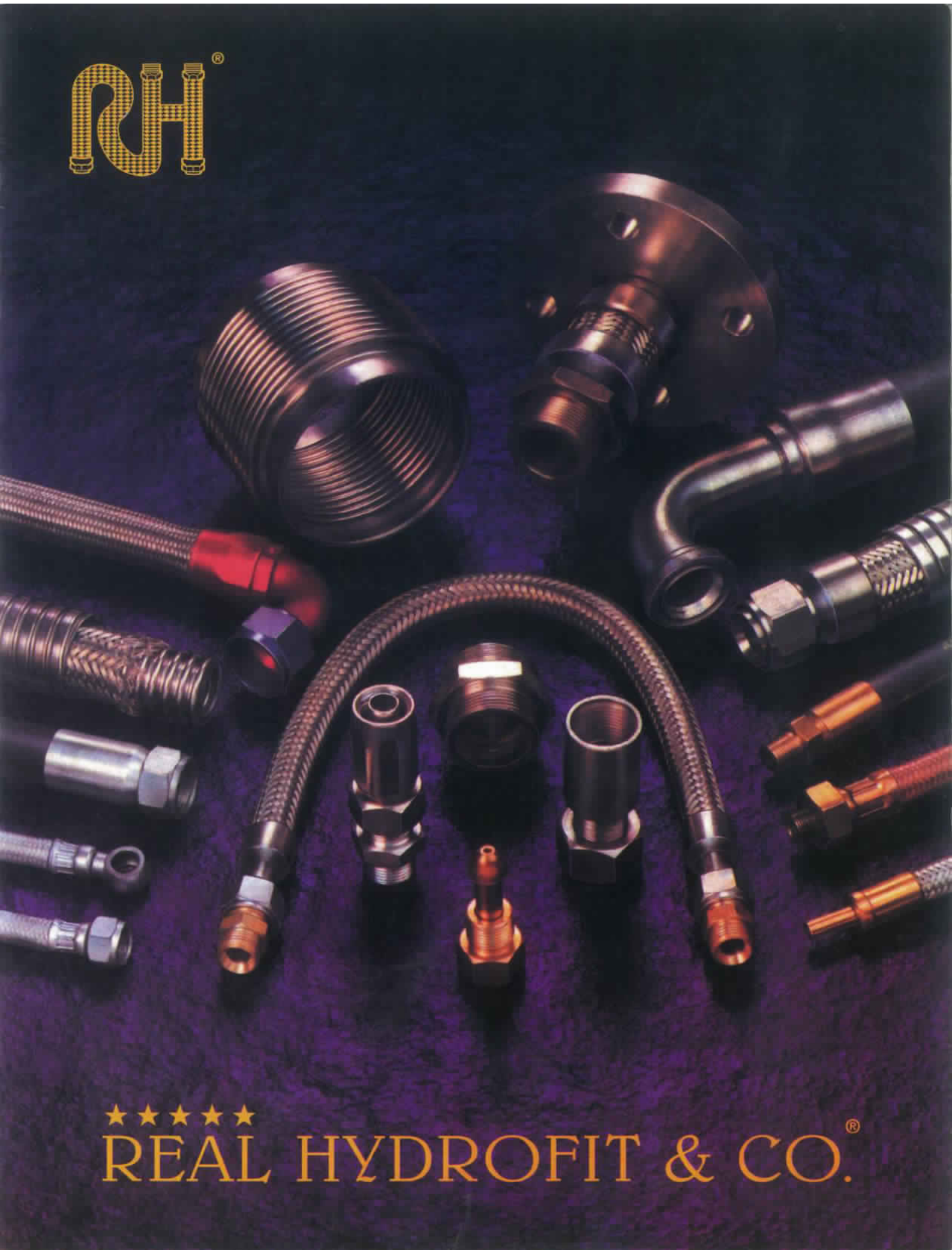

★★★★★
REAL HYDROFIT & CO.®

Foreword

An Effort has been made to compile the entire range of hose and hose assemblies along with other allied items that we can effectively manufacture and offer at competitive terms.

We have adequate infrastructure to even cater to specific needs which may have not been covered in this catalogue.

Products can be developed by us as per your drawings or samples/items currently used by you.

Do call on us with your specific requirements or drop a letter or telephone us. Our Representative shall visit you to ascertain your needs.

WE ARE HERE TO SERVE YOU.

How to Order

For best performance, a Hose should be selected to meet the service conditions under which it is to be used. Before deciding on the size, type & quality of Hose, complete information of the actual service requirements should be examined, as follows :

1. Inner Diameter of Hose
2. Working Pressure of Hose.
3. Temperature of Hose
4. Length
5. End connection of both sides of Hose.
6. Type of Hose presently in use.
7. Quantity required

Warranty

Each Hose Assembly is tested for required test pressure ratings. Besides, the raw materials for end connections are procured from select and reliable sources only. Samples are also sent for chemical analysis in certain applications of major and critical areas to ensure quality of raw Material.

We GUARANTEE FREE REPLACEMENT in case of any manufacturing defect is observed at any stage of storage or application.

Material Test report from the government approved test laboratories can be had if required.

In addition, we have our own test certificate for Hydrotest of each assembly.

Under ISO Registration.

Index

High Pressure Hoses

RH — 1

RH — 1
Equivalent to SAE - 100R1

APPLICATION:
Medium high pressure hydraulic oil, lines, fuel oil, gasoline, air and water

CONSTRUCTION :
Tube: Black, Oil-resistant synthetic rubber, Reinforcement = One-ply braided high tensile steel wire. Cover: Oil weather and abrasion resistant synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	1/2	12.7	3000	6000	3.1/2
1/4	6.4	19/32	15.1	2750	5500	4
5/16	7.9	11/16	17.5	2500	5000	4.1/2
3/8	9.5	25/32	19.8	2250	4500	5
13/32	10.3	13/16	20.7	2250	4500	5.1/2
1/2	12.7	29/32	23.0	2000	4000	7
5/8	15.9	1.1/32	26.2	1500	3000	8
3/4	19.0	1.3/16	30.1	1250	2500	9.1/2
7/8	22.2	1.5/16	33.4	1125	2250	11
1	25.4	1.1/2	38.1	1000	2000	12
1.1/4	31.8	1.13/16	46.0	625	1250	16.1/2
1.1/2	38.1	2.1/16	52.4	500	1000	20
2	50.8	2.5/8	66.7	375	750	25

RH — 2

RH— 2
Equivalent to SAE-100R2

APPLICATION:
High pressure hydraulic oil lines fuel oil, gasoline, air and water

CONSTRUCTION:
Tube : Black, Oil-resistant synthetic rubber, Reinforcement = Two-ply braided high tensile steel wire. Cover: Oil, weather and abrasion - resistant synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	5/8	15.9	5000	10000	3.1/2
1/4	6.4	11/16	17.5	5000	10000	4
5/16	7.9	3/4	19.0	4250	8500	4.1/2
3/8	9.5	27/32	21.4	4000	8000	5
1/2	12.7	31.32	24.6	3500	7000	7
5/8	15.9	1.3/32	27.8	2750	5500	8
3/4	19.0	1.1/4	31.8	2250	4500	9.1/2
7/8	22.2	1.3/8	34.9	2000	4000	11
1	25.4	1.9/16	39.7	2000	4000	12
1.1/4	31.8	2	50.8	1625	3250	16.1/2
1.1/2	38.1	2.1/4	57.2	1250	2500	20
2	50.8	2.3/4	69.8	1125	2250	25

RH — 3

RH— 3
Equivalent to SEA-100 R 3

APPLICATION:
Hydraulic oil, fuel oil, antifreeze solutions and water.

CONSTRUCTION :
Tube : Synthetic rubber. Reinforcement : Two braids high tenacity rayon. Cover : Oil and abrasion - resistant synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	1/2	12.7	1500	3000	3
1/4	6.4	9/16	14.3	1250	2500	3
5/16	7.9	11/16	17.5	1200	2400	4
3/8	9.5	3/4	19.0	1125	2250	4
1/2	12.7	15/16	23.8	1000	2000	5
5/8	15.9	1.1/8	28.7	875	1750	5
3/4	19.0	1.1/4	31.9	750	1500	6
1	25.4	1.1/2	38.1	565	1130	8
1.1/4	31.8	1.3/4	44.5	375	750	10
1.1/2	38.1	2	50.8	250	500	12.

Medium Pressure Hoses

RH — 4

RH 4
Equivalent to SAE — 100 R 4

APPLICATION :
Petroleum base hydraulic oils, gasoline and fuel oil in suction lines or low pressure return lines.

CONSTRUCTION :
Tube : Synthetic rubber.

Reinforcement : Two rayon braids separated by a spiral wire to prevent collapse.

Cover : Oil and abrasion - resistant synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/4	19.1	1.3/8	34.9	300	600	5
1	25.4	1.5/8	41.3	250	500	6
1.1/4	31.8	2	50.8	200	400	8
1.1/2	38.1	2.1/4	57.2	150	300	10
2	50.8	2.3/4	69.9	100	200	12
2.1/2	63.5	3.1/4	82.6	62	124	14
3	76.2	3.3/4	95.3	56	112	18

RH — 5

RH 5
Equivalent to SAE — 100 R 5

APPLICATION :
Medium high pressure hydraulic oil lines, fuel oil, gasoline, air and water.

CONSTRUCTION :
Tube : Black, Oil-resistant synthetic rubber one braid cotton.

Reinforcement : One braid of high tensile steel wire.

Cover : Oil and mildew resistant One-ply open braided cotton cover impregnated with synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	33/64	13.1	3000	6000	3
1/4	6.4	37/64	14.7	2500	5000	3.3/8
5/16	7.9	43/64	17.1	2250	4500	4
13/32	10.3	49/64	19.4	2000	4000	4.5/8
1/2	12.7	59/64	23.4	1750	3500	5.1/2
5/8	15.9	1.5/64	27.4	1500	3000	6.1/2
7/8	22.2	1.15/64	31.4	800	1600	7.3/8
1.1/8	28.7	1.1/2	38.1	625	1250	9
1.3/8	34.9	1.3/4	44.5	500	1000	10.1/2
1.13/16	46.0	2.7/32	56.4	350	700	13.1/4

RH — 6

RH — 6
Equivalent to SAE — 100 R 6

APPLICATION :
Hydraulic oil lines, fuel oil, antifreeze solutions and water.

CONSTRUCTION :
Tube : Specially compounded synthetic rubber.

Reinforcement : one braid high tenacity rayon.

Cover : Oil and abrasion - resistant synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F.

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	7/16	11.1	500	1000	2
1/4	6.4	1/2	12.7	400	800	2.1/2
5/16	7.9	9/16	14.3	400	800	3
3/8	9.5	5/8	15.9	400	800	3
1/2	12.7	25/32	19.8	400	800	4
5/8	15.9	29/32	23.0	350	700	5
7/8	22.2	1.1/16	27.0	300	600	6

High Temperature Hoses

RH — 7 - 1

RH — 7 - 1

APPLICATION :
For Usage on Hi-temperature Fluids. Hydraulic Oil and Steam.

CONSTRUCTION :
Tube : Seamles Synthetic heat resistant Rubber Tube.

Reinforcement : One ply H.T.S. braided wire.

Cover : Oil, Weather and abrasion resistant Synthetic black rubber.

TEMPERATURE :
Upto + 350° F, for pressure 150 lbs.psi of Steam.

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	1/2	12.7	150	300	3.1/2
1/4	6.4	19/32	15.1	150	300	4
5/16	7.9	11/16	17.5	150	300	4.1/2
3/8	9.5	25/32	19.8	150	300	5
1/2	12.7	29/32	23.0	150	300	7
5/8	15.9	11/32	26.0	150	300	8
3/4	19.0	13/16	30.1	150	300	9.1/2
7/8	22.2	15/16	33.4	150	300	11
1	25.4	1.1/2	38.1	150	300	15
1.1/4	31.8	1.13/16	46.0	150	300	6.1/2
1.1/2	38.1	2.1/16	52.4	150	300	20
2	50.8	2.5/8	66.7	150	300	25

RH — 7 - 2

RH — 7 - 2

DOUBLE WIRE BRAIDED HOSE

APPLICATION :
For Usage on Hi-temperature Fluids. Hydraulic Oil and Steam.

CONSTRUCTION :
Tube : Seamles Synthetic heat resistant Rubber Tube.

Reinforcement : Two-ply H.T.S. braided wire.

Cover : Oil, Weather and abrasion resistant Synthetic black rubber with red stripe.

TEMPERATURE RANGE :
Upto + 350° F, for pressure 200 lbs.psi of Steam.

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	5/8	15.9	200	400	3.1/2
1/4	6.4	11/16	17.5	200	400	4
5/16	7.9	3/4	19.0	200	400	4.1/2
3/8	9.5	27.32	21.4	200	400	5
1/2	12.7	31/32	24.6	200	400	7
5/8	15.9	1.3/32	27.8	200	400	8
3/4	19.0	1.1/4	31.8	200	400	9.1/2
7/8	22.2	1.3/8	34.9	200	400	11
1	25.4	1.9/16	39.7	200	400	15
1.1/4	31.8	2	50.8	200	400	16.1/2
1.1/2	38.1	2.1/4	57.2	200	400	20
2	50.8	2.3/4	69.8	200	400	25

Steam Hose with Wire Braiding or Asbestos Cover

For Room temperature higher than the normal temperature, we can offer above hose with stainless steel wire, G.I. wire braiding or Asbestos cover. These are recommended for applications in Furnace, Boilers etc.

Super High Pressure Hoses

RH — 8

RH — 8 (3 wire braid)

APPLICATION :
Extra High pressure hydraulic oil, lines, Fuel oil, Gasoline Air& Water.

CONSTRUCTION :
Tube : Black oil resistant synthetic rubber.

Reinforcement: Three ply braided high tensile steel wire

Cover: Oil, weather and abrasion-resistant synthetic rubber.

TEMPERATURE RANGE:
-- 40° F + 200° F.

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
1/4	6.4	11/16	17.5	5675	11350	4
5/16	8	13/16	20	5250	10500	4.3/8
3/8	9.5	7/8	22	5000	10000	5
1/2	12.7	1	25.4	3675	7350	7
5/8	16	1.13/64	30.4	3115	6250	8
3/4	19.1	1.3/8	35.5	3050	6100	9.1/2
1	25.4	1.5/8	41.3	2575	5150	11
1.1/4	31.5	2	50.8	2180	4360	16
1.1/2	38.1	2.1/4	57.3	1940	3880	20
2	50.8	2.3/4	70	1675	3350	25
2.1/2	63.5	3.5/16	83	1370	2740	26.1/2

RH — 9

RH — 9 (4 wire braid)

APPLICATION :
Super High pressure hydraulic oil lines, Fuel, Oil, gasoline, Air & water.

CONSTRUCTION :
Tube : Black, Oil-resistant synthetic rubber.

Reinforcement : four ply braided High Tensile steel wire.

Cover : Oil, weather & abrasion resistant synthetic rubber.

TEMPERATURE RANGE :
— 40° F to + 200° F.

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
1/4	6.4	23/32	18.5	6000	12000	4
5/16	8.0	27/32	21.5	6000	12000	5
3/8	9.5	31/32	24.4	5700	11400	6
1/2	12.7	1.3/32	27.5	4140	8280	7
5/8	16.0	1.3/8	33.5	4000	8000	8
3/4	19.1	1.1/2	38.5	3625	7250	9.1/2
1	25.4	1.3/4	43	3130	6260	11
1.1/4	31.5	2.5/32	54.3	2700	5400	18
1.1/2	38.1	2.3/8	59.8	2450	4900	22
2	50.8	2.7/8	72.2	2140	4280	26
2.1/2	63.5	3.3/8	85.2	1725	3450	30

RH SP — 9

RH SP — 9
Equivalent to SAE — 100 R 9

APPLICATION :
High pressure hydraulic service petroleum-based hydraulic fluids, water, diesel, fuel and lubricating oils

CONSTRUCTION :
Tube : Synthetic Rubber. Four spiral plies of High Tensile Steel wire wrapped in alternating directions and Synthetic Rubber Cover, resistant to Oil, weather and abrasion.

TEMPERATURE RANGE :
– 40°C to 120° C and tested to mm impulse cycles 200.000 for sizes 3/8 and 1/2 inches and 3.00.000 cycles for all other sizes without leakage or other malfunction.
—40° F to +248° F.

HOSE SIZE			WORKING PRESSURE		TESTING PRESSURE		BURST PRESSURE		MIN. BEND RADIUS	
I.D.		O.D.								
IN.	MM	MM	Psi	Kg/ Cm²	Psi	Kg/ Cm²	Psi	Kg Cm²	In	MM
3/8	9.5	21.4	4500	317	9000	634	18000	1268	5	127
1/2	12.7	24.6	4000	282	8000	563	16000	1127	7	178
3/4	19.0	31.4	3000	211	6000	422	12000	845	9.50	241
1	25.4	39.7	3000	211	6000	422	12000	845	12.00	305
1.1/4	31.8	50.8	2500	176	5000	352	10000	704	16.50	419
1.1/2	38.1	57.2	2000	141	4000	282	8000	564	20.00	508
2	50.8	71.45	2000	141	4000	282	8000	564	26.00	660

Super High Pressure Spiral Hoses

RH SP — 10

RH SP — 10

CONSTRUCTION:
Tube: Synthetic rubber. Four spiral heavy Duty plies of High Tensile steel wire wrapped in alternating directions and cover Synthetic Rubber Cover, resistant to oil, weather and abrasion

Application :
Extra high pressure hydraulic, service petrolium base hydraulic, fluids, water, diesel, fuel and lubricating oils.

WORKING TEMPREATURE:
40°C to + 120°C and tested to minimum, impulse cycles 4,00,000 without leakage or other malfunctions.
–40°F to + 248°F

HOSE SIZE			WORKING PRESSURE		TESTING PRESSURE		BURST PRESSURE		MIN. BEND RADIUS	
I.D. In.	I.D. MM	O.D. MM	Psi	Kg/Cm²	Psi	Kg/Cm²	Psi	Kg Cm²	In	Mm
3/16	4.8	19.05	10000	704	20000	1408	40000	2817	4.0	102
1/4	6.4	20.6	8750	616	17500	1232	35000	2465	5.0	127
3/8	9.5	23.8	7500	528	15000	1056	30000	2113	6.0	152
1/2	12.7	27.8	6250	440	12500	880	25000	1761	8.0	203
3/4	19.0	36.5	5000	352	10000	704	20000	1408	11.0	279
1	25.4	44.45	4000	282	8000	563	16000	1127	14.0	356
1.1/4	31.8	50.8	3000	211	6000	423	12000	845	18.0	457
1.1/2	38.1	57.15	2500	176	5000	352	10000	704	22.0	559
2	50.8	70.65	2500	176	5000	352	10000	704	28.0	711

RH SP — 11

RH SP — 11

CONSTRUCTION :
Tube : Synthetic, Rubber. Six spiral Heavy duty plies of High Tensile Steel wire wrapped in alternating directions and cover Synthetic Rubber Cover, Resistant to oil, weather and abrasion

APPLICATION :
Extra high pressure hydraulic service, petroleum based hydraulic fluids, water, diesel and lubricating oils..

WORKING TEMPERATURE :
-- 40°C to + 120°C and tested to min. impulse cycle 4,00000 without leakage or other malfunctions for Hoses Sizes 3/4" ID and above.
— 40°F to + 248°F

HOSE SIZE			WORKING PRESSURE		TESTING PRESSURE		BURST PRESSURE		MIN. BEND RADIUS	
I.D. In.	I.D. Mm	O.D. Mm	Psi	Kg/Cm²	Psi	Kg/Cm²	Psi	Kg Cm²	In	Mm
3/16	4.8	22.2	12500	880	25000	1761	50000	3521	4.0	102
1/4	6.4	23.8	11250	792	22500	1585	45000	3169	5.0	127
3/8	9.5	27.0	10000	704	20000	1408	40000	2817	6.0	152
1/2	12.7	31.0	7500	528	15000	1056	30000	2113	8.0	203
3/4	19.0	39.7	6250	440	12500	880	25000	1716	11.0	279
1	25.4	48.4	5000	352	10000	704	20000	1408	14.0	356
1.1/4	31.8	54.8	3500	246	7000	493	14000	986	18.0	457
1.1/2	38.1	61.10	3000	211	6000	423	12000	845	22.0	559
2	50.8	75.4	3000	211	6000	423	12000	845	28.0	711

RH SP — 13

RH SP — 13

CONSTRUCTION :
Tube : Black oil resistant synthetic rubber

Reinforcement : 4-6 high tensile wire spirals

Cover: Black oil resistant synthetic rubber

APPLICATION :
Extra high pressure hydraulic service, petroleum based hydraulic fluids, water, diesel and lubricating oils

WORKING TEMPERATURE :
–40°C to + 121°C

Impulse tested at 4,00,000 cycles.

NOM SIZE	I.D.		O.D.		WORKING PRESSURE		TESTING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIOUS		WEIGHT	
	MM	IN	MM	IN	BAR	PSI	BAR	PSI	BAR	PSI	MM	IN	Kgmt	Lbs/ft
1/4	6.3	.250	20.4	803	776	11250	1552	22500	3103	45000	127	5.00	.950	.640
3/8	9.5	.375	23.8	937	690	10000	1380	20000	2758	40000	152	6.00	1.100	.740
1/2	12.7	.500	27.0	1063	517	7500	1034	15000	2068	30000	200	8.00	1.250	.838
3/4	19.0	.750	32.0	1260	345	5000	690	10000	1379	20000	240	9.50	1.730	1.160
1	25.4	1.000	39.2	1543	345	5000	690	10000	1379	20000	300	12.00	2.250	1.510
1.1/4	32.0	1.250	49.8	1960	345	5000	690	10000	1379	20000	419	16.50	3.700	2.485
1.1/2	38.0	1.500	57.3	2255	345	5000	690	10000	1379	20000	500	20.00	4.850	3.255
2	50.8	2.000	71.0	2795	345	5000	690	10000	1379	20000	630	25.00	6.900	4.630

Super High Pressure Hoses

RH SP — 14

RH SP 14

Construction :
Tube: Black oil resistant synthetic rubber Reinforcement 4 to 6 high tensile wire spirals Cover: Black oil resistant synthetic rubber

Working Temperature:
– 40oC to + 121C
Impulse tested at 4,00,000 cycles.

Approvals:
R&D Dighe, Pune for impulsetest.

NOM SIZE	DN	I.D.		O.D.		WORKING PRESSURE		TESTING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIOUS		WEIGHT	
		MM	IN	MM	IN	BAR	PSI	BAR	PSI	BAR	PSI	MM	IN	Kgmt	Lbs/ft
1/4	6	6.3	.250	17.8	700	450	6525	900	13050	1800	26100	150	6.00	.630	.423
3/8	10	9.5	.375	21.4	842	445	6450	890	13900	1780	25300	178	7.00	.780	.523
1/2	12	12.7	.500	24.6	.968	415	6020	830	12040	1660	24074	230	9.00	.930	.624
5/8	16	16.0	.625	28.5	1.112	350	5075	700	10150	1400	20300	250	10.00	1.130	.758
3/4	20	19.0	.750	32.0	1.260	350	5075	700	10150	1400	20300	300	12.00	1.530	1.027
1	25	25.4	1.000	39.7	1.563	280	4060	560	8120	1120	16240	340	13.00	2.060	1.382
1.1/4	32	32.0	1.250	50.8	2.000	210	3045	420	6090	840	12180	457	18.00	3.290	2.207
11/2	40	38.0	1.500	57.0	2.244	185	2680	370	5360	740	10730	559	22.00	3.780	2.536
2	50	50.8	2.000	70.6	2.780	–	2500	–	5000	689	10000	660	26.00	5.470	3.670

Low Pressure Hoses

RH LP — 15

RH LP — 15

Tube :
Synthetic Rubber
Cover :
Single Wire Braid
Temp :
– 40°c to + 130° c
Also available
with SS wire Braiding

I. D.		WORKING PRESSURE	TESTING PRESSURE	BURST PRESSURE	MIN BEND RADIUS
IN.	MM.	LBS/PSI	LBS/PSI	LBS/PSI	MM.
3/16	4.8	425	850	1700	25
1/4	6.4	400	800	1600	30
5/16	7.9	350	700	1400	35
3/8	9.5	250	500	1000	40
1/2	12.7	250	500	1000	55
5/8	15.9	225	450	900	75
3/4	19.0	175	350	700	90

RH LP — 16

RH LP — 16

Tube :
Synthetic Rubber
Cover :
Rayon & Wire Braid
Temp :
40° c to + 130° c
Also available
with SS wire Braiding

I.D		WORKING PRESSURE	TESTING PRESSURE	BURST. PRESSURE	MIN BEND RADIUS
IN.	MM.	LBS/PSI	LBS/PSI	LBS/PSI	MM.
3/16	4.8	850	1700	3400	50
1/4	6.4	800	1600	3200	55
5/16	7.9	700	1400	2800	55
3/8	9.5	650	1300	2600	70
1/2	12.7	575	1150	2300	95
5/8	15.9	500	1000	2000	110
3/4	19.0	425	850	1700	130

High Temperature (Teflon) Hoses

RH TP -Teflon (PTFE)

RH TP — TEFLON (PTFE)

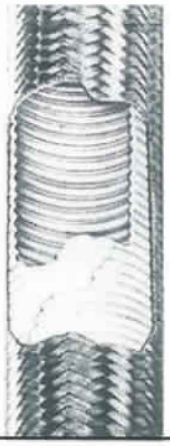
APPLICATION :
Dilute or concentrated acids, solvents, caustics, hot-lacquers, oxidising agents, fuels, oils, steam, gases, drugs, foods. Unaffected by Most chemicals except molten alkali Metals.

CONSTRUCTION :
Inner Teflon(PTFE) tube with one braid of high tensile stainless steel (SS 304) wire. Also available in two or three braid for higher pressure application

TEMPERATURE RANGE :
—73° C to + 260° C.

HOSE SIZE				WORKING PRESSURE	TESTING PRESSURE	MIN. BEND RADIUS
I.D.		O.D.		LBS/PSI	LBS/PSI	
IN.	MM.	IN.	MM.	IN.	IN.	IN.
3/16	4.8	5/16	7.9	2500	5000	1
1/4	6.4	3/8	9.5	2300	4600	3
5/16	7.9	15/32	11.9	2000	4000	4
3/8	9.5	19/32	15.0	1400	2800	5.1
1/2	12.7	21/32	16.6	1300	2600	6.5
5/8	15.9	3/4	19.0	1200	2400	7.8
3/4	19.0	31/32	24.6	1000	2000	10.8
1	25.4	1.1/4	31.8	700	1400	15.5

RH TC- Teflon (PTFE)



RH TC — TEFLON (PTFE)

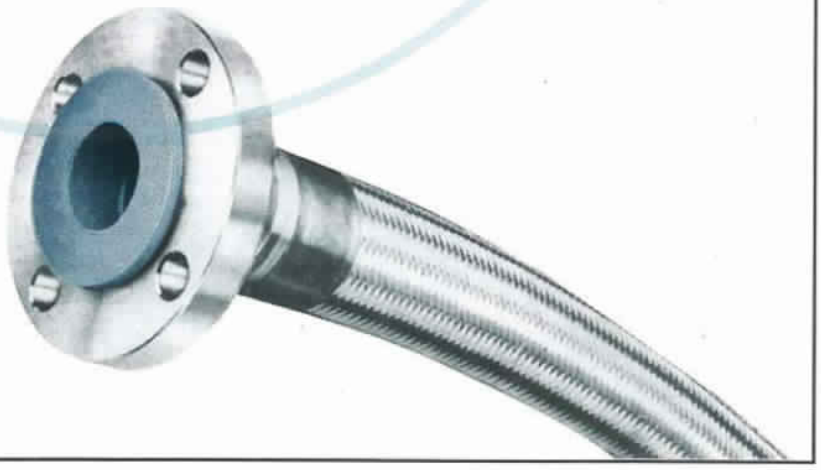
CONSTRUCTION :
Innercore of virgin corrugated Teflon (PTFE) and overbraid of high tensile stainless steel wire (SS 304) designed to yield maximum pressure ratings. Each corrugation has a low-profile shape to promote easy cleaning.

TEMPERATURE RANGE :
-- 70° C to + 260° C

I.D. MM	WORKING PRESSURE KG/CM2	TESTING PRESSURE	BUST PRESSURE	MINIMUM BEND RADIUS MM
12	102	204	408	75
20	85	170	340	95
25	85	170	340	127
32	68	136	272	155
38	51	102	204	190
50	34	68	136	255
75	17	34	68	380

Teflon (PTFE) Corrugated Hose with Teflon (PTFE) fitting

In addition we can offer Teflon Hose Assemblies with STUB ends made entirely of TEFLON instead of Coating on STUB ends where due to handling of Assemblies or dismantling more often, the Coatings are likely to give way. This is recommended in applications where highly corrosive materials are used.

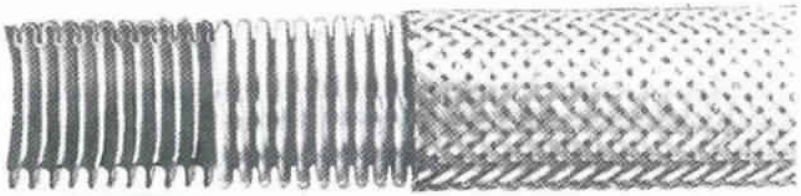


S. S. Corrugated Flexible Hoses

STAINLESS STEEL ANNULAR CORRUGATED HOSES

STANDARD WEIGHT, sizes 6 mm (1/4") through 350 mm (14") I.D.

Annular corrugated stainless steel hose,
close pitch, for conveying chemicals,
gases, steam, etc.
Suitable for high pressures.
Temperature range.
from —273° C to + 800° C



CONSTRUCTION

Made with annular corrugations from butt-welded pipe (type BW 21 and BWA 21) or lap-welded pipe (type LW 21). Hoses are manufactured from type AISI 321 stainless steel. Braiding will be of AISI 304 constructions are also available in type AISI 316 stainless steel, to be specified when ordering as BW 16, BWA 16 or LW 16.

TYPE	unbraided	with one wire braid	with one light wire braid	with one wire braid and protective casing
	BW21-0 BWA21-0 LW21-0	BW21-1 BWA21-1 LW21-1	BWA21-1L	BW21-1-C LW21-1-C

nominal I.D. mm	nominal I.D. inch	designation	maximum O.D. mm	min.c/lbend radius for* constant flexure mm	min.c/lbend radius for* permanent bend mm	minimum exposed length for normal vibration mm	rated burst pressure bar	maximum working pressure bar	maximum test pressure bar	weight kg/m
6	1/4	BW21-0 BW21-1	11,6 12,7	100	25	- 115	- 310	18 77	- 155	0,13 0,21
10	3/8	BW21-0 BW21-1	16,4 17,7	150	30	- 125	- 241	18 60	- 120	0,27 0,36
13	1/2	LW21-0 LW21-1	20,1 21,6	180	40	- 140	- 241	5 60	- 120	0,25 0,42
19	3/4	LW21-0 LW21-1	27,4 29,0	190	30	- 150	- 165	3 41	- 82	0,37 0,58
25	1	LW21-0 LW21-1	35,3 37,3	215	50	- 180	- 138	3 34	- 69	0,55 0,91
32	1.1/4	LW21-1 LW21-1	42,9 45,0	230	75	- 200	- 110	2 27	- 55	0,71 1,10
38	1.1/2	LW21-0 LW21-1	51,1 53,9	255	90	- 215	- 104	1 26	- 48	1,18 1,77
50	2	LW21-0 LW21-1	68,5 71,3	280	125	- 230	- 97	0,7 24	- 31	1,34 2,13
65	2.1/2	LW21.0 LW21-1	82,8 85,6	330	140	- 225	- 69	0,7 17	- 31	1,73 2,75
75	3	LW21-0 LW21-1	98,6 102,9	380	150	- 280	- 69	0,7 17	- 31	2,11 3,65
90	3.1/2	LW21-0 LW21-1	112,3 116,6	485	205	- 305	- 60	0,7 15	- 24	2,68 4,51
100	4	LW21-0 LW21-1	130,7 135,0	585	280	- 305	- 56	0,2 14	- 21	3,36 5,64
125	5	BWA21-0 BWA21-1L BWA21-1	149,7 155,3 155,3	965	455	- 330 330	- 48 76	0,3 10 17	- 14 17	4,52 6,75 7,62
150	6	BWA21-0 BWA21-1L BWA21-1	176,5 182,1 182,1	990	510	- 370 370	- 34 56	0,2 7 14	- 10 16	5,43 7,75 8,71
200	8	BWA21-0 BWA21-1	231,8 238,4	1040	610	- 420	- 56	0,09 14	- 14	8,36 14,17
250	10	BWA21-0 BWA21-1	286,9 293,5	1090	710	- 445	- 41	0,07 10	- 10	8,87 15,15
300	12	BWA21-0 BWA21-1	342,1 351,3	1140	785	- 495	- 41	0,05 9	- 9	11,91 18,69
350	14	BWA21-0 BWA21-1	375,3 384,4	1220	840	- 535	- 34	0,04 7	- 7	14,39 22,31

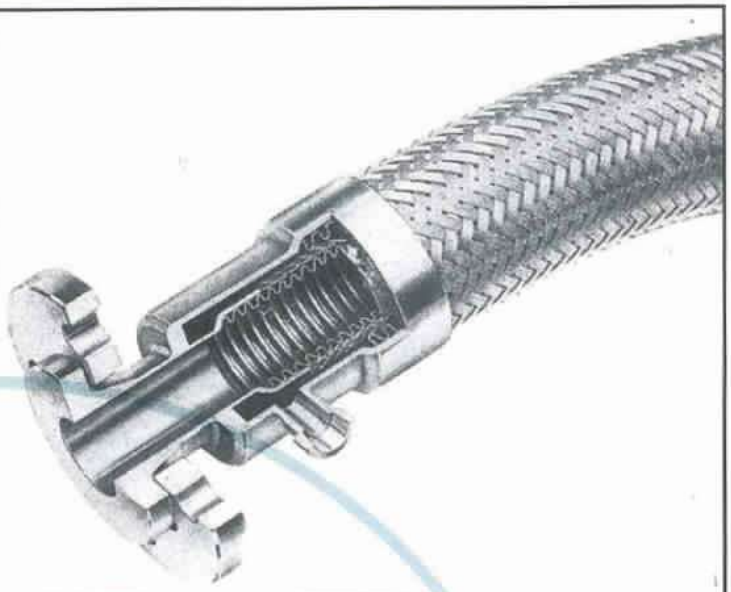
* It is recommendable to increase the minimum bend radius with 25% when high pressure and temperatures are involved.

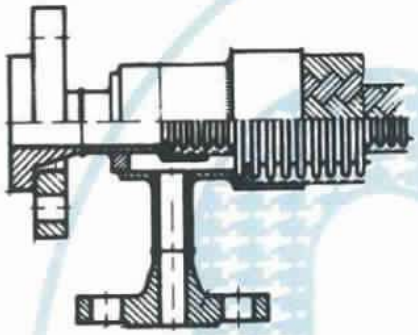
* We suggest that the maximum working pressure be no more than 25% (4:1) of the rated burst pressure of the hose assembly after correcting service temperature.

Jacketed Flexible Metal Hose (Stainless Steel Corrugated)

For heat treatment to any fluid with steam or hot oil in the jacketed section these are used. By this temperature of the fluid in the inner hose is raised thereby lowering its viscosity and permitting free flow of the liquid. The high flexibility of the hose is apt for angular and offset movements.These can also be used as coolant hose in compressors and engines.

Mainly for use in chemical, pharmaceutical, petroleum and engineering industries.





While intending pleaser specify internal diameter of internal And external hose. Length and end fittings. Maximum Operating temperature and pressure with media conveyed in Internal and external hose be also specified

Liquefied Petroleum Gas (LPG) Hose

These are made to BS 4089:1989 specifications

Construction:

Suitable rubber (tube) compound resistant to liquefied petroleum gas with reinforcement of one layer or braided high tensile steel wire. Outer Cover of rubber compound resistant to abrasion, weather, ozone and petroleum fuel. (With perforated cover also is available)

Hose with high tensile wire reinforcement is also available if required

Temperature – 20 Deg. C to + 45 Deg. C

Burst Pressure: 100 BAR Working Pressure: 25 BAR

Sizes: 8MM to 75MM available in single length of 15 to 18 metres

These can also be made with external Stainless Steel wire or G.I wire braiding as may be needed

Other Hose Ranges

Asbestos Covered/Braided Hose :

These are specially recommended for use in Steel plants, furnaces and are suitable for pressure 15 Kg/Cm^2 and temperature 100°C.

Chemical Hose :

For conveying dilute and concentrated chemicals normally to IS specifications. Hose construction of inner tube made of suitable rubber compound with textile reinforcement with natural or man made fibre fabric or braided yarn covered with suitable rubber compound. Applicable for working pressure of 30 kg/cm^2 or 40 kg/cm^2. Size ranging I.D. 12.5 mm to 125 mm. Special application in Fertilizer and chemical Industries.

Air Hose, Pneumatic Hose, Rock Drill Hose :

For use in general applications in construction Road building etc. and made to IS specification with textile woven and braided construction. Pressure ranging from 28 Kg/cm^2 to 56 Kg/cm^2.

Steam Hose with Textile Reinforcement :

These are for low working pressure ranging 2 to 5 Kg/cm^2 made to British standard.
Temperature upto 200°C.

Suction & Discharge Hose :

These are made generally to BSS 924/1955 with inner tube of smooth blended black synthetic polymer with reinforcement of synthetic fabric or Canvas with helix wire, covered with black synthetic polymer.

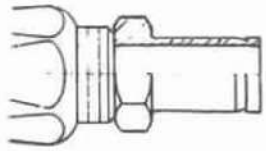
Air Craft Fuelling Hose

These are available in specification IS 5797 OR BS 3158 as well as to API Standards.

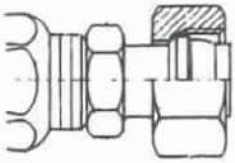
IS and BS have got copper wire. API Standard though do not have copper wire but cover has been taken care of.

Hose Fitting Ranges

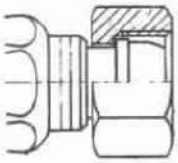
STRAIGHT STANDPIPE END FITTINGS



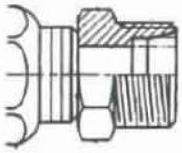
STANDPIPE END FITTING WITH PRE-SWAGED RING



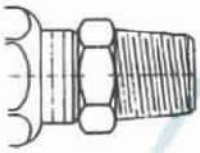
FEMALE NOZZLE END FITTINGS (24° CONE)



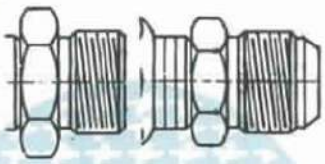
MALE STUD END FITTINGS (24° CONE)



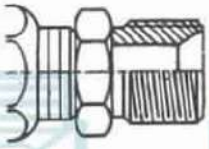
MALE STUD TAPER END FITTINGS, NPT



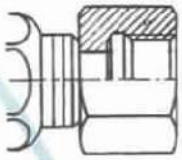
JIC MALE STUD END FITTINGS



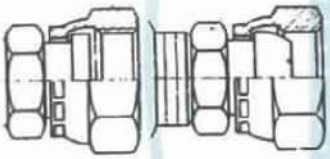
BSP MALE STUD END FITTINGS



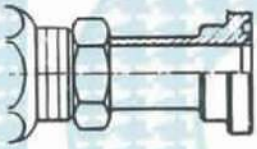
NOMINAL BORE FEMALE SWIVEL NUT END FITTINGS



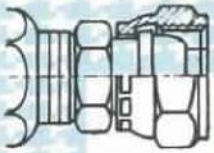
BSP FEMALE SWIVEL NUT END FITTINGS, 60° CONE



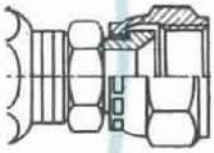
STRAIGHT FLANGED END FITTINGS



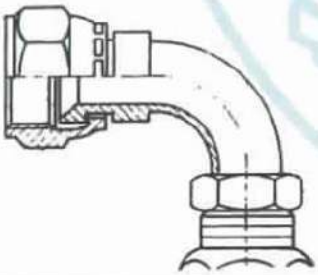
DIN FEMALE SWIVEL NUT END FITTINGS



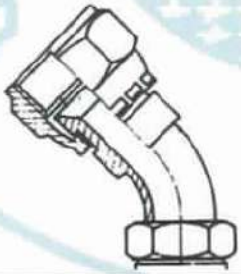
JIC FEMALE SWIVEL NUT END FITTINGS, 74° CONE



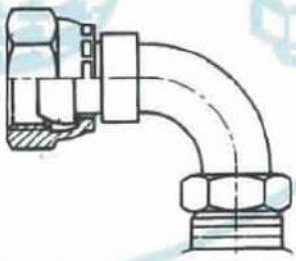
JIC FEMALE SWIVEL NUT END FITTINGS



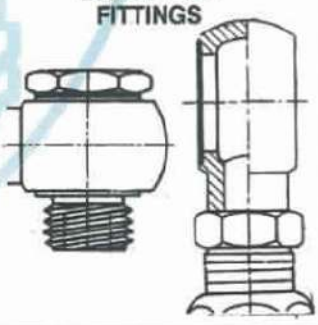
JIC FEMALE SWIVEL NUT END FITTINGS



BSP FEMALE SWIVEL NUT END FITTINGS, 60° CONE, 90° ELBOW

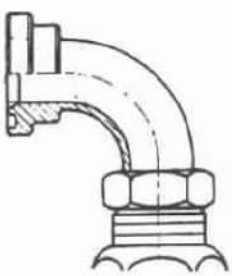


BANJO END FITTINGS



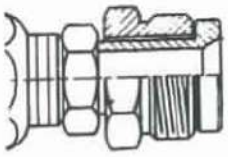
BSP FEMALE SWIVEL NUT END FITTINGS, 60° CONE, 135° ELBOW

FLANGED END FITTINGS, 90° ELBOW

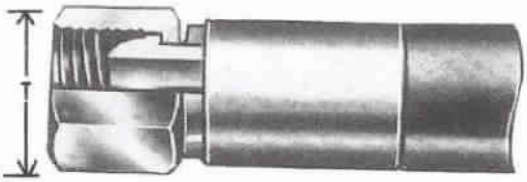


FLANGED END FITTINGS 135° ELBOW

RACK SWIVEL END FITTINGS, 60°CONE



End Connections (For Hydraulic Hoses)

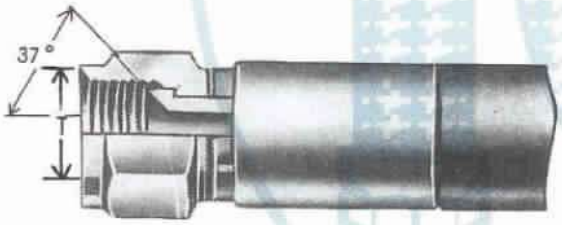


Female Swivel

Sr. No.	Thread Size (T)	Sr. No.	Thread Size (T)
1	1/8" BSP	1– A	M12 x 1.5
2	1/4" BSP	2 – A	M14 x 1.5
3	3/8" BSP	3– A	M16 x 1.5
4	1/2" BSP	4 – A	M18 x 1.5
5	5/8" BSP	5 – A	M22 x 1.5
6	3/4" BSP	6 – A	M26 x 1.5
7	1" BSP	7 – A	M30 x 1.5
8	1 1/4" BSP	8 – A	M38 x 1.5
9	1 1/2" BSP	9 – A	M45 x 1.5
10	2" BSP	10 – A	M52 x 1.5

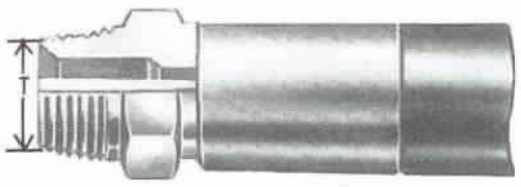
Male Thread

Sr. No.	Thread Size (T)	Sr. No.	Thread Size (T)
11	1/8" BSP	11– B	M12 x 1.5
12	1/4" BSP	12 – B	M14 x 1.5
13	3/8" BSP	13– B	M16 x 1.5
14	1/2" BSP	14 – B	M18 x 1.5
15	5/8" BSP	15 – B	M22 x 1.5
16	3/4" BSP	16 – B	M26 x 1.5
17	1" BSP	17 – B	M30 x 1.5
18	1 1/4" BSP	18 – B	M38 x 1.5
19	1 1/2" BSP	19 – B	M45 x 1.5
20	2" BSP	20 – B	M52 x 1.5
21	2–1/2" BSP	21 – B	M65 x 2



Female Swivel JIC

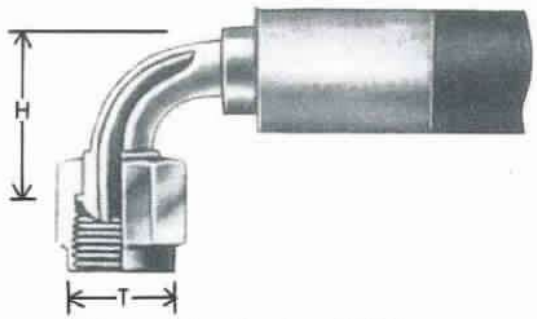
Sr. No.	Thread Size (T)	
22	7/16 – 20 UNF	In case angle of Female seat other than 74°; please Specify 60° or 90°
23	1/2" – 20 UNF	
24	5/8" – 18 UNF	
25	3/4" – 16 UNF	
26	7/8" – 14 UNF	
27	1 - 1/16" – 12 UNF	
28	1 - 5/16" – 12 UNF	
29	1 - 5/8" – 12NUF	
30	1 - 7/8" – I2 UNF	
31	2 – 1/4" – 12 UNF	
32	2 - 1/2" – 12 UNF	



Taper Male Thread

Sr. No.	Thread Size (T)	
33	1/8" – NPTF	
34	1/4" – NPTF	
35	3/8" – NPTF	
36	1/2" – NPTF	
37	1/2" – NPTF	
38	3/4" – NPTF	
39	1" – NPTF	
40	1-1/4" – NPTF	
41	1 -1/2" – NPTF	

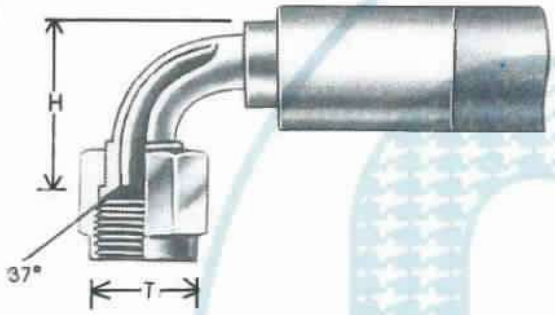
End Connections (For Hydraulic Hoses)



Female Swivel Elbow

Sr. No.	Thread Size (T)	Height (Short) (H) mm	Height (Long) (H) mm
42	1/8" BSP	11.0	–
43	1/4" BSP	12.0	27.0
44	3/8" BSP	15.0	32.0
45	1/2" BSP	16.5	36.0
46	5/8" BSP	18.0	40.5
47	3/4" BSP	22.0	50.0
48	1" BSP	26.0	59.0
49	$1^1/_4$" BSP	30.0	66.0
50	$1^1/_2$" BSP	32.0	66.0
51	2" BSP	35.0	86.0
52	2 - 1/2" BSP	48.0	100.0

available also in metric threads. Refer Page 12

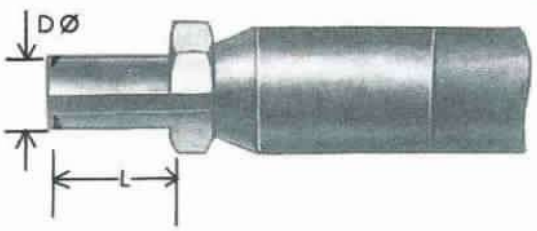


Female Swivel – JIC (Elbow)

Sr. No.	Thread Size (T)	Height (H) mm	
53	/16" – 20 UNF	18.5	In case angle of Female seat other than 74°; please Specify 60° or 90°
54	1/2" – 20 UNF	30.0	
55	9/16" – 18 UNF	30.0	
56	3/4" – 16 UNF	33.0	
57	7/8" – 14 UNF	41.0	
58	1 - 1/16" – 12 UNF	46.0	
59	1 - 5 /16" – 12 UNF	55.0	
60	1-5/8" – 12 UNF	63.0	
61	5/8" – 18 UNF	18.5	
62	3/4" – 16 UNF	28.5	
63	7/8"" – 14 UNF	33.0	
64	1 - 1/16" – 14 UNF	41.0	
65	1 - 5/16" – 14 UNF	46.0	

Flange – Straight

Sr. No.	Flange Size (D)	
66	30.0	O Ring diameter etc. shall be corresponding, as per standards
67	38.1	
68	44.5	
69	50.8	
70	60.5	



Bee – Nipple

Sr. No.	Pipe Dia 'D'		Length 'L'	
	S	L	S	L
71	6	8	20	22
72	8	10	22	24
73	10	12	24	25
74	12	14	25	27
75	15	16	25	30
76	18	20	25	32
77	22	25	25	34
78	28	30	25	36
79	35	38	30	38
80	42		36	
81	52		50	

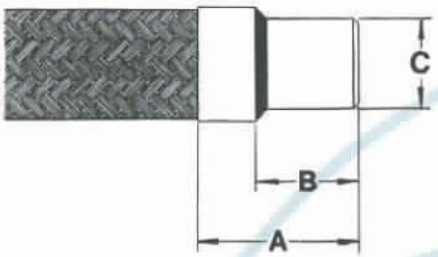
Standard Fittings

FOR STAINLESS STEEL CORRUGATED HOSE

Fittings are TIG welded to the corrugated stainless steel hoses in type AISI 304/316 stainless steel (non-standard) and other metals as may be required.

RHSF1

RHSF1



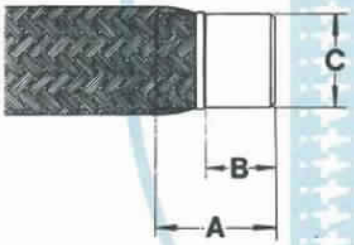
welding end 6 mm (1/4") to 100 mm (4") incl.

Inside hose diameter		Dimension in mm	
mm	inch	A	B
6	1/4	59	50
10	3/8	60	50
13	1/2	62	50
19	3/4	65	50
25	1	70	50
32	1.1/4	70	50
38	1.1/2	85	60
50	2	90	60
65	2.1/2	90	60
75	3	95	65
100	4	105	75

* 'C' While ordering with fittings, please specify dimension.

RHSF1(A)

RHSF1(A)



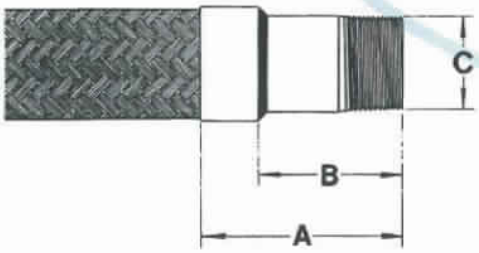
welding end 125 mm (5") to 350 mm (14") incl.

Inside hose diameter		Dimension in mm	
mm	inch	A	B
125	5	125	75
150	6	125	75
200	8	135	75
250	10	135	75
300	12	155	75
350	14	155	75

* 'C' While ordering with fittings, please specify dimension.

RHSF2

RHSF2



pipe nipple tapered male

Inside hose diameter		Dimension in mm					
mm	inch	A	B	C	A	B	C
6	1/4	38	29	1/4"BSPT	45	36	1/4"NPT
10	3/8	39	29	3/8"BSPT	46	36	3/8"NPT
13	1/2	52	40	1/2"BSPT	54	42	1/2"NPT
19	3/4	55	40	3/4"BSPT	61	46	3/4"NPT
25	1	70	50	1"BSPT	73	53	1"NPT
32	1.1/4	75	55	1.1/4"BSPT	75	55	1.1/4"NPT
38	1.1/2	85	60	1.1/2"BSPT	84	59	1.1/2"NPT
50	2	95	65	2"BSPT	87	57	2"NPT
65	2.1/2	105	75	2.1/2"BSPT	120	90	2.1/2"NPT
75	3	105	75	3"BSPT	120	90	3"NPT
100	4	125	95	4"BSPT	125	95	4"NPT

Fittings with other types of thread also available

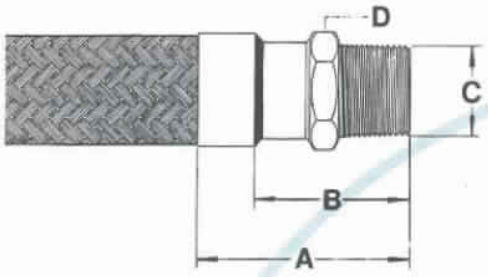
Standard Fittings

FOR STAINLESS STEEL CORRUGATED HOSE

Fittings are TIG welded to the corrugated stainless steel hoses in type AISI 304/316 stainless steel (non-standard) and other metals as may be required.

RHSF2A

RHSF2A

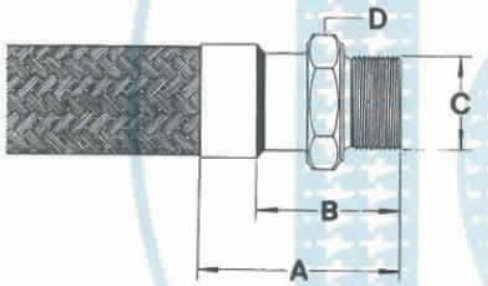


hexagon nipple tapered male

Inside hose diameter		Dimension in mm						
mm	inch	A	B	C	A	B	C	D
6	1/4	33	24	1/4"BSPT	39	27	1/4"NPT	14
10	3/8	38	28	3/8"BSPT	43	33	3/8"NPT	19
13	1/2	46	34	1/2"BSPT	50	38	1/2"NPT	22
19	3/4	55	40	3/4"BSPT	59	44	3/4"NPT	27
25	1	66	46	1"BSPT	69	49	1"NPT	36
32	1.1/4	72	52	1.1/4"BSPT	75	55	1.1/4"NPT	46
38	1.1/2	79	54	1.1/2"BSPT	81	56	1.1/2"NPT	50
50	2	92	62	2"BSPT	89	59	2"NPT	65
65	2.1/2	103	73	2.1/2"BSPT	106	76	2.1/2"NPT	85
75	3	120	90	3"BSPT	–	–	–	105
100	4	130	100	4"BSPT	–	–	–	135

RHSF2B

RHSF2B

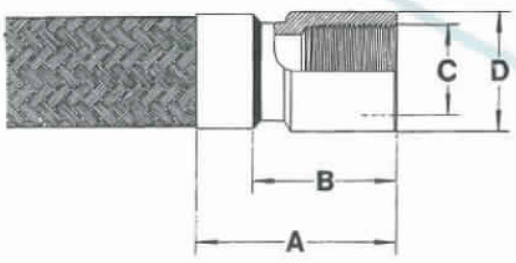


hexagon nipple straight male with inside 60° cone and sealing face on hexagon

Inside hose diameter		Dimension in mm			
mm	inch	A	B	C	D
6	1/4	33	24	1/4"BSP	17
10	3/8	39	29	3/8"BSP	22
13	1/2	44	32	1/2"BSP	27
19	3/4	55	40	3/4"BSP	32
25	1	65	45	1"BSP	41
32	1.1/4	65	45	1.1/4"BSP	50
38	1.1/2	72	47	1.1/2"BSP	55
50	2	81	51	2"BSP	70
65	2.1/2	95	65	2.1/2"BSP	85
75	3	110	80	3"BSP	100
100	4	120	90	4"BSP	135

RHSF3

RHSF3



plain socket straight female

Inside hose diameter		Dimension in mm			
mm	inch	A	B	C	D
6	1/4	36	27	1/4"BSP	17
10	3/8	40	35	3/8"BSP	22
13	1/2	52	40	1/2"BSP	27
19	3/4	55	40	3/4"BSP	33
25	1	70	50	1"BSP	40
32	1.1/4	75	55	1.1/4"BSP	50
38	1.1/2	85	60	1.1/2"BSP	58
50	2	95	65	2"BSP	70
65	2.1/2	104	74	2.1/2"BSP	85
75	3	110	80	3"BSP	100
100	4	124	94	4"BSP	125

Fittings with other types of thread also availble.

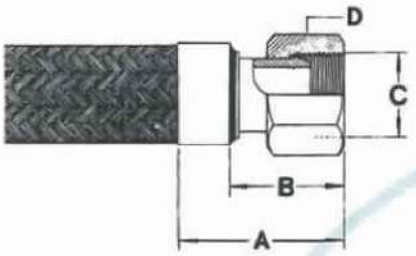
Standard Fittings

FOR STAINLESS STEEL CORRUGATED HOSE

Fittings are TIG welded to the corrugated stainless steel hoses in type AISI 304/316 stainless steel (non-standard) and other metals as may be required.

RHSF4

RHSF4

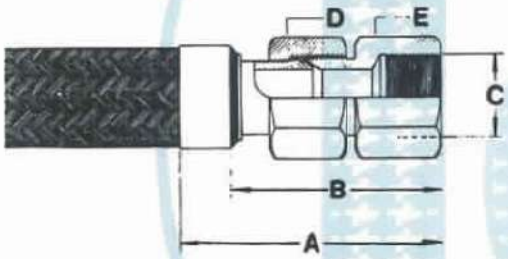


female swivel with spherical cone nipple for 60° seat

Inside hose diameter		Dimension in mm			
mm	inch	A	B	C	D
6	1/4	37	28	1/4"BSP	19
10	3/8	38	28	3/8"BSP	22
13	1/2	40	28	1/2"BSP	27
19	3/4	45	30	3/4"BSP	32
25	1	54	34	1"BSP	41
32	1.1/4	54	34	1.1/4"BSP	50
38	1.1/2	59	34	1.1/2"BSP	60
50	2	68	38	2"BSP	70
65	2.1/2	84	54	2.1/2"BSP	80
75	3	100	70	3"BSP	100

RHSF4A

RHSF4A

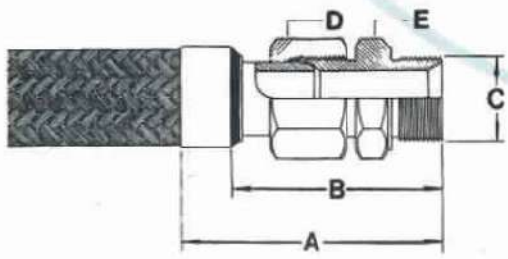


hexagon union, same as fig. RHSF4 completed with straight female nipple

Inside hose diameter		Dimension in mm				
mm	inch	A	B	C	D	E
6	1/4	64	55	1/4"BSP	19	17
10	3/8	66	56	3/8"BSP	22	22
13	1/2	71	59	1/2"BSP	27	27
19	3/4	80	65	3/4"BSP	32	32
25	1	93	73	1"BSP	41	41
32	1.1/4	95	75	1.1/4"BSP	50	50
38	1.1/2	102	77	1.1/2"BSP	60	55
50	2	113	83	2"BSP	70	70
65	2.1/2	133	103	2.1/2"BSP	85	85

RHSF4B

RHSF4B



hegxagon union, same as fig. RHSF 4 completed with straight male nipple.

Inside hose diameter		Dimension in mm				
mm	inch	A	B	C	D	E
6	1/4	59	50	1/4"BSP	19	17
10	3/8	64	54	3/8"BSP	22	22
13	1/2	72	60	1/2"BSP	27	27
19	3/4	85	70	3/4"BSP	32	32
25	1	97	77	1"BSP	38	38
32	1.1/4	90	70	1.1/4"BSP	50	50
38	1.1/2	97	72	1.1/2"BSP	60	55
50	2	110	80	2"BSP	70	70
65	2.1/2	135	105	2.1/2"BSP	80	85
75	3	162	132	3"BSP	100	100

Fittings with other types of thread also availble.

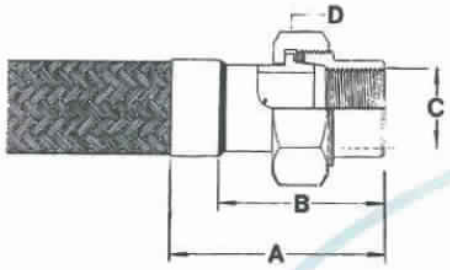
Standard Fittings

FOR STAINLESS STEEL CORRUGATED HOSE

Fittings are TIG welded to the corrugated stainless steel hoses in type AISI 304/316 stainless steel (non-standard) and other metals as may be required.

RHSF5

RHSF5

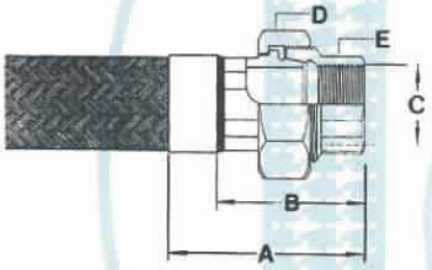


Steel Hexagon Union straight female with conical sealing face

Inside hose diameter		Dimension in mm			
mm	inch	A	B	C	D
6	1/4	49	40	1/4"BSP	27
10	3/8	56	46	3/8"BSP	32
13	1/2	54	54	1/2"BSP	41
19	3/4	75	60	3/4"BSP	50
25	1	86	66	1"BSP	55
32	1.1/4	92	72	1.1/4"BSP	70
38	1.1/2	106	81	1.1/2"BSP	75
50	2	121	91	2"BSP	90
65	2.1/2	132	102	2.1/2"BSP	110
75	3	137	107	3"BSP	130
100	4	148	118	4"BSP	155

RHSF6

RHSF6

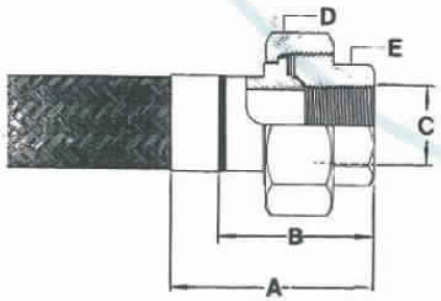


Hexagon Union, same as fig. RHSF 5 stainless steel

Inside hose diameter		Dimension in mm				
mm	inch	A	B	C	D	E
6	1/4	51	42	1/4"BSP	32	18
10	3/8	55	45	3/8"BSP	36	21
13	1/2	60	48	1/2"BSP	45	25
19	3/4	67	52	3/4"BSP	48	31
25	1	78	58	1"BSP	52	38
32	1.1/4	85	65	1.1/4"BSP	65	47
38	1.1/2	95	70	1.1/2"BSP	72	53
50	2	108	78	2"BSP	90	66
65	2.1/2	115	85	2.1/2"BSP	110	83
75	3	125	95	3"BSP	125	96
100	4	140	110	4"BSP	165	123

RHSF7

RHSF7



Hexagon union tapered female with spherical cone sealing face in steel or stainless steel

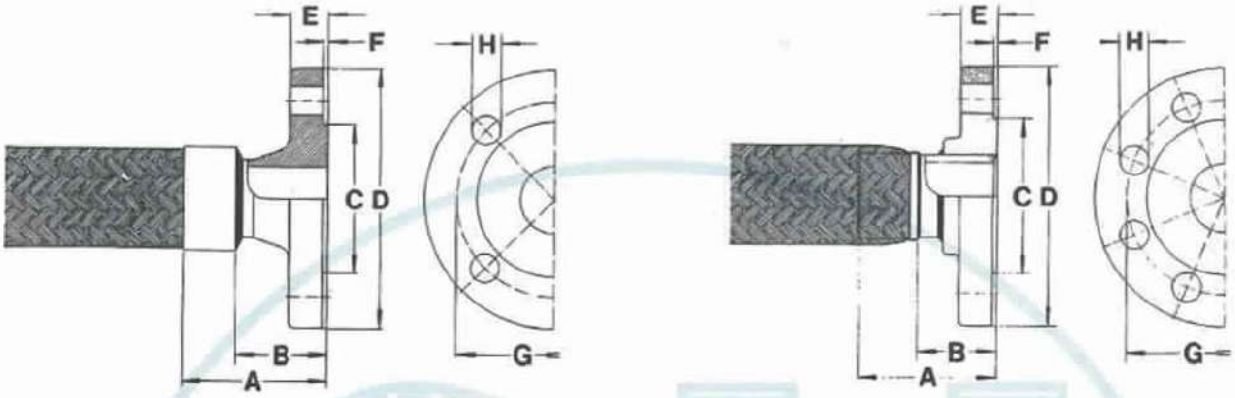
Inside hose diameter		Dimension in mm				
mm	inch	A	B	C	D	E
6	1/4	51	42	1/4"NPT	36	20°
10	3/8	57	47	3/8"NPT	41	24°
13	1/2	62	50	1/2"NPT	46	29°
19	3/4	73	58	3/4"NPT	55	35
25	1	84	64	1"NPT	65	43
32	1.1/4	91	71	1.1/4"NPT	75	52
38	1.1/2	103	78	1.1/2"NPT	85	59
50	2	117	87	2"NPT	104	73
65	2.1/2	133	103	2.1/2"NPT	124	87
75	3	139	109	3"NPT	146	105

with round outline diameter

Fittings with other types of thread also availble.

Standard Flange Fittings

FOR STAINLESS STEEL CORRUGATED HOSE
FIXED FLANGES ACCORDING TO ANSI STANDARD

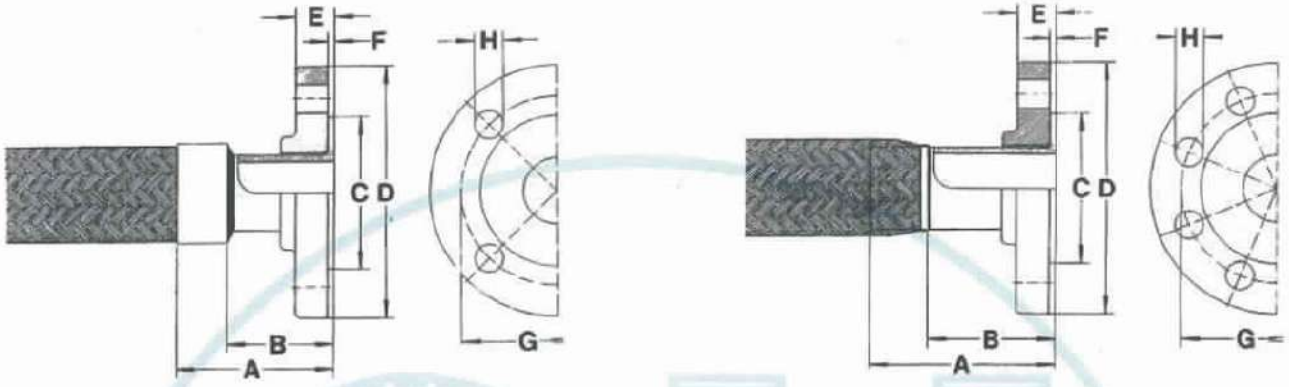


ANSI 150lbs.	nominal diameter mm	nominal diameter inch	A	B	C	D	E	F	G	H	number of holes
	13	1/2	60	48	35	89	11	1.6	60.5	16	4
	19	3/4	67	52	43	98.5	12.5	1.6	70	16	4
	25	1	76	56	51	108	14.5	1.6	79.5	16	4
	32	1.1/4	77	57	63.5	117.5	16	1.6	89	16	4
	38	1.1/2	87	62	73	127	17.5	1.6	98.5	16	4
	50	2	94	64	92	152.5	19	1.6	120.5	19	4
	65	2.1/2	100	70	105	178	22	1.6	139.5	19	4
	75	3	100	70	127	190.5	24	1.6	152.5	19	4
	100	4	106	76	157	228.5	24	1.6	190.5	19	8
	125	5	127	77	185.5	254	24	1.6	216	22	8
	150	6	130	80	216	279.5	25.5	1.6	241.5	22	8
	200	8	150	90	270	343	28.5	1.6	298.5	22	8
	250	10	156	96	324	406.5	30	1.6	362	25.5	12
	300	12	181	101	381	482.5	31.5	1.6	432	25.5	12
	350	14	184	104	412.5	533.5	35	1.6	476	28.5	12
ANSI 300lbs.	**nominal diameter mm**	**nominal diameter inch**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**number of holes**
	13	1/2	64	52	35	95	14.5	1.6	66.5	16	4
	19	3/4	72	57	43	117.5	16	1.6	82.5	19	4
	25	1	82	62	51	124	17.5	1.6	89	19	4
	32	1.1/4	85	65	63.5	133.5	19	1.6	98.5	19	4
	38	1.1/2	93	68	73	155.5	20.5	1.6	114.5	22	4
	50	2	100	70	92	165	22	1.6	127	19	8
	65	2.1/2	106	76	105	190.5	25.5	1.6	149	22	8
	75	3	109	79	127	209.5	28.5	1.6	168.5	22	8
	100	4	116	86	157	254	31.5	1.6	200	22	8
	125	5	127	77	185.5	279.5	35	1.6	235	22	8
	150	6	130	80	216	317.5	36.5	1.6	270	22	12
	200	8	150	90	270	381	41.5	1.6	330	26.5	12
	250	10	156	96	324	444.5	47.5	1.6	387.5	28.5	16
	300	12	181	101	381	520.5	51	1.6	451	31.5	16
	350	14	184	104	412.5	584	54	1.6	514.5	31.5	20

We can also use flanges to any other standards/ dimensions as may be ordered.
Flanges can also be supplied in type AISI 304/316 or M.S. as may be required.

Standard Flange Fittings

FOR STAINLESS STEEL CORRUGATED HOSE
FLOATING FLANGES ACCORDING TO ANSI STANDARD



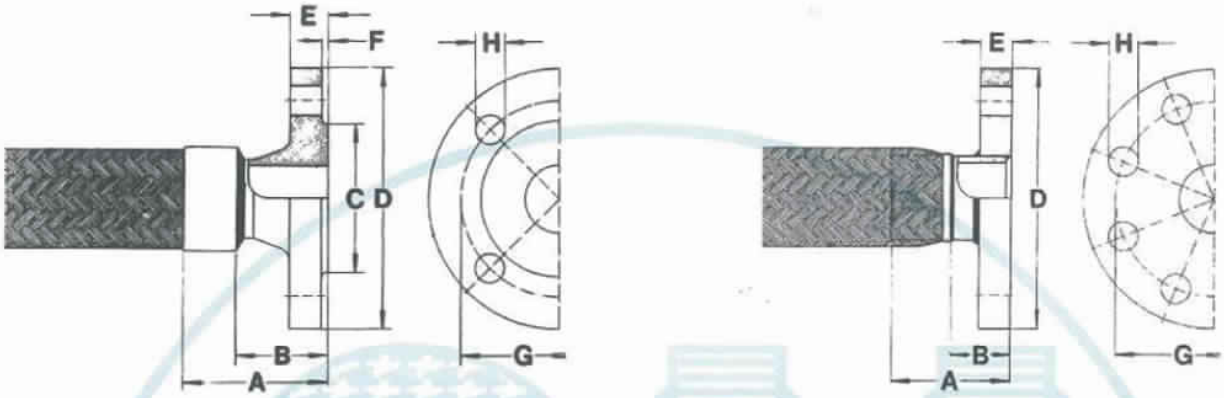
ANSI 150lbs. nominal diameter mm	inch	A	B	C	D	E	F	G	H	number of holes
13	1/2	64	52	35	89	17.5	6.4	60.5	16	4
19	3/4	67	52	43	98.5	19	6.4	70	16	4
25	1	72	52	51	108	20.5	6.4	79.5	16	4
32	1.1/4	72	52	63.5	117.5	22.5	6.4	89	16	4
38	1.1/2	87	62	73	127	24	6.4	98.5	16	4
50	2	92	62	92	152.5	25.5	6.4	120.5	19	4
65	2.1/2	92	62	105	178	28.5	6.4	139.5	19	4
75	3	98	68	127	190.5	30	6.4	152.5	19	4
100	4	108	78	157	228.5	30	6.5	190.5	19	8
125	5	200	150	185.5	254	30.5	6.5	216	22	8
150	6	200	150	216	279.5	32	7.5	241.5	22	8
200	8	235	175	270	343	37	8.5	298.5	22	8
250	10	270	210	324	406.5	39.5	9.5	362	25.5	12
300	12	295	215	381	482.5	41	9.5	362	25.5	12
350	14	305	225	412.5	533.5	44.5	9.5	476	28.5	12

ANSI 300lbs. nominal diameter mm	inch	A	B	C	D	E	F	G	H	number of holes
13	1/2	64	52	35	95	20.5	6.4	66.5	16	4
19	3/4	67	52	43	117.5	22.5	6.4	82.5	19	4
25	1	72	52	51	124	24	6.4	89	19	4
32	1.1/4	72	52	63.5	133.5	25.5	6.4	98.5	19	4
38	1.1/2	87	62	73	155.5	27	6.4	114.5	22	4
50	2	92	62	92	165	28.5	6.4	127	19	8
65	2.1/2	92	62	105	190.5	32	6.4	149	22	8
75	3	98	68	127	209.5	35	6.4	168.5	22	8
100	4	108	78	157	254	38	6.5	200	22	8
125	5	200	150	185.5	279.5	41.5	6.5	235	22	8
150	6	200	150	216	317.5	44	7.5	270	22	12
200	8	235	175	270	381	50	8.5	330	25.5	12
250	10	270	210	324	444.5	57	9.5	387.5	28.5	16
300	12	295	215	381	520.5	60.5	9.5	451	31.5	16
350	14	305	225	412.5	584	63.5	9.5	514.5	31.5	20

We can also use flanges to any other standards/ dimensions as may be ordered.
Flanges can also be supplied in type AISI 304/316 or M.S. as may be required.

Standard Flange Fittings

FOR STAINLESS STEEL CORRUGATED HOSE
FIXED FLANGES ACCORDING TO DIN STANDARD



NP 6 DIN 2631

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
10	3/8	38	28	35	75	12	2	50	11.5	4
15	1/2	42	30	40	80	12	2	55	11,5	4
20	3/4	47	32	50	90	14	2	65	11.5	4
25	1	55	35	60	100	14	2	75	11.5	4
32	1.1/4	55	35	70	120	14	2	90	14	4
40	1.1/2	63	38	80	130	14	3	100	14	4
50	2	68	38	90	140	14	3	110	14	4
65	2.1/2	68	38	110	160	14	3	130	14	4
80	3	72	42	128	190	16	3	150	18	4
100	4	75	45	148	210	16	3	170	18	4
125	5	105	54		240	19		200	18	8
150	6	105	54		265	19		225	18	8
200	8	120	57		320	21		280	18	8
250	10	120	57		375	23		335	18	12
300	12	142	59		440	23		395	23	12
350	14	145	62		490	25		445	23	12

NP 16 DIN 2633

nom. diam. mm	hoses i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
10	3/8	45	35	40	90	14	2	60	14	4
15	1/2	47	35	45	95	14	2	65	14	4
20	3/4	53	38	58	105	16	2	75	14	4
25	1	58	38	68	115	16	2	85	14	4
32	1.1/4	60	40	78	140	16	2	100	18	4
40	1.1/2	67	42	88	150	16	3	110	18	4
50	2	75	45	102	165	18	3	125	18	4
65	2.1/2	75	45	122	185	18	3	145	18	4
80	3	80	50	138	200	20	3	160	18	8
100	4	82	52	158	220	20	3	180	18	8
125	5	105	54		250	22		210	18	8
150	6	105	54		285	22		240	23	8
200	8	120	57		340	24		295	23	12
250	10	120	57		405	26		355	27	12
300	12	142	59		460	28		410	27	12
350	14	145	62		520	30		470	27	16

NP 10 DIN 2632

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
200	8	120	57		340	22		295	23	8
250	10	120	57		395	24		350	23	12
300	12	142	59		445	24		400	23	12
350	14	145	62		505	24		460	23	16

NP 25 DIN 2634

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
200	8	120	57		360	30		310	27	12
250	10	120	57		425	32		370	30	12
300	12	142	59		485	34		430	30	16
350	14	145	62		555	38		490	33	16

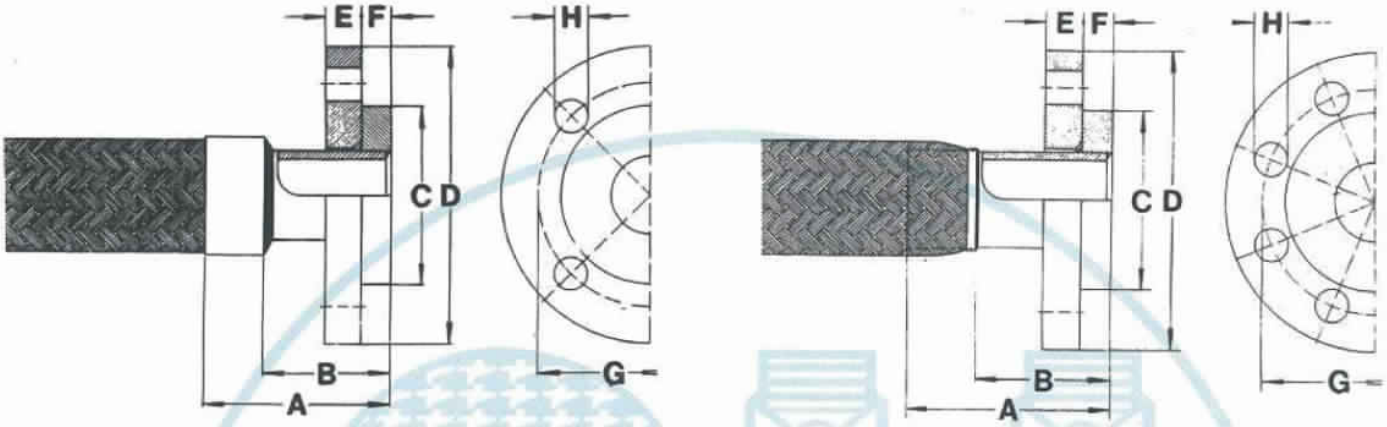
NP 40 DIN 2633

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
10	3/8	45	35	40	90	16	2	60	14	4
15	1/2	50	38	45	95	16	2	65	14	4
20	3/4	55	40	58	105	18	2	75	14	4
25	1	60	40	68	115	18	2	85	14	4
32	1.1/4	62	42	78	140	18	2	100	18	4
40	1.1/2	70	45	88	150	18	3	110	18	4
50	2	78	48	102	165	20	3	125	18	4
65	2.1/2	82	52	122	185	22	3	145	18	8
80	3	88	58	138	200	24	3	160	18	8
100	4	95	65	162	235	24	3	190	23	8

We can also use flanges to any other standards/ dimensions as may be ordered.
Flanges can also be supplied in type AISI 304/316 or M.S. as may be required.

Standard Flange Fittings

FOR STAINLESS STEEL CORRUGATED HOSE
FLOATING FLANGES ACCORDING TO DIN STANDARD



NP 6 DIN 2641

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
10	3/8	62	52	35	75	10	8	50	11.5	4
15	1/2	64	52	40	80	10	8	55	11.5	4
20	3/4	67	52	50	90	10	10	65	11.5	4
25	1	72	52	60	100	12	10	75	11.5	4
32	1.1/4	72	52	70	120	12	10	90	14	4
40	1.1/2	87	62	80	130	12	10	100	14	4
50	2	92	62	90	140	12	12	110	14	4
65	2.1/2	92	62	110	160	12	12	130	14	4
80	3	98	68	128	190	14	14	150	18	4
100	4	108	78	148	210	14	14	170	18	4
125	5	170	119	178	240	14	14	200	18	8
150	6	170	119	202	265	14	14	225	18	8
200	8	195	131	258	320	16	16	280	18	8
250	10	200	136	312	375	20	18	335	18	12
300	12	225	142	365	440	24	18	395	23	12
350	14	227	144	415	490	26	18	445	23	12

NP 10 DIN 2642

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
10	3/8	62	52	40	90	14	10	60	14	4
15	1/2	64	52	45	95	14	10	65	14	4
20	3/4	67	52	58	105	14	12	75	14	4
25	1	72	52	68	115	16	12	85	14	4
32	1.1/4	72	52	78	140	16	12	100	18	4
40	1.1/2	87	62	88	150	16	12	110	18	4
50	2	92	62	102	165	16	14	125	18	4
65	2.1/2	92	62	122	185	16	14	145	18	4
80	3	98	68	138	200	18	16	160	18	8
100	4	108	78	158	220	18	16	180	18	8
125	5	177	126	188	250	18	18	210	18	8
150	6	177	126	212	285	18	18	240	23	8
200	8	203	139	268	240	20	20	295	23	8
250	10	207	143	320	395	22	22	350	23	12
300	12	231	148	370	445	26	22	400	23	12
350	14	233	150	430	505	28	22	400	23	16

NP 25 DIN 2655

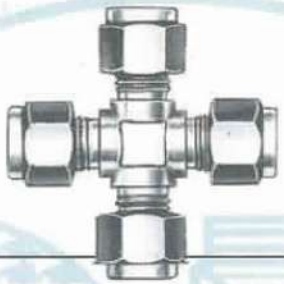
nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
200	8	213	149	278	360	26	24	310	27	12
250	10	219	155	335	425	30	26	370	30	12
300	12	245	162	390	485	34	28	430	30	16
350	14	253	170	450	555	38	32	490	33	16

NP 40 DIN 2656

nom. diam. mm	hose i.d. inch	A	B	C	D	E	F	G	H	numb. of holes
10	3/8	62	52	40	90	16	12	60	14	4
15	1/2	64	52	45	95	16	12	65	14	4
20	3/4	67	52	58	105	16	14	75	14	4
25	1	72	52	68	115	18	14	85	14	4
32	1.1/4	72	52	78	140	18	14	100	18	4
40	1.1/2	87	62	88	150	18	14	110	18	4
50	2	92	62	102	165	20	16	125	18	4
65	2.1/2	92	62	122	185	22	16	145	18	8
80	3	98	68	138	200	22	18	160	18	8
100	4	108	78	162	235	22	20	190	23	8

We can also use flanges to any other standards/ dimensions as may be ordered.
Flanges can also be supplied in type AISI 304/316 or M.S. as may be required.

Compression Fittings

UNION TEE 	MALE RUN TEE 	MALE BRANCH TEE 
FEMALE RUN TEE 	UNION CROSS 	FEMALE BRANCH TEE 
UNION ELBOW-90° 	MALE ELBOW - 90° 	FEMALE ELBOW - 90° 
MALE CONNECTOR 	BULKHEAD MALE CONNECTOR 	FEMALE CONNECTOR 
MALE ELBOW-45° 	BULK HEAD FEMALE CONNECTION 	UNION 
SOFT WELD ELBOW - 90° 	BULKHEAD UNION 	REDUCING UNION 

+ Valves and manifolds are also available

* Detailed specifications/technical parameters can be made available on request.

Quick – Release Couplers

For High Pressure & Low Pressure Applications :

'Quick-Release' couplings eliminate valves and screw on fittings in many pneumatic, hydraulic and chemical systems. They permit easy, safe, quick and reliable connection between delivery lines, pressure hoses and a wide range of equipment. 'Quick-Release' coupling make connection (or disconnection) of fluid systems as easy as plugging in an electrical outlet.

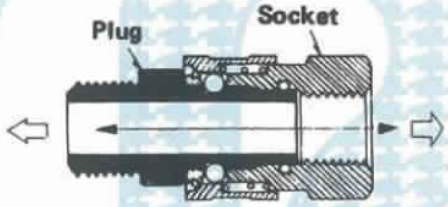
Couplings are available in various materials, sizes and end connections for 20.70 Hg vacuum to 10,000 PSI pressure ratings, in three basic types: Straight Through (Type ST) One way Sealing (Type SC) Two way sealing (Type DC)

'Quick-Release' Couplings are ideal for compressed air installations, hydraulic equipment, pneumatic instrumentation, Fluid Transfer lines, Refrigeration Industry, Fuel supply installations, Fuel Oil burners, Bulk loading & unloading and test benches etc.. In fact whatever your applications we have a 'Quick-Release' coupling for your needs.

Unique feature of these couplers is that these are interchangeable.

Basic Types

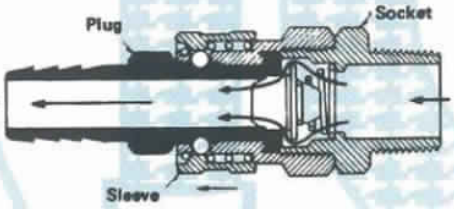
(Type ST)



Straight Through (Type ST)

Do not have built-in check valves. Used where quickly detachable and rotatable connections are needed where regulation and closure of lines is achieved by back-up valves. Permit full flow capability due to their smooth and accurately finished bores.

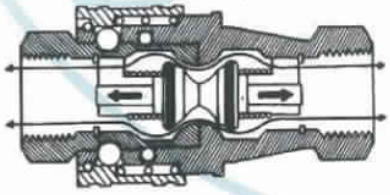
(Type SC)



One Way Sealing (Type SC)

With one check valve built into the coupling only whereas plugs do not have any check valves. Can be advantageously used where one side of flow systems needs to be sealed on disconnection.

(Type DC)



Two Way Sealing (Type DC)

Both coupling and plug have built-in check valves; on disconnection, both ends of the system are sealed. No premature flow is possible during connection.

Materials used for making of Quick-Release coupling are Carbon Steel duly plated, Stainless Steel 304, 316, Brass etc.

Size Range 1/8", 1/4", 3/8", 1/2". Up to 6".

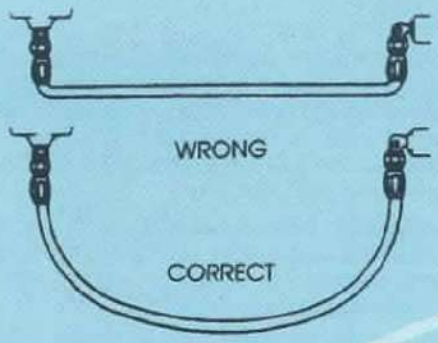
End Connections Pipe Thread Male/Female, Hose Shank etc.

Pressure Ratings

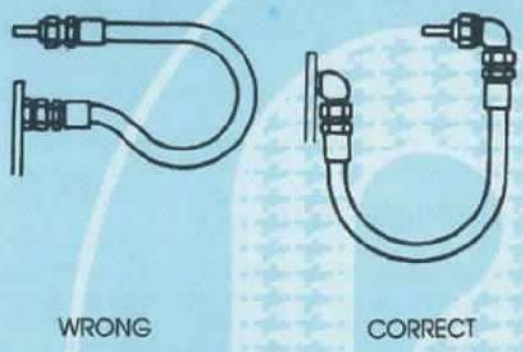
- For pressure up to 35 kg/cm2 or 500 PSI
- For pressure up to 205 Kg/cm2 or 3000 PSI
- For pressure up to 900 Kg/cm2 or 13000 PSI

Temperature : –218°C to 232°C

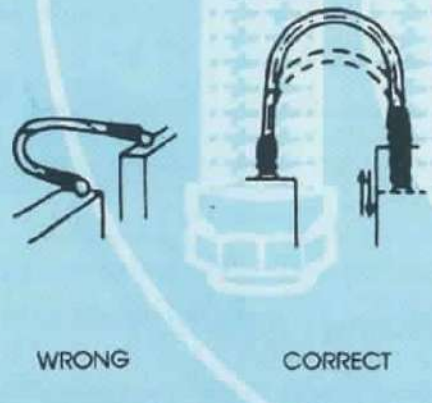
Hose Installation



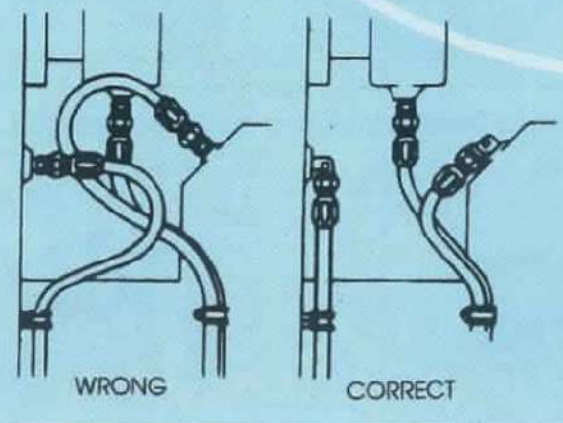
Do not use hose at bend radius less than the required min. bend radius. Provide sufficient length for a wide radius curve. To too tight a bend pinches the hose and restricts the flow.



Where the radius falls below the required min. bend radius, an angle adapter must be used as shown to avoid sharp bends in hose.



Hose must be bent in the same plane as the motion of the boss to which the hose is connected.



Obtain direct routing of hose through use of 45° and 90° adapters and fittings. Make appearance neater by avoiding excessive hose length.

Engineering data

Inch/Millimeter Conversion Table

Inches		Millimeters	Inches		Millimeters	Inches		Millimeters
Fractions	Decimals	Decimals	Fractions	Decimals	Decimals	Fractions	Decimals	Decimals
1/64	.016	.397	25/64	.391	9.922	49/64	.766	19.447
1/32	.031	.794	13/32	.406	10.319	25/32	.781	19.844
3/64	.047	1.191	27/64	.422	10.716	51/64	.797	20.241
1/16	.063	1.588	7/16	.438	11.113	13/16	.813	20.638
5/64	.078	1.984	29/64	.453	11.509	53/64	.828	21.034
3/32	.094	2.381	15/32	.469	11.906	27/32	.844	21.431
7/64	.109	2.778	31/64	.484	12.303	55/64	.859	21.828
1/8	.125	3.175	1/2	.500	12.700	7/8	.875	22.225
9/64	.141	3.572	33/64	.516	13.097	57/64	.891	22.622
5/32	.156	3.969	17/32	.531	13.494	29/32	.906	23.019
11/64	.172	4.366	35/64	.547	13.891	59/64	.922	23.416
3/16	.188	4.763	9/16	.563	14.288	15/16	.938	23.813
13/64	.203	5.159	37/64	.578	14.684	61/64	.953	24.209
7/32	.219	5.556	19/32	.594	15.081	31/32	.969	24.606
15/64	.234	5.953	39/64	.609	15.478	63/64	.984	25.003
1/4	.250	6.350	5/8	.625	15.875	1	1.000	25.400
17/64	.266	6.747	41/64	.641	16.272			
9/32	.281	7.144	21/32	.656	16.669			
19/64	.297	7.541	43/64	.672	17.066			
5/16	.313	7.938	11/16	.688	17.463			
21/64	.328	8.334	45/64	.703	17.859			
11/32	.344	8.731	23/32	.719	18.256			
23/64	.359	9.128	47/64	.734	18.653			
3/8	.375	9.525	3/4	.750	19.050			

Pounds per Square Inch into Megapascal

PSI	0	1	2	3	4	5	6	7	8	9
	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
0	–	.007	.014	.021	.028	.035	.041	.048	.055	.067
10	.069	.076	.083	.090	.097	.103	.110	.117	.124	.131
20	.138	.145	.152	.159	.165	.172	.179	.186	.193	.200
30	.207	.214	.221	.228	.235	.241	.248	.255	.262	.269
40	.276	.283	.290	.297	.303	.310	.317	.324	.331	.338
50	.345	.352	.359	.366	.372	.379	.386	393	.400	.407
60	.414	.421	.428	.435	.441	.448	.455	.462	.469	.476
70	.483	.490	.497	.503	.510	.517	.524	.531	.538	.545
80	552	.559	.566	.572	.579	.586	.593	.600	.607	.614
90	.621	.628	.635	.641	.648	.655	.662	669	.676	.683
100	.690	.697	.703	.710	.717	.724	.731	.738	.745	.752

Note : Columns headed 0 thru 9 in above table represent increments of figures listed in first column at left. For example: In converting from PSI to MPa. 18 PSI = .124 MPa.

Pounds per Square Inch into Bar

PSI	0	1	2	3	4	5	6	7	8	9
	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar
0	–	.069	.138	.207	.276	.345	.414	.483	.552	.671
10	.689	.759	.828	.897	.966	1.034	1.103	1.172	1.241	1.310
20	1.379	1.448	1.517	1.586	1.652	1.724	1.793	1.862	1.931	2.000
30	2.069	2.138	2.207	2.276	2.345	2.414	2.483	2.552	2.621	2.689
40	2.759	2.828	2.897	2.966	3.034	3.103	3.172	3.241	3.310	3.379
50	3.448	3.517	3.586	3.655	3.724	3.793	3.862	3.931	4.000	4.069
60	4.138	4.207	4.276	4.345	4.414	4.483	4.552	4.621	4.689	4.759
70	4.828	4.897	4.966	5.034	5.103	5.172	5.241	5.310	5.379	5.448
80	5.517	5.586	5.655	5.724	5.793	5.862	5.931	6.000	6.069	6.138
90	6.207	6.276	6.345	6.414	6.483	6.552	6.621	6.689	6.759	6.828
100	6.897	6.966	7.034	7.103	7.172	7.241	7.310	7.379	7.448	7.517

Note : Columns headed 0 thru 9 in above table represent increments of figures listed in first column at left. For example: In converting from PSI to Bar 18 PSI = 1.241 Bar.

Flexible Hoses & Hydraulic fittings

Our Hobbies are Quality, Performance and Silence.

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