



**VARDHMAN
FLEXIBLE HOSES**

Partners in Flexible Piping System



Vardhman Flexible Hoses manufacture and supply Stainless-Steel Corrugated Hoses and Assemblies for diversified Industry Applications. Our production and supply of hose range from 6 MM-300 MM with SS Grade 304, 316 and 321. Hi-Tech manufacturing facility with quality testing and inspection enable us to provide nearly maintenance free hose with high degree operational safety and long service life.



INDUSTRIES WE SERVE

Our stainless-steel corrugated hoses and assemblies cater to a wide range of industries, including:



Pharmaceuticals



Refineries



Fertilizer



Steel Plant



Steam, Hot water



Railways



Gas & Oil



Power Pump Station



Petrochemical Industry

HOW WE WORK

STEP 1

CUSTOMER ENQUIRY RECEIVED

The process begins when the customer submits an enquiry (via email, phone, or web form). This could involve a request for a quote or product details.

STEP 2

SALES TEAM REVIEW

Our expert sales team reviews your requirements, suggests the best solutions, and provides pricing details. We ensure clear communication before finalizing the order.

STEP 3

ORDER PROCESSING

Verify payment, check inventory, confirm order, and schedule dispatch.

STEP 4

DISPATCH

Packaging, shipping, and customer notification with tracking info.

STEP 5

CUSTOMER REVIEW

We ask our customers to express their satisfaction with the product or service, covering aspects like quality, functionality, and usability.

STAINLESS STEEL CORRUGATED HOSE

These are pressure tight hose made from the tube or from strip, with corrugation, helical or to the axis of the hose made by deforming the metal, Its flexibility being obtained by bending the corrugations.

It is usually covered with a Stainless Steel Braid to ensure high pressure resistance and control the elongation of the tube.

● **GRADES AVAILABLE :**

SS304, SS304L, SS316, SS316L, SS321

● **APPLICATION :**

BOILERS, PNEUMATIC, RAILWAYS,
WATER AND LIQUIDS TRANSFER

● **TEMPERATURE RANGE :**

-270°C TO 700°C

TECHNICAL SHEET - STAINLESS STEEL HOSE SERIES SSH : 11MF

This series represents Mechanically Formed Standard Pitch Hoses

PART NO.	HOSE ID		NO. OF BRAID	HOSE OD MM	BEND RADIUS		MAXIMUM WORKING PRESSURE	MAXIMUM BURST PRESSURE	WEIGHT PER MTR (kg)	STANDARD LENGTH
	MM	INCH			Static	Dynamic				
SSH11MF-006Q/0WQ	6mm	1/4"	0	9.60	25	85	12	440	0.07	50/100
SSH11MF-006Q/1WQ			1	10.70			120		0.13	50/100
SSH11MF-006Q/2WQ			2	11.60			190		0.21	50/100
SSH11MF-008Q/0WQ	8MM	5/16"	0	12.00	32	135	10	400	0.07	50/100
SSH11MF-008Q/1WQ			1	12.80			100		0.14	50/100
SSH11MF-008Q/2WQ			2	13.80			160		0.22	50/100
SSH11MF-010Q/0WQ	10MM	3/8"	0	14.00	38	145	8	360	0.08	50/100
SSH11MF-010Q/1WQ			1	15.06			90		0.17	50/100
SSH11MF-010Q/2WQ			2	16.20			140		0.26	50/100
SSH11MF-012Q/0WQ	12MM	1/2"	0	16.70	45	145	8	320	0.12	50/100
SSH11MF-012Q/1WQ			1	17.60			80		0.22	50/100
SSH11MF-012Q/2WQ			2	18.70			125		0.34	50/100
SSH11MF-016Q/0WQ	16MM	5/8"	0	21.60	55	165	6	280	0.14	50/100
SSH11MF-016Q/1WQ			1	22.60			70		0.32	50/100
SSH11MF-016Q/2WQ			2	24.20			110		0.50	50/100
SSH11MF-020Q/0WQ	20MM	3/4"	0	26.80	65	175	5	240	0.26	50/100
SSH11MF-020Q/1WQ			1	28.10			60		0.45	50/100
SSH11MF-020Q/2WQ			2	29.90			100		0.70	50/100
SSH11MF-025Q/0WQ	25MM	1"	0	32.50	80	205	3	180	0.35	50/100
SSH11MF-025Q/1WQ			1	34.00			45		0.64	50/100
SSH11MF-025Q/2WQ			2	35.70			75		0.95	50/100
SSH11MF-032Q/0WQ	32MM	1¼"	0	41.04	100	265	2	160	0.43	25/50
SSH11MF-032Q/1WQ			1	42.70			40		0.84	25/50
SSH11MF-032Q/2WQ			2	44.50			62		1.28	25/50
SSH11MF-040Q/0WQ	40MM	1½"	0	49.60	130	305	1	140	0.62	25/50
SSH11MF-040Q/1WQ			1	51.40			35		1.10	25/50
SSH11MF-040Q/2WQ			2	53.40			55		1.58	25/50
SSH11MF-050Q/0WQ	50MM	2"	0	60.00	160	325	1	120	0.86	25/50
SSH11MF-050Q/1WQ			1	61.80			30		1.56	25/50
SSH11MF-050Q/2WQ			2	64.05			45		2.28	25/50

NOTE: Pressure Rating mentioned is at 20 deg C kindly refer temperature correction factor for the same.

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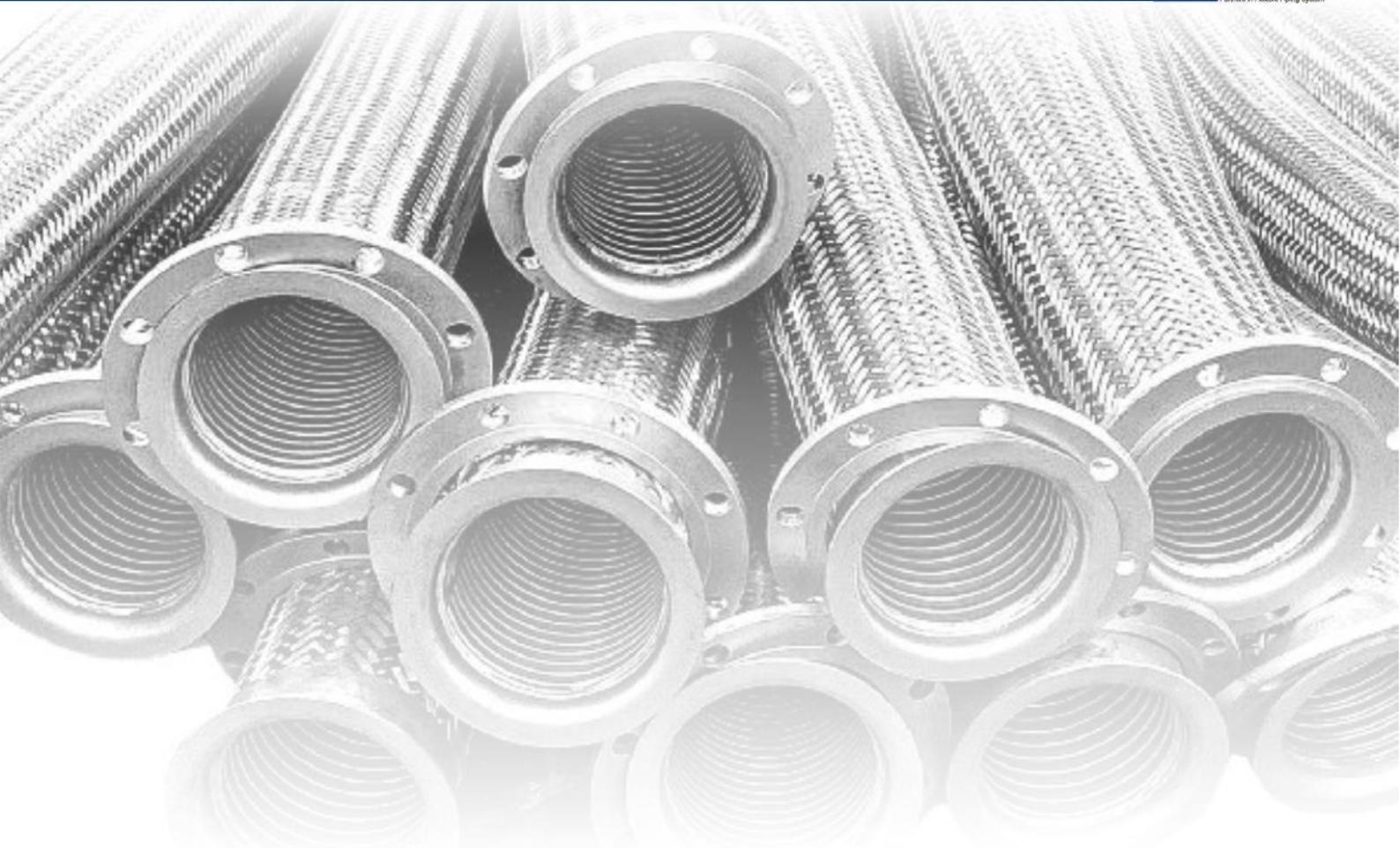
TECHNICAL SHEET - STAINLESS STEEL HOSE SERIES SSH : 11HF

This series represents Hydro Formed Standard Pitch Hoses

PART NO.	HOSE ID		NO. OF BRAID	HOSE OD MM	BEND RADIUS		MAXIMUM WORKING PRESSURE	MAXIMUM BURST PRESSURE	WEIGHT PER MTR (Kg)	STANDARD LENGTH
	MM	INCH			Static	Dynamic				
SSH11HF-040Q/0WQ	40 MM	1½"	0	50.2	130	305	2	140	0.51	25/50
SSH11HF-040Q/1WQ			1	51.4			35		1.25	25/50
SSH11HF-040Q/2WQ			2	52.6			55		1.60	25/50
SSH11HF-050Q/0WQ	50 MM	2"	0	65.0	160	325	1	120	0.72	25/50
SSH11HF-050Q/1WQ			1	66.5			30		1.34	25/50
SSH11HF-050Q/2WQ			2	68.1			45		2.01	25/50
SSH11HF-065Q/0WQ	65 MM	2½"	0	81.0	180	420	1	96	0.98	25/30
SSH11HF-065Q/1WQ			1	82.1			24		1.85	25/30
SSH11HF-065Q/2WQ			2	84.46			35		2.83	25/30
SSH11HF-080Q/0WQ	80 MM	3"	0	94.8	200	450	0.5	72	1.15	25/30
SSH11HF-080Q/1WQ			1	96.7			18		2.23	25/30
SSH11HF-080Q/2WQ			2	99.06			28		3.40	25/30
SSH11HF-100Q/0WQ	100 MM	4"	0	116.75	280	560	0.5	64	1.45	25/30
SSH11HF-100Q/1WQ			1	121.2			16		3.30	25/30
SSH11HF-100Q/2WQ			2	123.86			25		4.75	25/30
SSH11HF-125Q/0WQ	125 MM	5"	0	14.4	320	730	0.4	56	2.04	20/25
SSH11HF-125Q/1WQ			1	144.5			14		4.30	20/25
SSH11HF-125Q/2WQ			2	148			20		5.95	20/25
SSH11HF-150Q/0WQ	150 MM	6"	0	169.5	380	820	0	40	2.89	20/25
SSH11HF-150Q/1WQ			1	173.2			10		5.50	20/25
SSH11HF-150Q/2WQ			2	176.5			15		7.80	15/20
SSH11HF-200Q/0WQ	200 MM	8"	0	225	440	1015	0.2	28	4.40	10/15
SSH11HF-200Q/1WQ			1	228			7		7.90	10/15
SSH11HF-200Q/2WQ			2	232			12		11.40	10/15
SSH11HF-250Q/0WQ	250 MM	10"	0	283	560	1220	0.2	24	7.80	10/15
SSH11HF-250Q/1WQ			1	287			6		12.80	10/15
SSH11HF-250Q/2WQ			2	291			10		17.90	10/15
SSH11HF-300Q/0WQ	300 MM	12"	0	332	660	1420	0.2	20	10.40	10/15
SSH11HF-300Q/1WQ			1	339			5		16.60	10/15
SSH11HF-300Q/2WQ			2	346			8		23.10	10/15

NOTE: Pressure Rating mentioned is at 20 deg C kindly refer temperature correction factor for the same.

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STAINLESS STEEL HOSE ASSEMBLIES

For final application of stainless steel corrugated hose, It is connected with end connections which together becomes a hose assembly.

Following is our range of end connections as per user demand :

- Flanges end connections (Class-150, Class-300, Table-D etc.)
- Threaded fittings (BSP, BSPT, NPT etc.)
- Camlock and quick release couplings.
- Long pipe ends, elbow reducers etc.
- Various customized fittings as per customer needs.

All Hoses and Assemblies supplied by us are 100% tested and leakproof



THREADED ASSEMBLIES

We offer threaded assemblies in BSP, NPT, UNF, Metric and more with thread sizes up to 100mm.



FLANGED ASSEMBLIES

We offer flanged assemblies in ASA#CLASS 150, 300, B.Std. Table D, E, F.



CUSTOMIZED ASSEMBLIES

We offer our customers various types of special fittings as per their requirements.



PTFE HOSES

PTFE hoses are used in heavy duty environments where high temperature, high pressure, chemical resistance and elastic qualities are required.

● APPLICATION :

HIGH TEMPERATURE APPLICATIONS:
 OIL, STEAM, ACID, DIESEL, PETROLEUM,
 CHEMICAL, PHARMA & FOOD INDUSTRY

● TEMPERATURE RANGE :

-65°C TO +260°C

TECHNICAL SHEET

	Nominal Dia										
PART NO.	I.D.		O.D.		W.T.	W.P		B.P		MIN. BEND RADIUS	
	MM	INCH	MM	INCH		(PSI)	(BAR)	(PSI)	(BAR)	MM	INCH
PTF/11MP-03P/1WQ	3.5	1/8"	6.7	0.264	1	3625	250	14500	1000	16	0.63
PTF/11MP-04P/1WQ	4.8	3/16"	7.6	0.299	0.85	2972.5	205	11890	820	20	0.787
PTF/11MP-06P/1WQ	6.4	1/4"	9.4	0.370	0.85	2718.8	187.5	10875	750	27	1.063
PTF/11MP-08P/1WQ	8	5/16"	11.1	0.437	0.85	2356.3	162.5	9425	650	27	1.063
PTF/11MP-10P/1WQ	10	3/8"	13.1	0.516	0.85	1885	130	7540	520	33	1.299
PTF/11MP-10P/1WQ	10.3	13/32"	13.5	0.531	0.85	1812.5	125	7250	500	46	1.811
PTF/11MP-12P/1WQ	12.7	1/2"	16.2	0.638	0.8	1631.3	112.5	6525	450	66	2.598
PTF/11MP-16P/1WQ	16	5/8"	19.4	0.764	1	1160	80	4640	320	150	5.906
PTF/11MP-19P/1WQ	19	3/4"	23	0.905	1.2	1015	70	4060	280	226	8.898
PTF/11MP-22P/1WQ	22.2	7/8"	26.2	1.031	1.2	870	60	3480	240	245	9.646
PTF/11MP-25P/1WQ	25.4	1"	29.8	1.173	1.5	725	50	2900	200	300	11.811
PTF/11MP-28P/1WQ	28	1-1/8"	33	1.299	1.5	652.5	45	2610	180	600	23.622
PTF/11MP-32P/1WQ	32	1-1/4"	38	1.496	2	561.88	38.75	2247.5	155	700	27.559
PTF/11MP-38P/1WQ	38	1-1/2"	44	1.732	2	507.5	35	2030	140	800	31.496
PTF/11MP-50P/1WQ	50	2"	56	2.205	2	435	30	1740	120	700	27.559

TEMPERATURE CORRECTION FACTOR FOR STAINLESS STEEL HOSES

Derating factors, Ct, and limiting temperatures

Temperature °C		20	50	100	150	200	250	300	350	400	450	500	550	600	650
Material	X2CrNi19-11	1	0,87	0,72	0,65	0,59	0,55	0,51	0,48	0,46	0,45	0,44	0,43	-	-
	X5CrNi18-10	1	0,88	0,73	0,66	0,60	0,56	0,52	0,50	0,48	0,47	0,46	0,42	-	-
	X6CrNiTi18-10	1	0,92	0,83	0,78	0,74	0,71	0,68	0,64	0,62	0,61	0,60	0,59	-	-
	X2CrNiMo17-12-2	1	0,88	0,74	0,67	0,62	0,58	0,54	0,52	0,50	0,48	0,47	0,47	-	-
	X5CrNiMo17-12-2	1	0,9	0,78	0,71	0,66	0,62	0,58	0,56	0,53	0,52	0,51	0,51	-	-
	X6CrNiMoTi17-12-2	1	0,90	0,81	0,76	0,73	0,69	0,65	0,63	0,61	0,59	0,59	0,58	-	-
	X2CrNiM18-14-3	1	0,88	0,74	0,67	0,61	0,57	0,54	0,52	0,50	0,48	0,47	0,47	-	-
	X1NiMoCuN20-18-7	1	0,90	0,77	0,70	0,64	0,61	0,57	0,56	0,54	0,53	0,52	-	-	-
	X1NiCrMoCu25-20-5	1	0,93	0,87	0,82	0,76	0,70	0,65	0,61	0,57	0,54	0,52	0,50	-	-
	_a	1	0,97	0,91	0,84	0,77	0,71	0,65	0,60	0,57	0,29 ^b	0,18 ^b	-	-	-
	NiMo16Cr15Fe6W4 ^c	1	0,97	0,92	0,88	0,83	0,79	0,74	0,72	0,70	-	-	-	-	-
	NiCr30 ^c	1	0,94	0,86	0,81	0,77	0,75	0,74	0,74	0,74	0,73	-	-	-	-
	NiCr15Fe8 ^c	1	0,98	0,94	0,92	0,89	0,86	0,83	0,83	0,83	0,82	0,81	0,78 ^b	0,54 ^b	0,36 ^b
	NiCr22Mo9Nb ^c	1	0,95	0,88	0,84	0,80	0,78	0,75	0,73	0,70	0,68	0,65	0,64	0,63	0,5 ^b
	FeNi32Cr21AlTi ^c	1	0,93	0,80	0,74	0,68	0,63	0,58	0,55	0,53	0,51	0,50	0,49	0,48	0,39 ^b
	NiFe30Cr2Mo3 ^c	1	0,95	0,89	0,83	0,77	0,75	0,74	0,72	0,70	0,68	0,67	0,66	-	-

NOTE 1 The derating factor applicable to low temperatures for some of the austenitic materials listed is higher than 1. For further information, contact the manufacturer.

NOTE 2 Stainless steel designations and values are specified in ISO 9328-7 for 1 % proof C product form, carbon steel designations are specified in ISO 6317 and nickel alloy designations are specified in ISO 6208.

a. Typical non-alloyed carbon steel.

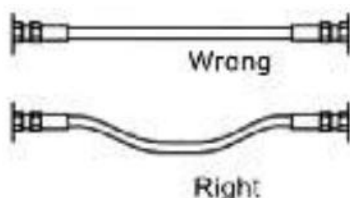
b. Values in the creep range (100 000 h).

c. Indicative values from industrial background.

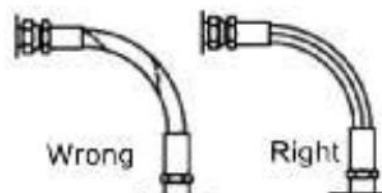
FAQ'S

- **What is the Hose grade of SS corrugated hose and braid?**
- We are using hose grades in SS304, SS304L, SS316, SS321 with SS304 wire Braiding.
- **What is the temperature range of SS Hoses?**
- Temperature range of Stainless Steel is from -270 deg Celsius to 700 deg Celsius.
- **What is the Inner Diameter of the Hose?**
- We are manufacturing hoses from 6MM upto 200MM Dia.
- **Are the Hoses suitable for Food grade Applications?**
- Yes, we can use SS316 Grade for Food grade.
- **Are the Hoses 100% leak proof?**
- We test all our Hose assemblies through Pneumatic or Hydro test assuring they are 100% leak proof. On special request, we can also offer nitrogen testing for Hose Assemblies.
- **What test Certificates do we offer at the time of delivery?**
- We provide our customers MTC, Assuring the quality of Raw material used. We also provide in-house Test Certificate mentioning all the necessary test results as asked by our customers.

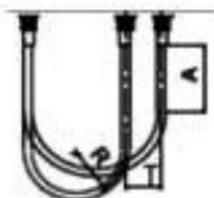
Improper use of SS Corrugated Hose, or damage to the hose, such as : bending, kinking, twisting, fattening, crushing etc, even if the hose can be restored to its original condition, its hose characteristics has been corrupted and will not function properly, so it is important to minimize these occurrences.



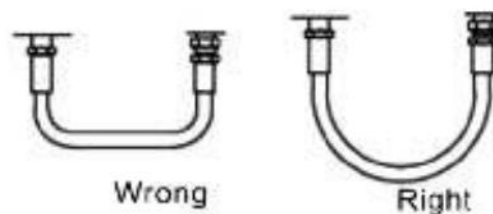
Since hose may change in length from +2% to -4% under the surge of high pressure, provide sufficient slack for expansion and contraction.



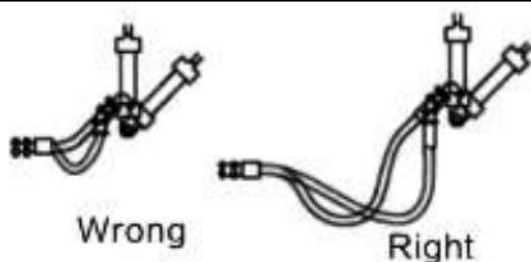
Hose should not be twisted. Hose is weakened when installed in twisted position, also pressure in twisted hose tends to loosen fitting connections. Design so that machine motion produces bending rather than twisting.



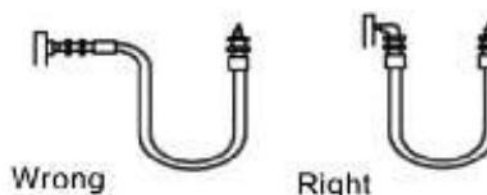
Never use a bending radius less than the minimum shown in the hose specification tables. The bending radius of the hose should be far away from the hose fitting ($A > 1.5R$)



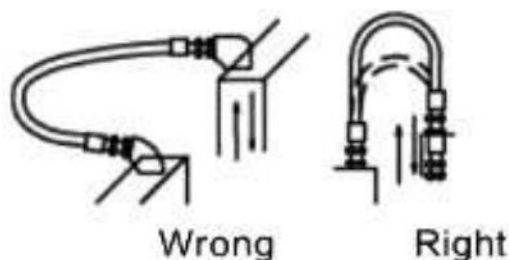
Leave proper length when the hose is connected.



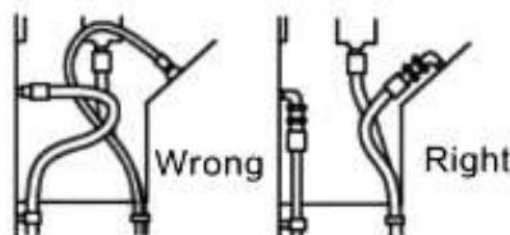
Hose bending radius is bigger when it is motion.



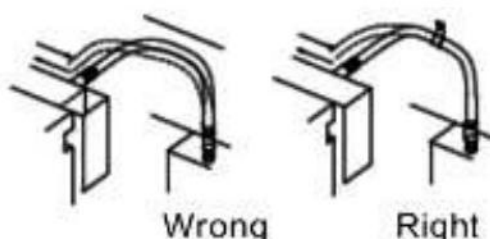
Choose proper fittings, avoid too small bending radius and excess force.



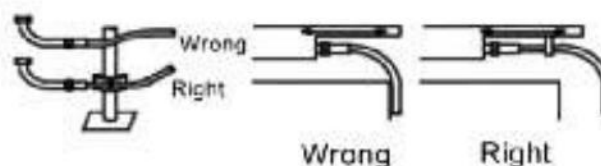
Choose proper fittings, avoid twisting in hose lines bent in two planes.



Choose proper fittings, avoid too excessive hose length.



Avoid twisting in hose by using clamp properly.



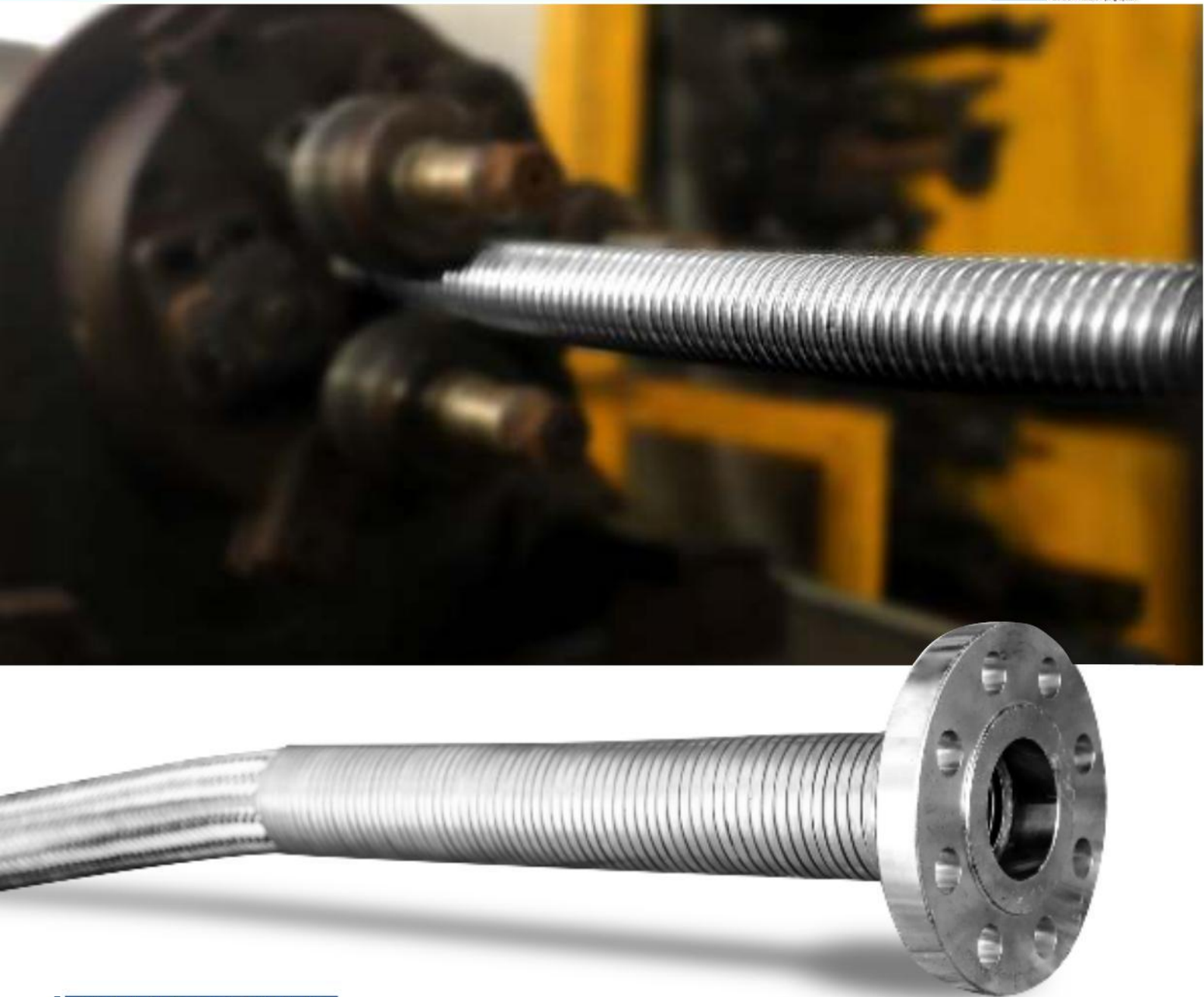
Reduce friction, avoid hose touching the object directly or far away from the objects.

WHY US ?

With a mindset of continuous improvement in every aspect, we manufacture hoses using European machines along with advanced testing.

In-house production facility ensures the best quality and services at competitive prices.





CONTACT DETAILS

Please feel free to contact anytime on below mentioned Emails or Phone Numbers

VARDHMAN FLEXIBLE HOSE

Partners in Flexible Piping System

Factory Address :

F-10, F.I.T, Sector - 57,
Faridabad-121004, Haryana

Email (Domestic Sales) :

info@flexiblemetals.in
sales@flexiblemetals.in

Email (Exports) :

exports@flexiblemetals.in
sales@flexiblemetals.in

Contact :

+91 8595870426
+91 9899337750
+91 9999253865

Sales Office Address :

1/16 A, Asaf Ali Raod
New Delhi-110002

Ph. : 0129-2977751

Website. : flexiblemetals.in



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