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- Hose assembly
- Welded flange
- Transition joint

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HYDRAULIC TECH

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LEADING SUPPLIER OF HYDRAULIC PRODUCTS

Weifang Fortoone Hydraulic Technology Co., Ltd.

Weifang Fortoone Hydraulic Technology Co., Ltd. specializes in the design, manufacture, and sales of hydraulic pipe fittings, hose assemblies, and steel tube assembly products, providing customers with hydraulic technology solutions based on extraordinary scientific research strength and high execution efficiency.

The company occupies a land area of 78 mu, with the phase I construction area of 20,000 m², assets of 90 million yuan, the annual production capacity of 30 million pipe fittings, 2 million hose assemblies, and 1.5 million hard tube assemblies.

Upholding the core values of "Exceed customer needs and enhance customer value", the company has built a product system that meets the requirements of low-, medium-, high-, and ultrahigh-pressure hydraulic systems through a complete component production chain. It has also established strategic partnerships with many domestic and foreign machinery manufacturers and become one of the most powerful hydraulic equipment integrated suppliers in China.



Hose assembly



Steel tube assembly



Forging



Machining



Surface treatment

CATALOG

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Overview of hydraulic hose

Overview of hydraulic hose

1. Product structure:

Steel wire braided hose is composed of liquid resistant synthetic rubber inner rubber layer, middle rubber layer, I or II or III layer steel wire braided reinforcing layer, and synthetic rubber outer rubber layer with excellent weather resistance.

2. Product applications:

Steel wire reinforced hydraulic rubber hoses are mainly used to transport petroleum-based (such as mineral oil, soluble oil, hydraulic oil, and fuel oil), water-based liquid (such as emulsion, oil-water emulsion, water), gas and liquid with a certain pressure and temperature in mechanized, automated hydraulic systems such as engineering machinery, ships, mine hydraulic supports, heavy equipment, and lubricating oil).

Note: the steel wire braided rubber hose of the enterprise is designed and manufactured according to GB / t3683-2011 standard, and can be manufactured according to the requirements of ISO / dis1436-1985, din2002, sae100riat and sae100r2at standard rubber hose. This standard is not suitable for castor oil-based and fat based liquids.

3. Working temperature:

Oil-40°C to +100°C, air-30°C to +50°C, water emulsion +80°C or below, please use our special products if out of the above range.

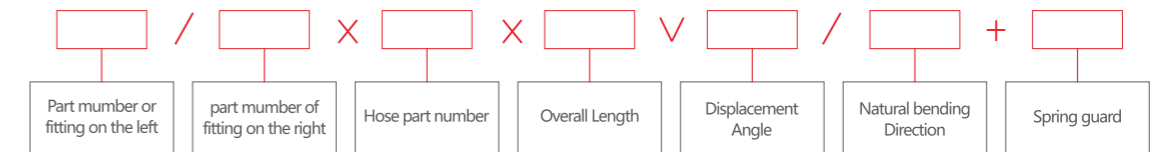
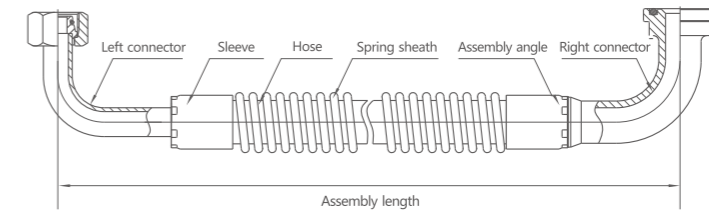
4. Product Features

- The hose is made of special synthetic rubber, featuring with excellent oil resistance, heat resistance and aging resistance.
- High hose pressure and excellent pulse performance.
- Pipe body is tightly combined, flexible, with small deformation under pressure.
- Hose has excellent resistance to bending and fatigue.
- The steel wire braided hose is long. The fixed length is 20 meters for Φ32 and more, and can reach ten meters or even more than 100 meters for Φ25 and less.

Hose assembly ordering method and length expression method

How to order hose assembly

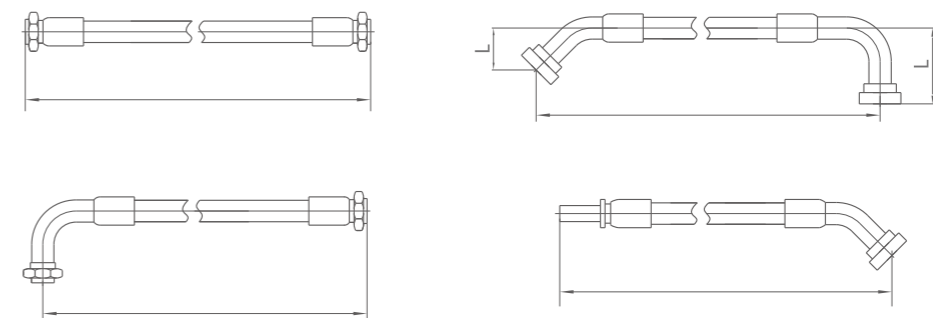
The hose assembly is indicated by the following marks, as shown in the figure below



- ! When the hose assembly has no assembly angle, natural bending direction or outer protective sleeve, these contents can be omitted in the order number.
- When there are two same ends of the hose assembly, only the code of one connector is marked.

Hose assembly length expression method

As shown below



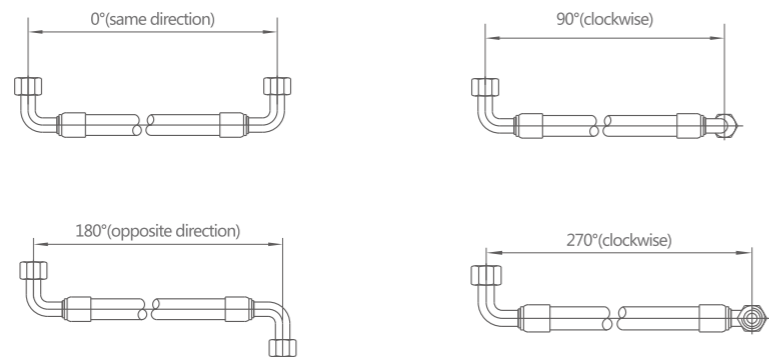
Hose assembly angle expression method and assembly angle measurement

Hose assembly angle expression method

For hose assembly with elbow joints at both ends, the assembly angle is defined as follows:

When the hose assembly is on the same straight line, one end joint is vertically upward, and the other end joint is rotated clockwise and the angle between it and the vertical end joint is measured. This measured angle is

Shown in figure:

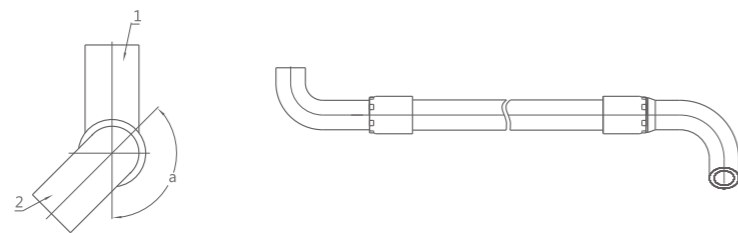


Hose assembly angle measurement

When both end joints of the assembly are bent joints, there is an angular relationship between the two bent joints during assembly. When measuring, straighten the hose assembly and observe at the straight line direction, place the elbow joint 1 in a vertical upward direction, and measure the angle between the elbow 2 and the elbow joint 1 placed vertically to obtain the hose assembly angle represented by α .

Shown in figure

Example: When the assembly angle α is 225° , it is marked as V225



Regulations for the natural bending direction of the hose assembly

Specification on the natural bending direction of hose

Specification on the natural bending direction of hose

As the hoses are bundled in stock, they are difficult to straighten when processing the assembly. When one end joint is a bent joint, there is a relationship between the bent joint and the natural bending direction of the hose. The plane where the hose is naturally placed is used as the horizontal plane.

There are four following cases when one end joint of the hose assembly is a bent joint, and the other end joint is a direct joint:

Illustration	Description	Indicate code
	Single head plane vertically outward	DCW
	Single head plane vertically inward	DCN
	Single head up horizontally	DSS
	Single head down horizontally	DSX

Illustration	Description	Indicate code
	Single head plane vertically inward	DCN
	Single head down horizontally	DSX

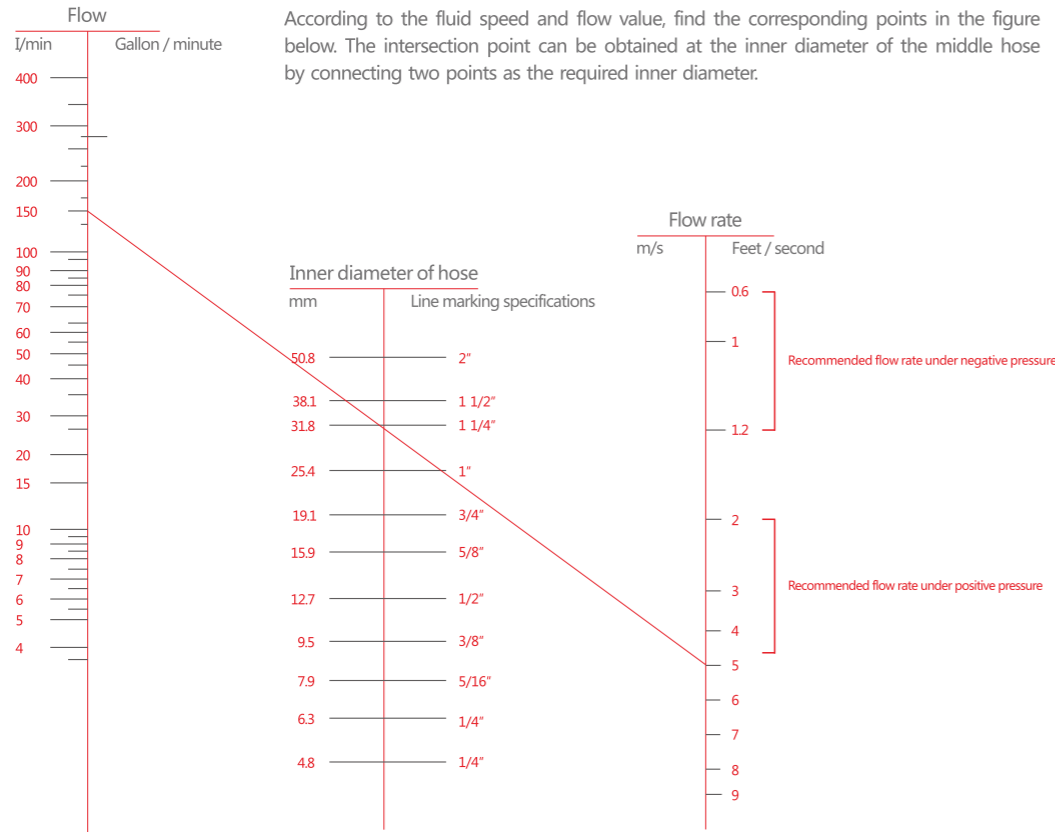
When the two end joints of the hose assembly are bent joints, there are the following twelve cases:

Illustration	Description	Indicate code
	Two heads down horizontally	SSX
	Two heads up horizontally	SSS
	Double-head horizontal anisotropic connector 1 up, connector 2 down	SSY1
	Double-head horizontal anisotropic connector 1 down, connector 2 up	SSY2
	Double-head synthetic plane vertically outward	STCI
	Double-head synthetic plane vertically inward	STC2

Illustration	Description	Indicate code
	Double-head anisotropic plane vertical joint 1 outwards, joint 2 inwards	SYCI
	Double-head anisotropic plane vertical joint 1 outwards, joint 2 inwards	SYC2
	Connector 1 plane vertically inward, connector 2 horizontally up	YNES
	Connector 1 plane vertically outward, connector 2 horizontally up	YWES
	Connector 1 plane vertically inward, connector 2 horizontally down	YNEX
	Connector 1 plane vertically outward, connector 2 horizontally down	YWEX

Hose assembly angle expression method

Hose assembly angle expression method

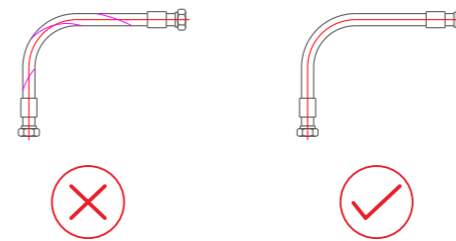


! The hydraulic oil with a maximum viscosity of 65 cSt (at 20°C) under the recommended flow rate condition

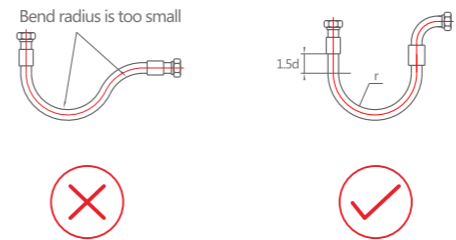
Hose installation guide

Hose installation guide

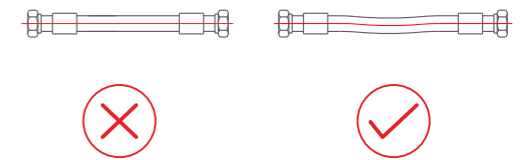
It is important to install the hose correctly. If the hose is too long, the appearance is not only affected but also the cost is increased. If the hose is too short, there is no enough telescopic space for extension or shrinkage under pressure, resulting in damage to the hose. The following figures show matters followed when installing hose. The best working effect can be achieved and the hose life is extended according to the installation method shown in figure.



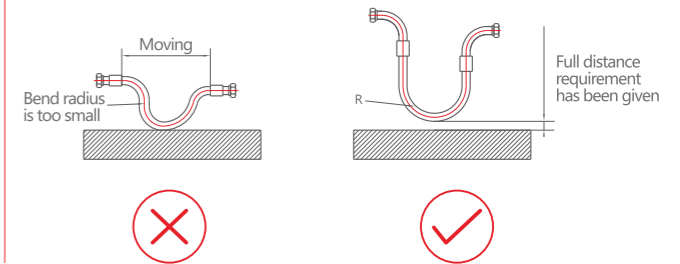
- If the hose assembly is installed with a radius smaller than the specified minimum bending radius, the product life will be significantly reduced. It is recommended to use a suitable joint to avoid too small a bending radius. Do not bend at place distancing less than 1.5 times radius from the sleeve.



- When installing the hose assembly straight, a certain extra length should be reserved to prevent the hose assembly from shortening under pressure, resulting in damage.



- When the hose assembly is installed in a moving position, a sufficient free length shall be reserved. Avoid rubbing with other objects, keep a certain gap or add an outer protective sleeve.



Technical description on hose

Technical description on hose

Hose size

The inner diameter of the hose must be appropriate. Too small pipe diameter will increase the flow rate of the medium in the pipeline, which will cause the system to heat up and reduce efficiency, and will produce an excessive pressure drop, affecting the performance of the entire system. If the hose is fixed with a clamp or the hose passes through spacers such as steel plate, consider the outer diameter of the hose.

Working pressure

The dynamic working pressure of the hose in the data refers to the maximum pressure allowed during continuous operation of the hose. In accordance with the safety coefficient of hydraulic hoses specified in relevant international standards, our recommended working pressure is usually one-fourth of the minimum burst pressure of the hose.

Impact pressure and fatigue life

The selection of the hose is based on the highest design pressure value of the hydraulic system. As the pressure value of the hydraulic system is usually dynamic, sometimes there is an impact pressure, and the peak value of the impact pressure will be much higher than the maximum pressure value of the system. However, there are generally relief valves on the system, so the impact pressure will not seriously affect the fatigue life of the hose. For pressure systems with particularly frequent impact pressures applied, it is recommended to use hose products that are particularly resistant to pulse impact.

Temperature range

The user should use the hose within the temperature allowed by the hose quality specification. If the working environment temperature is out of this range, it will affect the life of the hose and its pressure bearing capacity will be greatly reduced. For systems where the working ambient temperature is too high or too low for a long period of time, a hose sheath is recommended.

Chemical compatibility

If special hydraulic medium is used, the user should ensure that the inner and outer layer of the hose, the connectors and the O-ring of the selected hose assembly are compatible with the medium.

Bending radius

Consider the minimum bending radius of the hose when installing the hose assembly. If the bending radius is too small, the hose bearing capacity should be reduced and its service life is also be affected.

Friction

When the hose is in contact with or rubbed with hard objects in use, it is recommended to add a spring sheath to the outside of the hose. There are many factors that affect the use of the hose assembly. Only when the hose joint is properly selected according to the working conditions, the reliability and economy of the hose can be guaranteed.

Hose fitting product recommended mounting torque table

SAE J514 37° CONE (JIC)

Dash	Thread	Lb.ft		N.m	
		Min	Max	Min	Max
-4	7/16-20	14	12	15	16
-5	1/2-20	14	15	19	21
-6	9/16-18	18	20	24	28
-8	3/4-16	36	39	49	53
-10	7/8-14	57	63	77	85
-12	1 1/16-12	79	88	107	119
-14	1 3/16-12	94	103	127	140
-16	1 5/16-12	108	113	147	154
-20	1 5/8-12	127	133	172	181
-24	1 7/8-12	158	167	215	226
-32	2 1/2-12	245	258	332	350

Bspp Without O-Ring

Dash	Thread	Lb.ft	N.m
-2	1/8-28	7	10
-4	1/4-19	15	20
-6	3/8-19	26	35
-8	1/2-14	44	60
-10	5/8-14	52	70
-12	3/4-14	85	115
-16	1-11	103	140
-20	1 1/4-11	155	210
-24	1 1/2-11	214	290
-32	2-11	295	400

Technical description on hose

SAE J1453 37°O-Ring Face Seal(ORFS)

Dash	Thread	Lb.ft		N.m	
		Min	Max	Min	Max
-4	9/16-18	10	12	14	16
-6	11/16-16	18	20	24	27
-8	13/16-16	32	35	43	47
-10	1-14	46	50	60	68
-12	1 3/16-12	65	70	90	95
-16	1 7/16-12	95	100	125	135
-20	1 11/16-12	125	140	170	190
-24	2-12	150	165	200	225

SAE Flange J518 Code 61

Dash	Thread	Lb.ft		N.m	
		Min	Max	Min	Max
-8	1/2	15	19	20	25
-12	3/4	21	29	28	40
-16	1	27	35	37	48
-20	1 1/4	35	46	48	62
-24	1 1/2	46	58	62	79
-32	2	54	66	73	90
-40	2 1/2	79	91	107	124
-48	3	137	149	186	203

SAE J518 Code 62

Dash	Thread	Lb.ft		N.m	
		Min	Max	Min	Max
-8	1/2	15	19	20	25
-12	3/4	21	29	28	40
-16	1	27	35	37	48
-20	1 1/4	35	46	48	62
-24	1 1/2	46	58	62	79
-32	2	54	66	73	90

Bspp Without O-Ring

Dash	Thread	Lb.ft	N.m
-2	1/8-28	N/A	N/A
-4	1/4-19	15	20
-6	3/8-19	26	35
-8	1/2-14	37	50
-10	5/8-14	44	60
-12	3/4-14	63	85
-16	1-11	85	115
-20	1 1/4-11	140	190
-24	1 1/2-11	177	240
-32	2-11	221	300

JIS(B8363)

Dash	Thread	Lb.ft	N.m
-4	1/4-19	19	25
-6	3/8-19	25	34
-8	1/2-14	49	64
-10	5/8-14	100	132
-12	3/4-14	100	132
-16	1-11	149	196
-20	1 1/4-11	171	225
-24	1 1/2-11	194	255
-32	2-11	240	316

Metric

Thread	Lb.ft		N.m	
	Min	Max	Min	Max
M12X1.5	8	11	15	20
M14X1.5	13	18	25	30
M16X1.5	19	26	35	40
M18X1.5	22	30	40	45
M20X1.5	24	33	45	50
M22X1.5	32	44	60	70
M24X1.5	41	55	75	85
M26X1.5	46	63	85	95
M30X2	57	77	105	120
M36X2	74	100	135	150
M42X2	111	151	205	230
M45X2	136	184	250	280
M52X2	147	199	270	300













Technical description on hose

Hose and joint core, sleeve table

Hose abbreviation	5	6	8	10	13	16	19	25	31	38	51	60	63	76
1SN	Through diameter 1, D Grade DASH Matching sleeve Matching connector core	03400-03 03400-04	03400-05 03400-04	03400-06 03400-05	03400-08 03400-06	03400-10 03400-08	03400-12 03400-10	03400-16 03400-16	03400-20 03400-20	03400-24 03400-24	03400-32 03400-32	03400-38 03400-38	03400-40	03400-48
2SN	Matching sleeve Matching connector core	03400-03	03400-04	03400-05	03400-06	03400-08	03400-10	03400-12	03400-16	03400-20	03400-24	03400-32	03400-38	
2TE	Matching sleeve Matching connector core	00830-04	00830-05	00830-06	00830-08	00830-10	00830-12	00830-16	00830-20					
3TE	Matching sleeve Matching connector core	00310-04	00310-05	00310-06	00310-08	00310-10	00310-12	00310-16	00310-20	00310-24	00310-32			
4SP	Matching sleeve Matching connector core	00910-04	00910-06	00910-06	00910-08	00910-10	00920-12	00920-16						
4SH	Matching sleeve Matching connector core						01300-12	01300-16	01400-20	01400-24	01400-32			
1SC	Matching sleeve Matching connector core	00830-04	00830-05	00830-06	00820-08	00830-10	00830-12	00830-16	00830-20	00820-24	00820-32		03400-40	03400-48
2SC	Matching sleeve Matching connector core	03400-04	03400-05	03400-06	03400-08	03400-10	03400-12	03400-16	03400-20	03400-24	03400-32		03400-40	03400-48
R3	Matching sleeve Matching connector core	00830-04	00830-05	00830-06	00820-08	00830-10	00830-12	00830-16	00830-20	00910-24	00910-32			
R4	Matching sleeve Matching connector core					00310-10	00310-12	00920-16	00920-20	00910-24	00910-32		03400-40	03400-48
R5	Matching sleeve Matching connector core													
R6	Matching sleeve Matching connector core	00820-03	00830-04	00830-05	00830-06	00830-08	00830-10	00830-12	00830-16					
R7	Matching sleeve Matching connector core	00820-02	00830-04	00830-05	00830-06	00820-08								
R12	Matching sleeve Matching connector core			00910-06	00910-08	00910-10	00920-12	00920-16	00920-20	00910-24	00910-32			
R13	Matching sleeve Matching connector core					01300-12	01300-16	01300-20	01300-24	01300-32				
R15	Matching sleeve Matching connector core					01300-12	01300-16	01300-20	01300-24					

Hydraulic hose

12/19

EN 853 1SN  P/12	EN 853 2SN  P/12	EN 854 2TE  P/13	EN 854 3TE  P/13	EN 856 4SP  P/14	EN 856 4SH  P/14
EN 857 1SC  P/15	EN 857 2SC  P/15	SAE 100 R3  P/16	SAE 100 R4  P/16	SAE 100 R5  P/17	SAE 100 R6  P/17
SAE 100 R7  P/18	SAE 100 R12  P/18	SAE 100 R13  P/19	SAE 100 R15  P/19		

Hose One-layer steel wire braided pipe 1SN



Design standard: EN 853 1SN / SAE 100 R1AT / ISO 1436 1SN
 Application: Medium and low pressure pipe, oil return pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum working temperature: +121°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: One-Layer high tensile steel wire braid
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
5	-03	3/16"	9.5	0.37	11.5	0.45	250	3620	1000	14500	89	3.50	1SN 03
6	-04	1/4"	11.2	0.44	13.2	0.52	225	3260	900	13050	100	3.94	1SN 04
8	-05	5/16"	12.8	0.50	14.8	0.58	215	3110	850	12320	114	4.49	1SN 05
10	-06	3/8"	15.1	0.59	17.1	0.67	180	2610	720	10440	127	5.00	1SN 06
12	-08	1/2"	18.1	0.71	20.1	0.79	160	2320	640	9280	178	7.01	1SN 08
16	-10	5/8"	21.3	0.84	23.3	0.92	130	1880	520	7540	200	7.87	1SN 10
19	-12	3/4"	25.3	1.00	27.3	1.07	105	1520	420	6090	240	9.45	1SN 12
25	-16	1"	33.1	1.30	35.1	1.38	88	1270	350	6070	300	11.81	1SN 16
31	-20	1 1/4"	40.6	1.60	43.3	1.70	63	910	250	3620	419	16.50	1SN 20
38	-24	1 1/2"	47.0	1.85	49.7	1.96	50	720	200	2900	500	19.69	1SN 24
51	-32	2"	60.4	2.38	63.1	2.48	40	580	160	2320	630	24.80	1SN 32
60	-40	2 3/8"	68.8	2.71	71.5	2.81	50	720	200	2900	650	25.59	1SN 40

Hose Two-layer steel wire braided pipe 2SN



Design standard: EN 853 2SN / SAE 100 R2AT / ISO 1436 2SN
 Application: Medium pressure pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum operating temperature: +121°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 2-Layer high tensile steel wire braid
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
5	-03	3/16"	11.3	0.44	13.3	0.52	415	6010	1650	23920	89	3.50	2SN 03
6	-04	1/4"	12.7	0.50	14.7	0.58	400	5800	1600	23200	100	3.94	2SN 04
8	-05	5/16"	14.3	0.56	16.3	0.64	350	5070	1400	20300	114	4.49	2SN 05
10	-06	3/8"	16.7	0.66	18.7	0.74	330	4780	1320	19140	127	5.00	2SN 06
12	-08	1/2"	19.8	0.78	21.8	0.86	275	3980	1100	15940	178	7.01	2SN 08
16	-10	5/8"	23.0	0.91	25.0	0.98	250	3620	1000	14500	200	7.87	2SN 10
19	-12	3/4"	27.0	1.06	29.0	1.14	215	3110	860	12470	240	9.45	2SN 12
25	-16	1"	34.8	1.37	36.8	1.45	165	2390	660	9570	300	11.81	2SN 16
31	-20	1 1/4"	44.3	1.74	47.0	1.85	125	1810	500	7250	419	16.50	2SN 20
38	-24	1 1/2"	50.7	2.00	53.4	2.10	90	1300	360	5220	500	19.69	2SN 24
51	-32	2"	63.5	2.50	66.2	2.61	80	1160	320	4640	630	24.80	2SN 32
60	-40	2 3/8"	68.8	2.71	71.5	2.81	90	1300	360	5220	650	25.59	2SN 40

Hose One-layer fiber braided pipe 2TE



Design standard: EN 854 2TE / ISO 4079 2TE
 Application: Low pressure pipe, oil return pipe
 Continuous working temperature range: -40°C/+125°C
 Maximum working temperature: +125°C (continuous operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oils, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 1-Layer of high tensile fiber weave
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
6	-04	1/4"	—	—	13.0	0.51	75	1080	300	4350	40	1.57	2TE 04
8	-05	5/16"	—	—	14.6	0.57	68	980	272	3940	50	1.97	2TE 05
10	-06	3/8"	—	—	16.1	0.63	63	910	252	3650	60	2.36	2TE 06
12	-08	1/2"	—	—	19.2	0.76	58	840	232	3360	70	2.76	2TE 08
16	-10	5/8"	—	—	23.6	0.93	50	720	200	2900	90	3.54	2TE 10
19	-12	3/4"	—	—	26.5	1.04	45	650	180	2610	110	4.33	2TE 12
25	-16	1"	—	—	33.4	1.31	40	580	160	2320	130	5.12	2TE 16
31	-20	1 1/4"	—	—	41.5	1.63	35	500	140	2030	140	5.51	2TE 20

Hose 2-layer steel wire braided pipe 3TE



Design standard: EN 854 3TE / ISO 4079 3TE
 Application: Medium and low pressure pipe, oil return pipe
 Continuous working temperature range: -40°C/+125°C
 Maximum working temperature: +125°C (continuous operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 2-Layer high tensile fiber braid
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
6	-04	1/4"	—	—	14.2	0.56	145	2100	580	8410	45	1.77	3TE 04
8	-05	5/16"	—	—	16.6	0.65	130	1880	520	7540	55	2.17	3TE 05
10	-06	3/8"	—	—	18.2	0.72	110	1590	440	6380	70	2.76	3TE 06
12	-08	1/2"	—	—	21.5	0.85	93	1340	372	5390	85	3.35	3TE 08
16	-10	5/8"	—	—	25.6	1.01	80	1160	320	4640	105	4.13	3TE 10
19	-12	3/4"	—	—	28.8	1.13	70	1010	280	4060	130	5.12	3TE 12
25	-16	1"	—	—	35.4	1.39	55	790	220	3190	150	5.91	3TE 16
31	-20	1 1/4"	—	—	42.5	1.67	45	650	180	2610	190	7.48	3TE 20
38	-24	1 1/2"	—	—	49.4	1.94	40	580	160	2320	240	9.45	3TE 24
51	-32	2"	—	—	62.2	2.45	33	470	132	1910	300	11.81	3TE 32

Hose Four-layer steel wire winding pipe 4SP



Design standard: EN 856 4SP / ISO 3862 4SP
 Application: Ultra high pressure pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum operating temperature: +125°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 4-Layer high tensile steel wire winding
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
6	-04	1/4"	14.7	0.58	17.6	0.69	485	7030	1000	14500	55	2.17	4SP 04
10	-06	3/8"	17.6	0.69	21.1	0.83	450	6520	660	9750	70	2.76	4SP 06
12	-08	1/2"	20.3	0.80	24.3	0.96	420	6090	620	8990	90	3.54	4SP 08
16	-10	5/8"	23.7	0.93	27.9	1.10	380	5510	480	6960	100	3.94	4SP 10
19	-12	3/4"	28.2	1.11	31.9	1.26	380	5510	400	5800	160	6.30	4SP 12
25	-16	1"	35.0	1.38	39.0	1.54	320	4640	400	5800	210	8.27	4SP 16

Hose Four-layer steel wire winding pipe 4SH



Design standard: EN 856 4SH / ISO 3862 4SH
 Application: Ultra high pressure pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum operating temperature: +125°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 4-Layer high tensile steel wire winding
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
19	-12	3/4"	28.2	1.11	31.9	1.26	420	6090	1750	25380	210	8.27	4SH 12
25	-16	1"	35.1	1.38	38.1	1.50	385	5580	1750	25380	220	8.66	4SH 16
31	-20	1 1/4"	42.2	1.66	45.0	1.77	350	5070	1400	20300	420	16.54	4SH 20
38	-24	1 1/2"	49.1	1.93	53.1	2.09	300	4350	1250	18120	560	22.05	4SH 24
51	-32	2"	63.5	2.50	67.5	2.66	250	3620	1000	14500	700	27.56	4SH 32

Hose 2-layer steel wire braided pipe 1SC



Design standard: EN 857 1SC/ISO 11237 1SC
 Application: Installation space is small, medium and low pressure pipe, oil return pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum operating temperature: +121°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 1-Layer high tensile steel wire braid
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
5	-03	3/16"	10.2	0.40	12.0	0.47	225	3260	1050	15220	50	1.97	1SC 03
6	-04	1/4"	11.5	0.45	13.6	0.54	215	3110	1000	14500	55	2.17	1SC 04
8	-05	5/16"	13.6	0.54	15.5	0.61	180	2610	850	12320	60	2.36	1SC 05
10	-06	3/8"	17.1	0.67	18.9	0.74	160	2320	660	9750	70	2.76	1SC 06
12	-08	1/2"	20.6	0.81	22.4	0.88	130	1880	620	8990	90	3.54	1SC 08
16	-10	5/8"	23.9	0.94	25.9	1.02	105	1520	480	6960	100	3.94	1SC 10
19	-12	3/4"	31.3	1.23	33.3	1.31	88	1270	400	5800	160	6.30	1SC 12
25	-16	1"	38.4	1.51	40.9	1.61	63	910	400	5800	210	8.27	1SC 16
31	-20	1 1/4"	45.0	1.77	47.5	1.87	50	720	200	2900	300	11.81	1SC 20
38	-24	1 1/2"	58.0	2.28	60.5	2.38	40	580	160	2320	400	15.75	1SC 24
51	-32	2"	70.5	2.78	73.0	2.87	50	720	200	2900	760	29.92	1SC 32
60	-40	2 3/8"	85.0	3.35	87.7	3.45	35	500	140	2030	900	35.43	1SC 40

Hose 2-layer steel wire braided pipe 2SC



Design standard: EN 857 2SC/ISO 11237 2SC
 Application: Installation space is narrow, medium and low pressure pipe, oil return pipe and suction pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum operating temperature: +121°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 2-Layer high tensile steel wire braid
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
5	-03	3/16"	11.3	0.44	13.1	0.52	1850	5800	1050	26830	45	1.77	1SC 03
6	-04	1/4"	12.9	0.51	14.7	0.58	1700	2070	1000	24650	55	2.17	1SC 04
8	-05	5/16"	15.0	0.59	16.8	0.66	1500	4780	850	21750	65	2.56	1SC 05
10	-06	3/8"	18.5	0.73	20.3	0.80	1220	3980	660	17690	80	3.15	1SC 06
12	-08	1/2"	21.8	0.86	23.6	0.93	1050	3620	620	15220	90	3.54	1SC 08
16	-10	5/8"	25.6	1.01	27.6	1.09	920	3110	480	13310	120	4.72	1SC 10
19	-12	3/4"	33.0	1.30	35.2	1.39	720	2390	400	10440	160	6.30	1SC 12
25	-16	1"	41.1	1.62	43.6	1.72	560	1810	400	8120	250	9.84	1SC 16
31	-20	1 1/4"	47.7	1.88	50.7	2.00	400	1450	200	5800	300	11.81	1SC 20
38	-24	1 1/2"	60.4	2.38	63.4	2.50	360	1300	160	5220	400	15.75	1SC 24
51	-32	2"	73.0	2.87	76.0	2.99	300	1010	200	4350	760	29.92	1SC 32
60	-40	2 3/8"	87.7	3.46	90.5	3.56	180	650	140	2610	900	35.43	1SC 40

Hose Two-layer fiber braided pipe R3



Design standard: SAE 100 R3 / EN 853 R3
 Application: Medium pressure hydraulic pipe
 Continuous working temperature range: -40°C/+100°C
 Maximum working temperature: +100°C (continuous operation)
 Recommended fluids: Hydraulic oil, antifreeze, air (max. temperature: 70°) and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 2-Layer high tensile fiber braided
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
6	-04	1/4"	—	—	14.3	0.56	8.6	1250	35	5000	76	3	R3 04
8	-05	5/16"	—	—	17.5	0.69	8.3	1200	33	4800	102	4.1	R3 05
10	-06	3/8"	—	—	19.1	0.75	7.8	1125	31	4500	102	4.1	R3 06
12	-08	1/2"	—	—	23.8	0.94	7.0	1000	28	4000	127	5.1	R3 08
16	-10	5/8"	—	—	27	1.06	6.0	875	24	3500	140	5.6	R3 10
19	-12	3/4"	—	—	31.8	1.25	5.2	750	21	3000	152	6.1	R3 12
25	-16	1"	—	—	38.1	1.50	3.9	565	16	2260	203	8.1	R3 16
31	-20	1 1/4"	—	—	45.0	1.77	2.6	377	10	1508	254	10.2	R3 20

Hose Two-layer fiber spiral steel pipe R4



Design standard: SAE 100 R4
 Application: Oil suction pipe, oil return pipe
 Continuous working temperature range: -40°C/+100°C
 Max working temperature: —
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: 2-Layer fiber reinforced spiral steel wire
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
16	-10	5/8"	—	—	26.0	1.02	21	300	64	920	96	3.78	R4 10
19	-12	3/4"	—	—	29.0	1.114	21	300	84	1210	125	4.92	R4 12
25	-16	1"	—	—	35.0	1.38	17	240	70	1010	150	5.91	R4 16
31	-20	1 1/4"	—	—	42.0	1.65	14	200	56	810	200	7.87	R4 20
38	-24	1 1/2"	—	—	48.5	1.91	10	140	42	600	254	10.00	R4 24
51	-32	2"	—	—	61.5	2.42	7	100	28	400	300	11.81	R4 32
63	-40	2 3/8"	—	—	76.0	2.99	4	50	17	240	355	13.98	R4 40
76	-48	3"	—	—	88.0	3.46	4	50	16	230	457	17.99	R4 48
89	-56	3 1/2"	—	—	103.0	4.06	3	40	12	170	530	20.87	R4 56
102	-64	4"	—	—	115.0	4.53	2	20	10	140	610	24.02	R4 64

Hose One-layer steel wire braided pipe R5



Design standard: SAE 100 R5
 Application: Medium and low pressure hydraulic pipeline
 Continuous working temperature range: -40°C/+100°C
 Maximum operating temperature: +121°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oils, and water; diesel
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: One-Layer high tensile steel wire braided
 Outer rubber layer: One-Layer fiber braided

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
5	-04	3/16"	—	—	13.2	0.52	210	3040	840	12180	75	2.95	R5 03
6	-05	1/4"	—	—	14.8	0.58	210	3040	840	12180	85	3.35	R5 05
8	-06	5/16"	—	—	17.1	0.67	157	2270	630	9130	100	3.94	R5 06
10	-08	13/32"	—	—	19.4	0.76	140	2030	560	8120	115	4.53	R5 08
12	-10	1/2"	—	—	23.3	0.92	122	1760	490	7100	140	5.51	R5 10
16	-12	5/8"	—	—	27.3	1.07	105	1520	420	6090	165	6.50	R5 12
22	-16	7/8"	—	—	31.2	1.23	56	810	224	3240	185	7.28	R5 16
28	-20	1 1/8"	—	—	38.0	1.50	43	620	175	2530	229	9.02	R5 20
35	-24	1 3/8"	—	—	44.3	1.74	35	500	140	2030	265	10.43	R5 24
46	-32	1 13/16"	—	—	56.1	2.21	24	340	98	1420	335	13.19	R5 32

Hose One-layer fiber braided pipe R6



Design standard: SAE 100 R6 / EN 854 R6
 Application: Low pressure pipe, oil return pipe, and oil drain pipe
 Continuous working temperature range: -40°C/+125°C
 Maximum working temperature: +125°C (continuous operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: One-Layer high tensile fiber braided
 Outer rubber layer: Weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	
5	-03	3/16"	—	—	11.0	0.43	35	500	140	2030	35	1.38	R6 03
6	-04	1/4"	—	—	12.6	0.50	30	430	120	1740	45	1.77	R6 04
8	-05	5/16"	—	—	14.1	0.56	30	430	120	1740	65	2.56	R6 05
10	-06	3/8"	—	—	15.8	0.62	30	430	120	1740	75	2.95	R6 06
12	-08	1/2"	—	—	19.4	0.76	30	430	120	1740	90	3.54	R6 08
16	-10	5/8"	—	—	23.0	0.91	30	430	120	1740	115	4.53	R6 10
19	-12	3/4"	—	—	26.0	1.02	30	430	120	1740	140	5.51	R6 12
25	-16	1"	—	—	32.0	1.26	30	430	120	1740	150	5.91	R6 16

Hose Two-layer polyester fiber braided pipe R7



Design standard: SAE 100 R7 / EN 855 R7
 Application: Medium pressure hydraulic pipe, crane, hydraulic transmission
 Continuous working temperature range: -40°C/+100°C
 Max working temperature: —
 Recommended fluids: Mineral oil, bio-oil, ASTM1, ASTM3, polyethylene glycol-based oil, emulsified oil, and water
 Inner rubber layer: Oil-Resistant elastic resin
 Reinforcement layer: Two-Layer polyester fiber braided
 Outer rubber layer: Ozone-Resistant and wear-Resistant elastic resin

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
5	-03	3/16"	—	—	10.2	0.40	210	3040	840	12180	35	1.38	R7 03
6	-04	1/4"	—	—	12.0	0.47	192	2780	770	11160	50	1.97	R7 04
8	-05	5/16"	—	—	14.3	0.56	187	2710	750	10870	55	2.17	R7 05
10	-06	3/8"	—	—	16.3	0.64	175	2530	700	10150	75	2.95	R7 06
12	-08	1/2"	—	—	20.3	0.80	140	2030	560	8120	95	3.74	R7 08

Hose Four-layer steel wire winding pipe R12



Design standard: SAE 100 R12 / EN 856 R12
 Application: Ultra-high pressure pipelines, suitable for marine, underground and open-air environments
 Continuous working temperature range: -40°C/+121°C
 Maximum operating temperature: +125°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oil, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: Four-Layer high tensile steel wire winding
 Outer rubber layer: Ozone-Resistant, heat-Resistant and weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
10	-06	3/8"	17.3	0.68	20.0	0.79	280	4060	1600	23200	100	3.94	R12 06
12	-08	1/2"	20.4	0.80	23.5	0.93	280	4060	1350	19580	125	4.92	R12 08
16	-10	5/8"	24.4	0.96	27.1	1.07	280	4060	1300	18850	140	5.51	R12 10
19	-12	3/4"	27.4	1.08	30.4	1.20	280	4060	1300	18850	150	5.91	R12 12
25	-16	1"	35.0	1.38	37.6	1.48	280	4060	1150	16670	225	8.86	R12 16
31	-20	1 1/4"	43.1	1.70	45.9	1.81	210	3040	1000	14500	250	9.84	R12 20
38	-24	1 1/2"	50.0	1.97	53.3	2.10	175	2530	1000	14500	500	19.69	R12 24
51	-32	2"	63.6	2.50	66.7	2.63	175	2530	800	11600	630	24.80	R12 32

Hose Four-layer steel wire winding pipe R13



Design standard: SAE 100 R13 / EN 856 R13
 Application: Heavy-Huty pipeline, hydraulic transmission in harsh environment
 Continuous working temperature range: -40°C/+121°C
 Maximum operating temperature: +125°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycols and polyethylene glycols - Base oils, synthetic ester base oils, emulsified oils, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: Four-Layer high tensile steel wire winding (DN6-25), 6-layer high tensile steel wire winding (DN31-51)
 Outer rubber layer: Ozone-Resistant, heat-Resistant and weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	Inch	mm	Inch	mm	Inch	bar	psi	bar	psi	mm	Inch	
6	-04	1/4"	14.6	0.57	17.6	0.69	690	10000	3250	47130	120	4.72	R13 04
10	-06	3/8"	17.4	0.69	20.4	0.80	690	10000	2900	42060	150	5.91	R13 06
12	-08	1/2"	21.5	0.85	24.5	0.96	620	8990	2500	36250	200	7.87	R13 08
19	-12	3/4"	29.0	1.14	31.8	1.25	350	5070	1950	28280	240	9.45	R13 12
25	-16	1"	36.0	1.42	39.2	1.54	350	5070	1650	23930	300	11.81	R13 16
31	-20	1 1/4"	47.0	1.85	50.0	1.97	350	5070	1500	21750	420	16.54	R13 20
38	-24	1 1/2"	54.6	2.15	57.5	2.26	350	5070	1600	23200	500	19.69	R13 24
51	-32	2"	68.4	2.69	72.0	2.83	350	5070	1500	21750	630	24.80	R13 32

Hose Four-layer steel wire winding pipe R15



Design standard: SAE 100 R15 / EN 856 R15
 Application: Heavy-Duty pipelines, hydraulic transmission under severe environmental conditions
 Continuous working temperature range: -40°C/+121°C
 Maximum operating temperature: +125°C (intermittent operation)
 Recommended fluids:
 Mineral oil, vegetable oil, rapeseed oil, glycol and polyethylene glycol base oil, synthetic ester base oil, emulsified oils, and water
 Inner rubber layer: Oil resistant synthetic rubber
 Reinforcement layer: Four-Layer high tensile steel wire winding (DN6-25), 6-layer high tensile steel wire winding (DN31-51)
 Outer rubber layer: Ozone-Resistant, heat-Resistant and weather-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	
19	-12	3/4"	28.2	1.11	31.0	1.22	420	6090	1750	25380	265	10.43	R15 12
25	-16	1"	35.1	1.38	38.1	1.50	420	6090	1750	25380	267	10.51	R15 16
31	-20	1 1/4"	46.3	1.82	49.5	1.95	420	6090	1750	25380	267	10.51	R15 20
38	-24	1 1/2"	54.6	2.15	57.5	2.26	420	6090	1750	25380	315	12.40	R15 24

Rubber Four-layer steel wire winding pipe R17

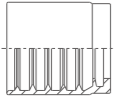
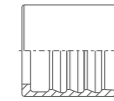
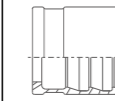
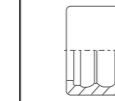
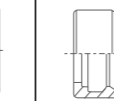
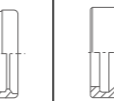
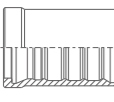
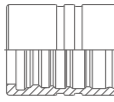
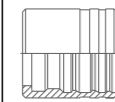


Design standard: ISO 18752 Class A, SAE J517 type 100 R17
 Application:
 Medium and high pressure pipes, leading pipes, oil return pipes, oil drain pipes and oil suction pipes installed in small space
 Continuous working temperature range: -40°C/+100°C
 Recommended fluids: Mineral oil, vegetable oil, synthetic ester base oil, glycol and polyethylene glycol, emulsified oils, and water
 Inner rubber layer: Synthetic rubber
 Reinforcement layer: One-Layer steel wire braided (DN6-12) and two-Layer steel wire braided (DN 16-25)
 Outer rubber layer: High pressure wear-Resistant synthetic rubber

Through diameter			Outer diameter of steel wire layer		Outer diameter		Maximum working pressure		Burst pressure		Minimum bending radius		Order mark
DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	
6	-04	1/4"	10.2	0.40	12.0	0.47	210	3040	840	12180	50	1.97	R17 06
8	-05	5/16"	11.5	0.45	13.6	0.54	210	3040	840	12180	55	2.17	R17 08
10	-06	3/8"	14.4	0.57	16.2	0.64	210	3040	840	12180	65	2.56	R17 10
12	-08	1/2"	17.9	0.70	19.7	0.78	210	3040	840	12180	90	3.54	R17 12
16	-10	5/8"	22.2	0.87	24.0	0.94	210	5000	840	12180	100	3.94	R17 16
19	-12	3/4"	25.6	1.01	27.7	1.09	210	5000	840	12180	120	4.72	R17 19
25	-16	1"	33.0	1.30	35.0	1.39	210	5000	840	12180	150	5.91	R17 25

Sleeve

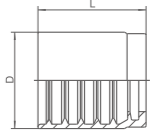
21/24

03400  P/21	00310  P/21	00820/00830  P/22	00110/00120  P/22	00910/00920  P/23	01300  P/23
01400  P/23	01500  P/24	01800  P/24			

Wire braided pipe non-peeling sleeve

Features

Structural type: For braided hose
Structure form: Non-Peeling sleeve
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

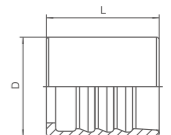


Drawing No	DN	Inch	Size	Size	
				D	L
03400-03	5	3/16"	-03	21.0	23.0
03400-04	6	1/4"	-04	23.0	30.1
03400-05	8	5/16"	-05	24.0	30.0
03400-06	10	3/8"	-06	26.0	31.1
03400-08	12	1/2"	-08	29.0	33.4
03400-10	16	5/8"	-10	33.0	37.0
03400-12	19	3/4"	-12	37.0	42.0
03400-16	25	1"	-16	46.0	51.0
03400-20	31	1.1/4"	-20	59.0	57.2
03400-24	38	1.1/2"	-24	67.0	64.8
03400-32	51	2"	-32	80.0	68.3
03400-38	60	2.3/8"	-38	82.5	69.0
03400-40	63	2.1/2"	-40	88.2	68.8
03400-48	76	3"	-48	103.0	75.0

Cotton braided pipe non-peeling sleeve

Features

Structural type: For cotton braided pipe
Structure form: Non-Peeling sleeve
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

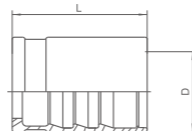


Drawing No	DN	Inch	Size	Size	
				D	L
00310-03	5	3/16"	-03	17.5	27.0
00310-04	6	1/4"	-04	19.3	30.0
00310-05	8	5/16"	-05	21.0	32.0
00310-06	10	3/8"	-06	24.0	32.0
00310-08	12	1/2"	-08	28.4	34.0
00310-10	16	5/8"	-10	33.0	37.0
00310-12	19	3/4"	-12	37.0	43.0
00310-16	25	1"	-16	43.5	51.0
00310-20	31	1.1/4"	-20	50.0	59.0

Compact hose non-peeling sleeve

Features

Structural type: For cotton braided pipe
 Structure form: Non-Peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

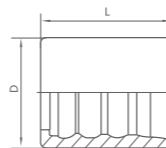


Drawing No	DN	Inch	Size	Size	
				D	L
00820-03	5	3/16"	-03	14.0	26.4
00830-04	6	1/4"	-04	18.0	29.6
00830-05	8	5/16"	-05	19.0	31.9
00820-06	10	3/8"	-06	22.0	33.0
00820-08	12	1/2"	-08	26.0	33.9
00820-10	16	5/8"	-10	29.0	35.9
00820-12	19	3/4"	-12	33.0	41.7
00820-16	25	1"	-16	41.0	49.7
00820-20	31	1.1/4"	-20	48.0	57.0
00820-24	38	1.1/2"	-24	55.5	66.0
00820-32	51	2"	-32	68.6	70.0

Wire braided pipe rubber peeling sleeve

Features

Structural type: For braided hose
 Structure form: Rubber peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

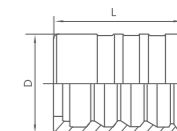


Drawing No	DN	Inch	Size	Size	
				D	L
00120-03	5	3/16"	-03	17.0	23.9
00120-04	6	1/4"	-04	19.5	28.0
00120-05	8	5/16"	-05	20.0	28.6
00120-06	10	3/8"	-06	23.0	30.0
00120-08	12	1/2"	-08	26.7	32.0
00120-10	16	5/8"	-10	32.0	38.0
00120-12	19	3/4"	-12	35.8	41.7
00120-16	25	1"	-16	43.0	47.0
00110-20	31	1.1/4"	-20	50.5	59.0
00110-24	38	1.1/2"	-24	57.0	70.0
00110-32	51	2"	-32	70.0	72.0

Wire braided pipe rubber peeling sleeve

Features

Structural type: For winding hose
 Structure form: Rubber peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

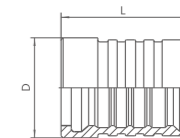


Drawing No	DN	Inch	Size	Size	
				D	L
00910-03	5	3/16"	-03	20.6	26.0
00910-04	6	1/4"	-04	22.0	30.0
00910-05	8	5/16"	-05	24.0	31.0
00910-06	10	3/8"	-06	26.0	33.0
00910-08	12	1/2"	-08	30.0	34.0
00910-10	16	5/8"	-10	33.0	39.0
00920-12	19	3/4"	-12	38.0	40.0
00920-16	25	1"	-16	46.0	54.0
00920-20	31	1.1/4"	-20	57.0	60.0
00920-24	38	1.1/2"	-24	65.0	70.0
00920-32	51	2"	-32	79.0	72.0

Wire braided pipe peeling sleeve

Features

Structural type: For braided hose
 Structure form: Rubber peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc



Drawing No	DN	Inch	Size	Size	
				D	L
01300-10	16	5/8"	-10	36.0	43.0
01300-12	19	3/4"	-12	40.0	53.0
01300-16	25	1"	-16	49.0	66.0
01300-20	31	1.1/4"	-20	60.0	88.5
01300-32	51	2"	-32	82.5	108.0

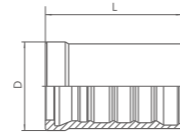
Sleeve

Sleeve

Wire braided pipe peeling sleeve

Features

Structural type: For braided hose
 Structure form: Rubber peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

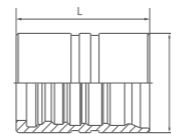


Drawing No	DN	Inch	Size	Size	
				D	L
01400-20	31	1.1/4"	-20	57.0	88.0
01400-24	38	1.1/2"	-24	64.5	102.0
01400-32	51	2"	-32	83.5	108.0

Heavy-duty winding hose (four layers) Dual-sided peeling sleeve

Features

Structure type: Double-Sided peeling sleeve
 Structure form: Peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

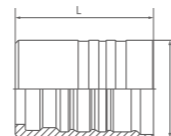


Drawing No	DN	Inch	Size	Size	
				D	L
01500-10	16	5/8"	-10	35.0	40.9
01500-12	19	3/4"	-12	40.0	51.4
01500-16	25	1"	-16	48.0	64.5
01500-20	31	1.1/4"	-20	57.0	84.0
01500-24	38	1.1/2"	-24	64.3	94.0
01500-32	51	2"	-32	83.5	107.0

Heavy-duty winding hose (six layers) Dual-sided peeling sleeve

Features

Structure type: Double-Sided peeling sleeve
 Structure form: Peeling sleeve
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc



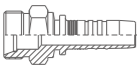
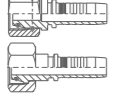
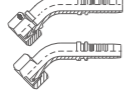
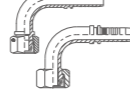

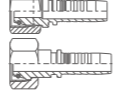
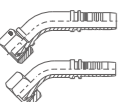
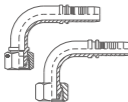

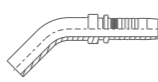
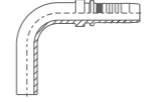

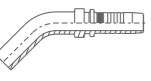
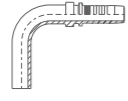
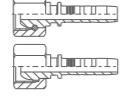
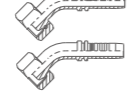
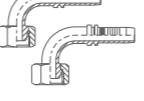
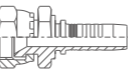
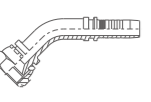
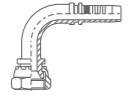
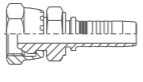
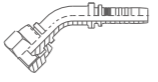
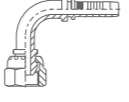
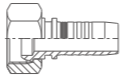
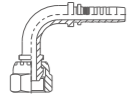

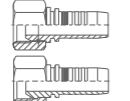
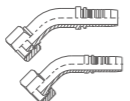
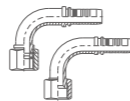
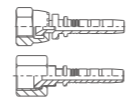
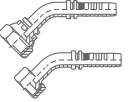
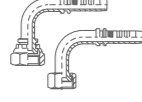

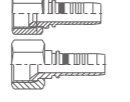
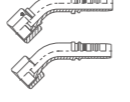
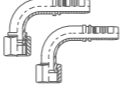

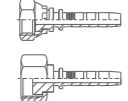
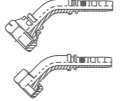
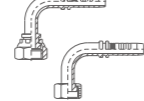


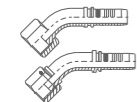
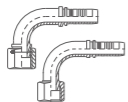
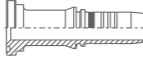



Drawing No	DN	Inch	Size	Size	
				D	L
01800-20	31	1.1/4"	-20	64.5	88.2
01800-32	51	2"	-32	86.5	108.0

Sleeve

Sleeve


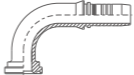




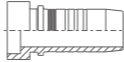
Universal hose connector core

28/75

11110  P/28	21512-21513  P/29	21542-21543  P/30	21582-21583  P/31	11210  P/32	21612-21613  P/33
21642-21643  P/34	21692-21693  P/35	22010  P/36	22040  P/37	22090  P/38	22110  P/39
22140  P/40	22190  P/41	21312-21313  P/42	21342-21343  P/43	21392-21393  P/44	24011  P/45
24241  P/45	24291  P/46	21011  P/46	20441  P/47	20491  P/47	21013  P/47
21093  P/48	12310  P/48	20512-20513  P/49	20542-20543  P/50	20592-20593  P/51	21412-21413  P/52
21442-21443  P/53	21492-21493  P/54	22712  P/55	22512-22513  P/56	22542-22543  P/57	22592-22593  P/58
10110  P/59	20211-20213  P/60	20241-20243  P/61	20291-20293  P/62	12410  P/63	22411-22413  P/64
22442-22443  P/65	22492-22493  P/66	23311  P/67	23341  P/68	23391  P/69	23611  P/70

Universal hose connector core

28/75

23641  P/70	23691  P/71	20310  P/71	20910  P/72	10710  P/73	12810  P/74
C-IP  P/75					

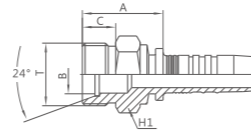
Universal hose connector core

Metric male thread 24° conical base light series

Features

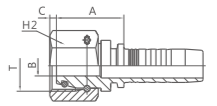
Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: DIN 20066 / ISO 12151-2
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc

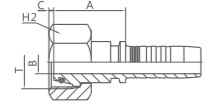


Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
11110-03-12	5	3/16"	-03	M12X1.5	3.0	21.0	10.0	14
11110-04-12	6	1/4"	-04	M12X1.5	4.0	21.5	10.0	14
11110-04-14	6	1/4"	-04	M14X1.5	4.0	21.5	10.0	14
11110-04-16	6	1/4"	-04	M16X1.5	7.0	23.5	11.0	17
11110-04-18	6	1/4"	-04	M18X1.5	9.0	23.5	11.0	19
11110-05-16	8	5/16"	-05	M16X1.5	7.0	24.0	11.0	17
11110-05-18	8	5/16"	-05	M18X1.5	9.0	24.0	11.0	19
11110-06-16	10	3/8"	-06	M16X1.5	7.0	24.1	11.0	17
11110-06-18	10	3/8"	-06	M18X1.5	9.0	24.6	11.0	19
11110-06-22	10	3/8"	-06	M22X1.5	10.0	25.6	12.0	22
11110-06-26	10	3/8"	-06	M26X1.5	12.5	26.5	12.0	27
11110-08-16	12	1/2"	-08	M16X1.5	7.0	24.5	11.0	22
11110-08-18	12	1/2"	-08	M18X1.5	9.3	24.5	11.0	22
11110-08-22	12	1/2"	-08	M22X1.5	10.0	25.6	12.0	22
11110-08-26	12	1/2"	-08	M26X1.5	12.5	26.4	12.0	27
11110-10-22	16	5/8"	-10	M22X1.5	10.0	25.5	12.0	22
11110-10-26	16	5/8"	-10	M26X1.5	12.5	26.7	12.0	27
11110-10-30	16	5/8"	-10	M30X2	15.0	28.5	14.0	30
11110-12-26	19	3/4"	-12	M26X1.5	15.0	28.5	12.0	27
11110-12-30	19	3/4"	-12	M30X2	15.0	30.0	14.0	30
11110-12-36	19	3/4"	-12	M36X2	19.8	31.2	14.0	36
11110-16-36	25	1"	-16	M36X2	20.0	32.3	14.0	36
11110-20-45	31	1.1/4"	-20	M45X2	26.0	40.5	16.0	46
11110-24-52	38	1.1/2"	-45	M52X2	32.0	42.6	16.0	55

Metric female thread 24° cone light series with O-ring (with thrust wire nut)



Metric female thread 24° cone light series with O-ring (with sliding sleeve nut)



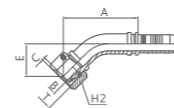
Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Metric female thread
 Sealing form: 24° outer cone seal

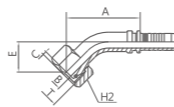
Standard: DIN20066/ISO12151-2
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size			
						B	A	C	H2
21513-03-12	5	3/16"	-03	M12X1.5	6	3.0	21.9	1.7	14
21513-03-14	5	3/16"	-03	M14X1.5	8	4.5	24.5	1.7	17
21512-04-12	6	1/4"	-04	M12X1.5	6	3.0	21.1	2.2	17
21513-04-14	6	1/4"	-04	M14X1.5	8	4.0	22.1	1.7	17
21513-04-16	6	1/4"	-04	M16X1.5	10	6.0	22.6	2.1	19
21513-04-18	6	1/4"	-04	M18X1.5	12	7.0	21.9	2.3	22
21512-05-14	8	5/16"	-05	M14X1.5	8	4.0	20.0	1.7	17
21513-05-16	8	5/16"	-05	M16X1.5	10	6.0	22.6	2.1	19
21513-05-18	8	5/16"	-05	M18X1.5	12	7.0	21.9	2.3	22
21513-05-22	8	5/16"	-05	M22X1.5	15	9.0	25	2.3	27
21512-06-16	10	3/8"	-06	M16X1.5	10	6.0	23.1	3.0	19
21513-06-18	10	3/8"	-06	M18X1.5	12	7.0	22.4	2.3	22
21513-06-22	10	3/8"	-06	M22X1.5	15	9.3	25.0	2.3	27
21512-08-18	12	1/2"	-08	M18X1.5	12	7.0	29.0	2.9	22
21513-08-22	12	1/2"	-08	M22X1.5	15	9.3	25.4	2.3	27
21513-08-26	12	1/2"	-08	M26X1.5	18	12.5	26.1	2.5	32
21512-10-18	16	5/8"	-10	M18X1.5	12	7.0	29.0	2.9	22
21512-10-22	16	5/8"	-10	M22X1.5	15	9.5	26.5	2.4	27
21513-10-26	16	5/8"	-10	M26X1.5	18	12.5	26.0	2.5	32
21513-10-27	16	5/8"	-10	M27X1.5	18	13.0	28	2.5	32
21513-10-30	16	5/8"	-10	M30X2	22	15.0	34.0	3.6	36
21513-10-36	16	5/8"	-10	M36X2	25	20.0	30.5	3.8	41
21512-12-26	19	3/4"	-12	M26X1.5	18	12.5	31.1	3.6	32
21512-12-27	19	3/4"	-12	M27X1.5	18	13.0	31.1	3.6	32
21513-12-30	19	3/4"	-12	M30X2	22	15.0	28.2	3.6	36
21513-12-36	19	3/4"	-12	M36X2	28	20.0	28.3	3.8	41
21513-14-36	22	7/8"	-14	M36X2	28	20.0	30.0	3.8	41
21512-16-30	25	1"	-16	M30X2	22	15.0	34.0	3.6	36
21513-16-36	25	1"	-16	M36X2	28	19.8	29.4	3.8	41
21513-16-45	25	1"	-16	M45X2	35	26.0	39.0	5.1	50
21512-20-36	32	1.1/4"	-20	M36X2	28	19.8	35.5	5.0	41
21513-20-45	32	1.1/4"	-20	M45X2	35	26.0	32.9	5.1	50
21513-20-52	32	1.1/4"	-20	M52X2	42	32.0	32.5	5.1	60
21512-24-45	38	1.1/2"	-24	M45X2	35	26.0	42.5	5.8	50
21513-24-52	38	1.1/2"	-24	M52X2	42	32.0	32.8	5.1	60

45° sweep elbow metric female thread
24° cone light series with O-ring (with thrust wire nut)



45° sweep elbow metric female thread
24° cone light series with O-ring (with sliding sleeve nut)



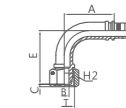
Features

Structural type: For braided hose
Structure form: 45° connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

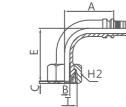
Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size				
						B	A	C	E	H2
21543-03-12	5	3/16"	-03	M12X1.5	6	3.0	35.0	1.7	16.0	14
21542-04-12	6	1/4"	-04	M12X1.5	6	4.0	39.0	2.2	18.0	17
21543-04-14	6	1/4"	-04	M14X1.5	8	3.0	38.0	1.7	16.5	17
21543-04-16	6	1/4"	-04	M16X1.5	10	4.0	38.0	2.1	17.0	19
21543-04-18	6	1/4"	-04	M18X1.5	12	6.0	38.5	2.3	17.5	22
21543-05-16	8	5/16"	-05	M16X1.5	10	7.0	41.5	2.1	17.5	19
21543-05-18	8	5/16"	-05	M18X1.5	12	4.0	41.5	2.3	17.0	22
21543-05-22	8	5/16"	-05	M22X1.5	15	9.3	45.0	2.3	25.0	27
21542-06-16	10	3/8"	-06	M16X1.5	10	6.0	47.5	3.0	16.5	19
21543-06-18	10	3/8"	-06	M18X1.5	12	7.0	43.5	2.3	18.0	22
21543-06-22	10	3/8"	-06	M22X1.5	15	9.3	45.0	2.3	29.5	27
21542-08-18	12	1/2"	-08	M18X1.5	12	6.0	56.5	2.9	25.0	27
21543-08-22	12	1/2"	-08	M22X1.5	15	7.0	52.0	2.3	19.0	22
21543-08-26	12	1/2"	-08	M26X1.5	18	9.3	52.5	2.5	19.5	32
21542-10-22	16	5/8"	-10	M22X1.5	15	7.0	65.5	2.4	29.0	27
21543-10-26	16	5/8"	-10	M26X1.5	18	9.3	62.0	2.5	26.5	32
21543-10-27	16	5/8"	-10	M27X1.5	18	9.3	62.0	2.5	27.7	32
21542-12-26	19	3/4"	-12	M26X1.5	18	12.5	73.0	3.6	31.0	32
21543-12-30	19	3/4"	-12	M30X2	22	9.3	71.0	3.6	28.5	36
21543-12-36	19	3/4"	-12	M36X2	28	12.5	72.0	3.8	30.0	41
21543-14-36	22	7/8"	-14	M36X2	28	12.5	83.7	4.0	33.3	41
21543-16-36	25	1"	-16	M36X2	28	15.0	85.0	3.8	32.0	41
21542-20-36	32	1.1/4"	-20	M36X2	28	12.5	107.5	5.0	44.0	41
21542-20-45	32	1.1/4"	-20	M45X2	35	15.0	99.5	5.1	36.0	50
21542-24-36	38	1.1/2"	-24	M36X2	28	19.8	117.5	5.0	37.0	41
21543-24-52	38	1.1/2"	-24	M52X2	42	15.0	117.0	5.1	44.5	60

90° sweep elbow metric female thread
24° cone light series with O-ring (with thrust wire nut)



90° sweep elbow metric female thread
24° cone light series with O-ring (with sliding sleeve nut)



Features

Structural type: For braided hose
Structure form: 90° connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

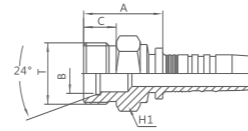
Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size				
						B	A	C	E	H2
21593-03-12	5	3/16"	-03	M12X1.5	6	3.0	26.0	1.7	30.0	14
21593-03-14	5	3/16"	-03	M14X1.5	8	4.0	29.0	1.7	31.5	17
21592-04-12	6	1/4"	-04	M12X1.5	6	3.0	28.5	2.2	32.5	17
21593-04-14	6	1/4"	-04	M14X1.5	8	4.0	29.5	1.7	31.5	17
21593-04-16	6	1/4"	-04	M16X1.5	10	6.0	29.5	2.1	32.0	19
21593-04-18	6	1/4"	-04	M18X1.5	12	7.0	29.5	2.3	33.0	22
21592-05-14	8	5/16"	-05	M14X1.5	8	4.0	31.0	1.7	33.0	17
21593-05-16	8	5/16"	-05	M16X1.5	10	6.0	32.0	2.1	32.5	19
21593-05-18	8	5/16"	-05	M18X1.5	12	7.0	32.0	2.3	32.5	22
21593-05-22	8	5/16"	-05	M22X1.5	15	9.3	36.0	2.3	35.0	27
21592-06-16	10	3/8"	-06	M16X1.5	10	6.0	35.5	3.0	40.0	19
21593-06-18	10	3/8"	-06	M18X1.5	12	7.0	36.5	2.3	33.5	22
21593-06-22	10	3/8"	-06	M22X1.5	15	9.3	36.5	2.3	35.0	27
21592-08-18	12	1/2"	-08	M18X1.5	12	7.0	44.0	2.9	48.0	22
21593-08-22	12	1/2"	-08	M22X1.5	15	9.3	45.0	2.3	39.5	27
21593-08-26	12	1/2"	-08	M26X1.5	18	12.5	45.0	2.5	40.0	32
21592-10-22	16	5/8"	-10	M22X1.5	15	9.3	53.5	3.0	57.5	27
21593-10-26	16	5/8"	-10	M26X1.5	18	12.5	51.5	2.5	53.0	32
21593-10-27	16	5/8"	-10	M27X1.5	18	12.5	51.5	2.5	53.0	32
21593-10-30	16	5/8"	-10	M30X2	22	15.0	51.5	3.6	54.0	36
21593-12-26	19	3/4"	-12	M26X1.5	18	12.5	61.5	3.6	63.0	32
21593-12-27	19	3/4"	-12	M27X1.5	18	12.5	61.5	3.6	63.0	32
21593-12-30	19	3/4"	-12	M30X2	22	15.0	61.5	3.6	59.0	36
21592-12-36	19	3/4"	-12	M36X2	28	19.8	61.5	3.8	61.0	41
21593-14-36	19	7/8"	-14	M36X2	28	19.8	71.0	3.8	70.0	41
21592-16-30	25	1"	-16	M30X2	22	15.0	79.5	3.6	80.5	36
21593-16-36	25	1"	-16	M36X2	28	19.8	76.5	3.8	69.5	41
21593-16-45	25	1"	-16	M45X2	35	26.0	79.0	5.1	72.0	50
21592-20-36	31	1.1/4"	-20	M36X2	28	19.8	93.5	5.0	92.0	41
21593-20-45	31	1.1/4"	-20	M45X2	35	26.0	93.5	5.1	81.0	50
21593-20-52	31	1.1/4"	-20	M52X2	42	32.0	93.5	5.1	87.0	60
21592-24-36	38	1.1/2"	-24	M36X2	28	19.8	97.0	5.0	68.0	41
21593-24-52	38	1.1/2"	-24	M52X2	42	32.0	107.5	5.1	98.0	60

Metric male thread 24° conical base heavy series

Features

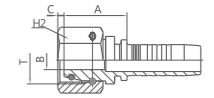
Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: DIN 20066/ISO 12151-2
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc

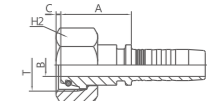


Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
11210-04-16	6	1/4"	-04	M16X1.5	4.0	25.5	12.0	17
11210-04-18	6	1/4"	-04	M18X1.5	6.0	26.5	12.0	19
11210-04-20	6	1/4"	-04	M20X1.5	7.0	29.0	12.0	22
11210-05-16	8	5/16"	-05	M16X1.5	5.5	26.0	12.0	17
11210-05-18	8	5/16"	-05	M18X1.5	7.0	26.5	12.0	19
11210-05-20	8	5/16"	-05	M20X1.5	7.0	29.0	12.0	22
11210-06-18	10	3/8"	-06	M18X1.5	7.0	27.1	12.0	19
11210-06-20	10	3/8"	-06	M20X1.5	7.0	29.1	12.0	22
11210-06-22	10	3/8"	-06	M22X1.5	8.0	31.1	14.0	22
11210-08-22	12	1/2"	-08	M22X1.5	9.3	31.5	14.0	22
11210-08-24	12	1/2"	-08	M24X1.5	9.3	31.6	14.0	24
11210-10-30	16	5/8"	-10	M30X2	15.0	35.7	16.0	30
11210-10-36	16	5/8"	-10	M36X2	19.8	40.0	18.0	36
11210-12-30	19	3/4"	-12	M30X2	15.0	37.0	16.0	30
11210-12-36	19	3/4"	-12	M36X2	19.8	41.0	18.0	36
11210-16-36	25	1"	-16	M36X2	19.8	42.3	18.0	36
11210-16-42	25	1"	-16	M42X2	25.0	44.3	20.0	46
11210-20-52	31	1.1/4"	-20	M52X2	30.0	50.5	22.0	55

Metric female thread 24° cone heavy series with O-ring (with thrust wire nut)



Metric female thread 24° cone heavy series with O-ring (with sliding sleeve nut)



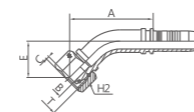
Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Metric female thread
 Sealing form: 24° outer cone seal

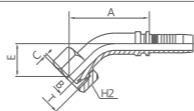
Standard: DIN20066/ISO12151-2
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size			
						B	A	C	H2
21613-03-14	5	3/16"	-03	M14X1.5	6	2.5	25.5	3.5	17
21613-03-16	5	3/16"	-03	M16X1.5	8	3.2	21.9	3.4	19
21613-04-14	6	1/4"	-04	M14X1.5	6	3.0	23.5	3.5	17
21613-04-16	6	1/4"	-04	M16X1.5	8	4.0	22.2	3.4	19
21613-04-18	6	1/4"	-04	M18X1.5	10	6.0	28.0	3.0	22
21613-04-20	6	1/4"	-04	M20X1.5	12	7.0	25.7	2.5	24
21613-05-16	8	5/16"	-05	M16X1.5	8	6.0	29.0	3.0	22
21613-05-18	8	5/16"	-05	M18X1.5	10	5.5	28.0	3.0	22
21613-05-20	8	5/16"	-05	M20X1.5	12	5.5	24.8	2.5	24
21613-06-18	10	3/8"	-06	M18X1.5	10	7.0	28.5	3.0	22
21613-06-20	10	5/16"	-06	M20X1.5	12	7.0	25.3	2.5	24
21613-06-22	10	5/16"	-06	M22X1.5	14	7.0	32.6	3.0	27
21613-06-24	10	3/8"	-06	M24X1.5	16	7.0	32.0	3.0	30
21612-08-20	12	3/8"	-08	M20X1.5	12	7.0	29.0	2.5	24
21613-08-22	12	3/8"	-08	M22X1.5	14	7.0	27.5	2.5	27
21613-08-24	12	1/2"	-08	M24X1.5	16	9.3	26.7	3.5	30
21613-08-30	12	1/2"	-08	M30X2	20	12.5	37.0	3.5	36
21612-10-24	16	1/2"	-10	M24X1.5	16	9.3	29.5	4.0	30
21613-10-30	16	5/8"	-10	M30X2	20	12.5	30.6	3.5	36
21613-10-36	16	5/8"	-10	M36X2	25	15.0	40.0	4.5	41
21612-12-24	19	5/8"	-12	M24X1.5	16	9.3	30.5	4.0	30
21612-12-30	19	5/8"	-12	M30X2	20	12.5	33.5	2.2	36
21613-12-36	19	5/8"	-12	M36X2	25	15.0	34.1	4.5	41
21613-12-42	19	5/8"	-12	M42X2	30	19.8	36.0	5.0	50
21613-14-36	22	7/8"	-14	M36X2	25	15.0	36.0	3.0	41
21612-16-30	25	1"	-16	M30X2	20	12.5	34.5	2.2	36
21612-16-36	25	1"	-16	M36X2	25	15.0	35.3	1.7	41
21613-16-42	25	1"	-16	M42X2	30	19.8	35.4	6.3	50
21613-20-52	31	1.1/4"	-20	M52X2	38	26.0	37.5	8.0	60
21613-24-52	38	1.1/2"	-24	M52X2	38	26.0	49.6	8.0	60

45° sweep elbow metric female thread
24° cone heavy series with O-ring (with thrust wire nut)



45° sweep elbow metric female thread
24° cone heavy series with O-ring (with sliding sleeve nut)



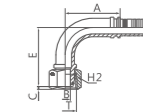
Features

Structural type: For braided hose
Structure form: 45° connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

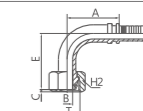
Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size				
						B	A	C	E	H2
21643-04-14	6	1/4"	-04	M14X1.5	6	3.0	38.5	3.5	17.5	17
21643-04-16	6	1/4"	-04	M16X1.5	8	4.0	36	3.4	15.0	19
21643-04-18	6	1/4"	-04	M18X1.5	10	4.0	37.5	3.0	16.5	22
21643-05-16	8	5/16"	-05	M16X1.5	8	4.0	52.5	3.4	29	22
21643-05-18	8	5/16"	-05	M18X1.5	10	4.0	42.5	3.0	18.0	22
21643-05-20	8	5/16"	-05	M20X1.5	12	5.5	42.5	2.5	18.5	24
21643-06-18	10	3/8"	-06	M18X1.5	10	4.0	49.0	3.9	23.0	22
21643-06-20	10	3/8"	-06	M20X1.5	12	7.0	45.0	2.5	18.0	24
21643-06-22	10	3/8"	-06	M22X1.5	14	7.0	46.5	3.0	19.5	27
21642-08-20	12	1/2"	-08	M20X1.5	12	7.0	67.8	2.5	32.8	27
21643-08-22	12	1/2"	-08	M22X1.5	14	7	57.5	2.5	25.5	27
21643-08-24	12	1/2"	-08	M24X1.5	16	9.3	52.5	3.0	20.0	30
21643-10-24	16	5/8"	-10	M24X1.5	16	9.3	80.7	3.0	35.9	30
21643-10-30	16	5/8"	-10	M30X2	20	12.5	65.5	3.5	29.5	36
21643-12-30	19	3/4"	-12	M30X2	20	12.5	76.5	2.2	34.0	36
21643-12-36	12	3/4"	-12	M36X2	25	15.0	75.0	4.5	32.5	41
21543-14-36	22	7/8"	-14	M36X2	22	15.0	84.4	4.5	34	41
21643-16-36	25	1"	-16	M36X2	25	15.0	98.0	1.7	43.5	41
21643-16-42	25	1"	-16	M42X2	30	19.8	90.0	6.3	35.5	50
21643-20-52	31	1.1/4"	-20	M52X2	38	26.0	103.0	8.0	39.5	60
21643-24-52	38	1.1/2"	-24	M52X2	38	26.0	116.0	8.0	45.1	60

90° sweep elbow metric female thread
24° cone heavy series with O-ring (with thrust wire nut)



90° sweep elbow metric female thread
24° cone with O-type heavy series (with sliding sleeve nut)



Features

Structural type: For braided hose
Structure form: 90° connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

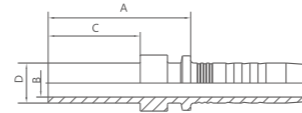
Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size				
						B	A	C	E	H2
21693-03-14	5	3/16"	-03	M14X1.5	6	3.0	26.0	3.5	30.0	17
21693-03-16	5	3/16"	-03	M16X1.5	8	3.0	26.0	3.4	29.5	19
21693-04-14	6	1/4"	-04	M14X1.5	6	3.0	29.5	3.5	32.5	17
21693-04-16	6	1/4"	-04	M16X1.5	8	4.0	29.5	3.4	29.5	19
21693-04-18	6	1/4"	-04	M18X1.5	10	4.0	29.5	3.0	31.0	22
21693-04-20	6	1/4"	-04	M20X1.5	12	5.5	29.5	2.5	34.5	24
21693-05-16	8	5/16"	-05	M16X1.5	8	4.0	33.0	3.4	51.0	22
21693-05-18	8	5/16"	-05	M18X1.5	10	4.0	32.0	3.0	33.5	22
21693-05-20	8	5/16"	-05	M20X1.5	12	5.5	32.0	2.5	34.0	24
21693-06-18	10	3/8"	-06	M18X1.5	10	4.0	35.5	3.9	42.5	22
21693-06-20	10	3/8"	-06	M20X1.5	12	7.0	36.5	2.5	35.0	24
21693-06-22	10	3/8"	-06	M22X1.5	14	7.0	36.5	3.0	37.0	27
21693-06-24	10	3/8"	-06	M24X1.5	16	9.3	36.5	3.0	36.0	30
21692-08-20	12	1/2"	-08	M20X1.5	12	7.0	41	2.5	61	27
21693-08-22	12	1/2"	-08	M22X1.5	14	7.0	44.0	2.5	48.5	27
21693-08-24	12	1/2"	-08	M24X1.5	16	9.3	45.0	3.0	40.5	30
21693-08-30	12	1/2"	-08	M30X2	20	12.5	45.0	3.5	44.5	36
21693-10-24	16	5/8"	-10	M24X1.5	16	9.3	55.0	4.0	60.0	30
21693-10-30	16	5/8"	-10	M30X2	20	12.5	51.5	3.5	57.5	36
21693-12-30	19	3/4"	-12	M30X2	20	12.5	61.5	2.2	67.5	36
21693-12-36	19	3/4"	-12	M36X2	25	15.0	61.5	4.5	64.5	41
21693-14-36	22	1"	-22	M36X2	25	15.0	71.2	4.5	71.0	41
21693-16-36	25	1"	-16	M36X2	25	15.0	79.5	1.7	86.0	41
21693-16-42	25	1"	-16	M42X2	30	19.8	79.0	6.3	74.5	50
21693-20-52	31	1.1/4"	-20	M52X2	38	26	93.5	8.0	85.5	60
21693-24-52	38	1.1/2"	-24	M52X2	38	24.7	91.5	8.8	95.5	60

Metric riser light series

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Ferrule connection
 Sealing form: Angle seal

Standard: DIN 2353/ISO 8434-1
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



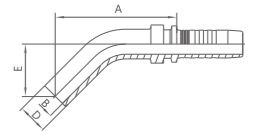
Drawing No	DN	Inch	Size	D	Size		
					B	A	C
22010-03-04	5	3/16"	-03	4	2.0	29.6	22.0
22010-03-06	5	3/16"	-03	6	3.0	28.6	22.0
22010-04-06	6	1/4"	-04	6	3.0	29.5	22.0
22010-05-08	8	5/16"	-05	8	5.5	30.0	22.0
22010-05-10	8	5/16"	-05	10	7.0	30.5	23.0
22010-06-10	10	3/8"	-06	10	7.0	30.6	23.0
22010-06-12	10	3/8"	-06	12	8.0	30.6	23.0
22010-06-15	10	3/8"	-06	15	10.5	32.6	25.0
22010-08-12	12	1/2"	-08	12	8.0	30.9	23.0
22010-08-15	12	1/2"	-08	15	10.5	32.9	25.0
22010-08-18	12	1/2"	-08	18	12.5	33.9	26.0
22010-10-18	16	5/8"	-10	18	12.5	34.2	26.0
22010-10-22	16	5/8"	-10	22	15.0	36.2	28.0
22010-12-18	19	3/4"	-12	18	15.0	36.2	26.0
22010-12-22	19	3/4"	-12	22	15.0	38.0	28.0
22010-16-22	25	1"	-16	22	15.0	46.0	28.0
22010-16-28	25	1"	-16	28	20.5	41.3	30.0
22010-20-35	31	1.1/4"	-20	35	26.0	48.5	36.0
22010-24-42	38	1.1/2"	-24	42	32.0	52.6	40.0

Metric riser light series

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Ferrule connection
 Sealing form: Angle seal

Standard: DIN 2353/ISO 8434-1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc



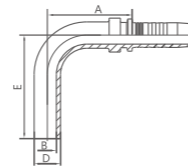
Drawing No	DN	Inch	Size	D	Size		
					B	A	E
22040-03-06	5	3/16"	-03	6	3.0	37.5	20.5
22040-04-06	6	1/4"	-04	6	3.0	38.0	20.5
22040-05-08	8	5/16"	-05	8	5.5	55.7	32.4
22040-05-10	8	5/16"	-05	10	7.0	44.5	22.5
22040-06-08	10	5/16"	-06	8	5.5	57.9	33.1
22040-06-10	10	3/8"	-06	10	7.0	47.5	23.0
22040-06-12	10	3/8"	-06	12	8.0	49.5	25.0
22040-06-15	10	3/8"	-06	15	8.0	59.3	34.5
22040-08-12	12	3/8"	-08	12	8.0	72.4	37.4
22040-08-15	12	1/2"	-08	15	10.5	58.0	28.0
22040-08-18	12	1/2"	-08	18	12.5	73.4	38.5
22040-10-18	16	5/8"	-10	18	12.5	63.5	30.5
22040-10-22	16	5/8"	-10	22	15.0	87.1	42.3
22040-12-22	19	3/4"	-12	22	15.0	69.0	32.0
22040-16-22	25	1"	-16	22	15.0	100.9	46.7
22040-16-28	25	1"	-16	28	19.8	81.5	37.0
22040-20-35	31	1.1/4"	-20	35	26.0	118.5	57.8

Metric riser light series

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Ferrule connection
 Sealing form: Angle seal

Standard: DIN 2353/ISO 8434-1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc



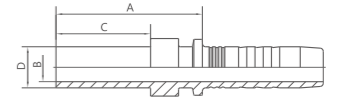
Drawing No	DN	Inch	Size	D	Size		
					B	A	E
22090-03-06	5	3/16"	-03	6	3.0	22.5	34.0
22090-04-06	6	1/4"	-04	6	3.0	23.0	34.0
22090-05-08	8	5/16"	-05	8	5.5	34.0	55.5
22090-05-10	8	5/16"	-05	10	7.0	29.5	40.0
22090-06-08	10	3/8"	-06	8	5.5	35.8	57.8
22090-06-10	10	3/8"	-06	10	7.0	34.0	42.5
22090-06-12	10	3/8"	-06	12	8.0	34.0	45.0
22090-06-15	10	3/8"	-06	15	10.5	35.8	59.8
22090-08-12	12	1/2"	-08	12	8.0	34.5	45.0
22090-08-15	12	1/2"	-08	15	10.5	42.0	52.0
22090-08-18	12	1/2"	-08	18	12.5	42.0	55.0
22090-10-18	16	5/8"	-10	18	12.5	49.0	59.0
22090-10-22	16	5/8"	-10	22	15.0	53.5	63.0
22090-12-22	19	3/4"	-12	22	15.0	54.5	63.0
22090-16-22	25	1"	-16	22	15.0	76.7	91.5
22090-16-28	25	1"	-16	28	19.8	67.5	75.0
22090-20-35	31	1.1/4"	-20	35	26.0	80.5	94.0

Metric riser heavy series

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Ferrule connection
 Sealing form: Angle seal

Standard: DIN 2353/ISO 8434-1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc



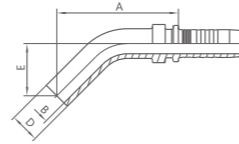
Drawing No	DN	Inch	Size	D	Size		
					B	A	C
22110-03-08	5	3/16"	-03	8	3.0	30.6	24.0
22110-03-10	5	3/16"	-03	10	3.0	29.5	22.0
22110-04-08	6	1/4"	-04	8	4.0	31.5	24.0
22110-04-10	6	1/4"	-04	10	4.0	33.5	26.0
22110-04-12	6	1/4"	-04	12	7.0	33.5	26.0
22110-05-08	8	1/4"	-05	8	4.0	33.0	24.0
22110-05-12	8	5/16"	-05	12	7.0	33.5	26.0
22110-06-08	10	1/4"	-06	8	4.0	33.0	24.0
22110-06-14	10	3/8"	-06	14	8.0	36.6	29.0
22110-08-14	12	1/2"	-08	14	9.3	36.9	29.0
22110-08-16	12	1/2"	-08	16	10.5	37.9	30.0
22110-10-16	16	5/8"	-10	16	10.5	45.5	30.0
22110-10-20	16	5/8"	-10	20	12.5	44.2	36.0
22110-12-14	19	3/4"	-12	14	9.3	45.5	29.0
22110-12-20	19	3/4"	-12	20	15.0	46.0	36.0
22110-12-25	19	3/4"	-12	25	15.0	50.0	40.0
22110-16-25	25	1"	-16	25	15.0	51.3	40.0
22110-16-30	25	1"	-16	30	20.5	55.3	44.0
22110-16-38	25	1"	-16	38	26.0	61.3	50.0
22110-20-30	31	1.1/4"	-20	30	20.5	56.5	44.0
22110-20-38	31	1.1/4"	-20	38	26.0	62.5	50.0
22110-24-38	38	1.1/2"	-24	38	26.0	62.6	50.0

Metric riser heavy series

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Ferrule connection
 Sealing form: Angle seal

Standard: DIN 2353/ISO 8434-1
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



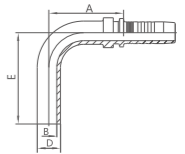
Drawing No	DN	Inch	Size	D	Size		
					B	A	E
22140-04-08	6	1/4"	-04	8	4.0	42.0	22.0
22140-04-10	6	1/4"	-04	10	6.0	44.0	24.0
22140-04-12	6	1/4"	-04	12	7.0	57.1	35.1
22140-05-12	8	5/16"	-05	12	7.0	59.2	35.9
22140-06-14	10	3/8"	-06	14	9.3	54.5	29.0
22140-08-14	12	1/2"	-08	14	9.3	73.8	38.8
22140-08-16	12	1/2"	-08	16	10.5	61.0	30.0
22140-10-16	16	5/8"	-10	16	10.5	87.8	43.0
22140-10-20	16	5/8"	-10	20	12.5	69.0	36.0
22140-12-14	19	3/4"	-12	14	9.3	76.6	43.8
22140-12-20	19	3/4"	-12	20	12.5	100.7	52.6
22140-12-25	19	3/4"	-12	25	15.0	80.5	40.5
22140-16-25	25	1"	-16	25	15.0	82.0	41.0
22140-16-30	25	1"	-16	30	20.5	113.6	59.4
22140-16-38	25	1"	-16	38	26.0	124.2	63.6
22140-20-30	31	1.1/4"	-20	30	20.5	117.9	63.5
22140-20-38	31	1.1/4"	-20	38	26.0	128.4	67.7

Metric riser heavy series

Features

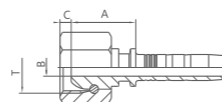
Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Ferrule connection
 Sealing form: Angle seal

Standard: DIN 2353/ISO 8434-1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

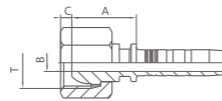


Drawing No	DN	Inch	Size	D	Size		
					B	A	E
22190-04-08	6	1/4"	-04	8	4.0	27.0	38.0
22190-04-10	6	1/4"	-04	10	6.0	27.0	41.0
22190-04-12	6	1/4"	-04	12	7.0	27.0	44.0
22190-05-12	8	5/16"	-05	12	7.0	30.5	44.0
22190-06-14	10	3/8"	-06	14	9.3	35.0	51.0
22190-08-14	12	1/2"	-08	14	9.3	42.0	53.5
22190-08-16	12	1/2"	-08	16	10.5	43.0	55.0
22190-10-16	10	5/8"	-10	16	10.5	56.5	77.5
22190-10-20	16	5/8"	-10	20	12.5	49.0	66.5
22190-12-14	19	3/4"	-12	14	9.3	66.2	83.0
22190-12-20	19	3/4"	-12	20	15.0	54.5	69.0
22190-12-25	19	3/4"	-12	25	15.0	57.5	75.0
22190-16-25	25	1"	-16	25	15.0	61.5	76.5
22190-16-30	25	1"	-16	30	19.8	69.5	87.0
22190-16-38	25	1"	-16	38	26.0	76.7	115.5
22190-20-30	31	1.1/4"	-20	30	19.8	91.5	120.5
22190-20-38	31	1.1/4"	-20	38	26.0	91.5	126.5

Metric female thread combined seal-DIN 20078/3868 (with thrust metal wire)



Metric female thread combined seal-DIN 20078/3868 (with sliding sleeve nut)



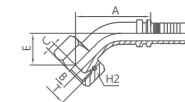
Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Spherical seal

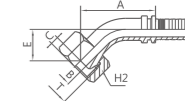
Standard: DIN 20078/3868
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H2
21312-03-10	5	3/16"	-03	M10x1	2.0	18.0	2.5	14
21313-03-12	5	3/16"	-03	M12x1.5	3.0	18.6	3.7	14
21312-04-10	6	1/4"	-04	M10x1	2.0	18.0	2.5	14
21312-04-12	6	1/4"	-04	M12x1.5	4.0	19.5	4.0	17
21313-04-14	6	1/4"	-04	M14x1.5	4.0	19.5	3.8	17
21313-04-16	6	1/4"	-04	M16x1.5	4.0	19.5	4.0	19
21313-05-16	8	5/16"	-05	M16x1.5	5.5	19.5	4.0	19
21313-05-18	8	5/16"	-05	M18x1.5	5.5	19.6	4.0	22
21313-06-14	10	3/8"	-06	M14x1.5	4.0	19.5	3.9	17
21313-06-16	10	3/8"	-06	M16x1.5	7.0	21.6	5.0	19
21313-06-18	10	3/8"	-06	M18x1.5	7.0	20.1	4.0	22
21313-06-20	10	3/8"	-06	M20x1.5	6.0	20.5	5.5	24
21313-06-22	10	3/8"	-06	M22x1.5	7.0	21.1	5.2	27
21313-08-18	12	1/2"	-08	M18x1.5	7.0	23.0	5.9	22
21313-08-22	12	1/2"	-08	M22x1.5	9.3	21.5	5.2	27
21313-10-26	16	5/8"	-10	M26x1.5	12.5	22.1	5.5	32
21312-12-30	19	3/4"	-12	M30x2	15.0	26.5	6.0	36
21313-12-36	19	3/4"	-12	M36x2	19.8	26.0	7.0	41
21313-14-36	22	7/8"	-14	M36x2	19.8	26.0	7.0	41
21313-14-39	22	7/8"	-14	M39x2	19.8	28.5	7.0	46
21313-16-39	25	1"	-16	M39x2	19.8	29.5	7.0	46
21313-16-42	25	1"	-16	M42x2	23.0	30.0	8.5	50
21313-20-45	31	1.1/4"	-20	M45x2	26.0	31.5	8.5	55
21313-20-52	31	1.1/4"	-20	M52x2	32.0	33.0	9.0	60
21313-24-52	38	1.1/2"	-24	M52x2	32.0	33.0	9.0	60
21313-32-64	51	2"	-32	M64X2	42.0	35.0	14.0	75

45° Metric female thread sweep elbow combined seal DIN 20078/3868 (with thrust metal wire)



45° Metric female thread sweep elbow combined seal DIN 20078/3868 (with sliding sleeve nut)



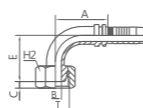
Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Spherical seal

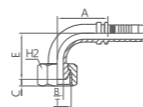
Standard: DIN 20078/3868
 Material: carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
21343-04-14	6	1/4"	-04	M14x1.5	4.0	36.5	3.8	15.0	17
21343-04-16	6	1/4"	-04	M16X1.5	4.0	36.5	4.0	15.0	19
21342-05-14	8	5/16"	-05	M14X1.5	4.0	40.0	3.9	19.5	17
21343-05-16	8	5/16"	-05	M16X1.5	5.5	39.0	4.0	15.0	19
21342-06-16	10	3/8"	-06	M16X1.5	4.0	46.0	5.0	20.0	19
21343-06-18	10	3/8"	-06	M18X1.5	7.0	42.0	4.0	15.5	22
21343-06-22	10	3/8"	-06	M22X1.5	7.0	42.5	5.2	15.5	27
21343-08-22	12	1/2"	-08	M22X1.5	9.3	49.5	5.2	17.0	27
21343-10-26	16	5/8"	-10	M26X1.5	12.5	60.0	5.5	24.0	32
21343-12-30	19	3/4"	-12	M30X2	15.0	80.9	6.0	29.6	36
21343-14-36	22	7/8"	-14	M36X2	19.8	83.0	7.0	32.5	41
21343-16-39	25	1"	-16	M39X2	19.8	88.2	7.0	34.0	46
21343-20-45	31	1.1/4"	-20	M45X2	26.0	99.1	8.5	38.5	55
21343-24-52	38	1.1/2"	-24	M52X2	32.0	114.1	9.0	43.5	60

90° Metric female thread sweep elbow combined seal DIN 20078/3868 (with thrust metal wire)



90° Metric female thread sweep elbow combined seal DIN 20078/3868 (with sliding sleeve nut)



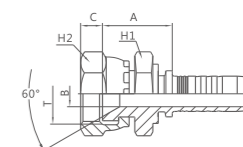
Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Spherical seal

Standard: DIN 20078/3868
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
21393-03-12	5	3/16"	-03	M12x1.5	3.0	26.0	3.7	27.0	14
21392-04-12	6	1/4"	-04	M12x1.5	4.0	28.0	4.0	30.5	17
21393-04-14	6	1/4"	-04	M14x1.5	4.0	29.5	3.8	29.5	17
21393-04-16	6	1/4"	-04	M16x1.5	4.0	29.5	4.0	29.5	19
21393-05-16	8	5/16"	-05	M16x1.5	5.5	32.0	4.0	29.0	19
21393-05-18	8	5/16"	-05	M18x1.5	7.0	32.0	4.0	30.5	22
21392-06-16	10	3/8"	-06	M16x1.5	7.0	35.5	5.0	38.0	19
21393-06-18	10	3/8"	-06	M18x1.5	7.0	36.5	4.0	31.5	22
21393-06-22	10	3/8"	-06	M22x1.5	7.0	36.5	5.2	32.0	27
21393-08-22	12	1/2"	-08	M22x1.5	9.3	45.0	5.2	36.5	27
21393-10-26	16	5/8"	-10	M26x1.5	12.5	51.5	5.5	50.0	32
21392-12-26	19	3/4"	-12	M26x1.5	12.5	61.5	5.5	63.0	32
21393-12-30	19	3/4"	-12	M30x2	19.8	65.5	6.5	67.5	36
21393-12-36	19	3/4"	-12	M36x2	19.8	65.5	7.0	68.0	41
21393-14-36	22	7/8"	-14	M36x2	19.8	71.2	7.0	69.0	41
21393-16-39	25	1"	-16	M39x2	19.8	76.7	7.0	73.5	46
21393-20-45	31	1.1/4"	-20	M45x2	26.0	91.5	8.5	85.0	55
21393-24-52	38	1.1/2"	-24	M52x2	32.0	109.5	9.0	100.0	60

JIS metric female thread 60° conical base (Komatsu standard) buckle - support nut



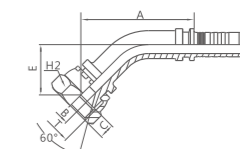
Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: JIS B 8363
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H1	H2
24011-04-14	6	1/4"	-04	M14 X 1.5	4.0	23.0	10.5	19	19
24011-04-18	6	1/4"	-04	M18 X 1.5	4.0	22.6	11.5	24	24
24011-05-16	8	5/16"	-05	M16 X 1.5	5.5	22.5	9.3	21	19
24011-06-14	10	3/8"	-06	M14 X 1.5	4.0	23.6	10.5	19	21
24011-06-18	10	3/8"	-06	M18 X 1.5	7.0	23.6	11.5	24	24
24011-08-22	12	1/2"	-08	M22 X 1.5	9.3	24.9	14.0	27	27
24011-10-24	16	5/8"	-10	M24 X 1.5	12.5	26.7	15.1	32	32
24011-12-30	19	3/4"	-12	M30 X 1.5	15.0	31.5	18.3	36	36
24011-16-33	25	1"	-16	M33 X 1.5	19.8	33.3	21.3	41	41
24011-20-36	31	1.1/4"	-20	M36 X 1.5	19.8	41.0	20.0	46	46
24011-24-42	38	1.1/2"	-24	M42 X 1.5	26.0	44.0	18.8	55	55

JIS 45° metric female thread 60° conical base (Komatsu standard) buckle - support nut



Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: JIS B 8363
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

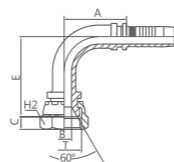
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
24241-04-14	6	1/4"	-04	M14 X 1.5	4.0	43.4	10.5	21.5	19
24241-05-16	8	5/16"	-05	M16 X 1.5	5.5	47.6	11.5	24.5	21
24241-06-18	10	3/8"	-06	M18 X 1.5	7.0	49.2	9.3	25.0	24
24241-08-22	12	1/2"	-08	M22 X 1.5	9.3	62.1	10.5	27.0	27
24241-10-24	16	5/8"	-10	M24 X 1.5	12.5	74.7	11.5	30.0	32
24241-12-30	19	3/4"	-12	M30 X 1.5	15.0	80.9	14.0	33.5	36
24241-16-33	25	1"	-16	M33 X 1.5	12.5	89.9	15.1	36.0	41
24241-20-36	31	1.1/4"	-20	M36 X 1.5	19.8	104.1	18.3	42.0	46

JIS 90° Metric female thread 60° conical base (Komatsu standard) buckle - support nut

Features

Structural type: For braided hose
Structure form: 45° connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: JIS B 8363
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc



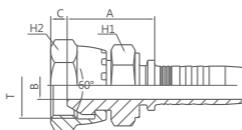
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
24291-04-14	6	1/4"	-04	M14 X 1.5	4.0	30.0	10.5	38.0	19
24291-06-14	10	3/8"	-06	M14 X 1.5	7.0	35.5	10.5	43.5	19
24291-05-16	8	5/16"	-05	M16 X 1.5	5.5	33.0	10.0	44.0	21
24291-06-18	10	3/8"	-06	M18 X 1.5	7.0	35.3	11.5	46.5	24
24291-08-22	12	1/2"	-08	M22 X 1.5	9.3	41.0	14.0	52.5	27
24291-10-24	16	5/8"	-10	M24 X 1.5	12.5	56.5	15.0	59.0	32
24291-12-30	19	3/4"	-12	M30 X 1.5	15.0	65.5	18.5	68.5	36
24291-16-33	25	1"	-16	M33 X 1.5	12.5	76.7	21.5	76.0	41
24291-20-36	31	1.1/4"	-20	M36 X 1.5	19.8	93.0	20.0	90.0	46

Metric female thread 60° outer cone Double hex

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: JIS B 8363
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc



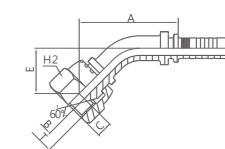
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H1	H2
21011-04-12	6	1/4"	-04	M12x1.5	4.0	21.5	6.0	17	17
21011-04-14	6	1/4"	-04	M14x1.5	4.0	25.0	6.0	17	19
21011-05-14	8	5/16"	-05	M14x1.5	5.4	25.0	6.0	19	19
21011-05-16	8	5/16"	-05	M16x1.5	5.4	27.0	6.0	19	22
21011-05-18	8	5/16"	-05	M18x1.5	5.4	27.0	7.0	19	24
21011-06-16	10	3/8"	-06	M16x1.5	7.0	27.5	6.0	19	22
21011-06-18	10	3/8"	-06	M18x1.5	7.0	27.5	7.0	22	24
21011-06-22	10	3/8"	-06	M22x1.5	7.0	29.5	9.0	24	27
21011-08-22	12	1/2"	-08	M22x1.5	9.6	30.0	9.0	24	27
21011-10-27	16	5/8"	-10	M27x1.5	12.5	31.0	10.0	32	32
21011-12-27	19	3/4"	-12	M27x1.5	15.0	32.0	10.0	32	32
21011-12-30	19	3/4"	-12	M30x2	15.0	32.5	11.5	32	36

45° metric female thread 60° outer cone

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: JIS B 8363
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc



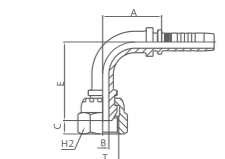
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H	H2
20441-04-14	6	1/4"	-04	M14x1.5	4.0	42.0	5.5	20.5	19
20441-05-16	8	5/8"	-05	M16x1.5	5.4	45.0	5.5	22.0	22
20441-06-18	10	3/8"	-06	M18x1.5	7.0	47.5	5.5	23.0	24
20441-08-22	12	3/4"	-08	M22x1.5	9.6	62.0	6.0	27.0	27
20442-10-26	16	1/2"	-10	M26x1.5	12.5	71.5	6.0	27.0	32

90° metric female thread 60° outer cone

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: JIS B 8363
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc



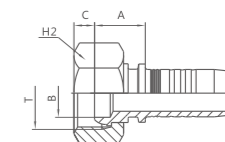
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H	H2
20491-04-14	6	1/4"	-04	M14x1.5	4.0	30.0	5.5	37.0	19
20491-05-16	8	5/8"	-05	M16x1.5	5.4	33.0	5.5	40.5	22
20491-06-18	10	3/8"	-06	M18x1.5	7.0	35.5	5.5	44.0	24
20491-08-22	12	3/4"	-08	M22x1.5	9.6	41.0	6.0	52.0	27
20491-16-36	25	1"	-16	M36x2	19.8	78.0	6.5	55.0	41

60° metric female thread

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: DIN 20078/3863
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc



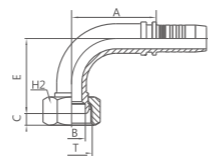
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H2
21013-10-30	16	5/8"	-10	M30x1.5	20.0	20.0	8.1	36
21013-12-30	19	3/4"	-12	M30x1.5	20.0	21.0	8.1	36
21013-16-38	25	1"	-16	M38x1.5	26.0	22.8	7.6	46
21013-20-45	31	1.1/4"	-20	M45x1.5	33.0	23.5	8.1	50
21013-24-52	38	1.1/2"	-24	M52x1.5	40.0	25.0	8.1	60

90° Metric 60° Female Thread Sweep Elbow

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: DIN 20078/3868
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



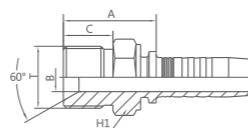
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
21093-12-30	19	3/4"	-12	M30x1.5	20.0	61.5	8.1	54.5	36
21093-16-38	25	1"	-16	M38x1.5	26.0	76.5	7.6	63.0	46
21093-20-45	31	1.1/4"	-20	M45x1.5	33.0	92.0	8.1	81.0	50

British pipe male thread 60° inner cone double hex connector core

Features

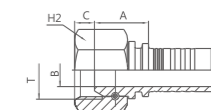
Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: BSP5200/ISO8434-6
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc

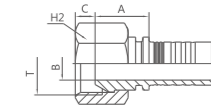


Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
12310-03-02	5	5	-03	1/8"-28	3.5	22.5	10.0	14
12310-03-04	5	5	-03	1/4"-19	5.0	25.0	11.0	19
12310-04-02	6	6	-04	1/8"-28	3.5	22.5	10.0	14
12310-04-04	6	6	-04	1/4"-19	5.0	25.5	11.0	19
12310-04-06	6	6	-04	3/8"-19	8.0	27.0	12.0	22
12310-04-08	6	6	-04	1/2"-14	11.0	30.0	14.0	27
12310-05-04	8	8	-05	1/4"-19	5.0	26.0	11.0	19
12310-05-06	8	8	-05	3/8"-19	8.0	27.5	12.0	22
12310-06-04	10	10	-06	1/4"-19	5.0	26.0	11.0	19
12310-06-06	10	10	-06	3/8"-19	8.0	28.1	12.0	22
12310-06-08	10	10	-06	1/2"-14	11.0	30.6	14.0	27
12310-08-06	12	12	-08	3/8"-19	8.0	28.1	12.0	22
12310-08-08	12	12	-08	1/2"-14	11.0	31.1	14.0	27
12310-08-10	12	12	-08	5/8"-14	14.5	33.1	16.0	30
12310-08-12	12	12	-08	3/4"-14	17.0	34.1	16.0	32
12310-10-10	16	16	-10	5/8"-14	14.5	33.1	16.0	30
12310-10-12	16	16	-10	3/4"-14	17.0	34.1	16.0	32
12310-12-08	19	19	-12	1/2"-14	11.0	32.0	14.0	27
12310-12-12	19	19	-12	3/4"-14	17.0	35.5	16.0	32
12310-12-16	19	19	-12	1"-11	22.5	39.5	19.0	41
12310-16-12	25	25	-16	3/4"-14	17.0	36.5	16.0	32
12310-16-16	25	25	-16	1"-11	22.5	40.8	19.0	41
12310-16-20	25	25	-16	1.1/4"-11	28.5	44.8	20.0	50
12310-20-20	31	31	-20	1.1/4"-11	28.5	46.5	20.0	50
12310-20-24	31	31	-20	1.1/2"-11	33.5	48.5	22.0	55
12310-24-24	38	38	-24	1.1/2"-11	33.5	49.5	22.0	55
12310-32-32	51	51	-32	2"-11	46.0	53.9	25.0	70

BSP female thread 60° cone (with thrust wire nut)



BSP female thread 60° cone (with sliding sleeve nut)



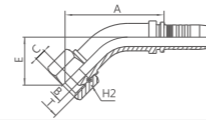
Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

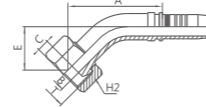
Standard: BS5200/ISO8434-6
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H2
20512-03-02	5	3/16"	-03	1/8"-28	3.1	14.8	4.4	14
20513-03-04	5	3/16"	-03	1/4"-19	4.0	16.5	5.4	19
20513-04-02	6	1/4"	-04	1/8"-28	3.1	15.5	4.4	14
20513-04-04	6	1/4"	-04	1/4"-19	4.0	17.0	5.4	19
20513-04-06	6	1/4"	-04	3/8"-19	7.0	19.1	6.0	22
20512-05-04	8	5/16"	-05	1/4"-19	4.1	17.5	4.2	19
20513-05-06	8	5/16"	-05	3/8"-19	7.0	19.1	6.0	22
20513-05-08	8	5/16"	-05	1/2"-14	9.3	20.5	6.5	27
20512-06-04	10	3/8"	-06	1/4"-19	4.1	18.1	4.2	19
20513-06-06	10	3/8"	-06	3/8"-19	7.0	19.6	6.0	22
20513-06-08	10	3/8"	-06	1/2"-14	9.3	20.0	6.5	27
20512-08-06	12	1/2"	-08	3/8"-19	7.1	20.9	6.0	22
20513-08-08	12	1/2"	-08	1/2"-14	9.3	20.4	6.5	27
20512-08-10	12	1/2"	-08	5/8"-14	12.1	21.9	10.2	28
20512-08-12	12	1/2"	-08	3/4"-14	15.0	23.4	9.0	32
20512-10-08	16	5/8"	-10	1/2"-14	9.8	24.0	6.5	27
20512-10-10	16	5/8"	-10	5/8"-14	12.5	21.7	10.2	28
20512-10-12	16	5/8"	-10	3/4"-14	15.0	23.2	9.0	32
20512-12-08	19	3/4"	-12	1/2"-14	9.8	25.0	6.5	27
20512-12-12	19	3/4"	-12	3/4"-11	15.0	24.5	9.0	32
20512-12-16	19	3/4"	-12	1"-14	19.8	26.0	10.5	38
20512-16-12	25	1"	-16	3/4"-11	15.0	25.5	9.0	32
20512-16-16	25	1"	-16	1"-11	19.8	27.3	10.5	38
20512-20-20	31	1.1/4"	-20	1.1/4"-11	26.0	35.8	11.0	50
20512-24-24	38	1.1/2"	-24	1.1/2"-11	32.0	36.7	13.5	55
20512-32-32	51	1.1/2"	-32	2"-11	42.0	36.5	16.0	70

45° BSP female thread sweep
elbow 60° cone (with thrust wire nut)



45° BSP female thread sweep
elbow 60° cone (with sliding sleeve nut)



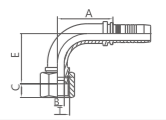
Features

Structural type: For braided hose
Structure form: 45° connector core
Connection type: Threaded connection
Sealing form: Angle seal

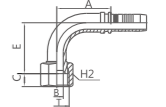
Standard: BS5200/ISO8434-6
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H1
20542-03-02	5	3/16"	-03	1/8"-28	3.1	31.0	4.4	15.0	14
20543-03-04	5	3/16"	-03	1/4"-19	4.0	35.5	5.4	14.5	19
20542-04-02	6	1/4"	-04	1/8"-28	3.1	35.5	4.4	14.5	14
20543-04-04	6	1/4"	-04	1/4"-19	4.0	36.0	5.4	15.0	19
20543-04-06	6	1/4"	-04	3/8"-19	7.0	37.5	6.0	16.0	19
20542-05-04	8	5/16"	-05	1/4"-14	4.0	35.5	5.4	16.0	19
20543-05-06	8	5/16"	-05	3/8"-19	7.0	38.0	6.0	13.5	22
20543-06-06	10	3/8"	-05	3/8"-14	7.0	42.0	6.0	15.0	22
20543-06-08	10	3/8"	-06	1/2"-14	9.3	42.5	6.5	16.0	27
20542-08-06	12	1/2"	-08	3/8"-19	7.1	52.0	6.0	20.0	22
20543-08-08	12	1/2"	-08	1/2"-14	9.3	49.5	6.5	17.0	27
20542-08-10	12	1/2"	-08	5/8"-14	12.1	54.5	10.2	22.5	28
20542-08-12	12	1/2"	-08	3/4"-14	15.0	57.0	9.0	25.0	32
20542-10-10	16	5/8"	-10	5/8"-14	12.5	63.0	10.2	26.0	28
20542-10-12	16	5/8"	-10	3/4"-14	15.0	64.0	9.0	27.0	32
20542-12-08	19	3/4"	-12	1/2"-14	9.3	55.5	6.5	22.5	27
20542-12-12	19	3/4"	-12	3/4"-14	15.5	70.5	9.0	28.5	32
20542-12-16	19	3/4"	-12	1"-14	19.8	72.5	10.5	30.0	38
20542-16-16	25	1"	-16	1"-14	19.8	91.0	10.5	36.5	38
20542-20-20	32	1 1/4"	-20	1.1/4"-11	26.0	112.9	11.0	37.9	50
20542-24-24	38	1 1/2"	-24	1.1/2"-11	32.0	131.0	14.0	45.5	55
20542-32-32	51	2"	-32	2"-11	42.0	154.7	16.0	52.7	70

90° BSP female thread sweep
elbow 60° cone (with thrust wire nut)



90° BSP female thread sweep
elbow 60° cone (with sliding sleeve nut)



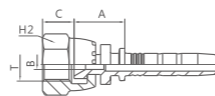
Features

Structural type: For braided hose
Structure form: 90° connector core
Connection type: Threaded connection
Sealing form: Angle seal

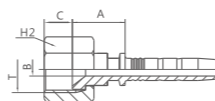
Standard: BS5200/ISO8434-6
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
20592-03-02	5	3/16"	-03	1/8"-28	3.1	21.5	4.4	26.0	14
20593-03-04	5	3/16"	-03	1/4"-19	4.0	29.0	5.4	29.0	19
20592-04-02	6	1/4"	-04	1/8"-28	3.1	28.5	4.4	27.0	14
20593-04-04	6	1/4"	-04	1/4"-19	4.0	29.5	5.4	29.0	19
20593-04-06	6	1/4"	-04	3/8"-19	7.0	29.5	6.0	31.0	22
20592-05-04	8	5/16"	-05	1/4"-14	4.0	26.5	5.4	29.5	19
20593-05-06	8	5/16"	-05	3/8"-19	7.0	32.0	6.0	27.5	22
20593-05-08	8	5/16"	-05	1/2"-14	9.3	36.5	6.5	32.0	27
20592-06-04	10	3/8"	-06	1/4"-19	4.0	27.0	4.2	29.5	19
20593-06-26	10	3/8"	-06	3/8"-19	7.0	36.5	6.0	31.5	22
20593-06-08	10	3/8"	-06	1/2"-14	9.3	36.5	6.5	32.0	27
20592-08-06	12	1/2"	-08	3/8"-19	7.0	45.0	6.0	41.0	22
20593-08-08	12	1/2"	-08	1/2"-14	9.3	45.0	6.5	36.5	27
20592-08-10	12	1/2"	-08	5/8"-14	12.1	44.0	10.2	44.0	28
20592-08-12	12	1/2"	-08	3/4"-14	15.0	44.0	9.0	45.5	32
20592-10-08	16	5/8"	-10	1/2"-14	9.3	53.5	6.5	54.5	27
20592-10-10	16	5/8"	-10	5/8"-14	12.5	53.5	10.2	53.5	28
20592-10-12	16	5/8"	-10	3/4"-14	15.0	53.5	9.0	55.0	32
20592-12-08	19	3/4"	-12	1/2"-14	9.3	45.5	6.5	44.0	27
20592-12-12	19	3/4"	-12	3/4"-11	15.5	61.5	9.0	59.5	32
20592-12-16	19	3/4"	-12	1"-11	19.8	61.5	10.5	62.0	38
20592-16-12	25	1"	-16	3/4"-14	15.0	64.5	9.0	59.5	32
20592-16-16	25	1"	-16	1"-11	19.8	79.5	10.5	76.0	38
20592-20-20	31	1.1/4"	-20	1.1/4"-11	26.0	105.8	11.0	88.3	50
20592-24-24	38	1.1/2"	-24	1.1/2"-11	32.0	124.0	13.5	103.0	55
20592-32-32	51	2"	-32	2"-11	42.0	148.8	16.0	123.3	70

Metric female thread 74° inner cone (crimp nut)



Metric female thread 74° inner cone (sleeve nut)



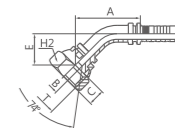
Features

Structural type: For braided hose
 Structure form: Straight connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

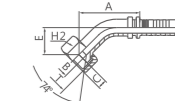
Standard: GB9065.1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H2
21413-04-14	6	1/4"	-04	M14x1.5	4.0	16.0	8.5	17
21412-05-14	8	5/16"	-05	M14x1.5	5.4	16.5	8.0	19
21413-05-16	8	5/16"	-05	M16x1.5	5.4	16.5	8.0	19
21413-05-18	8	5/16"	-05	M18x1.5	5.4	16.5	8.0	22
21413-06-16	10	3/8"	-06	M16x1.5	7.0	17.5	8.0	19
21413-06-18	10	3/8"	-06	M18x1.5	7.0	17.5	8.0	22
21413-06-20	10	3/8"	-06	M20x1.5	7.0	17.5	10.0	24
21413-08-20	12	1/2"	-08	M20x1.5	9.6	20.5	10.0	24
21413-08-22	12	1/2"	-08	M22x1.5	9.6	18.5	10.0	27
21413-08-24	12	1/2"	-10	M24x1.5	9.6	18.5	11.0	30
21413-10-24	16	5/8"	-10	M24x1.5	12.5	19.5	11.0	30
21413-10-27	16	5/8"	-10	M27x1.5	12.5	19.5	10.0	32
21413-10-30	16	5/8"	-10	M30x1.5	12.5	18.5	11.0	36
21413-12-30	19	3/4"	-12	M30x1.5	15.0	20.5	11.0	36
21413-12-33	19	3/4"	-12	M33x1.5	15.0	20.5	13.0	41
21413-16-36	25	1"	-16	M36x2	19.8	20.5	13.0	41
21413-16-39	25	1"	-16	M39x2	19.8	21.5	13.0	46
21413-16-42	25	1"	-16	M42x2	19.8	23.5	14.0	50
21413-20-42	31	1.1/4"	-20	M42x2	26.0	24.5	14.0	50
21413-20-45	31	1.1/4"	-20	M45x2	26.0	25.0	15.0	55
21413-24-52	38	1.1/2"	-24	M52x2	32.0	25.0	17.0	60
21413-32-64	51	2"	-32	M64x2	40.0	26.0	23.0	75

45° Metric female thread 74° inner cone (crimp nut)



45° Metric female thread 74° inner cone (sleeve nut)



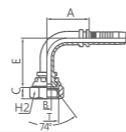
Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

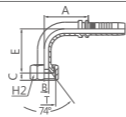
Standard: GB9065.1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
21443-04-14	6	1/4"	-04	M14x1.5	4.0	38.0	8.5	18.0	17
21442-05-14	8	5/16"	-05	M14x1.5	5.5	41.5	8.5	20.0	17
21443-05-16	8	5/16"	-05	M16x1.5	5.5	41.5	8.0	20.0	19
21443-05-18	8	5/16"	-05	M18x1.5	5.5	41.5	8.0	25.0	22
21442-06-16	10	3/8"	-06	M16x1.5	7.0	43.5	8.0	22.0	19
21443-06-18	10	3/8"	-06	M18x1.5	7.0	43.5	8.0	25.0	22
21443-06-20	10	3/8"	-06	M20x1.5	7.0	43.5	10.0	26.0	24
21442-08-20	12	1/2"	-08	M20x1.5	9.6	52.0	10.0	26.0	24
21443-08-22	12	1/2"	-08	M22x1.5	9.6	52.0	10.0	26.0	27
21443-08-24	12	1/2"	-08	M24x1.5	9.6	52.0	11.0	28.0	30
21443-10-22	16	5/8"	-10	M22x1.5	12.0	62.0	10.0	26.0	27
21443-10-27	16	5/8"	-10	M27x1.5	12.0	62.0	10.0	29.0	32
21443-12-30	19	3/4"	-12	M30x1.5	14.5	71.0	11.0	30.0	36
21443-12-33	19	3/4"	-12	M33x2	14.5	71.0	13.0	35.0	41
21443-16-36	25	1"	-16	M36x2	19.8	85.5	13.0	35.0	41
21443-16-39	25	1"	-16	M39x2	19.8	85.5	13.0	35.0	46
21443-16-42	25	1"	-16	M42x2	19.8	85.5	14.0	40.0	50
21442-20-42	31	1.1/4"	-20	M42x2	26.0	100	14.0	40.0	50
21443-20-45	31	1.1/4"	-20	M45x2	26.0	100	15.0	40.0	55

90° Metric female thread 74° inner cone (crimp nut)



90° Metric female thread 74° inner cone (sleeve nut)



Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: GB9065.1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

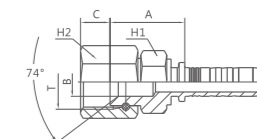
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
21493-04-14	6	1/4"	-04	M14x1.5	4.0	29.5	8.5	32.0	17
21492-05-14	8	5/16"	-05	M14x1.5	5.4	33.0	8.5	32.0	17
21493-05-16	8	5/16"	-05	M16x1.5	5.4	33.0	8.0	37.0	19
21493-05-18	8	5/16"	-05	M18x1.5	5.4	36.5	8.0	42.0	22
21492-06-16	10	3/8"	-06	M16x1.5	7.0	36.5	8.0	37.0	19
21492-06-18	10	3/8"	-06	M18x1.5	7.0	36.5	8.0	42.0	22
21493-06-20	10	3/8"	-06	M20x1.5	7.0	36.5	10.0	47.0	24
21493-08-20	12	1/2"	-08	M20x1.5	9.6	45.0	10.0	48.0	24
21493-08-22	12	1/2"	-08	M22x1.5	9.6	45.0	10.0	48.0	27
21493-08-24	12	1/2"	-08	M24x1.5	9.6	45.0	11.0	60.0	30
21493-10-22	16	5/8"	-10	M22x1.5	12.0	51.5	10.0	52.0	27
21493-10-24	16	5/8"	-10	M24x1.5	12.0	51.5	11.0	60.0	30
21493-10-27	16	5/8"	-10	M27x1.5	12.0	51.5	10.0	60.0	32
21493-12-30	19	3/4"	-12	M30x1.5	14.5	54.5	11.0	55.0	36
21493-12-33	19	3/4"	-12	M33x2	14.5	54.5	13.0	68.0	41
21493-12-36	19	3/4"	-12	M36x2	14.5	61.5	13.0	80.0	41
21493-16-33	25	1"	-16	M33x2	19.8	76.5	13.0	80.0	41
21493-16-36	25	1"	-16	M36x2	19.8	76.5	13.0	80.0	41
21493-16-39	25	1"	-16	M39x2	19.8	76.5	13.0	80.0	46
21493-16-42	25	1"	-16	M42x2	19.8	76.5	14.0	95.0	50
21492-20-42	31	1.1/4"	-20	M42x2	26.0	93.5	14.0	95.0	50
21493-20-45	31	1.1/4"	-20	M45x2	26.0	93.5	15.0	110.0	55

JIC female thread 37° conical base double hex (compact nut with thrust wire)

Features

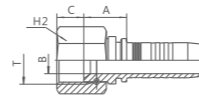
Structural type: For braided hose
 Structure form: Straight connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO 12151-5
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc

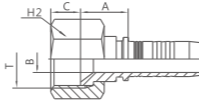


Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H1	H2
22712-03-04	5	3/16"	-03	7/16"-20	4.0	20.5	8.2	12	17
22712-04-04	6	1/4"	-04	7/16"-20	4.0	21.0	8.2	12	17
22712-04-05	6	1/4"	-04	1/2"-20	4.0	21.5	9.2	12	17
22712-04-06	6	1/4"	-04	9/16"-18	7.0	24.1	9.2	14	19
22712-05-05	8	5/16"	-05	1/2"-20	5.5	21.5	9.2	14	17
22712-05-06	8	5/16"	-05	9/16"-18	7.0	24.1	9.2	14	19
22712-05-08	8	5/16"	-05	3/4"-16	9.3	26.0	10.6	19	22
22712-06-04	10	3/8"	-06	7/16"-20	4.0	24.5	8.2	17	17
22712-06-05	10	3/8"	-06	1/2"-20	5.5	25.0	9.2	17	17
22712-06-06	10	3/8"	-06	9/16"-18	7.0	24.6	9.2	17	19
22712-06-08	10	3/8"	-06	3/4"-16	9.3	27.1	10.2	19	22
22712-06-10	10	3/8"	-06	7/8"-14	12.5	28.0	12.3	22	27
22712-08-06	12	1/2"	-08	9/16"-18	7.0	24.7	9.2	19	19
22712-08-08	12	1/2"	-08	3/4"-16	9.3	27.4	10.2	19	22
22712-08-10	12	1/2"	-08	7/8"-14	12.5	28.4	12.3	22	27
22712-08-12	12	1/2"	-08	1.1/16"-12	14.0	30.0	14.2	27	32
22712-10-08	16	5/8"	-10	3/4"-16	9.3	28.5	10.2	22	22
22712-10-10	16	5/8"	-10	7/8"-14	12.5	29.0	12.3	22	27
22712-10-12	16	5/8"	-10	1.1/16"-12	15.0	29.5	14.2	27	32
22712-12-08	19	3/4"	-12	3/4"-16	9.3	30.0	10.2	27	22
22712-12-10	19	3/4"	-12	7/8"-14	12.5	30.0	12.3	27	27
22712-12-12	19	3/4"	-12	1.1/16"-12	15.0	31.5	14.2	27	32
22712-12-14	19	3/4"	-12	1.3/16"-12	15.0	33.0	14.8	30	36
22712-12-16	19	3/4"	-12	1.5/16"-12	19.8	32.5	15.2	32	38
22712-16-12	25	1"	-16	1.1/16"-12	12.5	33.8	14.2	32	32
22712-16-16	25	1"	-16	1.5/16"-12	19.8	34.3	15.2	32	38
22712-16-20	25	1"	-16	1.5/8"-12	26.0	42.8	16.2	41	50
22712-20-16	31	1.1/4"	-20	1.5/16"-12	19.8	36.0	15.2	38	38
22712-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	43.5	16.2	51	50
22712-24-24	38	1.1/2"	-24	1.7/8"-12	32.0	51.0	18.8	50	60
22712-32-32	51	2"	-32	2.1/2"-12	42.0	55.5	24.0	65	75

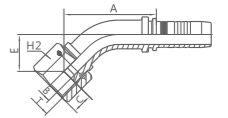
JIC female thread 37° conical base (with thrust wire nut)



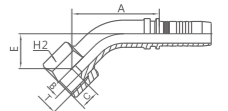
JIC female thread 37° conical base (with sliding sleeve nut)



JIC female thread 37° conical base (with thrust wire nut)



JIC female thread 37° conical base (with sliding sleeve nut)



Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO12151-5
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Features

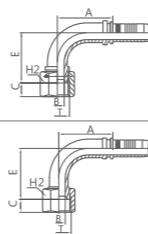
Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO12151-5
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H2
22513-03-04	5	3/16"	-03	7/16"-20	3.0	15.1	9.0	15
22512-03-05	5	3/16"	-03	1/2"-20	4.0	15.5	9.2	17
22512-04-04	6	1/4"	-04	7/16"-20	4.0	15.5	8.2	17
22512-04-05	6	1/4"	-04	1/2"-20	4.0	15.8	9.2	17
22513-04-06	6	1/4"	-04	9/16"-18	4.0	16.5	9.8	19
22512-05-04	8	5/16"	-05	7/16"-20	4.0	15.5	8.2	17
22512-05-05	8	5/16"	-05	1/2"-20	5.5	16.0	9.2	17
22512-05-06	8	5/16"	-05	9/16"-18	7.0	15.7	9.7	19
22513-05-08	8	5/16"	-05	3/4"-16	5.5	16.7	10.7	22
22512-06-05	10	3/8"	-06	1/2"-20	5.5	16.6	9.5	17
22512-06-06	10	3/8"	-06	9/16"-18	7.0	16.1	9.2	19
22513-06-08	10	3/8"	-06	3/4"-16	7.0	17.3	10.7	22
22513-06-10	10	3/8"	-06	7/8"-14	9.3	18.1	12.4	27
22512-08-08	12	1/2"	-08	3/4"-16	9.3	19.9	10.2	22
22513-08-10	12	1/2"	-08	7/8"-14	9.3	18.5	12.4	27
22513-08-12	12	1/2"	-08	1.1/16"-12	12.5	21.8	13.8	32
22512-10-10	16	5/8"	-10	7/8"-14	12.5	19.9	12.3	27
22513-10-12	16	5/8"	-10	1.1/16"-12	12.5	21.7	13.8	32
22512-12-08	19	3/4"	-12	3/4"-16	9.3	21.5	10.2	22
22512-12-10	19	3/4"	-12	7/8"-14	12.5	21.5	12.3	27
22512-12-12	19	3/4"	-12	1.1/16"-12	15.0	22.5	14.2	32
22512-12-14	19	3/4"	-12	1.3/16"-12	15.0	23.1	14.8	36
22512-12-16	19	3/4"	-12	1.5/16"-12	19.8	23.0	15.2	38
22512-16-12	25	1"	-16	1.1/16"-12	15.0	23.3	14.4	32
22512-16-16	25	1"	-16	1.5/16"-12	19.8	23.8	15.2	38
22512-16-20	25	1"	-16	1.5/8"-12	26.0	29.8	16.2	50
22512-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	30.0	16.2	50
22512-20-24	31	1.1/4"	-20	1.7/8"-12	32.0	35.0	18.8	60
22512-24-24	38	1.1/2"	-24	1.7/8"-12	32.0	35.0	18.8	60
22512-32-24	51	2"	-32	1.7/8"-12	32.0	37.0	18.8	60
22512-32-32	51	2"	-32	2.1/2"-12	44.0	35.4	24.0	75

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
22542-03-04	5	3/16"	-03	7/16"-20	4.0	35.0	8.2	14.5	17
22542-04-04	6	1/4"	-04	7/16"-20	4.0	35.5	8.2	14.5	17
22542-04-05	6	1/4"	-04	1/2"-20	4.0	35.7	9.2	14.5	17
22543-04-06	6	1/4"	-04	9/16"-18	4.0	35.5	9.8	14.0	19
22542-05-05	8	5/16"	-05	1/2"-20	5.5	37.5	9.2	14.5	17
22542-05-06	8	5/16"	-05	9/16"-18	7.0	38.0	9.2	14.5	19
22542-06-05	10	3/8"	-06	1/2"-20	5.5	44.6	9.2	20.3	17
22542-06-06	10	3/8"	-06	9/16"-18	7.0	42.0	9.2	16.5	19
22543-06-08	10	3/8"	-06	3/4"-16	7.0	41.0	10.7	14.0	22
22543-06-10	10	3/8"	-06	7/8"-14	9.3	42.5	12.4	15.5	27
22542-08-06	12	1/2"	-08	9/16"-18	7.0	56.8	10.5	21.9	19
22542-08-08	12	1/2"	-08	3/4"-16	9.3	52.0	10.2	20.0	22
22543-08-10	12	1/2"	-08	7/8"-14	9.3	49.5	12.4	17.0	27
22543-08-12	12	1/2"	-08	1.1/16"-12	12.5	50.0	13.8	17.0	32
22542-10-10	16	5/8"	-10	7/8"-14	12.5	62.0	12.3	25.5	27
22543-10-12	16	5/8"	-10	1.1/16"-12	12.5	60.0	13.8	24.0	32
22542-12-12	19	3/4"	-12	1.1/16"-12	15.0	70.0	14.2	27.5	32
22542-12-14	19	3/4"	-12	1.3/16"-12	15.0	69.0	14.8	27.5	36
22542-12-16	19	3/4"	-12	1.5/16"-12	19.8	70.0	15.2	27.5	38
22542-16-12	25	1"	-16	1.1/16"-12	15.0	72.5	14.2	27.5	32
22542-16-16	25	1"	-16	1.5/16"-12	19.8	86.0	15.2	32.0	38
22542-16-20	25	1"	-16	1.5/8"-12	26.0	90.0	16.2	36.0	50
22542-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	103.5	16.2	41.5	50
22542-20-24	31	1.1/4"	-20	1.7/8"-12	32.0	106.5	18.8	44.5	60
22542-24-24	38	1.1/2"	-24	1.7/8"-12	32.0	119.0	18.8	46.5	60
22542-32-32	51	2"	-32	2.1/2"-12	44.0	163.0	24.0	68.0	75

JIC female thread 37° conical base (with thrust wire nut)



JIC female thread 37° conical base (with sliding sleeve nut)

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO12151-5
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

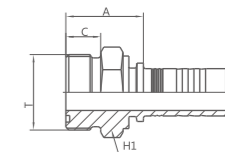
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H1
22593-03-04	5	3/16"	-03	7/16"-20	3.0	26.0	9.0	23.5	15
22593-04-04	6	1/4"	-04	7/16"-20	4.0	28.5	8.2	27.0	17
22592-04-05	6	1/4"	-04	1/2"-20	4.0	28.5	9.2	27.5	17
22593-04-06	6	1/4"	-04	9/16"-18	4.0	29.5	9.8	28.0	19
22593-04-08	6	1/4"	-04	3/4"-16	7.0	29.3	11.0	30.5	22
22592-05-05	8	5/16"	-05	1/2"-20	5.5	29.5	9.2	27.5	17
22592-05-06	8	5/16"	-05	9/16"-18	7.0	31.0	9.2	28.5	19
22592-06-05	10	3/8"	-06	1/2"-20	5.5	30.1	9.5	26.5	17
22592-06-06	10	3/8"	-06	9/16"-16	7.0	35.5	9.2	32.5	19
22593-06-08	10	3/8"	-06	3/4"-16	7.0	36.5	10.7	29.5	22
22593-06-10	10	3/8"	-06	7/8"-14	9.3	36.5	12.4	31.5	27
22592-08-06	12	1/2"	-08	9/16"-16	7.0	37.0	9.2	33.0	19
22592-08-08	12	1/2"	-08	3/4"-16	9.3	44.0	10.2	41.0	22
22593-08-10	12	1/2"	-08	7/8"-14	9.3	45.0	12.4	36.0	27
22593-08-12	12	1/2"	-08	1.1/16"-12	12.5	45.0	13.8	36.0	32
22592-10-10	16	5/8"	-10	7/8"-14	12.5	53.5	12.3	52.5	27
22593-10-12	16	5/8"	-10	1.1/16"-12	12.5	51.5	13.8	50.0	32
22592-12-10	19	3/4"	-12	7/8"-14	12.5	55.0	12.3	52.5	27
22592-12-12	19	3/4"	-12	1.1/16"-12	15.0	62.0	14.2	58.0	32
22592-12-14	19	3/4"	-12	1.3/16"-12	15.0	62.0	14.8	58.0	36
22592-12-16	19	3/4"	-11	1.5/16"-12	19.8	62.0	15.2	57.5	38
22592-16-16	25	1"	-16	1.5/16"-12	19.8	77.0	15.2	67.0	38
22592-16-20	25	1"	-16	1.5/8"-12	26.0	77.5	16.2	74.5	50
22592-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	90.5	16.2	86.5	50
22592-20-24	31	1.1/4"	-20	1.7/8"-12	32.0	90.5	18.8	91.0	60
22592-24-24	38	1.1/2"	-24	1.7/8"-12	32.0	108.0	18.8	100.5	60
22592-32-32	51	2"	-32	2.1/2"-12	44.0	142.0	24.0	137.0	75

Metric male thread plane O-ring seal

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: O-Ring seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc

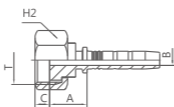


Drawing No	DN	Inch	Size	T	Size		
					B	A	H1
10110-04-12	6	1/4"	-04	M12X1.25	22.5	10	14
10110-04-14	6	1/4"	-04	M14X1.5	23.5	11	17
10110-04-16	6	1/4"	-04	M16X1.5	23.5	11	17
10110-05-16	8	5/16"	-04	M16X1.5	23.5	11	17
10110-06-16	10	3/8"	-06	M16X1.5	23.5	11	17
10110-06-18	10	3/8"	-06	M18X1.5	23.5	11	19
10110-05-22	8	5/16"	-05	M22X1.5	27	12	22
10110-06-22	10	3/8"	-06	M22X1.5	26	12	22
10110-08-22	12	1/2"	-08	M22X1.5	26.5	12	22
10110-10-27	16	5/8"	-10	M27X1.5	31.5	13	27
10110-12-30	20	3/4"	-12	M30X1.5	33.5	14	32
10110-12-36	20	3/4"	-12	M36X2	35.5	16	38
10110-14-36	22	7/8"	-14	M36X2	35.5	16	38
10110-16-39	25	1"	-16	M39X2	39	16	41
10110-20-45	32	1.1/4"	-20	M45X2	44.5	20	46
10110-24-52	40	1.1/2"	-24	M52X2	47.5	22	55
10110-32-64	50	2"	-32	M64X2	52.5	27	65

Metric female thread plane (crimp nut)



Metric female thread plane (sleeve nut)

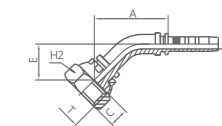


Features

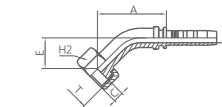
Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Flat seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H2
20213-04-14	6	1/4"	-04	M14X1.5	4	16	8.5	17
20211-05-14	8	5/16"	-05	M14X1.5	5.4	17	8	17
20213-05-16	8	5/16"	-05	M16X1.5	5.4	17	8	19
20211-06-16	10	3/8"	-06	M16X1.5	7	17.5	8	19
20213-06-18	10	3/8"	-06	M18X1.5	7	16.8	8	22
20213-08-22	12	1/2"	-08	M22X1.5	9.6	18	10	27
20213-08-27	12	1/2"	-08	M27X1.5	9.6	19	10	32
20213-10-27	16	5/8"	-10	M27X1.5	12	20	10	32
20213-10-30	16	5/8"	-10	M30X1.5	12	20	11	36
20213-12-30	19	3/4"	-12	M30X1.5	14.8	20	11	36
20213-12-30L	19	3/4"	-12	M30X2	14.8	20	15	36
20213-12-36	19	3/4"	-12	M36X2	14.8	23.7	12	41
20213-16-36	25	1"	-16	M36X2	19.8	24	12	41
20213-16-39	25	1"	-16	M39X2	19.8	24	13	46
20213-20-45	31	1.1/4"	-20	M45X2	26	29	15	55
20213-24-52	38	1.1/2"	-24	M52X2	32	28	17	60



45° Metric female thread plane (crimp nut)



45° Metric female thread plane (sleeve nut)

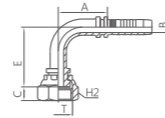
Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Flat seal

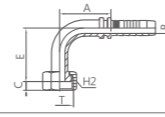
Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
20243-04-14	6	1/4"	-04	M14X1.5	4	38	8.5	18	17
20242-05-14	8	5/16"	-05	M14X1.5	5.4	41.5	8.5	20	17
20243-05-16	8	5/16"	-05	M16X1.5	5.4	41.5	8	20	19
20242-06-16	10	3/8"	-06	M16X1.5	7	43.5	8	22	19
20243-06-18	10	3/8"	-06	M18X1.5	7	43.5	8	25	22
20243-08-20	12	1/2"	-08	M20X1.5	9.6	52	10	26	24
20243-08-22	12	1/2"	-08	M22X1.5	9.6	52	10	26	27
20243-08-27	12	1/2"	-08	M27X1.5	9.6	52	11	29	32
20242-10-22	16	5/8"	-10	M22X1.5	12	62	10	26	27
20243-10-27	16	5/8"	-10	M27X1.5	12	62	10	29	32
20243-10-30	16	5/8"	-10	M30X1.5	12	62	11	30	36
20243-12-30	19	3/4"	-12	M30X1.5	14.8	65	11	30	36
20243-12-36	19	3/4"	-12	M36X2	14.8	71	13	35	41
20243-16-36	25	1"	-16	M36X2	19.8	85.5	13	35	41
20243-16-39	25	1"	-16	M39X2	19.8	85.5	13	35	46
20243-16-42	25	1"	-16	M42X2	19.8	85.5	14	40	50
20243-20-42	31	1.1/4"	-20	M42X2	26	100	14	40	50
20243-20-45	31	1.1/4"	-20	M45X2	26	100	15	40	50

90° Metric female thread plane (crimp nut)



90° Metric female thread plane (sleeve nut)



Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Flat seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

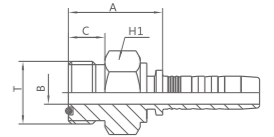
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
20293-04-14	6	1/4"	-04	M14X1.5	4	29.5	8.5	32	17
20291-05-14	8	5/16"	-05	M14X1.5	5.4	33	8.5	32	17
20293-05-16	8	5/16"	-05	M16X1.5	5.4	33	8	37	19
20293-05-18	8	5/16"	-05	M18X1.5	5.4	33	8	42	22
20293-06-16	10	3/8"	-06	M16X1.5	7	36.5	8	37	19
20293-06-18	10	3/8"	-06	M18X1.5	7	36.5	8	40	22
20293-06-22	10	3/8"	-06	M22X1.5	7	43.5	10	43	27
20293-08-20	12	1/2"	-08	M20X1.5	9.6	45	10	48	24
20293-08-22	12	1/2"	-08	M22X1.5	9.6	45	10	43	27
20293-08-24	12	1/2"	-08	M24X1.5	9.6	45	11	60	30
20293-10-24	16	5/8"	-10	M24X1.5	12	51.5	10	60	30
20293-10-27	16	5/8"	-10	M27X1.5	12	51.5	10	50	32
20293-10-30	16	5/8"	-10	M30X1.5	12	51.5	11	68	36
20293-12-30	19	3/4"	-12	M30X1.5	14.8	56.5	11	68	36
20293-12-30L	19	3/4"	-12	M30X2	14.8	56.5	15	68	36
20293-16-36	25	1"	-16	M36X2	19.8	76.5	12	80	41
20293-16-39	25	1"	-16	M39X2	19.8	76.5	13	80	46
20293-16-42	25	1"	-16	M42X2	19.8	76.5	14	80	50
20293-20-42	31	1.1/4"	-20	M42X2	26	93.5	14	93.5	50
20293-20-45	38	1.1/2"	-24	M45X2	26	93.5	15	90	55

American SAE male thread with "O" ring

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: O-Ring seal

Standard: ISO 8434-3-2005
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



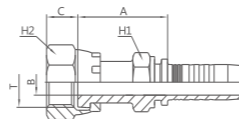
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
12410-04-04	6	1/4"	-04	9/16"-18	4.0	24.0	10.0	16
12410-04-06	6	1/4"	-04	11/16"-18	6.7	26.6	10.0	19
12410-05-06	8	5/16"	-05	11/16"-16	6.7	27.0	11.0	19
12410-06-06	10	3/8"	-06	11/16"-16	6.7	27.6	11.0	19
12410-06-08	10	3/8"	-06	13/16"-16	9.3	30.0	13.0	22
12410-08-08	12	1/2"	-08	13/16"-16	9.3	30.6	13.0	22
12410-08-10	12	1/2"	-08	1"-14	12.5	35.0	15.5	27
12410-08-12	12	1/2"	-08	1.3/16"-12	15.0	37.5	17.0	32
12410-10-08	16	5/8"	-10	13/16"-16	9.3	30.5	13.0	22
12410-10-10	16	5/8"	-10	1"-14	12.5	34.7	15.5	27
12410-10-12	16	5/8"	-10	1.3/16"-12	15.0	37.5	17.0	32
12410-12-12	19	3/4"	-12	1.3/16"-12	15.0	39.0	17.0	32
12410-12-16	19	3/4"	-12	1.7/16"-12	19.8	40.5	17.5	38
12410-16-16	25	1"	-16	1.7/16"-12	19.8	41.8	17.5	38
12410-16-20	25	1"	-16	1.11/16"-12	26.0	44.0	17.5	46
12410-20-20	31	1.1/4"	-20	1.11/16"-12	26.0	46.3	17.5	46
12410-24-24	38	1.1/2"	-24	2"-12	32.0	48.6	17.5	55

ORFS female thread-pull back (with buckle-support nut)

Features

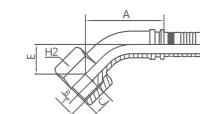
Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO12151-1
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc

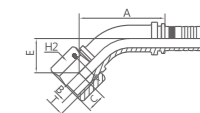


Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H1	H2
22411-04-04	6	1/4"	-04	9/16"-18	4.0	27.5	8.0	13	19
22411-04-06	6	1/4"	-04	11/16"-16	7.0	30.0	9.5	16	22
22411-04-08	6	1/4"	-04	13/16"-16	9.3	34.5	11.0	19	24
22411-05-04	8	5/16"	-05	9/16"-18	4.0	28.5	8.0	16	19
22411-05-06	8	5/16"	-05	11/16"-16	7.0	30.5	9.5	16	22
22411-06-04	10	3/8"	-06	9/16"-18	4.0	29.0	8.0	16	19
22411-06-06	10	3/8"	-06	11/16"-16	7.0	31.1	9.5	16	22
22411-06-08	10	3/8"	-06	13/16"-16	9.3	35.6	11.0	19	24
22411-08-06	12	1/2"	-08	11/16"-16	7.0	31.9	9.5	19	22
22411-08-08	12	1/2"	-08	13/16"-16	9.3	35.9	11.0	19	24
22411-08-10	12	1/2"	-08	1"-14	11.5	38.4	13.5	24	30
22411-08-12	12	1/2"	-08	1"-14	13.9	41.9	14.5	28	36
22411-10-08	16	5/8"	-10	13/16"-16	9.3	36.0	11.0	24	24
22411-10-10	16	5/8"	-10	1"-14	11.5	38.7	13.5	24	30
22411-10-12	16	5/8"	-10	1.3/16"-12	13.9	42.0	14.5	28	36
22411-12-10	19	3/4"	-12	1"-14	11.5	41.0	13.5	28	30
22411-12-12	19	3/4"	-12	1.3/16"-12	13.9	43.5	14.5	28	36
22411-12-16	19	3/4"	-12	1.7/16"-12	19.8	45.5	15.0	36	41
22411-16-12	25	1"	-16	1.3/16"-12	13.9	45.8	14.5	36	36
22411-16-16	25	1"	-16	1.7/16"-12	19.8	46.3	15.0	36	41
22411-16-20	25	1"	-16	1.11/16"-12	26.0	49.5	14.8	41	50
22411-20-20	31	1.1/4"	-20	1.11/16"-12	26.0	49.0	14.8	41	50
22411-24-24	38	1.1/2"	-24	2"-12	32.0	54.0	15.8	50	60

JORFS female thread sweep elbow-(with thrust metal wire nut)



ORFS female thread sweep elbow-(with sliding sleeve nut)



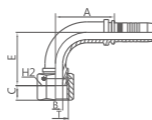
Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

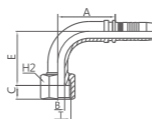
Standard: SAE J516/ISO12151-1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
22443-04-04	6	1/4"	-04	9/16"-18	4.0	31.0	8.2	10.5	17
22443-04-06	6	1/4"	-04	11/16"-16	7.0	31.0	9.5	10.5	22
22442-05-04	8	5/16"	-05	9/16"-18	4.0	47.6	8.2	24.3	19
22443-05-06	8	5/16"	-05	11/16"-16	7.0	34.0	9.5	10.5	22
22442-06-04	10	3/8"	-06	9/16"-18	4.0	39.5	8.2	17.4	22
22443-06-06	10	3/8"	-06	11/16"-18	7.0	32.5	9.5	11.0	22
22443-06-08	10	3/8"	-06	13/16"-16	7.0	34.0	11.0	12.5	24
22442-08-06	12	1/2"	-08	11/16"-18	9.3	33.0	9.5	11.0	22
22443-08-08	12	1/2"	-08	13/16"-16	11.5	42.0	11.0	13.0	24
22443-08-10	12	1/2"	-08	1"-14	13.9	42.0	13.5	13.5	30
22443-08-12	12	1/2"	-08	1.3/16"-12	9.3	46.5	14.5	18.5	36
22442-10-08	16	5/8"	-10	13/16"-16	11.5	76.5	11.0	31.7	27
22443-10-10	16	5/8"	-10	1"-14	13.9	49.0	13.5	16.0	30
22443-10-12	16	5/8"	-10	1.3/16"-12	11.5	51.5	14.5	18.5	36
22442-12-10	19	3/4"	-12	1"-14	13.9	50.5	13.5	16.5	30
22443-12-12	19	3/4"	-12	1.3/16"-12	19.8	60.5	14.5	21.5	36
22443-12-16	19	3/4"	-12	1.7/16"-12	13.9	61.0	14.8	21.0	41
22443-14-16	22	7/8"	-14	1.7/16"-12	19.8	78.7	14.8	28.5	41
22442-16-12	25	1"	-16	1.3/16"-12	26.0	66.0	14.5	21.0	36
22443-16-16	25	1"	-16	1.7/16"-12	26.0	72.0	14.8	23.5	41
22443-16-20	25	1"	-16	1.11/16"-12	32.0	74.0	14.8	25.2	50
22443-20-20	31	1.1/4"	-20	1.11/16"-12	26.0	82.0	14.8	27.0	50
21443-20-24	31	1.1/4"	-20	2"-12	32.0	94.5	14.8	33.8	60
22443-24-24	38	1.1/2"	-24	2"-12	32.0	98.0	14.8	31.5	60

ORFS female thread sweep elbow-(with thrust metal wire nut)



ORFS female thread sweep elbow-(with sliding sleeve nut)



Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO12151-1
 Material: Carbon steel / stainless steel
 Surface protection: Trivalent chromium environmental protection zinc

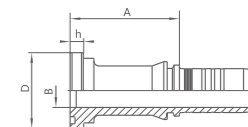
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
22493-04-04	6	1/4"	-04	9/16"-18	4.0	27.5	8.2	22.0	17
22493-04-06	6	1/4"	-04	11/16"-16	7.0	27.5	9.5	22.0	22
22492-05-04	8	5/16"	-05	9/16"-18	4.0	33.0	8.2	44.0	17
22493-05-06	8	5/16"	-05	11/16"-16	7.0	32.0	9.5	23.0	22
22492-06-04	10	3/8"	-06	9/16"-18	4.0	28.0	8.2	23.0	19
22493-06-06	10	3/8"	-06	11/16"-16	7.0	30.0	9.5	24.0	24
22493-06-08	10	3/8"	-06	13/16"-16	9.3	30.0	11.0	26.5	22
22492-08-06	12	1/2"	-08	11/16"-16	7.0	30.9	9.5	24.5	24
22493-08-08	12	1/2"	-08	13/16"-16	9.3	40.5	11.0	30.0	30
22493-08-10	12	1/2"	-08	1"-14	11.5	40.5	13.5	30.0	36
22493-08-12	12	1/2"	-08	1.3/16"-12	13.9	39.5	14.5	37.5	24
22492-10-08	16	5/8"	-10	13/16"-16	9.3	41.5	11.0	34.0	30
22493-10-10	16	5/8"	-10	1"-14	11.5	48.0	13.5	37.5	36
22493-10-12	16	5/8"	-10	1.3/16"-12	13.9	48.0	14.5	41.0	30
22492-12-10	19	3/4"	-12	1"-14	11.5	49.0	14.8	38.0	36
22493-12-12	19	3/4"	-12	1.3/16"-12	13.9	56.5	14.5	48.0	41
22493-12-16	19	3/4"	-12	1.7/16"-12	19.8	56.5	14.8	47.5	41
22492-14-16	22	7/8"	-14	1.7/16"-12	19.8	71.2	14.8	63.0	36
22492-16-12	25	1"	-16	1.3/16"-12	13.9	57.6	14.5	48.0	36
22493-16-16	25	1"	-16	1.7/16"-12	19.8	71.5	14.8	56.0	41
22493-16-20	25	1"	-16	1.11/16"-12	26.0	71.5	14.8	58.5	50
22493-20-20	31	1.1/4"	-20	1.11/16"-12	26.0	83.0	14.8	66.0	50
22493-20-24	31	1.1/4"	-20	2"-12	32.0	91.5	14.8	78.5	60
22493-24-24	38	1.1/2"	-24	2"-12	32.0	102.0	14.8	79.5	60

ISO / SAE CODE61 3000Psi flange

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



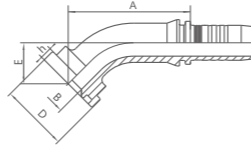
Drawing No	DN	Inch	Size	Flange type	Size			
					B	A	D	h
23311-08-08	12	1/2"	-08	1/2"	9.3	50.9	30.3	6.8
23311-08-12	12	1/2"	-08	3/4"	15.0	57.7	38.0	6.8
23311-10-08	16	5/8"	-10	3/4"	9.3	51.0	30.3	6.8
23311-10-12	16	5/8"	-10	3/4"	15.0	65.7	38.0	6.8
23311-12-12	19	3/4"	-12	3/4"	15.0	58.0	38.0	6.8
23311-12-16	19	3/4"	-12	1"	20.0	58.0	44.6	8.0
23311-12-20	19	3/4"	-12	1.1/4"	26.0	69.5	51.0	8.0
23311-16-12	25	1"	-16	3/4"	15.0	60.5	38.0	8.0
23311-16-16	25	1"	-16	1"	19.8	64.3	44.6	8.0
23311-16-20	25	1"	-16	1.1/4"	26.0	70.3	51.0	8.0
23311-20-16	31	1.1/4"	-20	1"	20.0	64.5	44.6	8.0
23311-20-20	31	1.1/4"	-20	1.1/4"	26.0	70.5	51.0	8.0
23311-20-24	31	1.1/4"	-20	1.1/2"	32.0	72.5	60.5	8.0
23311-24-24	38	1.1/2"	-24	1.1/2"	32.0	75.6	60.5	8.0
23311-24-32	38	1.1/2"	-24	2"	42.0	75.6	71.6	9.6
23311-32-32	51	2"	-32	2"	42.0	78.9	71.6	9.6
23311-32-40	51	2"	-32	2.1/2"	56.0	80.9	84.3	9.6
23311-38-40	60	2.3/8"	-38	2.1/2"	56.0	64.0	84.3	9.6
23311-40-32	63	2.1/2"	-40	2"	42.0	78.5	71.6	9.6
23311-40-40	63	2.1/2"	-40	2.1/2"	56.0	84.0	84.3	9.6
23311-40-48	63	2.1/2"	-40	3"	68.9	79.0	101.6	9.6
23311-40-56	63	2.1/2"	-40	3.1/2"	79.0	90.5	114.3	11.3
23311-40-64	63	2.1/2"	-40	4"	90.0	96.5	127.0	11.3
23311-48-48	76	3"	-48	3"	69.0	86.0	101.6	9.6
23311-56-56	90	3.1/2"	-56	3.1/2"	79.0	94.5	114.3	11.3
23311-64-64	102	4"	-64	4"	90.0	100.5	127.0	11.3

ISO/SAE CODE61 3000Psi Flange

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



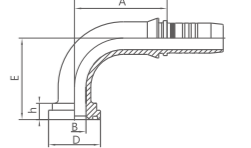
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
23341-06-08	10	3/8"	-06	1/2"	9.3	52.5	30.3	6.8	17.0
23341-08-08	12	1/2"	-08	1/2"	9.3	58.5	30.3	6.8	18.5
23341-08-12	12	1/2"	-08	3/4"	15.0	59.5	38.0	6.8	19.0
23341-08-16	12	1/2"	-08	1"	20.0	59.5	44.6	8.0	19.0
23341-10-12	16	5/8"	-10	3/4"	15.0	61.0	38.0	6.8	22.0
23341-12-12	19	3/4"	-12	3/4"	15.0	68.5	38.0	6.8	23.0
23341-12-16	19	3/4"	-12	1"	20.0	68.5	44.6	8.0	23.0
23341-16-12	25	1"	-16	3/4"	15.0	74.5	38.0	6.8	23.0
23341-16-16	25	1"	-16	1"	19.8	81.5	44.6	8.0	27.5
23341-16-20	25	1"	-16	1.1/4"	26.0	81.5	51.0	8.0	27.5
23341-20-16	31	1.1/4"	-20	1"	19.8	84.5	44.6	8.0	29.5
23341-20-20	31	1.1/4"	-20	1.1/4"	26.0	92.0	51.0	8.0	29.5
23341-20-24	31	1.1/4"	-20	1.1/2"	32.0	93.5	60.5	8.0	31.0
23341-24-24	38	1.1/2"	-24	1.1/2"	32.0	107.5	60.5	8.0	34.5
23341-24-32	38	1.1/2"	-24	2"	42.0	107.5	71.6	9.6	34.5
23341-32-32	51	2"	-32	2"	42.0	124.0	71.6	9.6	39.0
23341-32-40	51	2"	-32	2.1/2"	56.0	136.5	84.3	9.6	49.5
23341-40-32	63	2.1/2"	-40	2"	42.0	152.0	71.5	9.6	48.5
23341-40-40	63	2.1/2"	-40	2.1/2"	56.0	74.5	84.3	9.6	30.0
23341-40-48	63	2.1/2"	-40	3"	52.0	79.5	101.6	9.6	36.0
23341-48-48	76	3"	-48	3"	61.0	109.0	101.6	9.6	41.0
23341-56-56	90	3.1/2"	-56	3.1/2"	79.0	115.0	114.3	11.3	47.5
23341-56-64	90	3.1/2"	-56	4"	79.0	118.5	127.0	11.3	51.0
23341-64-64	102	4"	-64	4"	90.0	132.0	127.0	11.3	56.5

ISO/SAE CODE61 3000Psi Flange

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



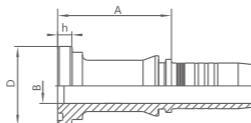
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
23391-06-08	10	3/8"	-06	1/2"	9.3	45.0	30.3	6.8	35.0
23391-06-0841	10	3/8"	-06	1/2"	9.3	45.0	30.3	6.8	41.0
23391-08-08	12	1/2"	-08	1/2"	9.3	54.5	30.3	6.8	40.0
23391-08-12	12	1/2"	-08	3/4"	15.0	54.5	38.0	6.8	41.0
23391-08-16	12	1/2"	-08	1"	20.0	54.5	44.6	8.0	66.0
23391-10-08	16	5/8"	-10	1/2"	9.3	56.0	30.3	6.8	46.5
23391-10-12	16	5/8"	-10	3/4"	15.0	56.0	38.0	6.8	47.5
23391-12-12	19	3/4"	-12	3/4"	15.0	64.5	38.0	6.8	52.0
23391-12-16	19	3/4"	-12	1"	20.0	64.5	44.6	8.0	52.0
23391-12-20	19	3/4"	-12	1.1/4"	26.0	64.5	51.0	8.0	52.0
23391-16-12	25	1"	-16	3/4"	20.0	76.7	38.0	6.8	67.5
23391-16-16	25	1"	-16	1"	19.8	77.5	44.6	8.0	62.0
23391-16-20	25	1"	-16	1.1/4"	26.0	77.5	51.0	8.0	62.0
23391-16-24	25	1"	-16	1.1/2"	32.0	77.5	60.5	8.0	64.0
23391-20-16	31	1.1/4"	-20	1"	20.0	80.0	44.6	8.0	66.0
23391-20-20	31	1.1/4"	-20	1.1/4"	26.0	90.5	51.0	8.0	70.0
23391-20-24	31	1.1/4"	-20	1.1/2"	32.0	90.5	60.5	8.0	72.0
23391-20-32	31	1.1/4"	-20	2"	42.0	93.5	71.6	9.6	76.0
23391-24-20	38	1.1/2"	-24	1.1/4"	26.0	104.5	51.0	8.0	75.0
23391-24-24	38	1.1/2"	-24	1.1/2"	32.0	108.0	60.5	8.0	84.0
23391-24-32	38	2"	-24	2"	42.0	108.0	71.6	9.6	84.0
23391-32-24	51	1.1/2"	-32	1.1/2"	32.0	133.0	60.5	8.0	84.0
23391-32-32	51	2"	-32	2"	42.0	129.0	71.6	9.6	99.0
23391-32-40	51	2.1/2"	-32	2.1/2"	56.0	132.5	84.3	9.6	116.0
23391-40-32	63	2.1/2"	-40	2"	42.0	149.5	71.6	9.6	114.0
23391-40-40	63	2"	-40	2.1/2"	52.0	88.5	84.3	9.6	88.0
23391-40-48	63	3"	-40	3"	52.0	88.5	101.6	9.6	95.0
23391-48-48	76	3"	-48	3"	61.0	124.0	101.6	9.6	115.0
23391-48-56	76	3.1/2"	-48	3.1/2"	61.0	124.0	114.3	11.3	115.0
23391-56-56	90	3.1/2"	-56	3.1/2"	79.0	134.5	114.3	11.3	134.5
23391-64-64	102	4"	-64	4"	90.0	153.5	127.0	11.3	158.5

ISO/SAE CODE62 6000Psi Flange

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



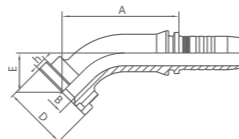
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
23611-08-08	12	1/2"	-08	1/2"	9.3	54.5	31.8	7.8	
23611-08-12	12	1/2"	-08	3/4"	15.0	54.5	41.5	8.8	
23611-10-08	16	5/8"	-10	3/4"	9.3	57.5	31.8	7.8	
23611-10-12	16	5/8"	-10	3/4"	15.3	56.0	41.5	8.8	
23611-10-16	19	5/8"	-10	3/4"	19.8	55.7	47.7	9.5	
23611-12-12	19	3/4"	-12	1"	15.0	64.0	41.5	8.8	
23611-12-16	19	3/4"	-12	1.1/4"	20.0	64.5	47.7	9.5	
23611-16-16	25	1"	-16	3/4"	19.8	73.5	47.7	9.5	
23611-16-20	25	1"	-16	1"	26.0	73.5	54.2	10.3	
23611-20-16	25	1.1/4"	-20	1.1/4"	20.0	82.5	47.7	9.5	
23611-20-20	31	1.1/4"	-20	1"	26.0	85.5	54.2	10.3	
23611-20-24	31	1.1/4"	-20	1.1/4"	32.0	85.5	63.7	12.6	
23611-24-24	38	1.1/2"	-24	1.1/2"	32.0	106.0	63.7	12.6	
23611-24-32	38	1.1/2"	-24	1.1/2"	42.0	106.0	79.6	12.6	
23611-32-32	51	2"	-32	1.1/2"	42.0	138.0	79.6	12.3	

ISO/SAE CODE62 6000Psi Flange

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



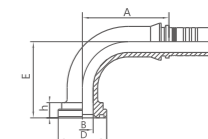
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
23641-08-08	12	1/2"	-08	1/2"	9.3	62.0	31.8	7.8	22.0
23641-08-12	12	1/2"	-08	3/4"	15.0	68.0	41.5	8.8	27.5
23641-10-08	16	5/8"	-10	1/2"	9.3	62.5	31.8	7.8	23.5
23641-10-12	16	5/8"	-10	3/4"	15.0	67.5	41.5	8.8	31.0
23641-12-08	19	3/4"	-12	1/2"	15.0	74.9	31.8	7.8	27.5
23641-12-12	19	3/4"	-12	3/4"	15.0	73.0	41.5	8.8	28.0
23641-12-16	19	3/4"	-12	1"	20.0	77.0	47.7	9.5	32.5
23641-16-12	25	1"	-16	3/4"	15.0	80.0	41.5	8.8	30.0
23641-16-16	25	1"	-16	1"	19.8	83.5	47.7	9.5	32.5
23641-16-20	25	1"	-16	1.1/4"	26.0	88.5	54.2	10.3	37.5
23641-20-20	31	1.1/4"	-20	1.1/4"	26.0	95.5	54.2	10.3	37.5
23641-20-24	31	1.1/4"	-20	1.1/2"	32.0	102.5	63.7	12.6	45.0
23641-24-24	38	1.1/2"	-24	1.1/2"	32.0	118.0	63.7	12.6	44.0
23641-24-32	38	1.1/2"	-24	2"	42.0	129.0	79.6	12.6	55.5
23641-32-32	51	2"	-32	2"	42.0	151.5	79.6	12.6	60.5

ISO/SAE CODE62 6000Psi Flange

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



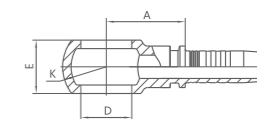
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
23691-08-08	12	1/2"	-08	1/2"	9.3	54.5	31.8	7.8	45.0
23691-08-12	12	1/2"	-08	3/4"	15.0	54.5	41.5	8.8	53.0
23691-10-08	16	5/8"	-10	1/2"	9.3	57.5	31.8	7.8	45.0
23691-10-12	16	5/8"	-10	3/4"	15.0	56.0	41.5	8.8	58.0
23691-10-16	16	5/8"	-10	1"	19.8	55.7	47.7	9.5	65.0
23691-12-12	19	3/4"	-12	3/4"	15.0	64.0	41.5	8.8	59.0
23691-12-16	19	3/4"	-12	1"	20.0	64.5	47.7	9.5	65.0
23691-16-16	25	1"	-16	1"	19.8	73.5	47.7	9.5	68.0
23691-16-20	25	1"	-16	1.1/4"	26.0	73.5	54.2	10.3	75.0
23691-20-16	31	1.1/4"	-20	1"	30.0	82.5	47.7	9.5	68.0
23691-20-20	31	1.1/4"	-20	1.1/4"	26.0	85.5	54.2	10.3	81.0
23691-20-24	31	1.1/4"	-20	1.1/2"	32.0	85.5	63.7	12.6	91.5
23691-24-24	38	1.1/2"	-24	1.1/2"	32.0	106.0	63.7	12.6	94.5
23691-24-32	38	1.1/2"	-24	2"	42.0	106.0	79.6	12.6	110.5
23691-32-32	51	2"	-32	2"	42.0	138.0	79.6	12.6	132.0

BSP hinged joint

Features

Structural type: For braided hose
 Structure form: Hinged connector core
 Connection type: hinge bolt

Standard: BSP
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



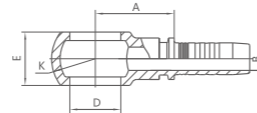
Drawing No	DN	Inch	Size	Bsp Bolt	Size				
					B	A	D	E	K
20310-04-04	6	1/4"	-04	1/4"-19	4.1	22.0	13.3	14.0	24
20310-04-06	6	1/4"	-04	3/8"-19	4.1	21.0	16.7	18.0	28.0
20310-05-04	8	5/16"	-05	1/4"-19	5.1	22.0	13.3	14.0	24.0
20310-05-06	8	5/16"	-05	3/8"-19	5.1	23.0	16.7	18.0	28.0
20310-06-06	10	3/8"	-06	3/8"-19	7.1	24.1	16.7	18.0	28.0
20310-06-08	10	3/8"	-06	1/2"-14	7.1	27.1	21.2	22.0	35.0
20310-08-08	12	1/2"	-08	1/2"-14	9.6	27.5	21.2	22.0	35.0
20310-10-10	16	5/8"	-10	5/8"-14	12.1	28.2	23.0	23.5	38.0
20310-12-12	19	3/4"	-12	3/4"-14	15.0	36.5	26.7	29.0	45.0
20310-16-16	25	1"	-16	1"-11	20.0	44.5	33.4	36.0	54.0

Metric hinged joint

Features

Structural type: For braided hose
 Structure form: Hinged connector core
 Connection type: hinge bolt

Standard: DIN 7642
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



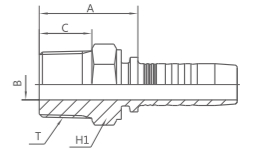
Drawing No	DN	Inch	Size	Bolt	Size				
					B	A	D	E	K
20910-03-10	5	3/16"	-03	M10X1	3.1	14.5	10.1	10	17
20910-04-10	6	1/4"	-04	M10X1	4.0	17.0	10.1	10	17
20910-04-12	6	1/4"	-04	M12X1.5	4.0	20.5	12.1	12	20
20910-05-12	8	5/16"	-05	M12X1.5	5.4	20.5	12.1	12	20
20910-06-12	10	3/8"	-06	M14X1.5	7.0	20.5	12.1	12	20
20910-04-14	6	1/4"	-04	M14X1.5	4.0	21.0	14.1	14	24
20910-05-14	8	5/16"	-05	M16X1.5	5.4	21.0	14.1	14	24
20910-06-14	10	3/8"	-06	M14X1.5	7.0	21.0	14.1	14	24
20910-04-16	6	1/4"	-04	M16X1.5	4.0	20.5	16.1	16	28
20910-05-16	8	5/16"	-05	M16X1.5	5.4	20.5	16.1	16	28
20910-06-16	10	3/8"	-06	M16X1.5	7.0	20.5	16.1	16	28
20910-04-18	6	1/4"	-04	M18X1.5	4.0	23.0	18.1	20	32
20910-05-18	8	5/16"	-05	M18X1.5	5.4	24.0	18.1	20	32
20910-06-18	10	3/8"	-06	M18X1.5	7.0	24.0	18.1	20	32
20910-08-18	12	1/2"	-08	M18X1.5	9.6	24.5	18.1	20	32
20910-06-22	10	3/8"	-06	M22X1.5	7.1	28.1	22.2	25	39
20910-08-22	12	1/2"	-08	M22X1.5	9.3	28.5	22.1	25	39
20910-10-22	16	5/8"	-10	M22X1.5	12.5	28.0	22.1	25	39
20910-12-26	19	3/4"	-12	M26X1.5	15.0	32.5	26.1	30	46
20910-16-30	25	1"	-16	M30X2	19.8	37.0	30.1	36	54
20910-20-30	31	1.1/4"	-20	M30X2	26.0	40.0	30.1	36	54

BSP outer cone male thread—ISO7

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Thread seal

Standard: ISO7
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



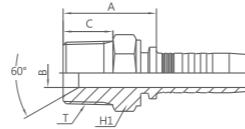
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
10710-03-02	5	3/16"	-03	1/8"-28	4.5	20.6	8.0	12
10710-03-04	5	3/16"	-03	1/4"-19	4.5	24.5	12.0	14
10710-04-02	6	1/4"	-04	1/8"-28	4.5	21.0	8.0	12
10710-04-04	6	1/4"	-04	1/4"-19	4.5	25.0	12.0	14
10710-04-06	6	1/4"	-04	3/8"-19	7.0	26.0	12.0	19
10710-04-08	6	1/4"	-04	1/2"-14	10.0	29.5	15.0	22
10710-05-04	8	5/16"	-05	1/4"-19	5.5	25.0	12.0	14
10710-05-06	8	5/16"	-05	3/8"-19	7.0	26.5	12.0	19
10710-05-08	8	5/16"	-05	1/2"-14	10.0	30.0	15.0	22
10710-06-04	10	3/8"	-06	3/8"-19	5.5	27.0	12.0	17
10710-06-06	10	3/8"	-06	3/8"-19	7.0	27.0	12.0	19
10710-06-08	10	3/8"	-06	1/2"-14	10.0	30.6	15.0	22
10710-08-04	12	1/2"	-08	1/4"-19	4.5	26.0	12.0	19
10710-08-06	12	3/8"	-08	3/8"-19	7.0	30.0	15.0	19
10710-08-08	12	1/2"	-08	1/2"-14	10.0	31.1	15.0	22
10710-10-08	16	5/8"	-10	1/2"-14	10.0	31.0	15.0	22
10710-10-12	16	5/8"	-10	3/4"-14	17.0	37.0	17.0	27
10710-12-08	19	5/8"	-12	1/2"-14	10.0	38.0	15.0	27
10710-12-12	19	3/4"	-12	3/4"-14	17.0	35.5	17.0	27
10710-16-12	25	1"	-16	3/4"-14	17.0	38.0	17.0	32
10710-16-16	25	1"	-16	1"-11	22.5	41.8	21.0	36
10710-20-20	32	1.1/4"	-20	1.1/4"-11	28.5	47.5	23.0	46
10710-24-24	38	1.1/2"	-24	1.1/2"-11	32.0	50.0	23.0	50
10710-24-32	38	2"	-24	2"-11	44.0	55.5	27.0	65
10710-32-32	51	2"	-32	2"-11	44.0	55.4	27.0	65

American SAE male thread with O-ring

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO 11926
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



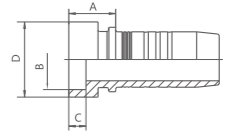
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
12810-03-02	5	3/16"	-03	1/8"-27	4.0	23.6	10.0	12
12810-03-04	5	3/16"	-03	1/4"-18	5.5	29.1	14.5	14
12810-04-02	6	1/4"	-04	1/8"-27	4.0	24.1	10.0	12
12810-04-04	6	1/4"	-04	1/4"-18	5.5	29.0	14.5	14
12810-04-06	6	1/4"	-04	3/8"-18	9.3	31.5	14.5	19
12810-04-08	6	1/4"	-04	1/2"-14	9.3	33.5	19.2	24
12810-05-04	7	5/16"	-05	1/4"-18	5.5	30.0	14.5	14
12810-05-06	7	5/16"	-05	3/8"-18	9.3	32.0	14.5	19
12810-06-04	10	3/8"	-06	1/4"-18	5.5	30.1	14.5	14
12810-06-06	10	3/8"	-06	3/8"-18	9.3	28.6	14.5	19
12810-06-08	10	3/8"	-06	1/2"-14	12.5	34.6	19.2	24
12810-08-06	12	1/2"	-08	3/8"-18	9.3	28.9	14.5	19
12810-08-08	12	1/2"	-08	1/2"-14	12.5	34.9	19.2	2
12810-08-12	12	1/2"	-08	3/4"-14	16.0	35.4	19.2	27
12810-10-08	16	5/8"	-10	1/2"-14	12.5	38.7	19.2	24
12810-10-12	16	5/8"	-10	3/4"-14	16.0	40.2	19.2	27
12810-12-12	19	3/4"	-12	3/4"-14	16.0	36.5	19.2	27
12810-12-08	19	3/4"	-12	1/2"-14	12.5	36.5	13.6	27
12810-12-16	19	3/4"	-12	1"-11.5	19.8	46.0	24.2	36
12810-16-12	25	1"	-16	3/4"-14	15.5	38.8	19.2	32
12810-16-16	25	1"	-16	1"-11.5	19.8	43.8	24.2	36
12810-16-20	25	1"	-16	1.1/4"-11.5	26.0	56.3	25.0	46
12810-20-20	32	1.1/4"	-20	1.1/4"-11.5	26.0	56.5	25.0	46
12810-24-24	38	1.1/2"	-24	1.1/2"-11.5	32.0	57.6	26.0	50
12810-32-32	51	2"	-32	2"-11.5	45.0	64.3	26.5	65
12810-40-40	63	2.1/2"	-40	2.1/2"-8	55.4	78.0	39.9	80
12810-48-48	76	3"	-48	3"-8	68.9	86.0	41.5	100

Welded connector core

Features

Structural type: For braided hose
 Structure form: Welding core
 Connection type: Welding with steel pipe


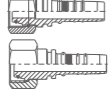
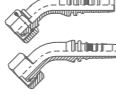





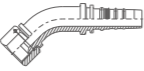
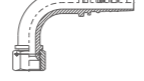


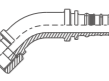
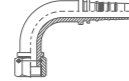




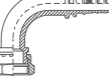
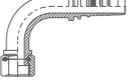

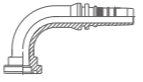



Standard: ISO
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



Drawing No	DN	Inch	Size	Size			
				A	B	C	D
C03IP06	5	3/16"	-03	6.0	11.5	5.0	10.0
C04IP08	6	1/4"	-4	8.0	13.0	5.0	12.0
C05IP10	8	5/16"	-5	10.0	13.5	6.0	14.0
C06IP12	10	3/8"	-6	12.0	13.5	6.0	16.0
C06IP14	10	3/8"	-6	14.0	13.5	6.0	18.0
C08IP15	12	1/2"	-8	15.0	14.0	6.0	20.0
C08IP16	12	1/2"	-8	16.0	14.0	6.0	20.0
C10IP18	16	5/8"	-10	18.0	15.0	7.0	23.0
C12IP22	19	3/4"	-12	22.0	16.0	7.0	26.0
C16IP28	25	1"	-16	28.0	18.5	8.0	3.0
C20IP35	31	1.1/4"	-20	35.0	21.5	9.0	40.0
C24IP40	38	1.1/2"	-24	40.0	21.5	9.0	50.0
C32IP50	51	2"	-32	50.0	23.0	10.0	60.0
C40IP60	63	2.1/2"	-40	60.0	22.0	10.0	73.0
C48IP70	76	3"	-48	70.0	38.0	10.0	89.0

Interlocking hose connector core

77/89

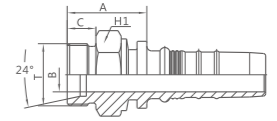
31210  P/77	41612-41613  P/77	41642-41643  P/78	41682-41683  P/78	32310  P/79	40812  P/79
45542  P/80	45582  P/80	42712  P/81	42542  P/81	42582  P/82	30110  P/82
45612  P/83	46542  P/83	46582  P/84	47411  P/84	47412  P/85	47441  P/85
47442  P/85	47491  P/86	47492  P/86	48310  P/87	48340  P/87	48390  P/88
48610  P/88	48640  P/89	48690  P/89			

Metric male thread 24° conical base heavy series

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: DIN J20066/ISO 12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

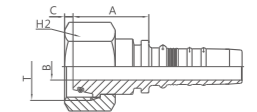


Drawing No	DN	Inch	Size	Flange type	Size			
					B	A	C	H1
31210-10-30	16	5/8"	-10	M30X2	12.0	36.8	16.0	30
31210-12-30	19	3/4"	-12	M30X2	14.5	38.5	16.0	32
31210-12-36	19	3/4"	-12	M36X2	14.5	43.4	18.0	36
31210-16-36	25	1"	-16	M36X2	19.5	45.0	18.0	36
31210-16-42	25	1"	-16	M42X2	19.5	46.8	20.0	46
31210-20-52	31	1.1/4"	-20	M52X2	25.0	55.0	22.0	55
31210-24-52	38	1.1/2"	-24	M52X2	30.5	55.6	22.0	55

Metric female thread 24° cone heavy series with O-ring (with thrust wire nut)



Metric female thread 24° cone light series with O-ring (with sliding sleeve nut)



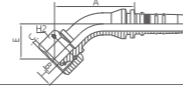
Features

Structure type: For winding hose
Structure form: Through connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

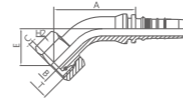
Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	inch	Size	T	Outer diameter of pipe	Size			
						B	A	C	H2
41613-10-30	16	5/8"	-10	M30X2	20	12.0	37.1	3.5	36
41613-10-24	16	5/8"	-10	M24X1.5	16	9.3	31.0	4.0	30
41613-12-30	19	3/4"	-12	M30X2	20	12.5	43.9	3.2	36
41613-12-36	19	3/4"	-12	M36X2	25	14.5	42.1	3.4	41
41613-12-42	19	3/4"	-12	M42X2	30	19.0	35.8	5.3	50
41612-16-36	25	1"	-16	M36X2	25	16.0	46.8	4.1	41
41613-16-42	25	1"	-16	M42X2	30	19.5	46.3	5.3	50
41613-16-52	25	1"	-16	M52X2	38	26.0	50.5	8.0	60
41613-20-42	31	1.1/4"	-20	M42X2	30	19.0	47.5	6.1	50
41613-20-52	31	1.1/4"	-20	M52X2	38	26.0	41.7	8.0	60
41613-24-52	38	1.1/2"	-24	M52X2	38	29.0	52.5	8.8	60

45° sweep elbow metric female thread
24° cone heavy series with O-ring (with thrust wire nut)



45° sweep elbow metric female thread
24° cone heavy series with O-ring (with sliding sleeve nut)



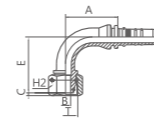
Features

Structure type: For winding hose
Structure form: 45° connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

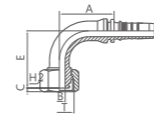
Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size				
						B	A	C	E	H2
41643-10-30	16	5/8"	-10	M30X2	20	12.0	66.5	3.5	29.5	36
41642-12-30	19	3/4"	-12	M30X2	20	12.5	79.2	3.2	34.8	36
41643-12-36	19	3/4"	-12	M36X2	25	14.5	81.0	3.4	33.5	41
41642-16-36	25	1"	-16	M36X2	25	16.0	103.0	4.1	45.5	41
41643-16-42	25	1"	-16	M42X2	30	19.5	93.1	5.3	36.0	50
41642-20-42	31	1.1/4"	-20	M42X2	30	19.0	116.5	6.1	44.5	50
41643-20-52	31	1.1/4"	-20	M52X2	38	26.0	110.0	8.0	40.0	60

90° sweep elbow metric female thread
24° cone heavy series with O-ring (with thrust wire nut)



90° sweep elbow metric female thread
24° cone heavy series with O-ring (with sliding sleeve nut)



Features

Structure type: For winding hose
Structure form: 90° connector core
Connection type: Metric female thread
Sealing form: 24° outer cone seal

Standard: DIN20066/ISO12151-2
Material: Carbon steel / stainless steel
Surface protection: Trivalent chromium environmental protection zinc

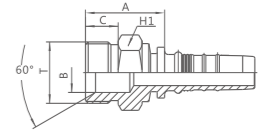
Drawing No	DN	Inch	Size	T	Outer diameter of pipe	Size				
						B	A	C	E	H2
41693-10-30	16	5/8"	-10	M30X2	20	12.0	52.5	3.5	57.5	36
41692-12-30	19	3/4"	-12	M30X2	20	12.5	63.8	3.2	68.5	36
41693-12-36	19	3/4"	-12	M36X2	25	14.5	67.0	3.4	67.5	41
41692-16-36	25	1"	-16	M36X2	25	16.0	81.7	4.1	89.0	41
41693-16-42	25	1"	-16	M42X2	30	19.5	81.7	5.3	75.5	50
41693-20-42	31	1.1/4"	-20	M42X2	30	19.0	103.5	6.1	90.0	50
41693-20-52	31	1.1/4"	-20	M52X2	38	26.0	100.0	8.0	86.5	60

BSP parallel male thread (60° conical base)

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: BS 5200/ISO 8434-6
Material: Carbon steel / stainless steel
Surface protection:
Trivalent chromium environmental protection zinc



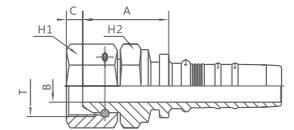
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
32310-12-12	19	3/4"	-12	3/4"-14	17.0	36.9	16.0	32
32310-12-16	19	3/4"	-12	1"-11	22.5	43.0	19.0	41
32310-16-16	25	1"	-16	1"-11	22.5	42.8	19.0	41
32310-16-20	25	1"	-16	1.1/4"-11	29.0	47.5	20.0	50
32310-20-20	31	1.1/4"	-20	1.1/4"-11	28.5	50.5	20.0	50
32310-24-24	38	1.1/2"	-24	1.1/2"-11	33.5	54.4	22.0	55
32310-32-32	51	2"	-32	2"-11	42.0	57.8	25.0	70

BSP O-RING female thread (60° conical base) with thrust metal wire nut

Features

Structural type: For braided hose
Structure form: Through connector core
Connection type: Threaded connection
Sealing form: Angle seal

Standard: BS5200/ISO 12151-6
Material: Carbon steel / stainless steel
Surface protection:
Trivalent chromium environmental protection zinc



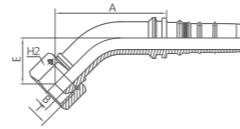
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H1	H2
40812-12-12	19	3/4"	-12	3/4"-14	14.5	38.8	8.5	32	32
40812-12-16	19	3/4"	-12	1"-11	19.0	40.0	10.6	32	41
40812-16-12	25	1"	-16	3/4"-14	15.0	40.0	8.5	38	32
40812-16-16	25	1"	-16	1"-11	19.5	44.4	10.6	41	41
40812-16-20	25	1"	-16	1.1/4"-11	26.0	43.5	10.1	41	50
40812-20-16	31	1.1/4"	-20	1"-11	19.0	50.0	10.6	50	41
40812-20-20	31	1.1/4"	-20	1.1/4"-11	25.0	52.4	10.1	50	50
40812-20-24	31	1.1/4"	-20	1.1/2"-11	32.0	51.5	12.5	50	60
40812-24-20	38	1.1/2"	-24	1.1/4"-11	26.0	52.5	10.1	60	50
40812-24-24	38	1.1/2"	-24	1.1/2"-11	32.0	51.3	12.5	60	60
40812-32-32	51	2"	-32	2"-11	42.0	51.6	16.1	70	70

45° O-ring BSP female thread sweep elbow (60° cone) with thrust metal wire nut

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: BS5200/ISO 12151-6
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



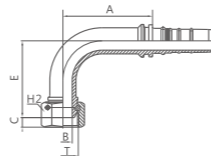
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
45542-12-12	19	3/4"	-12	3/4"-14	14.5	88.0	8.5	35.0	32
45542-12-16	19	3/4"	-12	1"-11	19.0	89.5	10.6	36.5	41
45542-16-12	25	1"	-16	3/4"-14	15.0	105.5	8.5	36.0	32
45542-16-16	25	1"	-16	1"-11	19.5	97.0	10.6	40.0	41
45542-16-20	25	1"	-16	1.1/4"-11	26.0	108.5	10.1	38.1	50
45542-20-16	31	1.1/4"	-20	1"-11	19.0	118.0	10.6	47.5	41
45542-20-20	31	1.1/4"	-20	1.1/4"-11	25.0	120.0	10.1	49.5	50
45542-20-24	31	1.1/4"	-20	1.1/2"-11	32.0	114.5	12.5	40.0	60
45542-24-24	38	1.1/2"	-24	1.1/2"-11	32.0	126.5	12.5	50.0	60
45542-32-32	51	2"	-32	2"-11	42.0	162.6	16.1	66.5	70

90° O-ring BSP female thread sweep elbow (60° cone) with thrust metal wire nut

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: BS 5200/ISO 8434-6
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



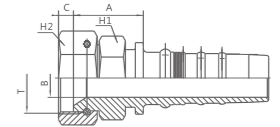
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H1
45592-12-12	19	3/4"	-12	3/4"-14	14.5	72.4	8.5	70.0	32
45592-12-16	19	3/4"	-12	1"-11	19.0	72.0	10.6	71.0	41
45592-16-16	25	1"	-16	1"-11	19.5	82.2	10.6	80.5	41
45592-16-20	31	1.1/4"	-20	1.1/4"-11	25.0	95.0	10.1	78.5	50
45592-20-20	31	1.1/4"	-20	1.1/4"-11	25.0	98.5	10.1	98.0	50
45592-24-24	38	1.1/2"	-24	1.1/2"-11	32.0	111.5	12.5	109.0	60
45592-32-32	51	2"	-32	2"-11	42.0	143.2	16.1	140.5	70

JIC female thread 37° conical base (with thrust metal wire nut)

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE 516/ISO 12151-5
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



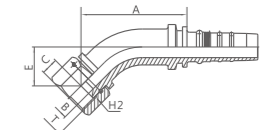
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
42712-12-12	19	3/4"	-12	1.1/16"-12	15.0	36.2	14.2	32
42712-12-16	19	3/4"	-16	1.5/16"-12	21.7	33.0	15.2	41
42712-16-16	25	1"	-16	1.5/16"-12	21.7	40.7	15.2	41
42712-16-20	25	1"	-16	1.5/8"-12	26.0	50.0	16.2	50
42712-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	51.4	16.2	50
42712-20-24	31	1.1/4"	-20	1.7/8"-12	30.5	54.0	18.8	55
42712-24-24	38	1.1/2"	-24	1.7/8"-12	31.0	54.5	18.8	55
42712-32-32	51	2"	-32	2.1/2"-12	42.0	54.2	24.0	70

45° female thread sweep elbow (37° conical base) with thrust metal wire nut

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE 516/ISO 12151-5
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



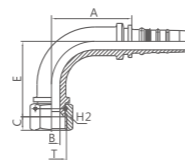
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
42542-12-12	19	3/4"	-12	1.1/16"-12	15.0	86.0	14.2	33.0	32
42542-16-16	25	1"	-16	1.5/16"-12	21.7	95.0	15.2	37.0	41
42542-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	115.5	16.2	45.0	50
42542-24-24	38	1.1/2"	-24	1.7/8"-12	32.0	126.5	18.8	50.0	60
42542-32-32	51	2"	-32	2.1/2"-12	42.0	161.0	24.0	63.5	75

90° female thread sweep elbow (37° conical base) with thrust metal wire nut

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: BS5200/ISO 12151-6
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



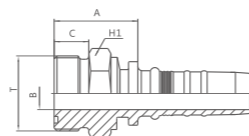
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H1
42592-12-12	19	3/4"	-12	1.1/16"-12	15.0	72.4	14.2	66.0	32
42592-12-16	19	3/4"	-12	1.5/16"-12	21.7	72.5	15.2	71.5	41
42592-16-16	25	1"	-16	1.5/16"-12	21.7	82.3	15.2	77.5	41
42592-20-20	31	1.1/4"	-20	1.5/8"-12	26.0	98.5	16.2	92.0	50
42592-20-24	31	1.1/4"	-20	1.7/8"-12	32.0	101.5	18.8	108.0	60
42592-24-24	38	1.1/2"	-24	1.7/8"-12	32.0	115.5	18.8	106.0	60
42592-32-32	51	2"	-32	2.1/2"-12	42.0	144.7	24.0	137.0	75

Male thread flat seal

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: O-Ring seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



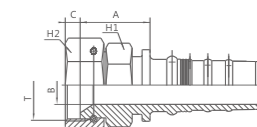
Drawing No	DN	Inch	Size	T	Size			
					B	A	C	H1
30110-12-27	19	3/4"	-12	M27X1.5	13	34	13	30
30110-12-30	19	3/4"	-12	M30X1.5	15.5	37	14	32
30110-16-36	25	1"	-16	M36X2	20	40	16	36
30110-16-39	25	1"	-16	M39X2	22.5	43	18	41
30110-20-42	31	1.1/4"	-20	M42X2	25	46	20	46
30110-20-45	31	1.1/4"	-20	M45X2	27	49	20	50
30110-24-52	38	1.1/2"	-24	M52X2	32	53	22	55
30110-32-60	51	1.1/2"	-32	M60X2	36	55	24	60
30110-32-64	51	2"	-32	M64X2	40	58	27	65

Metric female thread flat seal

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Flat seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



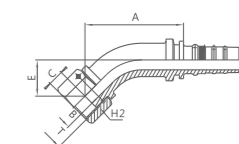
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H1
46512-12-27	19	3/4"	-12	M27X1.5	10	36	10	30	32
46512-12-30	19	3/4"	-12	M30X1.5	13	37	11	32	36
46512-16-36	25	1"	-16	M36X2	16	38	13	41	41
46512-16-39	25	1"	-16	M39X2	18	40	13	41	46
46512-20-42	31	1.1/4"	-20	M42X2	22	42	15	46	50
46512-20-45	31	1.1/4"	-20	M45X2	27	44	15	46	55
46512-24-52	38	1.1/2"	-24	M52X2	28	46	17	55	60

45° Metric female thread flat seal

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Flat seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



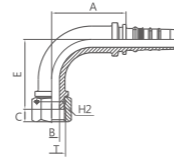
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
46542-12-27	19	3/4"	-12	M27X1.5	10	89	10	36	32
46542-12-30	19	3/4"	-12	M30X1.5	13	91	11	38	36
46542-16-36	25	1"	-16	M36X2	16	100	13	42.5	41
46542-16-39	25	1"	-16	M39X2	18	105	13	45	46
46542-20-42	31	1.1/4"	-20	M42X2	22	119	15	49.5	50
46542-20-45	31	1.1/4"	-20	M45X2	27	123	15	50	55
46542-24-52	38	1.1/2"	-24	M52X2	28	129	17	52	60

90° Metric female thread flat seal

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Flat seal

Standard: JB/T966-2005
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



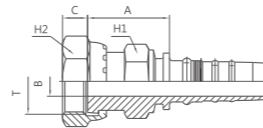
Drawing No	DN	Inch	Size	T	Size				
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46592-12-27	19	3/4"	-12	M27X1.5	10	72.5	10	70.5	32
46592-12-30	19	3/4"	-12	M30X1.5	13	75	11	72	36
46592-16-36	25	1"	-16	M36X2	16	82.5	13	84.5	41
46592-16-39	25	1"	-16	M39X2	18	85	13	86	46
46592-20-42	31	1.1/4"	-20	M42X2	22	98.5	15	98	50
46592-20-45	31	1.1/4"	-20	M45X2	27	100	15	100	55
46592-24-52	38	1.1/2"	-24	M52X2	28	111.5	17	109	60

ORFS female thread-pull back (with buckle-support nut)

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO 12151-1
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



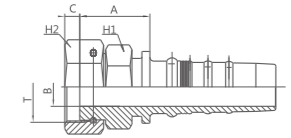
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47411-10-10	16	5/8"	-10	1"-14	11.5	39.5	13.5	24	30
47411-12-12	19	3/4"	-12	1.3/16"-12	14.5	45.9	14.5	32	36
47411-12-16	19	3/4"	-12	1.7/16"-12	19.0	46.5	15.0	36	41
47411-16-12	25	1"	-16	1.3/16"-12	14.5	47.5	14.5	38	36
47411-16-16	25	1"	-16	1.7/16"-12	19.5	48.5	15.0	41	41
47411-16-20	25	1"	-16	1.11/16"-12	24.0	48.5	14.8	41	50
47411-20-20	31	1.1/4"	-20	1.11/16"-12	25.0	54.8	14.8	50	50
47411-24-24	38	1.1/2"	-24	2"-12	31.0	57.8	15.8	60	60

ORFS female thread-heavy (with thrust metal wire nut)

Features

Structural type: For braided hose
 Structure form: Through connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE 516/ISO 12151-5
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



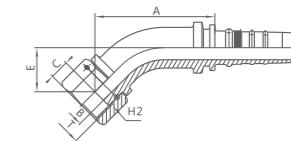
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	H1	H2
47412-12-12	19	3/4"	-12	1.3/16"-12	14.5	37.0	14.0	32	36
47412-16-16	25	1"	-16	1.7/16"-12	19.5	42.0	15.0	41	46
47412-20-20	31	1.1/4"	-20	1.11/16"-12	25.0	52.0	15.0	50	55
47412-24-24	38	1.1/2"	-24	2"-12	31.0	55.0	15.0	60	60

45° ORFS female thread sweep elbow (with thrust metal wire nut)

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE 516/ISO 12151-5
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



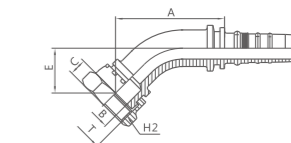
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
47442-12-12	19	3/4"	-12	1.3/16"-12	14.5	72.5	14.0	70.5	36
47442-16-16	25	1"	-16	1.7/16"-12	19.5	82.5	15.0	84.5	46
47442-20-20	31	1.1/4"	-20	1.11/16"-12	25.0	98.5	15.0	98.0	55
47442-24-24	38	1.1/2"	-24	2"-12	31.0	111.5	15.0	109.0	60

45° ORFS female thread sweep elbow (with buckle-support nut)

Features

Structural type: For braided hose
 Structure form: 45° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO 12151-1
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



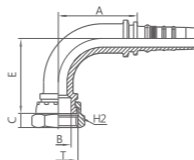
Drawing No	DN	Inch	Size	T	Size				
					B	A	C	E	H2
47441-10-12	16	5/8"	-10	1.3/16"-12	14.5	55.5	14.5	21.5	36
47441-12-12	19	3/4"	-12	1.3/16"-12	14.5	69.0	14.5	21.5	36
47441-12-16	19	3/4"	-12	1.7/16"-12	19.0	77.5	15.0	25.0	41
47441-16-16	25	1"	-16	1.7/16"-12	19.5	84.0	15.0	22.0	41
47441-20-20	31	1.1/4"	-20	1.11/16"-12	25.0	96.5	14.8	26.0	50
47441-24-24	38	1.1/2"	-24	2"-12	31.0	112.0	15.8	31.5	60

90° ORFS female thread sweep elbow (with buckle-support nut)

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE J516/ISO 12151-1
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



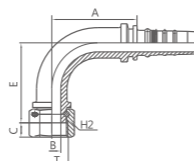
Drawing No	DN	Inch	Size	T	Size				
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47491-10-12	16	5/8"	-10	1.3/16"-12	14.5	51.0	14.5	47.0	36
47491-12-12	19	3/4"	-12	1.3/16"-12	14.5	65.5	14.5	48.0	36
47491-12-12	19	3/4"	-12	1.3/16"-12	14.5	65.5	14.5	109.0	36
47491-12-16	19	3/4"	-12	1.7/16"-12	19.5	70.5	15.0	53.0	41
47491-16-16	25	1"	-16	1.7/16"-12	19.5	85.0	15.0	54.0	41
47491-16-20	25	1"	-16	1.11/16"-12	24.0	85.0	14.8	58.0	50
47491-20-20	31	1.1/4"	-20	1.11/16"-12	25.0	98.5	14.8	65.0	50
47491-24-24	38	1.1/2"	-24	2"-12	31.0	115.7	15.8	79.5	60

90° ORFS female thread sweep elbow (with thrust metal wire nut)

Features

Structural type: For braided hose
 Structure form: 90° connector core
 Connection type: Threaded connection
 Sealing form: Angle seal

Standard: SAE 516/ISO 12151-5
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



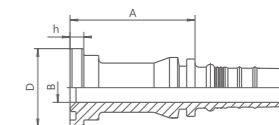
Drawing No	DN	Inch	Size	T	Size				
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47492-12-12	19	3/4"	-12	1.3/16"-12	14.5	72.5	14.0	70.5	36
47492-16-16	25	1"	-12	1.7/16"-12	19.5	82.5	15.0	84.5	46
47492-20-20	31	1.1/4"	-20	1.11/16"-12	25.0	98.5	15.0	98.0	55
47492-24-24	38	1.1/2"	-24	2"-12	31.0	111.5	15.0	109.0	60

ISO/SAE CODE61 3000Psi Flange

Features

Structure type: For winding hose
 Structure form: Through connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



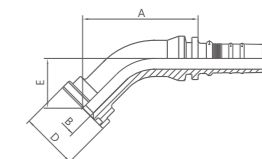
Drawing No	DN	Inch	Size	Flange type	Size			
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48310-10-16	16	5/8"	-10	1"	20.0	63.5	44.6	6.8
48310-12-12	19	3/4"	-12	3/4"	16.0	59.9	38.0	6.8
48310-12-16	19	3/4"	-12	1"	20.0	65.7	44.6	6.8
48310-16-12	25	1"	-16	3/4"	16.0	67.0	38.0	6.8
48310-16-16	25	1"	-16	1"	20.0	66.7	44.6	6.8
48310-16-20	25	1"	-16	1.1/4"	26.0	73.0	51.0	8.0
48310-20-20	31	1.1/4"	-20	1.1/4"	26.0	75.0	51.0	8.0
48310-20-24	31	1.1/4"	-20	1.1/2"	32.0	80.0	60.5	8.0
48310-24-24	38	1.1/2"	-24	1.1/2"	32.0	80.6	60.5	8.0
48310-24-32	38	1.1/2"	-24	2"	42.0	88.3	71.6	8.0
48310-32-32	51	2"	-32	1"	42.0	82.8	71.6	8.0

ISO/SAE CODE61 3000Psi Flange

Features

Structure type: For winding hose
 Structure form: 45° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



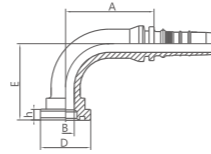
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
48340-12-12	19	3/4"	-12	3/4"	16.0	75.6	38.0	6.8	23.0
48340-12-16	19	3/4"	-12	1"	20.0	76.0	44.6	6.8	23.0
48340-16-16	25	1"	-16	1"	20.0	87.0	44.6	6.8	27.3
48340-16-20	25	1"	-16	1.1/4"	26.0	87.5	51.0	8.0	27.3
48340-20-20	31	1.1/4"	-20	1.1/4"	26.0	100.5	51.0	8.0	29.5
48340-20-24	31	1.1/4"	-20	1.1/2"	32.0	101.5	60.5	9.6	31.0
48340-24-24	38	1.1/2"	-24	1.1/2"	32.0	111.0	60.5	9.6	34.5
48340-24-32	38	1.1/2"	-24	2"	42.0	113.0	71.6	9.6	34.5
48340-32-32	51	2"	-32	2"	42.0	128.7	71.6	9.6	39

ISO/SAE CODE61 3000Psi Flange

Features

Structure type: For winding hose
 Structure form: 90° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



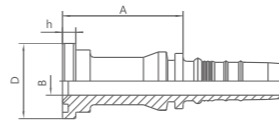
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
48390-10-16	16	5/8"	-10	1"	20.0	70.5	44.6	6.8	52.0
48390-12-12	19	3/4"	-12	3/4"	16.0	71.8	38.0	6.8	52.0
48390-12-16	19	3/4"	-12	1"	20.0	72.4	44.6	6.8	52.0
48390-16-16	25	1"	-16	1"	20.0	83.4	44.6	6.8	62.0
48390-16-20	25	1"	-16	1.1/4"	26.0	83.4	51.0	8.0	62.0
48390-20-16	31	1.1/4"	-20	1"	19.8	96.5	44.6	6.8	66.0
48390-20-20	31	1.1/4"	-20	1.1/4"	26.0	99.0	51.0	8.0	70.0
48390-20-24	31	1.1/4"	-20	1.1/2"	32.0	98.7	60.5	9.6	72.0
48390-24-24	38	1.1/2"	-24	1.1/2"	32.0	111.6	60.5	9.6	84.0
48390-24-32	38	1.1/2"	-24	2"	42.0	111.5	71.6	9.6	84.0
48390-32-32	51	2"	-32	2"	42.0	133.7	71.6	9.6	99.0

ISO/SAE CODE62 6000Psi Flange

Features

Structure type: For winding hose
 Structure form: Through connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



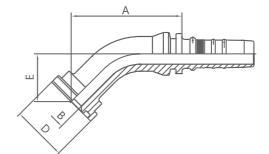
Drawing No	DN	Inch	Size	Flange type	Size			
					B	A	D	h
48610-10-12	16	5/8"	-10	3/4"	16.0	64.0	41.4	8.8
48610-10-16	16	5/8"	-10	1"	20.0	81.5	47.7	9.5
48610-12-12	19	3/4"	-12	3/4"	16.0	71.4	41.4	8.8
48610-12-16	19	3/4"	-12	1"	20.0	83.4	47.7	9.5
48610-16-12	25	1"	-16	3/4"	16.0	80.3	41.4	8.8
48610-16-16	25	1"	-16	1"	20.0	84.7	47.7	9.5
48610-16-20	25	1"	-16	1.1/4"	26.0	89.0	54.2	10.3
48610-20-16	31	1.1/4"	-20	1"	20.0	87.2	47.7	9.5
48610-20-20	31	1.1/4"	-20	1.1/4"	26.0	91.1	54.2	10.3
48610-20-24	31	1.1/4"	-20	1.1/2"	32.0	97.2	63.7	12.6
48610-24-20	38	1.1/2"	-24	1.1/4"	26.0	101.2	54.2	10.3
48610-24-24	38	1.1/2"	-24	1.1/2"	32.0	97.7	63.7	12.6
48610-24-32	38	1.1/2"	-24	2"	42.0	112.8	79.6	12.6
48610-32-24	51	2"	-32	1.1/2"	32.0	117.0	63.7	12.6
48610-32-32	51	2"	-32	2"	42.0	112.8	79.6	12.6

ISO/SAE CODE62 6000Psi Flange

Features

Structure type: For winding hose
 Structure form: 45° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



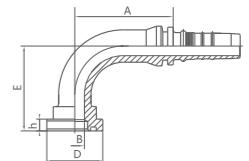
Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
48640-10-12	16	5/8"	-10	3/4"	16.0	71.0	41.4	8.8	31.0
48640-10-16	16	5/8"	-10	1"	20.0	83.5	47.7	9.5	32.5
48640-12-12	19	3/4"	-12	3/4"	16.0	81.0	41.4	8.8	28.0
48640-12-16	19	3/4"	-12	1"	20.0	85.4	47.7	9.5	32.3
48640-16-12	25	1"	-16	3/4"	16.0	87.0	41.4	8.8	28.0
48640-16-16	25	1"	-16	1"	20.0	91.4	47.7	9.5	32.3
48640-16-20	25	1"	-16	1.1/4"	26.0	93.7	54.2	10.3	37.5
48640-20-16	31	1.1/4"	-20	1"	20.0	106.5	47.7	9.5	36
48640-20-20	31	1.1/4"	-20	1.1/4"	26.0	108.0	54.2	10.3	37.5
48640-20-24	31	1.1/4"	-20	1.1/2"	32.0	115.0	63.7	12.6	45
48640-24-20	38	1.1/2"	-24	1.1/4"	26.0	124.5	54.2	10.3	43
48640-24-24	38	1.1/2"	-24	1.1/2"	32.0	124.3	63.7	12.6	44
48640-24-32	38	1.1/2"	-24	2"	42.0	135.6	79.6	12.6	55.4
48640-32-32	51	2"	-32	2"	42.0	154.0	79.6	12.6	60.5

ISO/SAE CODE62 6000Psi Flange

Features

Structure type: For winding hose
 Structure form: 90° connector core
 Connection type: Split flange
 Sealing form: O-Ring seal

Standard: ISO12151-3/SAE J516
 Material: Carbon steel / stainless steel
 Surface protection:
 Trivalent chromium environmental protection zinc



Drawing No	DN	Inch	Size	Flange type	Size				
					B	A	D	h	E
48690-10-12	16	5/8"	-10	3/4"	116.0	57.5	41.4	8.8	60.5
48690-12-12	19	3/4"	-12	3/4"	16.0	72.4	41.4	8.8	59.0
48690-12-16	19	3/4"	-12	1"	20.0	72.4	47.7	9.5	65.0
48690-16-12	25	1"	-16	3/4"	16.0	81.3	41.4	8.8	62.0
48690-16-16	25	1"	-16	1"	20.0	81.1	47.7	9.5	68.0
48690-16-20	25	1"	-16	1.1/4"	26.0	78.6	54.2	10.3	76.0
48690-20-16	31	1.1/4"	-20	1"	20.0	98.5	47.7	9.5	79.0
48690-20-20	31	1.1/4"	-20	1.1/4"	26.0	98.5	54.2	10.3	81.0
48690-20-24	31	1.1/4"	-20	1.1/2"	32.0	98.5	63.7	12.6	91.5
48690-24-20	38	1.1/2"	-24	1.1/4"	26.0	111.2	54.2	10.3	91.0
48690-24-24	38	1.1/2"	-24	1.1/2"	32.0	112.5	63.7	12.6	94.5
48690-24-32	38	1.1/2"	-24	2"	42.0	112.5	79.6	12.6	110.5
48690-32-32	51	2"	-32	2"	42.0	140.7	79.6	12.6	132.0

SSR Wire sheath

Structure type: metal protective sleeve
Surface protection: surface tin plating



Code	Inner diameter (wound)	d-wire
SSR18-2	18	2
SSR20-2	20	2
SSR23-2	23	2
SSR25-2	25	2
SSR27-2	27	2
SSR30-2	30	2
SSR34-2	34	3

PVC Nylon spiral sheath

Plastic coil protective sleeve that can resist mechanical stress is suitable for the combined assembly



Code	Inner diameter (wound)	Strip steel
PVC09	9.5	12
PVC13	13	16
PVC16	16	18
PVC20	20	24
PVC25	25	29
PVC30	30	35.4
PVC40	40	48

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01300	23
01400	23
01500	24
01800	24
03400	21
1	
10110	59
10710	73
11110	28
11210	32
12410	63
12810	74
12310	48
2	
20310	71
20441	47
20491	47
20910	72
21011	46
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23341	68
23391	69
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23641	70
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24011	45
24241	45
24291	46
20211-20213	60
20241-20243	61
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20542-20543	50
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31210	77
4	
40812	79
42542	81
42592	82
42712	81
45542	80
45592	80
45612	83
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