

HYDRAULIC HOSE FITTINGS & ADAPTERS



VAISHNO RUBBER INDUSTRIES PVT. LTD.

At a Glance



A Profile

M/s VAISHNO RUBBER INDUSTRIES PVT. LTD. (herein after referred as Company) was incorporated on 14th November 2014 by Mr. Satvir Singh and Dr. (Mrs.) Roopam Singh with a view to manufacture the wire/textile braided hoses and hose assemblies (LPG, Industrial hoses & Hydraulic hoses) conforming to DIN, EN, SAE, IS & BS specifications. Vaishno Rubber Industries Pvt. Ltd. is an ISO 9001-2015 certified company for quality management system.

Vaishno Rubber is committed to the design, manufacture and distribution of Reinforced rubber hoses. We have started state-of-the-art production facility and infrastructure to manufacture hoses and the production unit based in Moradabad (U.P.) is spread on a sprawling land area of approximately 5 acres. At this location, we commenced manufacture of long length hoses on Flexible Nylon Mandrels to increase our capacity and consistent quality. With all latest technology equipment in place, we would like to assure you that you would get a hose that is comparable with the best and far superior to any other hose being manufactured in this part of the country.

We also have fully equipped Laboratory (R&D), which has most of the required testing equipment including Rheometer, Cold Chamber (up to -50°C), and Ozone Chamber etc. to test the quality of each batch of Rubber manufactured by us.





SAE 100 R1 AT Hi-Impulse / DIN 20002 Part - 3 / EN 853-1SN (Single Wire Braided)

EN 853 1SN / SAE 100 R1

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
One braid of high tensile steel wire
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +100°C (MAX 120°C Intermittent)

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
01-4	4	6	1/4"	13.4	225	3263	900	13050	100
01-5	5	8	5/16"	15.0	215	3118	850	12325	115
01-6	6	10	3/8"	17.4	180	2610	720	10440	130
01-8	8	12	1/2"	20.5	160	2320	640	9280	180
01-10	10	16	5/8"	23.6	130	1885	520	7540	200
01-12	12	19	3/4"	27.7	105	1523	420	6090	240
01-16	16	25	1"	35.4	88	1276	350	5075	300
01-20	20	31	1 1/4"	43.7	63	914	250	3625	420
01-24	24	38	1 1/2"	50.0	50	725	200	2900	500
01-32	32	51	2"	63.7	40	580	160	2320	630



SAE 100 R2 AT Hi Impulse / DIN 20002 Part - 4 / En853 - 2SN (Double Wire Braided)

EN 853 2SN / SAE 100 R2

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
Two braid of high tensile steel wire
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +100°C (MAX 120°C Intermittent)

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
02-4	4	6	1/4"	14.9	400	5800	1600	23200	100
02-5	5	8	5/16"	16.6	350	5075	1400	20300	115
02-6	6	10	3/8"	18.9	330	4785	1320	19140	130
02-8	8	12	1/2"	22.1	275	3988	1100	15950	180
02-10	10	16	5/8"	25.4	250	3625	1000	14500	200
02-12	12	19	3/4"	29.3	215	3118	850	12325	240
02-16	16	25	1"	37.6	165	2393	650	9425	300
02-20	20	31	1 1/4"	47.5	125	1813	500	7250	420
02-24	24	38	1 1/2"	54.5	90	1305	360	5220	500
02-32	32	51	2"	67.0	80	1160	320	4640	630



Extra High Pressure Hose

VR PROPRIETARY- SH33

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
Three braid of high tensile steel wire
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +100°C (MAX 120°C Intermittent)

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
VR 33-8	8	12	1/2"	24.8	470	6815	1880	27260	160
VR 33-10	10	16	5/8"	27.8	400	5800	1600	23200	216
VR 33-12	12	19	3/4"	32.5	355	5148	1420	20590	260
VR 33-16	16	25	1"	40.0	310	4495	1240	17980	310
VR 33-20	20	31	1 1/4"	46.5	240	3480	960	13920	410

Jack Hose 725 BAR

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
Two braid of high tensile steel wire
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +50°C



JACK HOSE 725 BAR WP

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
Jack-4	4	6	1/4"	14.2	725	10513	1450	21025	100
Jack-6	6	10	3/8"	17.5	725	10513	1450	21025	130

Highlights : Ideal for Hydraulic Jacking System.

Super Loader SERIES

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
Two braid of high tensile steel wire
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +100°C



Loader Hose

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
Loader-8	8	12	1/2"	22.5	345	5000	1380	20010	180
Loader-12	12	19	3/4"	29.5	260	3770	1040	15080	240
Loader-16	16	25	1"	38.0	220	3200	880	12760	300

Highlights : Suitable for extra high pressure Loader application.

SAE 100 R3

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
Two Textile braided
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +100°C



SAE 100 R3 (Double Textile Braided)

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
03-4	4	6	1/4"	14.8	87	1262	348	5046	75
03-5	5	8	5/16"	17.3	84	1218	336	4872	100
03-6	6	10	3/8"	19.0	78	1131	312	4524	100
03-8	8	12	1/2"	23.8	70	1015	280	4060	125
03-10	10	16	5/8"	26.9	61	885	244	3538	140
03-12	12	19	3/4"	31.5	52	754	208	3016	150
03-16	16	25	1"	38.0	39	566	156	2262	205

Highlights : Suitable for use with petroleum & water based hydraulic fluids.

SAE 100 R6

Tube:
Synthetic rubber, resistant to hydraulic fluids
Reinforcement:
Single Textile braided
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +100°C



SAE 100 R6 - (Single Textile Braided) (* Not Covered under SAE)

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
06-4	4	6	1/4"	13.0	28	406	112	1624	65
06-5	5	8	5/16"	14.2	28	406	112	1624	75
06-6	6	10	3/8"	15.7	28	406	112	1624	75
06-8	8	12	1/2"	19.7	28	406	112	1624	100
06-10	10	16	5/8"	23.2	24	348	96	1392	125
06-12	12	19	3/4"	26.0	21	305	84	1218	150
06-16*	16	25	1"	33.1	15	218	60	870	177



SAE 100 R5 (Textile Braided Separated by One Wire Braided)

SAE 100 R5

Tube:
Synthetic rubber, resistant to hydraulic fluids

Reinforcement:
One braid of high tensile steel wire & textile braided.

Cover:
Oil & mildew resistant rubber impregnated black cotton braid

Temperature Range (Medium):
-40°C to +100°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
05-4	4	5	3/16"	13.4	210	3045	840	12180	75
05-5	5	6	1/4"	14.8	210	3045	840	12180	85
05-6	6	8	5/16"	17.2	157	2277	628	9108	100
05-8	8	10	13/32"	19.3	140	2030	560	8120	115
05-10	10	12	1/2"	23.3	122	1769	488	7076	140
05-12	12	16	5/8"	27.4	105	1523	420	6090	165
05-16	16	22	7/8"	31.3	56	812	224	3248	185
05-20	20	29	1-1/8"	38.4	43	625	172	2494	230
05-24	24	35	1-3/8"	44.9	35	500	140	2030	265
05-32	32	46	1-13/16"	56.2	24	350	96	1392	335

Highlights : Suitable for use with Petroleum & water based hydraulic fluids.



SAE 100 R5R (Textile Inner Braid & Wire Reinforcement and rubber outer cover)

SAE 100 R5R

Tube:
Synthetic rubber, resistant to hydraulic fluids

Reinforcement:
One braid of high tensile steel wire & textile braided.

Cover:
Oil, weather & abrasion resistant synthetic rubber

Temperature Range (Medium):
-40°C to +100°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
5R - 4	4	5	3/16"	13.2	210	3045	840	12180	75
5R - 5	5	6	1/4"	14.7	210	3045	840	12180	85
5R - 6	6	8	5/16"	17	157	2277	628	9108	100
5R - 8	8	10	13/32"	19.3	140	2030	560	8120	115
5R - 10	10	12	1/2"	23.3	122	1769	488	7076	140
5R - 12	12	16	5/8"	27.2	105	1523	420	6090	165
5R - 16	16	22	7/8"	31.2	56	812	224	3248	185
5R-20	20	29	1-1/8"	38.1	43	625	172	2494	230
5R-24	24	35	1-3/8"	44.7	35	500	140	2030	265
5R-32	32	46	1-13/16"	56.4	24	350	96	1392	335

Highlights : Suitable for use with petroleum & water based hydraulic fluids.

INDUSTRIAL HOSE



STEAM HOSE TYPE-2 (Single Wire Braided) WP 10 BAR - 51 series

IS : 10655 TYPE - 2

Tube:
Synthetic rubber, saturated steam & heat resistant

Reinforcement:
One high tensile steel wire braided

Cover:
Steam & heat resistant synthetic rubber

Temperature Range (Medium):
-40°C to +195°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
51 - 6	6	10	3/8"	18.9	10	145	100	1450	130
51 - 8	8	12	1/2"	22.0	10	145	100	1450	180
51 - 10	10	16	5/8"	25.4	10	145	100	1450	200
51 - 12	12	19	3/4"	28.7	10	145	100	1450	240
51 - 16	16	25	1"	35.9	10	145	100	1450	300
51 - 20	20	31	1 1/4"	43.5	10	145	100	1450	400
51 - 24	24	38	1 1/2"	50.5	10	145	100	1450	500
51 - 32	32	51	2"	63.5	10	145	100	1450	650

Highlights: Suitable for use with saturated steam application.



STEAM HOSE TYPE-3 (Double Wire Braided) WP 17 BAR - 52 Series

IS : 10655 TYPE - 3

Tube:
Synthetic rubber, saturated steam & heat resistant

Reinforcement:
Two high tensile steel wire braided

Cover:
Steam & heat resistant synthetic rubber

Temperature Range (Medium):
-40°C to +210°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
52 - 6	6	10	3/8"	21.0	17	247	160	2320	130
52 - 8	8	12	1/2"	24.0	17	247	160	2320	180
52 - 10	10	16	5/8"	27.6	17	247	160	2320	200
52 - 12	12	19	3/4"	30.9	17	247	160	2320	240
52 - 16	16	25	1"	38.6	17	247	160	2320	300
52 - 20	20	31	1 1/4"	46.0	17	247	160	2320	400
52 - 24	24	38	1 1/2"	54.3	17	247	160	2320	500
52 - 32	32	51	2"	67.5	17	247	160	2320	650

Highlights: Suitable for use with saturated steam application.



SUPER DYNAMIC ROCK DRILL HOSE (IS 446 TYPE-3) WIRE BRAIDED - WP 500 PSI

IS 446 TYPE-3, WIRE BRAIDED

Tube:
Synthetic rubber

Reinforcement:
One high tensile steel wire braided

Cover:
Oil, weather & abrasion resistant synthetic rubber

Temperature Range (Medium):
-40°C to +70°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
RDH - 8 (1W)	8	12	1/2"	21.2	35.0	500	138	2000	180
RDH - 10 (1W)	10	16	5/8"	24.0	35.0	500	138	2000	200
RDH - 12 (1W)	12	19	3/4"	27.7	35.0	500	138	2000	240
RDH - 16 (1W)	16	25	1"	35.7	35.0	500	138	2000	300
RDH - 20 (1W)	20	31	1 1/4"	43.0	35.0	500	138	2000	420
RDH - 24 (1W)	24	38	1 1/2"	50.5	35.0	500	138	2000	500
RDH - 32 (1W)	32	51	2"	63.5	35.0	500	138	2000	630

Highlights: Suitable for heavy duty high pressure pneumatic application (with oil resistance)



SUPER DYNAMIC ROCK DRILL HOSE (IS 446 TYPE-3) YARN BRAIDED

IS 446 TYPE-3, YARN BRAIDED

Tube:
Synthetic rubber

Reinforcement:
One Yarn braided

Cover:
Oil, weather & abrasion resistant synthetic rubber

Temperature Range (Medium):
-40°C to +70°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
RDH - 8 (1Y)	8	12	1/2"	21.2	21	300	83	1200	-
RDH - 12 (1Y)	12	19	3/4"	27.7	21	300	83	1200	-
RDH - 16 (1Y)	16	25	1"	36.0	21	300	83	1200	-
RDH - 20 (1Y)	20	31	1 1/4"	43.0	14	200	55	800	-
RDH - 24 (1Y)	24	38	1 1/2"	50.5	14	200	55	800	-
RDH - 32 (1Y)	32	51	2"	63.5	14	200	55	800	-

Highlights: Suitable for high pressure pneumatic application (with oil resistance)

LPG HOSES



LPG HOSE (BS EN 1762 Type-D) Single wire Braided

BS EN 1762 TYPE-D

Tube:
Synthetic rubber, resistant to LPG
Reinforcement:
One high tensile steel wire braided
Cover:
Oil, weather & abrasion resistant
synthetic rubber
Temperature Range (Medium):
-40°C to +70°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
1762D - 8	8	12	1/2"	22.7	25	363	100	1450	100
1762D - 10	10	16	5/8"	25.4	25	363	100	1450	125
1762D - 12	12	19	3/4"	30.5	25	363	100	1450	160
1762D - 16	16	25	1"	37.5	25	363	100	1450	200



LPG Hose (IS 9573 : Type-II) Single Wire Braided

IS 9573 : TYPE-II

Tube:
Synthetic rubber, resistant to LPG
Reinforcement:
One high tensile steel wire braided
Cover:
Oil & weather resistant synthetic
rubber orange colour
Temperature Range (Medium):
-40°C to +70°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
95734 - 5	5	8	5/16"	15.0	10	145	50	725	95
95734 - 6	6	10	3/8"	18.0	10	145	50	725	120
95734 - 8	8	12	1/2"	20.2	10	145	50	725	150

AUTOMOTIVE HOSES

GOVERNOR HOSE

Tube:
Synthetic rubber, resistant to
oil & petroleum based fuel
Reinforcement:
One high tensile steel wire braided
Cover:
Oil, weather & abrasion resistant
synthetic rubber
Temperature Range (Medium):
-40°C to +55°C



Governor Hose

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
GH - 4	4	6	1/4"	12.8	7	100	414	6000	100

TRACTOR TROLLEY HOSE

Tube:
Synthetic rubber, resistant to
hydraulic fluids.
Reinforcement:
Two braid of high tensile steel wire
Cover:
Oil, weather & abrasion resistant
synthetic rubber
Temperature Range (Medium):
-40°C to +70°C



TRACTOR TROLLEY HOSE

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
TT - 6 (2w)	6	10	3/8"	18.5	207	3000	690	10000	130
TT - 8 (2w)	8	12	1/2"	21.7	172	2500	552	8000	180



CNG HOSE SAE J 30 R6

CNG HOSE SAE J 30 R6

Tube:
Fuel resistant synthetic rubber
Reinforcement:
One yarn braided
Cover:
Oil & highly weather resistant synthetic rubber
Temperature Range (Medium):
-40°C to +70°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
CNG-4	4	6	1/4"	12.7	21	305	48	700	65
CNG-5	5	8	5/16"	14.3	21	305	48	700	75
CNG-6	6	10	3/8"	15.8	21	305	48	700	75
CNG-8	8	12	1/2"	19.8	21	305	48	700	100
CNG-10	10	16	5/8"	23.8	21	305	48	700	125
CNG-12	12	19	3/4"	28.6	21	305	48	700	150
CNG-16	16	25	1"	35	21	305	48	700	177



AIR CONDITIONING SUCTION HOSE (SAE J 2064 TYPE-B)

SAE J 2064 TYPE-B

Tube:
Low permeable synthetic rubber
Reinforcement:
One wire braided
Cover:
Weather & heat resistant synthetic rubber
Temperature Range (Medium):
-30°C to +125°C

Product Code SHIPL	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
AC Suction - 5	5	8	5/16"	17.0	34.5	500	138	2000	115
AC Suction - 6.5	6.5	10	13/32"	19.5	34.5	500	138	2000	130
AC Suction - 8	8	12	1/2"	22.5	34.5	500	138	2000	140
AC Suction - 10	10	16	5/8"	25.5	34.5	500	138	2000	165
AC Suction - 12	12	19	3/4"	28.7	34.5	500	138	2000	180
AC Suction - 14	14	22	7/8"	31.4	34.5	500	138	2000	190
AC Suction - 18	18	29	1-1/8"	38.5	34.5	500	138	2000	230



LPG Hose (IS 9573: Type-I) Single Wire Braided

ARAI Approved

Tube:
Synthetic rubber, resistant to LPG
Reinforcement:
One high tensile steel wire braided
Cover:
Oil, weather & abrasion resistant synthetic rubber
Temperature Range (Medium):
-40°C to +70°C

Product Code VR	Dash	DN	Hose ID Inch	Hose OD (mm)	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius (mm)
					Bar	PSI	Bar	PSI	
9573-4	4	6	1/4"	13.2	25	363	125	1813	70

FLOW CAPACITIES PRESSURE DROP

Flow Capacities of hose assemblies at suggested flow velocities

The chart below is designed and provided as an aid in the determination of the correct hose size.

Example:

At 13 U.S. gallons per minute, what is proper hose size within the suggested velocity range for pressure lines?

Solution: Locate 13 U.S. gallons per minute in the left hand column and 10 feet per second in the right hand column (the center of the suggested velocity range for pressure lines).

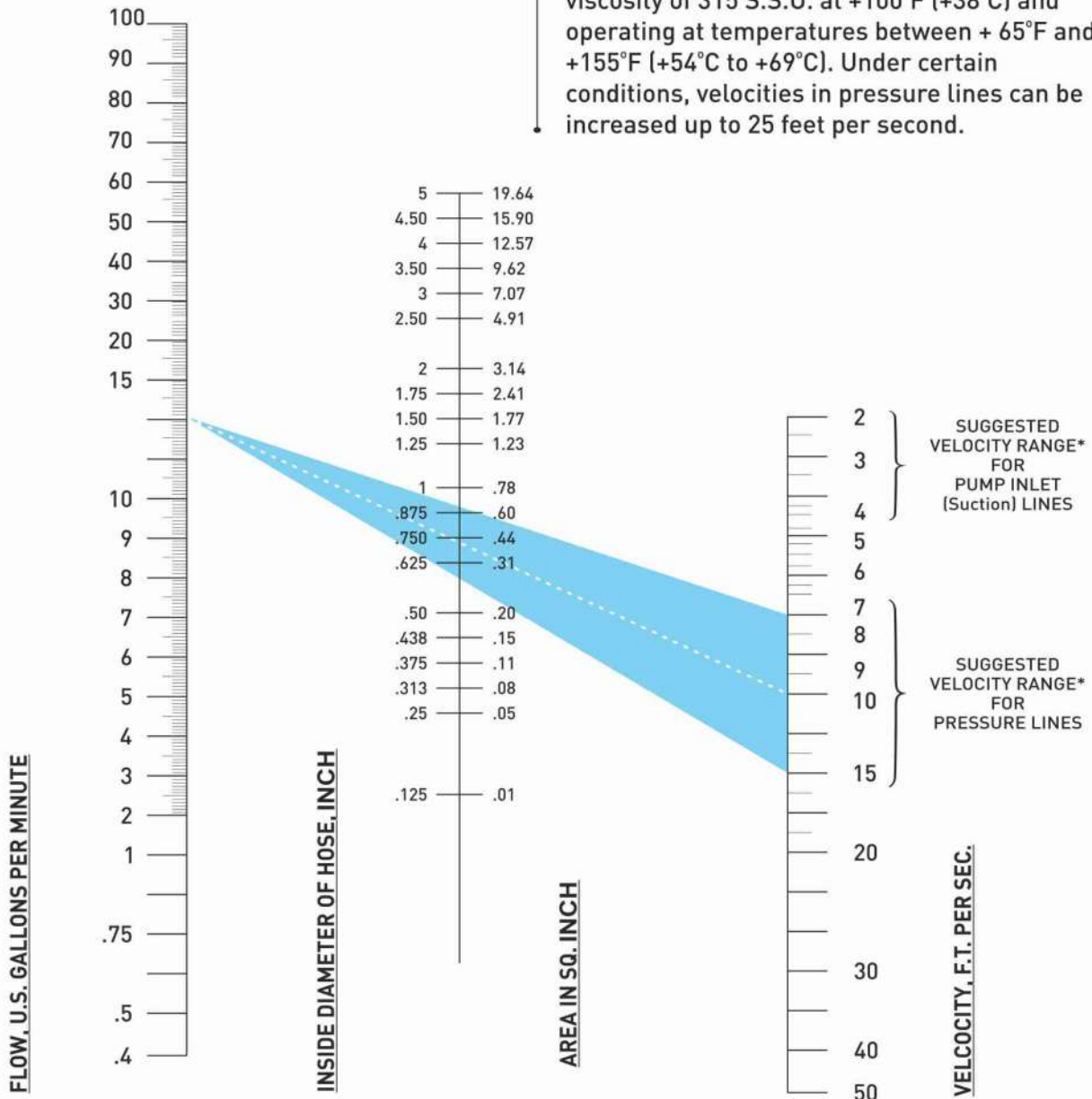
Lay a straight edge across the two points. The inside diameter is shown in the center column nearest the straight edge.

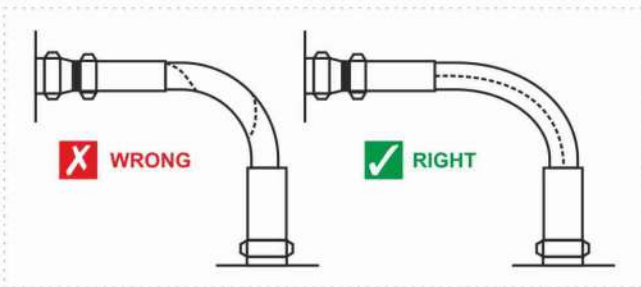
For suction hose, follow the same procedure except use suggested velocity range for pump inlet lines in the right hand column.

Based on Formula

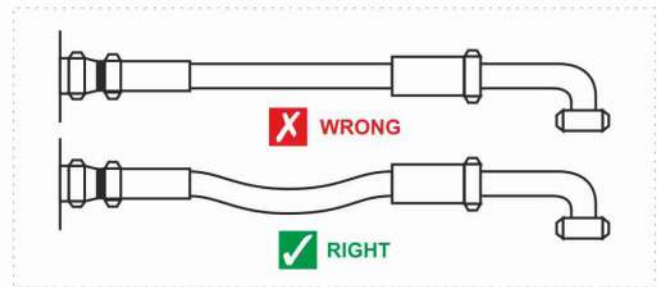
$$\text{Area (SQ. In.)} = \frac{\text{G.P.M.} \times 0.3208}{\text{Velocity (Ft/Sec.)}}$$

* Suggestions are for oils having maximum viscosity of 315 S.S.U. at +100°F (+38°C) and operating at temperatures between + 65°F and +155°F (+54°C to +69°C). Under certain conditions, velocities in pressure lines can be increased up to 25 feet per second.

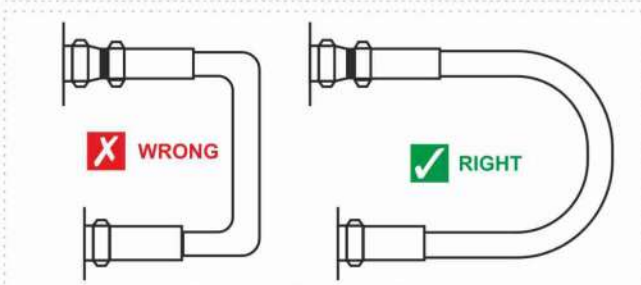




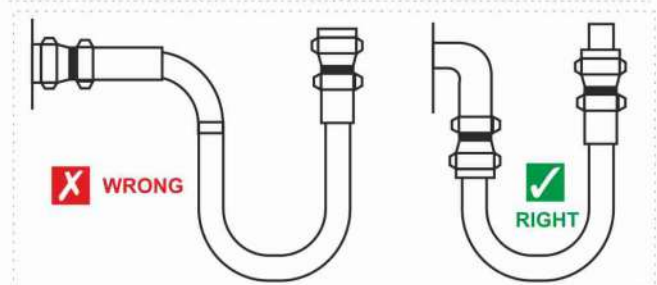
1 When installing hose, make sure it is not twisted. Pressure applied to a twisted hose can result in hose failure or loosening of connections.



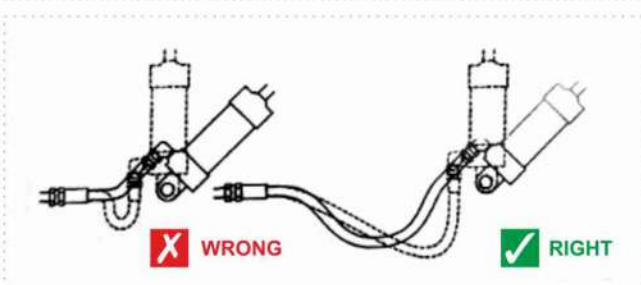
2 When hose installing is straight, allow enough slack in hose line to provide for length changes which will occur when pressure is applied.



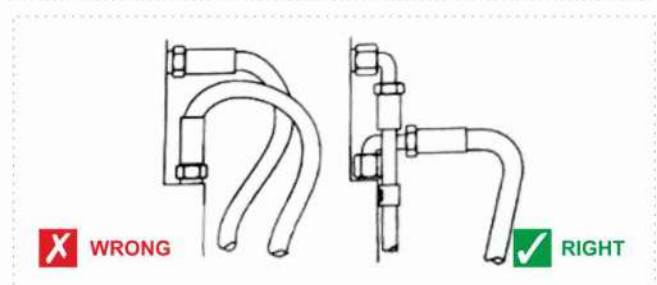
3 To avoid hose collapse and flow restriction, keep hose bend radii as large as possible, Refer to hose specification tables for minimum bend radii.



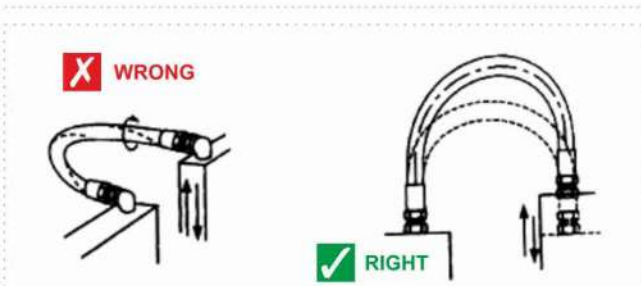
4 Use proper angle adaptors to avoid sharp twist or bend in hose.



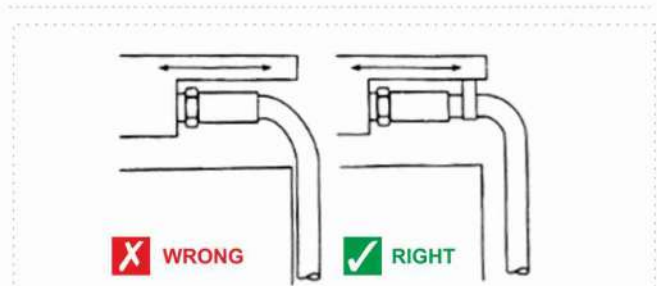
5 Adequate Hose length is necessary to distribute movement on flexing applications and to avoid abrasion.



6 Elbows and adaptors should be use to relive strain on the assembly, provide neater installations which will be more accessible for inspection and maintenance.



7 Prevent twisting and distortion by bending hose in same plane as the motion of the boss to which hose is connected.



8 Run hose in the installation so that it avoids rubbing and abrasion. Often, Clamps are required to support long hose runs or to keep hose away from moving parts. Use clamps of the correct size. A clamp too allows hose to move inside the clamp and causes abrasion.



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