Industrial & Agricultural Application	
7. Oil Tanker Hos	7. Oil Tanker Hose (Petroleum Transfer)													
	32	45	50	3.5	7	14	28	I.D.	3.75/7.5/15.25	130	190	1.35	1.95	Petroleum
woven ply in smooth bore with spiral wire	38	50	56	3.5	7	14	28	-0.75 mm	3.75/7.5/15.25	155	230	1.65	2.40	products handling viz., diesel, petrol,
	50	63	70	3.5	7	14	28	+1.50 mm	3.75/7.5/15.25	205	305	2.25	3.00	kerosene, industrial fuels,
smooth outer rubber cover	63	78	85	3.5	7	14	28	-	3.75/7.5/15.25	255	380	3.00	4.13	etc. in storage tanks, road &
resistant to oil, weather &	75	89	100	3.5	7	14	28	O.D.	3.75/7.5/15.25	305	460	3.75	5.25	rail tankers.
abrasion comprising copper wire between reinforcement plies to provide electrical continuity)	102	116	125	3.5	7	14	28	<u>+</u> 2.0mm	3.75/7.5/15.25	410	560	4.80	8.25	
Conforming to IS:10733 & BS 3492  Temp: upto 93°C														Me
# 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. * Oil Drilling, Pet	and a way D	lt Oil S		9 Dis-										



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8. Welding Gas Hose							
(Synthetic rubber textile yarn braided hose with flat fluted/smooth rubber	6	14	12	50	I.D.	50/75/100	Steel mills, engineering
cover)	8	16	12	50	<u>+</u> 0.5 mm	50/75/100	workshop, thermal power
conforming to IS:447 & DIN 8541	10	18	12	50	<u>O.D.</u>	50/75/100	stations, ship building, welding
Tem :- upto65°C					<u>+</u> 1.0mm		equipments, etc.
Sub. to tol. +2mts. per roll length							Sm Silvers
# Colour - <b>Red</b> - 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) <u>LP1</u> <u>LP2 LP3</u>			Hose Bursting Pressure(bar) LP1 LP2 LP3			Hose Pipe Tolerance in size	Hoses Roll Lengths Availability (in meters)	Min. Bend Radius (mm) <u>LP1</u> <u>LP2</u> <u>LP3</u>			Flexible Hose Industrial & Agricultural Application
<ol><li>Low Pressure Flexib Braided)</li></ol>	le Fuel Line Hos	se (Wir	е										
(seamless oil resistant black	4	24	12	48	96	48	192	-	1 to 50	25	20	30	For use in oils, grease,
rubber tube in all 3 types but outer	6 <b>23 12 46</b>		46	92	48	184	I.D.	1 to 50	30	25	35	petroleum, gas, air & water.	
G.I.wire braid in type <u>LP1</u> ; but outer	8	8		88	40	176	<u>+</u> 0.5mm	1 to 50	35	30	40		
rayon braid in type LP2; but outer	10			72	36	144		1 to 45	40	35	50	-	
rayon & then further G.I.wire	13	16	8	32	64	32	128		1 to 45	55	45	65	
braid in type <u>LP3</u> )	16	15	7	30	60	28	120		1 to 40	75	60	80	San James Ville
Temp :- upto - 40°C to +93°C	19	12	5	24	48	20	96		1 to 40	90	75	100	
# Colour - black	r - black		3	16	32	12	64		1 to 35	110	90	125	to South
* Crimped fittings reusable end connection manufactured.													
* Hydraulic hose hig	h pressure wi	re bra	id ty	pes F	1 hose,	R2 hos	e, also	manufactured.		•	•	•	

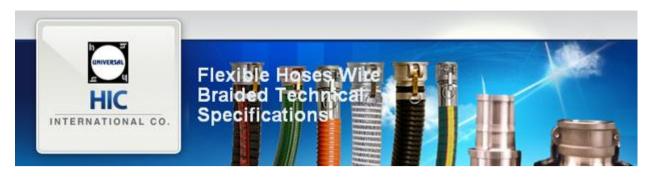


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Hose Nominal Bore 10. Hy	Nominal Outer Diameter (mm) Bore  10. Hydraulic High Pressure SAE 100 Conforming Wire Braided Hoses						Hydraulic Hose Working Pressure (bar)							Mii	n. Bend (inc		5		High Pressure Hose Industrial & Automotive Application
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	hot air, car washer , water,
5	12.0	13.7	-	-	-	-	248	414	-	-	-	-	3.56	3.55	-	-	-	-	petroleum ,
6	14.1	15.7	12.7	17.9	-		224	400	28	450	-	-	3.90	4.00	2.60	6.00	-	-	gas ,oil , etc.
8	15.7	17.3	14.3	-	-		214	352	28	-	-	-	4.50	4.55	3.00	-	-	-	Temperature :
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	-	-40 deg C to +
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	125 deg C
16	24.7	26.3	23.0	28.5	-	-	131	248	24	362	-	-	7.90	7.90	4.30	10.00	-	-	l i
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	-	l i
32	44.8	49.6	-	50.8	49.8	-	62	124	-	210	345	-	16.50	16.50	-	18.00	16.50	-	l i
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 wp				: 2.5 times of		

<sup>\*\*</sup>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.



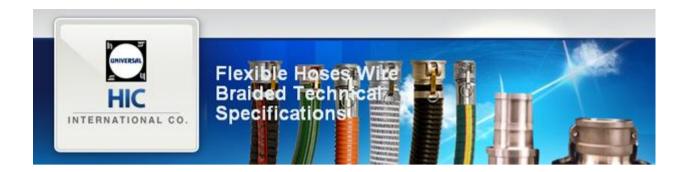
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Hydraulic Hose R 1 Wire Braided



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%
- 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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