

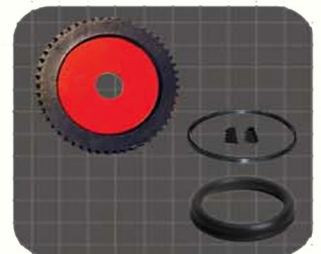
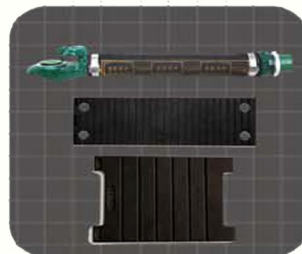


HOSES AND HOSE ASSEMBLIES



- **DREDGE HOSES**
- **HAND BUILT HOSES**
- **HYDRAULIC HOSES**
- **INDUSTRIAL HOSES**
- **SPIRAL HOSES**
- **MOULDED PRODUCTS**

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OUR INTRODUCTIONS

MFTL are the principal manufacturers of rubber products since 1984 are now in the market with the complete range of Hand Built Hoses, Hydraulic Hoses, Industrial Hoses, Spiral Hoses, Dredge Hoses, Hose assemblies with end fittings as per specification IS,BS, ASTM,SAE,DIN and IRS Standards.

MFTL an ISO 9001 : 2015 Certified company developing technically challenging products including import substitutes for majority of the products

It caters to every industry ranging from Mining, Steel, Petroleum, Chemical & Fertilizer, Construction, Rice Mills, Ports and Automobiles sectors. MFTL also exports some of its products to various countries such as Australia, UK, USA, Saudi Arabia and UAE etc.,

Plant Photographs



CONTENT	PAGE NO
Our Introduction & Plant Photographs	2
Table of Contents	3
Industrial Hoses	4 - 6
Air Water Hose, Air/ Pneumatic Tool Hose, Carbon Free Hose	4
Rock Drill Hose, Super Rock Drill Hose	5
Steam Hose, Super Steam Hose, Sand Blast Hose, Super Sand Blast Hose	6
Hydraulic Hoses	7 - 9
100 R1 AT/ 1SN Hose, 100 R1 ST Hose (Thick Cover), 100 R1 High Temperature Hose	7
100 R2 AT/ 2SN Hose, 100 R2 ST Hose (Thick Cover), 100 R2 High Temperature Hose	8
100 R5R Hose, 100 R6/ 1TE Hose, 100 R6 High Temperature Hose, 100 R3 / 2TE Hose	9
Spiral Hoses	10 - 12
HIPULSE 4SP, HIPULSE 4SH	10
HIPULSE R12, HIPULSE R13	11
HIPULSE R15	12
Special Hoses	12 - 18
Compact - 1SC Hose, Compact - 2SC Hose	12
Jet Wash - 3000 PSI Hose, Jet Wash - 4000 PSI Hose, Jet Wash - 5000 PSI Hose	13
Petsel Dispensing Hose, 1-Wire LPG Hose, 2 - Textile LPG Hose	14
Fuel Dispensing Hose, Multi Wash Hose, Super Spray Hose, Chemical Hose	15
Rig Hose, Rig Hose HT	16
Dredge Application Hoses	17 - 18
Dredge Delivery & Suction Hoses, Rubber Bellow, Reducer	17
Self Floating Dredge Hoses	18
Moulded Products (Rubber)	18
Grooved Rubber Sole Plates, Seals & Gaskets, Buffer Springs, Draft Gear Pads	
Conversion Table	19
Our Existing Network in India & World	20
Dredge Customers & Other Customers	21



AIR WATER HOSE

Reference standard: IS 444 :Type 2 and IS 446 :Type 1 (Exceeds performance requirement)

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.RMA -Class C oil resistance.
Reinforcement: One high tenacity synthetic textile braid.
Cover: Weather ,abrasion resistant synthetic rubber blend.

Working temperature: -30 °C to +80 °C / -22°F to + 176° F

Application: All types of water delivery and air application in engineering , manufacturing ,workshop , construction industry and irrigation.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
ITS RR06MF	1/4"	6.3	-4	6	-	12.7	12	174	48	696	65	125
ITS RR08MF	5/16"	8	-5	8	-	14.7	12	174	48	696	85	165
ITS RR10MF	3/8"	10	-6	10	-	16.3	12	174	48	696	90	200
ITS RR12MF	1/2"	12.5	-8	12	-	20.2	12	174	48	696	115	295
ITS RR16MF	5/8"	16	-10	16	-	23.1	12	174	48	696	140	330
ITS RR19MF	3/4"	19	-12	19	-	27.4	12	174	48	696	152	480
ITS RR25MF	1.0"	25	-16	25	-	34.4	12	174	48	696	200	685
ITS RR31MF	1 1/4"	31.5	-20	31	-	42.8	12	174	48	696	250	1050
ITS RR38MF	1 1/2"	38	-24	38	-	49.0	12	174	48	696	305	1245
ITS RR51MF	2.0"	51	-32	51	-	63.5	12	174	48	696	355	1670



AIR /PNEUMATIC TOOL HOSE

Reference standard: IS 446 :Type 2 (Exceeds performance requirement)

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.RMA -Class C oil resistance.
Reinforcement: One high tenacity synthetic textile braid.
Cover: Weather ,abrasion resistant synthetic rubber blend.

Working temperature: -30 °C to +80 °C / -22°F to + 176° F

Application: All types of water delivery and air application in engineering , manufacturing ,workshop , construction industry and irrigation.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
ITS UU06MF	1/4"	6.3	-4	6	-	12.7	14	203	56	812	65	130
ITS UU08MF	5/16"	8	-5	8	-	14.7	14	203	56	812	85	170
ITS UU10MF	3/8"	10	-6	10	-	16.3	14	203	56	812	90	205
ITS UU12MF	1/2"	12.5	-8	12	-	20.2	14	203	56	812	115	300
ITS UU16MF	5/8"	16	-10	16	-	23.1	14	203	56	812	140	335
ITS UU19MF	3/4"	19	-12	19	-	27.4	14	203	56	812	152	485
ITS UU25MF	1.0"	25	-16	25	-	34.4	14	203	56	812	200	690
ITS UU31MF	1 1/4"	31.5	-20	31	-	42.8	14	203	56	812	250	1055
ITS UU38MF	1 1/2"	38	-24	38	-	49.0	14	203	56	812	305	1255
ITS UU51MF	2.0"	51	-32	51	-	63.5	14	203	56	812	355	1680



CARBON FREE HOSE

Reference standard: MFTL Proprietary

Construction: **Tube:** Off white specially compounded non conductive synthetic rubber blend
Reinforcement: One or two high tenacity synthetic textile braid.
Cover: Green weather and ozone resistant synthetic rubber blend.
 Glass fiber cover also available on request for additional protection from heat, flame and molten metal.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F

Application: Furnace door coolant, electrical cable coolant for electric arc furnace in steel industry and other non conductive application.

Recommended fluids: Water.

Features: Low leakage current of less than 20µA at 6000 volt DC. Constant pressure rating and 1:4 safety factor . Glass fiber cover are specially designed to protect hose from damage due to splash of molten metal, heat and open flame. 2 1/2" and 3.0" are in rigid mandrel.

Note: Service temperature in excess and MBR lower than recommendation may materially reduce life of the hose.
 1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²
 Bend radius measured at inside of bend.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
ITS 1AA12MF	3/8"	9.5	-6	10	-	17.0	17	247	68	986	90	230
ITS 1AA12MF	1/2"	12.5	-8	12	-	21.6	17	247	68	986	100	350
ITS 1AA19MF	3/4"	19	-12	19	-	31.2	17	247	68	986	130	710
ITS 1AA25MF	1.0"	25	-16	25	-	36.5	17	247	68	986	150	820
ITS 1AA31MF	1 1/4"	31.5	-20	31	-	45.0	17	247	68	986	190	1140
ITS 1AA38MF	1 1/2"	38	-24	38	-	53.0	17	247	68	986	205	1460
ITS 1AA51MF	2.0"	51	-32	51	-	65.5	17	247	68	986	310	1970
ITS 1AA63MF	2 1/2"	63	-40	63	-	81.0	17	247	68	986	510	2750
ITS 1AA76MF	3.0"	76	-48	76	-	94.0	17	247	68	986	640	3320

All above sizes are not a dimension, it is a label used to identify product size .

ROCK DRILL HOSE

Reference standard: IS 446 :Type 3 and ISO 2398-Type 2-Class B (Exceeds performance requirement)

Construction: **Tube:** Black oil mist resistant specially compounded nitrile and other synthetic rubber blend.
Reinforcement: One high tenacity synthetic textile braid. Two textile braid for 2.0".
Cover: Weather ,abrasion and oil resistant synthetic rubber blend. (Pin pricked)

Working temperature: -30 °C to +82 °C / -22° F to + 180° F

Application: Suitable for medium duty compressed air mixed with little oil mist service for construction, mining, drilling equipment, oil and gas exploration, steel industry ,quarries and rental industry.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
ITS VV 10MF	3/8"	10	-6	10	-	17.0	21	305	84	1218	110	215
ITS VV 12MF	1/2"	12.5	-8	12	-	21.0	21	305	84	1218	130	310
ITS VV 16MF	5/8"	16	-10	16	-	25.0	21	305	84	1218	160	410
ITS VV 19MF	3/4"	19	-12	19	-	29.0	21	305	84	1218	200	540
ITS VV 25MF	1.0"	25	-16	25	-	36.0	21	305	84	1218	250	750
ITS VV 31MF	1 1/4"	31.5	-20	31	-	44.0	21	305	84	1218	320	1060
ITS VV 38MF	1 1/2"	38	-24	38	-	52.0	21	305	84	1218	390	1415
ITS VV 51MF	2.0"	51	-32	51	-	65.0	21	305	84	1218	510	1910



SUPER ROCK DRILL HOSE

Reference standard: MFTL Proprietary . Exceeds performance requirement IS 446 :Type 3 and ISO 2398-Type 3.

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Weather ,abrasion and oil resistant synthetic rubber blend.(Pin pricked)

Working temperature: -30 °C to +80 °C / -22°F to + 176° F

Application: All types of high pressure heavy duty pneumatic drilling of ground, quarries etc.
Strictly not for high temperature air application.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
IWS NN12MF	1/2"	12.5	-8	12	-	22.4	34.5	500	138	2001	125	435
IWS NN16MF	5/8"	16	-10	16	-	25.6	34.5	500	138	2001	140	520
IWS NN19MF	3/4"	19	-12	19	-	29.0	34.5	500	138	2001	200	630
IWS NN25MF	1.0"	25	-16	25	-	35.6	34.5	500	138	2001	250	860
IWS NN31MF	1 1/4"	31.5	-20	31	-	43.3	34.5	500	138	2001	350	1200
IWS NN38MF	1 1/2"	38	-24	38	-	49.5	34.5	500	138	2001	380	1390
IWS NN51MF	2.0"	51	-32	51	-	63.5	34.5	500	138	2001	500	1970



STEAM HOSE

Reference standard: IS 10655 -Type 2, BS 5342-Type 1 -Non oil resistant cover

Construction: **Tube:** Specially compounded steam heat resistant EPDM rubber.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Weather and heat resistant specially compounded EPDM rubber. Pin pricked.

Working temperature: Maximum operating temperature 185 °C (365 °F).

Application: Transfer of steam for processing products and cleaning equipments in refining & petrochemical, paper industry, oil & gas exploration, ship building, industrial cleaning markets etc.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
IWS AA12MF	1/2"	12.5	-8	12	-	24.0	10	145	100	1450	180	440
IWS AA16MF	5/8"	16	-10	16	-	27.0	10	145	100	1450	200	520
IWS AA19MF	3/4"	19	-12	19	-	30.0	10	145	100	1450	240	590
IWS AA25MF	1.0"	25	-16	25	-	37.0	10	145	100	1450	300	780





SUPER STEAM HOSE

Reference standard: IS 10655 -Type 3, BS 5342-Type 2 -Non oil resistant cover

Construction: **Tube:** Specially compounded steam heat resistant EPDM rubber.
Reinforcement: Two high tensile carbon steel wire braid.
Cover: Weather and heat resistant specially compounded EPDM rubber. Pin pricked.

Working temperature: Maximum operating temperature 232°C (450 °F).

Application: Transfer of steam for processing products and cleaning equipments in refining & petrochemical, paper industry, oil & gas exploration, ship building, industrial cleaning markets etc.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
IWS BB12MF	1/2"	12.5	-8	12	-	25.0	17	247	170	2465	180	500
IWS BB16MF	5/8"	16	-10	16	-	29.0	17	247	170	2465	200	620
IWS BB19MF	3/4"	19	-12	19	-	33.0	17	247	170	2465	240	750
IWS BB25MF	1.0"	25	-16	25	-	40.0	17	247	170	2465	300	970



SAND BLAST HOSE

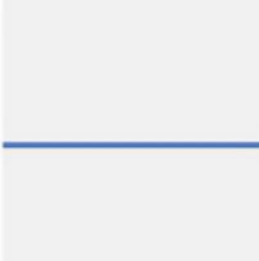
Reference standard: IS 5894 : 2005 / ISO 3861 : 2008

Construction: **Tube:** Static dissipating synthetic rubber blend.
Reinforcement: Two high tenacity synthetic textile braid with antistatic copper wire.
Cover: Black wrapped finished weather , abrasion resistant synthetic rubber blend.

Working temperature: -30 °C to + 80 °C / -22°F to +176° F

Application: Convey wet and dry sand , grit blasting materials for cleaning, cutting or finishing casting , stone, glass and metal surfaces.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
ITS ZZ12MF	1/2"	12.5	-8	12	-	28.5	10	145	40	580	127	630
ITS ZZ16MF	5/8"	16	-10	16	-	33.0	10	145	40	580	176	810
ITS ZZ19MF	3/4"	19	-12	19	-	38.0	10	145	40	580	203	1020
ITS ZZ25MF	1.0"	25	-16	25	-	47.0	10	145	40	580	305	1530
ITS ZZ31MF	1 1/4"	31.5	-20	31	-	54.5	10	145	40	580	320	1930
ITS ZZ38MF	1 1/2"	38	-24	38	-	60.5	10	145	40	580	455	2140
ITS ZZ51MF	2.0"	51	-32	51	-	73.0	10	145	40	580	500	2620



SUPER SAND BLAST HOSE

Reference standard: IS 5894 : 2005 / ISO 3861 : 2008 (Increased tube thickness)

Construction: **Tube:** Static dissipating synthetic rubber blend.
Reinforcement: Two high tenacity synthetic textile braid with antistatic copper wire.
Cover: Black wrapped finished weather , abrasion resistant synthetic rubber blend.

Working temperature: -30 °C to + 80 °C / -22°F to +176° F

Application: Convey wet and dry sand , grit blasting materials for cleaning, cutting or finishing casting , stone, glass and metal surfaces.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
ITS 1BB12MF	1/2"	12.5	-8	12	-	32.0	10	145	40	580	130	810
ITS 1BB16MF	5/8"	16	-10	16	-	36.0	10	145	40	580	180	950
ITS 1BB19MF	3/4"	19	-12	19	-	39.0	10	145	40	580	210	1070
ITS 1BB25MF	1.0"	25	-16	25	-	47.0	10	145	40	580	310	1470
ITS 1BB31MF	1 1/4"	31.5	-20	31	-	54.5	10	145	40	580	330	1850
ITS 1BB38MF	1 1/2"	38	-24	38	-	61.0	10	145	40	580	470	2120
ITS 1BB51MF	2.0"	51	-32	51	-	74.0	10	145	40	580	550	2680



SUPER AIR HOSE

Reference standard: Proprietary (Exceeds performance requirement of IS 446 :Type 2)

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.RMA -Class C oil resistance.
Reinforcement: One high tenacity synthetic textile braid.
Cover: Weather ,abrasion resistant synthetic rubber blend.

Working temperature: -30 °C to + 80 °C / -22°F to + 176° F

Application: All types of water delivery and air application in engineering , manufacturing ,workshop , construction industry and irrigation.

Recommended fluids: Water, Compressed air(including oil mist), mild chemicals etc.

Features: High flexibility, light weight, exceeds relevant standard for performance requirement , constant pressure rating and 1:4 safety factor .

Note: Service temperature in excess and MBR lower than recommendation may materially reduce life of the hose.

1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²

Bend radius measured at inside of bend.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL												
ITS XX06MF	1/4"	6.3	-4	6	-	12.7	21	305	84	1218	65	130
ITS XX08MF	5/16"	8	-5	8	-	14.7	21	305	84	1218	85	175
ITS XX10MF	3/8"	10	-6	10	-	16.7	21	305	84	1218	90	210
ITS XX12MF	1/2"	12.5	-8	12	-	20.7	21	305	84	1218	115	305
ITS XX16MF	5/8"	16	-10	16	-	23.7	21	305	84	1218	140	350
ITS XX19MF	3/4"	19	-12	19	-	28.2	21	305	84	1218	152	510
ITS XX25MF	1.0"	25	-16	25	-	35.3	21	305	84	1218	200	720
ITS XX31MF	1 1/4"	31.5	-20	31	-	43.9	21	305	84	1218	250	1090
ITS XX38MF	1 1/2"	38	-24	38	-	50.3	21	305	84	1218	305	1270
ITS XX51MF	2.0"	51	-32	51	-	63.5	21	305	84	1218	355	1725

All above sizes are not a dimension, it is a label used to identify product size .

HYDRAULIC HOSES



100 R1 AT /1SN HOSE

Reference standard: EN857 1SC / ISO 11237-1SC

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system low- medium pressure lines and return lines.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HWS A06MF	1/4"	6.3	-4	6	11.1	13.4	225	3263	900	13050	75	220
HWS A08MF	5/16"	8	-5	8	12.7	15	215	3118	860	12470	86	260
HWS A10MF	3/8"	10	-6	10	15.1	17.4	180	2610	720	10440	94	345
HWS A12MF	1/2"	12.5	-8	12	18.3	20.6	160	2320	640	9280	135	435
HWS A16MF	5/8"	16	-10	16	21.4	23.7	130	1885	520	7540	150	515
HWS A19MF	3/4"	19	-12	19	25.4	27.7	105	1523	420	6090	180	655
HWS A25MF	1.0"	25	-16	25	33.3	35.6	90	1305	360	5220	225	975
HWS A31MF	1 1/4"	31.5	-20	31	40.5	43.5	65	943	260	3770	315	1300
HWS A38MF	1 1/2"	38	-24	38	46.8	50.6	50	725	200	2900	375	1600
HWS A51MF	2.0"	51	-32	51	60.2	64	40	580	160	2320	473	2200



100 R1 ST HOSE (Thicker cover)

Reference standard: EN853 1ST / ISO 1436-1 1ST

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system low- medium pressure lines and return lines.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HWS J06MF	1/4"	6.3	-4	6	11.1	15.4	225	3263	900	13050	75	285
HWS J08MF	5/16"	8	-5	8	12.7	17	215	3118	860	12470	86	335
HWS J10MF	3/8"	10	-6	10	15.1	19.3	180	2610	720	10440	94	425
HWS J12MF	1/2"	12.5	-8	12	18.3	22.5	160	2320	640	9280	135	525
HWS J16MF	5/8"	16	-10	16	21.4	25.7	130	1885	520	7540	150	625
HWS J19MF	3/4"	19	-12	19	25.4	29.7	105	1523	420	6090	180	780
HWS J25MF	1.0"	25	-16	25	33.3	37.5	90	1305	360	5220	225	1130
HWS J31MF	1 1/4"	31.5	-20	31	40.5	44.7	65	943	260	3770	315	1420
HWS J38MF	1 1/2"	38	-24	38	46.8	51.1	50	725	200	2900	375	1650
HWS J51MF	2.0"	51	-32	51	60.2	65.4	40	580	160	2320	473	2400



100 R1 HIGH TEMPERATURE HOSE

Reference standard: EN857 1SC / ISO 11237-1SC

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +135 °C / -40 °F to + 275 °F .

Application: Hydraulic system low- medium pressure lines and return lines.

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HWS R11006MF	1/4"	6.3	-4	6	11.1	13.4	225	3263	900	13050	75	220
HWS R11008MF	5/16"	8	-5	8	12.7	15	215	3118	860	12470	86	260
HWS R110010MF	3/8"	10	-6	10	15.1	17.4	180	2610	720	10440	94	345
HWS R110012MF	1/2"	12.5	-8	12	18.3	20.6	160	2320	640	9280	135	435
HWS R110016MF	5/8"	16	-10	16	21.4	23.7	130	1885	520	7540	150	515
HWS R110019MF	3/4"	19	-12	19	25.4	27.7	105	1523	420	6090	180	655
HWS R110025MF	1.0"	25	-16	25	33.3	35.6	90	1305	360	5220	225	975
HWS R110031MF	1 1/4"	31.5	-20	31	40.5	43.5	65	943	260	3770	315	1300
HWS R110038MF	1 1/2"	38	-24	38	46.8	50.6	50	725	200	2900	375	1600
HWS R110051MF	2.0"	51	-32	51	60.2	64	40	580	160	2320	473	2100



100 R2 AT /2SN HOSE

Reference standard: SAE J517 100R2S AT / EN853 2SN / ISO 1436-1 2SN

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: Two high tensile carbon steel wire braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system high pressure lines and return lines.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL												
HWS B06MF	1/4"	6.3	-4	6	12.8	15.0	400	5800	1600	23200	75	360
HWS B08MF	5/16"	8	-5	8	14.2	16.4	350	5075	1400	20300	86	405
HWS B10MF	3/8"	10	-6	10	16.7	19.0	330	4785	1320	19140	94	530
HWS B12MF	1/2"	12.5	-8	12	19.7	21.9	275	3988	1100	15950	135	630
HWS B16MF	5/8"	16	-10	16	23.0	25.4	250	3625	1000	14500	150	790
HWS B19MF	3/4"	19	-12	19	26.9	29.3	215	3118	860	12470	180	950
HWS B25MF	1.0"	25	-16	25	34.8	38.1	165	2393	660	9570	225	1430
HWS B31MF	1 1/4"	31.5	-20	31	44.5	48.3	125	1813	500	7250	315	2060
HWS B38MF	1 1/2"	38	-24	38	50.8	54.6	90	1305	360	5220	375	2370
HWS B51MF	2.0"	51	-32	51	63.5	67.3	80	1160	320	4640	473	3070

100 R2 ST HOSE (Thicker Cover)

Reference standard: EN853 2ST / ISO 1436-1 2ST

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: Two high tensile carbon steel wire braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system high pressure lines and return lines.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL												
HWS K06MF	1/4"	6.3	-4	6	12.8	17.0	400	5800	1600	23200	75	430
HWS K08MF	5/16"	8	-5	8	14.2	18.6	350	5075	1400	20300	86	490
HWS K10MF	3/8"	10	-6	10	16.7	20.9	330	4785	1320	19140	94	620
HWS K12MF	1/2"	12.5	-8	12	19.7	24.1	275	3988	1100	15950	135	730
HWS K16MF	5/8"	16	-10	16	23.0	27.3	250	3625	1000	14500	150	890
HWS K19MF	3/4"	19	-12	19	26.9	31.3	215	3118	860	12470	180	1080
HWS K25MF	1.0"	25	-16	25	34.8	38.8	165	2393	660	9570	225	1480
HWS K31MF	1 1/4"	31.5	-20	31	44.5	49.5	125	1813	500	7250	315	2190
HWS K38MF	1 1/2"	38	-24	38	50.8	55.9	90	1305	360	5220	375	2520
HWS K51MF	2.0"	51	-32	51	63.5	68.5	80	1160	320	4640	473	3250

100 R2 HIGH TEMPERATURE HOSE

Reference standard: SAE J517 100R2S AT / EN853 2SN / ISO 1436-1 2SN

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: Two high tensile carbon steel wire braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +135 °C / -40 °F to + 275 °F .

Application: Hydraulic system high pressure lines and return lines.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL												
HWS R210006MF	1/4"	6.3	-4	6	12.8	15.0	400	5800	1600	23200	75	360
HWS R210008MF	5/16"	8	-5	8	14.2	16.4	350	5075	1400	20300	86	405
HWS R210010MF	3/8"	10	-6	10	16.7	19.0	330	4785	1320	19140	94	530
HWS R210012MF	1/2"	12.5	-8	12	19.7	21.9	275	3988	1100	15950	135	630
HWS R210016MF	5/8"	16	-10	16	23.0	25.4	250	3625	1000	14500	150	790
HWS R210019MF	3/4"	19	-12	19	26.9	29.3	215	3118	860	12470	180	950
HWS R210025MF	1.0"	25	-16	25	34.8	38.1	165	2393	660	9570	225	1430
HWS R210031MF	1 1/4"	31.5	-20	31	44.5	48.3	125	1813	500	7250	315	2060
HWS R210038MF	1 1/2"	38	-24	38	50.8	54.6	90	1305	360	5220	375	2370
HWS R210051MF	2.0"	51	-32	51	63.5	67.3	80	1160	320	4640	473	3070

HYDRAULIC HOSES



100 R5 R HOSE

Reference standard: SAE 100 R5

Construction: **Tube:** Oil resistant synthetic rubber blend. One textile inner braid over tube.
Reinforcement: One high tensile carbon steel wire braid over textile layer.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system low- medium pressure lines , general purpose and agriculture application.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HWS Q 06MF	1/4"	6.3	-5	6	-	14.6	210	3045	840	12180	85	250
HWS Q 08MF	5/16"	8	-6	8	-	16.7	157	2277	628	9106	100	320
HWS Q 11MF	13/32"	11	-8	11	-	19.5	140	2030	560	8120	115	390
HWS Q 12MF	1/2"	12.5	-10	12	-	23.0	122	1769	488	7076	140	510
HWS Q 16MF	5/8"	16	-12	16	-	27.0	105	1523	420	6090	165	650
HWS Q 22 MF	7/8"	22	-16	22	-	31.7	56	812	224	3248	185	670
HWS Q 28MF	1 1/8"	29	-20	28	-	38.3	43	624	172	2494	230	860

SAE dash size for 100 R5 is different from other standard dash size.



100 R6 / 1TE HOSE

Reference standard: SAE J 517-100R6 / EN854 R6 / EN854-1TE / ISO 4079-R6-1TE

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: One high tensile synthetic textile braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system low pressure, drain and return lines.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HTS F06MF	1/4"	6.3	-4	6	-	12.7	28	406	112	1624	65	130
HTS F08MF	5/16"	8	-5	8	-	14.3	28	406	112	1624	75	160
HTS F10MF	3/8"	10	-6	10	-	16.0	28	406	112	1624	75	170
HTS F12MF	1/2"	12.5	-8	12	-	19.8	28	406	112	1624	100	250
HTS F16MF	5/8"	16	-10	16	-	23.0	28	406	112	1624	125	305
HTS F19MF	3/4"	19	-12	19	-	26.5	28	406	112	1624	150	385
HTS F25MF	1.0"	25	-16	25	-	33.5	21	305	84	1218	205	550



100 R6 HIGH TEMPERATURE HOSE

Reference standard: SAE J 517-100R6 / EN854 R6 / EN854-1TE / ISO 4079-R6-1TE

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: One high tensile synthetic textile braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +135 °C / -40 °F to + 275 °F .

Application: Hydraulic system low pressure, drain and return lines.

PRODUCT CODE	HOSE SIZE				BRAID	OD	MAXIMUM		MINIMUM		MINIMUM	WEIGHT
	inch	metric	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HTS R610006MF	1/4"	6.3	-4	6	-	12.7	28	406	112	1624	65	120
HTS R610008MF	5/16"	8	-5	8	-	14.3	28	406	112	1624	75	140
HTS R610010MF	3/8"	10	-6	10	-	16.0	28	406	112	1624	75	165
HTS R610012MF	1/2"	12.5	-8	12	-	19.8	28	406	112	1624	100	240
HTS R610016MF	5/8"	16	-10	16	-	23.0	28	406	112	1624	125	285
HTS R610019MF	3/4"	19	-12	19	-	26.5	28	406	112	1624	150	360
HTS R610025MF	1.0"	25	-16	25	-	33.5	21	305	84	1218	205	520



100 R3 / 2TE HOSE

Reference standard: SAE J 517-100R3 / EN854 R3 / ISO 4079-2TE / EN854-2TE

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: Two high tensile synthetic textile braid.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F .

Application: Hydraulic system low pressure and return lines.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
HTS E06MF	1/4"	6.3	-4	6	-	14.5	87	1262	348	5046	75	165
HTS E08MF	5/16"	8	-5	8	-	17.5	84	1218	336	4872	100	250
HTS E10MF	3/8"	10	-6	10	-	19.1	78	1131	312	4524	100	280
HTS E12MF	1/2"	12.5	-8	12	-	23.8	70	1015	280	4060	125	400
HTS E16MF	5/8"	16	-10	16	-	27.0	61	885	244	3538	140	470
HTS E19MF	3/4"	19	-12	19	-	31.8	52	754	208	3016	150	680
HTS E25MF	1.0"	25	-16	25	-	38.1	40	580	160	2320	205	840
HTS E31MF	1 1/4"	31.5	-20	31	-	44.5	26	377	104	1508	250	990



HIPULSE 4SP

Reference standard:

EN 856 4SP, ISO 3862-1 4SP

Construction:

Tube: Oil resistant synthetic rubber blend.
Reinforcement: 4 Spiral Layer of High Tensile steel wire.
Cover: Oil , weather ,abrasion resistant synthetic rubber blend.

Working temperature:

For hydraulic fluids : -40 °C to +100 °C / -40 °F to + 212 °F .
 Up to 120 °C / 248 °F maximum for 10% of total working hrs.
 Exception : Air : max + 70° C / 158 °F and Water : max + 85° C / 185 °F.

Application:

Heavy duty impulsive high pressure hydraulic applications like excavators, dosers, dumpers, cranes, compactors, rock breakers, hydraulic drill rigs & other construction equipments.

Recommended fluids:

Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water glycol based fluids & air.

Features:

Qualified for 1 million impulse cycle which is more than twice to relevant standard requirements. Good flexibility for compact hydraulic circuits. Good weather & ozone resistance.

Note:

Service temperature in excess of 100°C / 212 °F and MBR lower than recommendation may materially reduce life of the hose.
 1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²
 Bend radius measured at inside of bend.



PRODUCT CODE	HOSE SIZE				OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	weight
	inch	metric	dash	DN		bar	psi	bar	psi		
MFTL											
M4SP-8	1/2"	12.5	-8	12	25.0	425	6150	1700	24600	230	
M4SP-10	5/8"	16	-10	16	28.0	400	5800	1600	23200	250	
M4SP-12	3/4"	19	-12	19	31.8	380	5500	1520	22000	300	
M4SP-16	1.0"	25	-16	25	39.0	320	4650	1280	18600	340	

All above sizes are not a dimension, it is a label used to identify product size .

*Due to continual product improvement, SERP reserves the right to alter product specifications without prior notice.

HIPULSE 4SH

Reference standard:

EN 856 4SH, ISO 3862-1 4SH

Construction:

Tube: Oil resistant synthetic rubber blend.
Reinforcement: 4 Spiral Layer of High Tensile steel wire.
Cover: Oil , weather ,abrasion resistant synthetic rubber blend.

Working temperature:

For hydraulic fluids : -40 °C to +100 °C / -40 °F to + 212 °F .
 Up to 120 °C / 248 °F maximum for 10% of total working hrs.
 Exception : Air : max + 70° C / 158 °F and Water : max + 85° C / 185 °F.

Application:

Heavy duty impulsive high pressure hydraulic applications like excavators, dosers, dumpers, cranes, compactors, rock breakers, hydraulic drill rigs & other construction equipments.

Recommended fluids:

Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water glycol based fluids & air.

Features:

Qualified for 1 million impulse cycle which is more than twice to relevant standard requirements. Good flexibility for compact hydraulic circuits. Good weather & ozone resistance.

Note:

Service temperature in excess of 100°C / 212 °F and MBR lower than recommendation may materially reduce life of the hose.
 1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²
 Bend radius measured at inside of bend.



PRODUCT CODE	HOSE SIZE				OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	weight
	inch	metric mm	dash	DN		bar	psi	bar	psi		
MFTL											
M4SH-12	3/4"	19	-12	19	31.9	420	6000	1680	24000	280	
M4SH-16	1.0"	25	-16	25	38.3	385	5600	1540	22400	340	

All above sizes are not a dimension, it is a label used to identify product size .

*Due to continual product improvement, SERP reserves the right to alter product specifications without prior notice.

SPIRAL HOSES

HIPULSE R12

- Reference standard:** EN 856 R12, ISO 3862-1 R12, SAE 100 R12
- Construction:** **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: 4 Spiral Layer of High Tensile steel wire.
Cover: Oil , weather ,abrasion resistant synthetic rubber blend.
- Working temperature:** For hydraulic fluids : -40 °C to +121 °C / -40 °F to + 250 °F .
 Exception : Air : max + 70° C / 158 °F and Water : max + 85° C / 185 °F.
- Application:** Heavy duty impulsive high pressure hydraulic applications like excavators, dosers, dumpers, cranes, compactors, rock breakers, hydraulic drill rigs & other construction equipments.
- Recommended fluids:** Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water glycol based fluids & air.
- Features:** Qualified for 1 million impulse cycle which is more than twice to relevant standard requirements. Good flexibility for compact hydraulic circuits. Good weather & ozone resistance.
- Note:** Service temperature in excess of 100°C / 212 °F and MBR lower than recommendation may materially reduce life of the hose.
 1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²
 Bend radius measured at inside of bend.



PRODUCT CODE	HOSE SIZE				OD	MAXIMUM WORKING		MINIMUM BURST PRESSURE		MINIMUM BEND	weight
	inch	metric mm	dash	DN		mm	bar	psi	bar		
MFTL											
MR12-8	1/2"	12.5	-8	12	23.9	280	4000	1120	16000	180	
MR12-10	5/8"	16	-10	16	27.5	280	4000	1120	16000	200	
MR12-12	3/4"	19	-12	19	31.1	280	4000	1120	16000	240	
MR12-16	1.0"	25	-16	25	38.5	280	4000	1120	16000	300	

All above sizes are not a dimension, it is a label used to identify product size .
 *Due to continual product improvement, SERP reserves the right to alter product specifications without prior notice.

HIPULSE R13

- Reference standard:** EN 856 R13, ISO 3862-1 R13, SAE 100 R13
- Construction:** **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: 4 Spiral Layer of High Tensile steel wire.
Cover: Oil , weather ,abrasion resistant synthetic rubber blend.
- Working temperature:** For hydraulic fluids : -40 °C to +121 °C / -40 °F to + 250 °F .
 Exception : Air : max + 70° C / 158 °F and Water : max + 85° C / 185 °F.
- Application:** Heavy duty impulsive high pressure hydraulic applications like excavators, dosers, dumpers, cranes, compactors, rock breakers, hydraulic drill rigs & other construction equipments.
- Recommended fluids:** Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water glycol based fluids & air.
- Features:** Qualified for 1 million impulse cycle which is more than twice to relevant standard requirements. Good flexibility for compact hydraulic circuits. Good weather & ozone resistance.
- Note:** Service temperature in excess of 100°C / 212 °F and MBR lower than recommendation may materially reduce life of the hose.
 1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²
 Bend radius measured at inside of bend.



PRODUCT CODE	HOSE SIZE				OD	MAXIMUM WORKING		MINIMUM BURST PRESSURE		MINIMUM BEND	weight
	inch	metric mm	dash	DN		mm	bar	psi	bar		
MFTL											
MR13-12	3/4"	19	-12	19	31.8	350	5000	1400	20000	240	
MR13-16	1.0"	25	-16	25	38.4	350	5000	1400	20000	300	

All above sizes are not a dimension, it is a label used to identify product size .
 *Due to continual product improvement, SERP reserves the right to alter product specifications without prior notice.



HIPULSE R15

Reference standard: ISO 3862-1 R15, SAE 100 R15

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: 4 Spiral Layer of High Tensile steel wire.
Cover: Oil, weather, abrasion resistant synthetic rubber blend.

Working temperature: For hydraulic fluids : -40 °C to +121 °C / -40 °F to + 250 °F .
 Exception : Air : max + 70° C / 158 °F and Water : max + 85° C / 185 °F.

Application: Heavy duty impulsive high pressure hydraulic applications like excavators, dosers, dumpers, cranes, compactors, rock breakers, hydraulic drill rigs & other construction equipments.

Recommended fluids: Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water glycol based fluids & air.

Features: Qualified for 1 million impulse cycle which is more than twice to relevant standard requirements. Good flexibility for compact hydraulic circuits. Good weather & ozone resistance.

Note: Service temperature in excess of 100°C / 212 °F and MBR lower than recommendation may materially reduce life of the hose.
 1.0 Mpa = 10bar, 1.0 Mpa = 145 psi, 1 bar = ~1.0 kg /cm²
 Bend radius measured at inside of bend.

PRODUCT CODE	HOSE SIZE				OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	weight
	Inch	metric mm	dash	DN		mm	bar	psi	bar		
MFTL											
MR15-8	1/2"	12.5	-8	12	24.3	420	6000	1680	24000	200	
MR15-12	3/4"	19	-12	19	32.0	420	6000	1680	24000	265	
MR15-16	1.0"	25	-16	25	38.5	420	6000	1680	24000	330	

All above sizes are not a dimension, it is a label used to identify product size .
 *Due to continual product improvement, SERP reserves the right to alter product specifications without prior notice.

SPECIAL HOSES

COMPACT-1SC HOSE

Reference standard: EN857 1SC / ISO 11237-1SC

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Oil, weather, abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F.

Application: Hydraulic system low- medium pressure lines with narrow installations, return & suction lines.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL												
HWS C06MF	1/4"	6.3	-4	6	10.4	12.6	225	3263	900	13050	50	195
HWS C08MF	5/16"	8	-5	8	11.8	14.0	215	3118	860	12470	55	220
HWS C10MF	3/8"	10	-6	10	13.8	16.3	180	2610	720	10440	65	280
HWS C12MF	1/2"	12.5	-8	12	17.0	19.4	160	2320	640	9280	90	350
HWS C16MF	5/8"	16	-10	16	20.2	22.6	130	1885	520	7540	100	460
HWS C19MF	3/4"	19	-12	19	23.8	26.2	105	1523	420	6090	120	560
HWS C25MF	1.0"	25	-16	25	31.3	33.7	90	1305	360	5220	150	830
HWS C31MF	1 1/4"	31.5	-20	31	38.4	41.0	65	943	260	3770	210	1060

COMPACT-2SC HOSE

Reference standard: EN857 2SC / ISO 11237-2SC

Construction: **Tube:** Oil resistant synthetic rubber blend.
Reinforcement: Two high tensile carbon steel wire braid.
Cover: Oil, weather, abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -40 °C to +100 °C / -40 °F to + 212 °F.

Application: Hydraulic system high pressure lines with narrow installations, return & suction lines.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL												
HWS D06MF	1/4"	6.3	-4	6	11.4	13.6	400	5800	1600	23200	50	285
HWS D08MF	5/16"	8	-5	8	13.0	15.2	350	5075	1400	20300	55	330
HWS D10MF	3/8"	10	-6	10	15.0	17.3	330	4785	1320	19140	65	400
HWS D12MF	1/2"	12.5	-8	12	18.5	20.8	275	3988	1100	15950	90	510
HWS D16MF	5/8"	16	-10	16	21.8	24.2	250	3625	1000	14500	100	680
HWS D19MF	3/4"	19	-12	19	25.6	28	215	3118	860	12470	120	835
HWS D25MF	1.0"	25	-16	25	33.4	35.8	165	2393	660	9570	150	1210
HWS D31MF	1 1/4"	31.5	-20	31	41.0	43.6	125	1813	500	7250	210	1620

JET WASH-3000 PSI HOSE

Reference standard: MFTL Proprietary. SAE 100 R17(DIMENSIONAL)

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid . 1/2" in two braid construction.
Cover: Wrapped finished weather ,abrasion cold and oil resistant synthetic rubber blend.
Black and Blue cover. Pricked cover available on request with minimum order qty of 3000m.

Working temperature: Designed for application up to -40 °C to +155 °C /311 °F maximum.

Application: High pressure power cleaner suitable for dockyard, multiplex, commercial units, garages etc.
Strictly not for steam and impulsive hydraulic application.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
IWS DD06MF	1/4"	6.3	-4	6	-	12.6	210	3045	840	12180	50	190
IWS DD08MF	5/16"	8	-5	8	-	14.0	210	3045	840	12180	55	220
IWS DD10MF	3/8"	10	-6	10	-	16.3	210	3045	840	12180	65	290
IWS DD12MF	1/2"	12.5	-8	12	-	20.6	210	3045	840	12180	90	450

JET WASH-4000 PSI HOSE

Reference standard: MFTL Proprietary. SAE 100 R17(DIMENSIONAL)

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid . 1/2" in two braid construction.
Cover: Wrapped finished weather ,abrasion cold and oil resistant synthetic rubber blend.
Black and Blue cover. Pricked cover available on request with minimum order qty of 3000m.

Working temperature: Designed for application up to -40 °C to +155 °C /311 °F maximum.

Application: High pressure power cleaner suitable for dockyard, multiplex, commercial units, garages etc.
Strictly not for steam and impulsive hydraulic application.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
IWS EE06MF	1/4"	6.3	-4	6	-	12.6	280	4060	840	12180	50	190
IWS EE08MF	5/16"	8	-5	8	-	14.0	280	4060	840	12180	55	220
IWS EE10MF	3/8"	10	-6	10	-	16.3	280	4060	840	12180	65	290
IWS EE12MF	1/2"	12.5	-8	12	-	20.6	280	4060	840	12180	90	450

JET WASH-5000 PSI HOSE

Reference standard: MFTL Proprietary

Construction: **Tube:** Specially compounded nitrile and other synthetic rubber blend.
Reinforcement: Two high tensile carbon steel wire braid .
Cover: Wrapped finished weather ,abrasion cold and oil resistant synthetic rubber blend.
Black and Blue cover. Pricked cover available on request with minimum order qty of 3000m.

Working temperature: Designed for application up to -40 °C to +155 °C /311 °F maximum.

Application: High pressure power cleaner suitable for dockyard, multiplex, commercial units, garages etc.
Strictly not for steam and impulsive hydraulic application.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
IWS LL06MF	1/4"	6.3	-4	6	-	13.8	350	5075	1400	20300	50	270
IWS LL08MF	5/16"	8	-5	8	-	15.3	350	5075	1400	20300	55	320
IWS LL10MF	3/8"	10	-6	10	-	17.5	350	5075	1400	20300	90	430
IWS LL12MF	1/2"	12.5	-8	12	-	20.8	350	5075	1400	20300	130	590



PETSEL DISPENSING HOSE

Reference standard: EN1360 / ISO 1307-TYPE 3M

Construction: **Tube:** Black oil & gasoline resistant synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Oil, weather, abrasion, ozone and heat resistant synthetic rubber blend. Wrapped finish.

Working temperature: -30°C to +60°C / -22°F to +140°F

Application: Dispensing of all type of gasoline /petrol and diesel in service stations and all types of dispensing pumps.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL					mm	mm	bar	psi	bar	psi	mm	gm/m
IWS CC16MF	5/8"	16	-10	16	-	25.4	17	247	68	986	100	502
IWS CC19MF	3/4"	19	-12	19	-	28.7	17	247	68	986	150	604
IWS CC25MF	1.0"	25	-16	25	-	35.1	17	247	68	986	200	795



1-WIRE LPG HOSE

Reference standard: IS 9573-Type 1 / BS 4089-Type 1

Construction: **Tube:** LPG resistant synthetic rubber blend.
Reinforcement: One high tensile carbon steel wire braid.
Cover: Black synthetic rubber blend. **Pin pricked.**

Working temperature: -30 °C to + 65 °C / - 22°F to + 149 °F
Hose is capable of this rating . But LP gas should never be elevated above 38 °C / 100 ° F

Application: Transfer of LPG in liquid or vapour form which is unvented between operations (permanently filled with liquid or vapour) including automotive.

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL					mm	mm	bar	psi	bar	psi	mm	gm/m
IWS 1KK 12MF	1/2"	12.5	-8	12	-	23.0	25	363	100	1450	150	460
IWS 1KK 16MF	5/8"	16	-10	16	-	26.0	25	363	100	1450	185	550
IWS 1KK 19MF	3/4"	19	-12	19	-	31.0	25	363	100	1450	225	750
IWS 1KK 25MF	1.0"	25	-16	25	-	38.0	25	363	100	1450	300	1000
IWS 1KK 31MF	1 1/4"	31.5	-20	31	-	46.0	25	363	100	1450	380	1350
IWS 1KK 38MF	1 1/2"	38	-24	38	-	52.0	25	363	100	1450	450	1550
IWS 1KK 51MF	2.0"	51	-32	51	-	67.0	25	363	100	1450	600	2320



2-TEXTILE LPG HOSE

Reference standard: IS 9573-Type 2 / BS 1762 D / ISO 1307

Construction: **Tube:** LPG resistant synthetic rubber blend.
Reinforcement: Two high tensile synthetic textile braid. Antistatic copper wire.
Cover: Black synthetic rubber blend. **Pin pricked.**

Working temperature: -30 °C to + 65 °C / - 22°F to + 149 °F

Application: Transfer and delivery of LPG(Propane and Butane) in liquid or vapour form.
 Transfer of natural gas in open ventilated areas (1 psiG maximum working pressure)

PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL					mm	mm	bar	psi	bar	psi	mm	gm/m
ITS 1LL 06MF	1/4"	6.3	-4	6	-	16.6	25	363	100	1450	150	240
ITS 1LL 12MF	1/2"	12.5	-8	12	-	23.0	25	363	100	1450	150	340
ITS 1LL 19MF	3/4"	19	-12	19	-	31.0	25	363	100	1450	225	570
ITS 1LL 25MF	1.0"	25	-16	25	-	38.0	25	363	100	1450	300	760
ITS 1LL 31MF	1 1/4"	31.5	-20	31	-	46.0	25	363	100	1450	380	1050
ITS 1LL38MF	1 1/2"	38	-24	38	-	52.0	25	363	100	1450	450	1240
ITS 1LL 51MF	2.0"	51	-32	51	-	67.0	25	363	100	1450	600	2000

FUEL DISPENSING HOSE

Reference standard: IS 2396

Construction: **Tube:** Black Oil & gasoline resistant synthetic rubber blend.
Reinforcement: Two high tenacity synthetic textile braid .Antistatic copper wire.
Cover: Oil , weather ,abrasion, ozone and heat resistant synthetic rubber blend. Wrapped finish.

Working temperature: -30°C to +60°C / -22°F to +140°F

Application: Dispensing of all type of gasoline /petrol and diesel in service stations and all types of dispensing pumps.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
ITS OO16MF	5/8"	16	-10	16	-	26.0	17	247	68	986	100	415
ITS OO19MF	3/4"	19	-12	19	-	32.0	17	247	68	986	150	680
ITS OO25MF	1.0"	25	-16	25	-	38.0	17	247	68	986	210	830

MULTI WASH HOSE

Reference standard: IS 444-Type 3B. Exceeds performance requirements.

Construction: **Tube:** Synthetic rubber blend.
Reinforcement: One high tenacity synthetic textile braid.
Cover: Weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -30 °C to +80 °C / -22°F to +176° F

Application: All car washing and medium pressure washer application in garages, service station, shopping mall, food processing industry and other engineering and related and industries.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
ITS PP10MF	3/8"	10	-6	10	-	18.0	28	406	112	1624	100	270
ITS PP12MF	1/2"	12.5	-8	12	-	21.0	28	406	112	1624	130	330

SUPER SPRAY HOSE

Reference standard: IS 1677-Type C. Exceeds performance requirements.

Construction: **Tube:** Synthetic rubber blend.
Reinforcement: One high tenacity synthetic textile braid.
Cover: Weather ,abrasion, ozone and heat resistant synthetic rubber blend.

Working temperature: -30 °C to +80 °C / -22°F to +176° F

Application: Pressure spraying of agro pharmaceutical and /or fertilizer products in agriculture, forestry etc.



PRODUCT CODE	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			mm	mm	bar	psi		
MFTL	inch	metric mm	dash	DN	mm	mm	bar	psi	bar	psi	mm	gm/m
ITS QQ10MF	3/8"	10	-6	10	-	19.0	60	870	240	3480	100	290
ITS QQ12MF	1/2"	12.5	-8	12	-	22.0	60	870	240	3480	130	370



CHEMICAL HOSE

Reference standard: IS 7654 :Type 1

Construction: **Tube:** Specially compounded EPDM black.
Reinforcement: High tenacity synthetic textile braid.
Cover: Specially compounded EPDM black. Embossed branding.

Working temperature: -30 °C to +100 °C / -22°F to +212°F

Application: Discharging all types of *dilute chemicals* such as mineral acids, mineral alkalis, inorganic salts, common alcohols etc. *Not for above concentrated chemicals.*

Product code	HOSE SIZE				BRAID OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL					mm	mm	bar	psi	bar	psi	mm	gm/m
ITS 1MM 12MF	1/2"	12.5	-8	12	-	22.0	10	145	40	580	127	310
ITS 1MM 16MF	5/8"	16	-10	16	-	26.0	10	145	40	580	140	380
ITS 1MM 19MF	3/4"	19	-12	19	-	30.0	10	145	40	580	152	510
ITS 1MM 25MF	1.0"	25	-16	25	-	36.0	10	145	40	580	203	605
ITS 1MM 31MF	1 1/4"	31.5	-20	31	-	44.0	10	145	40	580	254	910
ITS 1MM38MF	1 1/2"	38	-24	38	-	51.0	10	145	40	580	305	1120
ITS 1MM 51MF	2.0"	51	-32	51	-	66.0	10	145	40	580	355	1630



Rig Hose

Ref. Standard: MFTL Proprietary

Construction: **Tube:** Heat and Mild oil mist resistant synthetic rubber blend
Reinforcement: Two layers of high tensile steel wire
Cover: Heat, weather, ozone resistant. Pin pricked.

Working Temperature: -40 °C to +100 °C/ -40 °F to +212 °F

Application: For Pneumatic application in heavy duty drill rig compressors.

PRODUCT CODE	HOSE SIZE				Braid OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	weight
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL					mm	mm	bar	psi	bar	psi	mm	GM/M
HTS RIG1006MF	1-1/2"	38	-24	38	-	51	70	1000	210	3000	510	1420
HTS RIG1007MF	2"	51	-32	51	-	65	70	1000	210	3000	635	2100



Rig Hose HT

Ref. Standard: MFTL Proprietary

Construction: **Tube:** Heat and Mild oil mist resistant synthetic rubber blend
Reinforcement: Two layers of high tensile steel wire
Cover: Heat, weather, ozone resistant. Pin pricked.

Working Temperature: -40 °C to +135 °C/ -40 °F to +275 °F

Application: For Pneumatic application in heavy duty drill rig compressors.

Application: Hydraulic system high pressure lines and return lines

PRODUCT CODE	HOSE SIZE				Braid OD	OD	MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS	weight
	inch	metric mm	dash	DN			bar	psi	bar	psi		
MFTL					mm	mm	bar	psi	bar	psi	mm	GM/M
HTS RIG1206MF	1-1/2"	38	-24	38	-	51	70	1000	210	3000	510	1350
HTS RIG1207MF	2"	51	-32	51	-	65	70	1000	210	3000	635	2000

DREDGE HOSE - FLOATING & NON FLOATING HOSES**Application :**

- Used in Ports, canals, lakes, rivers, etc
- Handles sand, slurry, mud, silt etc.

Features :

A thicker lining compounds suitably received based on natural and synthetic rubbers which shall have high tensile, high abrasion resistant, resistant to crack growth, good resilient, resistant to crack initiation, suitable to handle slurry, mud and other types of dredge material. Reinforced with multiple plies of High tensile cords suitably impregnated with rubber compound applied by a suitable technique to take care of hoop forces, end loads. Discontinuous Steel rings are provided to take care of suction, crush resistance, avoid kinking and to improve the sturdiness of the hose. Abrasion resistant, weather-resistant, sea water resistant rubber compound suitably received for outer cover.

End Fittings : Duly rubberised built in steel/rubber flanges with MS-Backup plates on both ends. Flange dimensions as per customers's requirement.

Hydrostatic Testing : 100% of the hoses are hydrostatically tested for a proof pressure

Working Pressure : max up to 20 kg/cm²

Proof (Test) Pressure : 1.5 times the working pressure

Designed Burst Pressure : Min : 4 times of working pressure

Bend Test : Tested to 30° under working pressure (one hose for every new construction)

ID of the Hose : Ranging from 150 mm to 1,000 mm ID

Length : up to 200 mm ID - 20 mtr single length

from 250 mm to 800 mm ID - 7.5 mtr single length

above 800 mm ID - 2.5 mtr single length



Our company is geared for fast and flexible delivery of tailor-made products to all corners of the world. Our Production facilities and capacity has been carefully tuned to this requirement.

We also offer a very complete range, which is divided into the following product groups:

- Pressure hoses
- Suction hoses
- Special types, like Elephant Trunk hoses
- Self floating hoses (Floatline)
- expansion joints
- Reducers & Rubber bends

SELF FLOATING DREDGE HOSES

Mithra self floating hoses are meant to replace conventional HDPE pipeline with floaters. The robust design and construction of the self floating hoses make them dependable and average life of the hoses is more

Features:

- Outer cover with excellent abrasion resistance and UV protection.
- Lining id distinguished with colour markings to understand the life.
- Closed Cellular foam flotation casing to prevent water absorption.
- Lining is made of High quality, high abrasion and wear resistant rubber.
- Flange design according to customers' request.
- Bending angle: up to 45 degrees in working condition.



Range

We manufacture dredge hoses starting from 200mm ID to 900mm ID size, duly rubberized built in steel / rubber flanges with MS back up plates on both ends. Testing Pressures: 100% of hoses are hydro statically tested for a proof pressure. 20 kg / sq cm is the maximum working pressure (WP) and are designed for minimum burst pressure as 4 times of WP.

Moulded Products



Grooved Rubber Sole Plates

Track pads used between concrete sleepers and steel rails to take care of compressive shear loads as per Indian Railway Standards.

Seals, Gaskets

steel, coal, power sector, ports, Pipes (PSC, FRP, Concrete, CI & DI)
manufacturing units, as per IS:5382



Buffer Springs

Spring elements used in draw gear of BG coaches having resistance to shock, impact, and have good endurance and energy absorption properties as per Indian Railway Standards.

CONVERSION TABLE



	METRIC TO PSI			
	Kilo Pascals (Kpa)	Mega Pascals (Mpa)	Bar (Bar)	Pounds per Square Inch (psi)
	100	0.1	1	14.5
	200	0.2	2	29
	300	0.3	3	43.5
	400	0.4	4	58
	500	0.5	5	72.5
	600	0.6	6	87.0
	700	0.7	7	101.5
	800	0.8	8	116.0
	900	0.9	9	130.5
	1,000	1	10	145.0
	2,000	2.0	20	290.1
	3,000	3.0	30	435.1
	4,000	4.0	40	580.2
	5,000	5.0	50	725.2
	6,000	6.0	60	870.2
	7,000	7.0	70	1,015.3
	8,000	8.0	80	1,160.3
	9,000	9.0	90	1,305.3
	10,000	10.0	100	1,450
	20,000	20.0	200	2,901
	30,000	30.0	300	4,351
	40,000	40.0	400	5,802
	50,000	50.0	500	7,252
	60,000	60.0	600	8,702
	70,000	70.0	700	10,153
	80,000	80.0	800	11,603
	90,000	90.0	900	13,053
	100,000	100	1000	14,504
	200,000	200	2000	29,008
	300,000	300	3000	43,511

	PSI TO METRIC			
	Pounds per Square Inch (psi)	Kilo Pascals (Kpa)	Mega Pascals (Mpa)	Bar (Bar)
	10	68.9	0.07	0.7
	20	137.9	0.14	1.4
	30	206.8	0.21	2.1
	40	275.8	0.28	2.8
	50	344.7	0.34	3.4
	60	413.7	0.41	4.1
	70	482.6	0.48	4.8
	80	551.6	0.55	5.5
	90	620.5	0.62	6.2
	100	689	0.7	6.9
	200	1,379	1.4	13.8
	300	2,068	2.1	20.7
	400	2,758	2.8	27.6
	500	3,447	3.4	34.5
	600	4,137	4.1	41.4
	700	4,826	4.8	48.3
	800	5,516	5.5	55.2
	900	6,205	6.2	62.1
	1000	6,895	6.9	68.9
	2000	13,790	13.8	137.9
	3000	20,684	20.7	206.8
	4000	27,579	27.6	275.8
	5000	34,474	34.5	344.7
	6000	41,369	41.4	413.7
	7000	48,263	48.3	482.6
	8000	55,158	55.2	551.6
	9000	62,053	62.1	620.5
	10000	68,948	68.9	689
	20000	137,895	137.9	1,379
	30000	206,843	206.8	2,068
	40000	275,790	275.8	2,758

	UNIT	CONVERSION UNIT	FACTOR
PRESSURE	1 pound per square-inch	bar	0.06895
	1 bar	psi	14.5035
	1 pound per square-inch	Mpa	0.006895
	1 mega pascal	pasi	145.035
	1 kilo pascal	bar	0.01
	1 bar	kPa	100
1 mega pascal	bar	10	
1 bar	Mpa	0.1	
1 inch	mm	25.4	
LENGTH	1 millimetre	in	0.03934
	1 foot	m	0.3048
	1 metre	ft	3.28084
AREA	1 square-inch	cm2	6.4516
	1 cube centimetre	sq in	0.155
VOLUME	1 gallon (UK)	l	4.54596
	1 litre	gal (UK)	0.219976
	1 gallon (UK)	l	3.78533
	1 litre	gal (UK)	0.264177
WEIGHT	1 pound	kg	0.453592
	1 kilogramme	lb	2.204622
PLOW RATE	1 gallon per minute	l / min	0.54596
	1 litre per minute (UK)	gal / min. (UK)	0.219976
	1 gallon per minute (US)	l / min	3.78533
	1 litre per minute	gal / min. (US)	0.264178
VELOCITY	1 foot per second	m / s	0.3048
	1 metre per second	ft / s	3.28084
TEMPERATURE	Fahrenheit degree	°C	5/9 (°F-32)
	Celsius degree	°F	°C9/5+32



Our Existing Network in World



DREDGE CUSTOMERS



OTHER CUSTOMERS





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An ISO 9001:2015 Certified Company

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