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HYDRAULIC HIGH PRESSURE OIL PIPE

DALIAN YINGYU CO., LIMITED

► High Pressure Oil Hose

- **Brief introduction**

High-pressure oil pipes are mainly composed of inner rubber layer, middle rubber layer, multi-layer alternately wound steel wire reinforcement layer, and outer rubber layer. The inner rubber layer uses wear-resistant, oil-resistant, corrosion-resistant synthetic rubber material, ensuring the purity of oil during transmission.

The steel wire reinforcement layer is key to the pipe's ability to withstand high pressure, significantly improving the pipe's pressure-bearing capacity and anti-burst performance. Meanwhile, the outer rubber layer serves to protect the internal structure and resist external environmental erosion.



- **Product advantages and disadvantages**

- **Product advantages**

- A. High pressure resistance, suitable for high-pressure, high-flow hydraulic systems.
- B. Good fatigue resistance, long service life.
- C. Good temperature resistance, able to operate over a wide temperature range.
- D. Good flexibility, easy to install and arrange.



▶ High Pressure Oil Hose

- **Product disadvantages**

A. Prone to aging: As a consumable part, it is prone to cracking with prolonged use.

B. High installation requirements: It cannot be bent sharply, twisted, or rubbed. Improper installation can easily lead to oil leaks or pipe bursts.

C. High safety risks: If it ruptures under high pressure, it can easily spray oil, causing injury or fire.

D. High maintenance costs: It requires regular inspection and replacement, and the quality of connectors and crimping must be strictly controlled.

- **Application Scenarios**

A. Wide range of uses: Primarily used in mine hydraulic supports and oilfield development.

It is also suitable for engineering construction, hoisting and transportation, metallurgical forging, mining equipment, shipbuilding, injection molding machinery, agricultural machinery, various machine tools, and conveying petroleum-based and water-based liquids with certain pressure and temperature in the mechanized and automated hydraulic systems of various industrial sectors.

B. Diverse Specifications: Product specifications range as follows.

C. Various Connection Methods: Typically uses threaded connections, clamp connections, welding, etc.



DATA SHEET

SAE 100R1AT / EN853 1SN - ONE LAYER STEEL WIRE REINFORCED RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: single layer of steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C~+100°C



SMOOTH SURFACE



WRAPPED SURFACE

Metric size	Inch size	SAE DASH SIZE	ID		OD	Max W.P			Min B.P	Min B.R	W.T
			Standard								
mm	inches	Dash	Min	Max	Max	Mpa	Bar	Psi	mpa	mm	kg/m
5	3/16	03	4.6	5.4	12.5	25	250	3630	100	90	0.19
6.3	1/4	04	6.2	7	14.1	22.5	225	3260	90	100	0.23
8	5/16	05	7.7	8.5	15.7	21.5	215	3120	86	115	0.27
10	3/8	06	9.3	10.1	18.1	18	180	2610	72	125	0.34
12.5	1/2	08	12.3	13.5	21.5	16	160	2320	64	180	0.42
16	5/8	10	15.5	16.78	24.7	13	130	1890	52	205	0.51
19	3/4	12	18.6	19.8	28.6	10.5	105	1520	42	240	0.62
*22	7/8	14	——	——	——	9.5	95	1380	38	280	0.73
25	1	16	25	26.4	36.6	8.7	87	1260	34.8	300	0.97
31.5	1-1/4	20	31.4	33	44.8	6.2	62	900	24.8	420	1.22
38	1-1/2	24	37.7	39.3	52	5.4	54	780	21.6	500	1.49
51	2	32	50.4	52	65.9	4	40	580	16	630	2.08
*63	2-1/2	40	63.1	62.1	——	3	30	440	12	760	2.17

DATA SHEET

SAE 100R3 / EN854 R3-TWO LAYER FIBER BRAID(Nonmetallic) RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: two layer of high strength fiber braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C~+100°C



Metric size	Inch size	SAE DASH SIZE	ID		OD		Max W.P			Min B.P	Min B.R	W.T
			Standard									
mm	inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	mpa	mm	kg/m
5	3/16	03	4.5	5.4	11.9	13.5	10.5	105	1520	42	75	0.16
6.3	1/4	04	6.1	7	13.5	15.1	8.7	87	1260	34.8	75	0.19
8	5/16	05	7.6	8.5	16.7	18.3	8.4	84	1220	33.6	100	0.25
10	3/8	06	9.2	10.1	18.3	19.8	7.8	78	1130	31.2	100	0.29
*11	13/32	06	——	——	——	——	7.4	74	1070	29.6	100	0.33
12.5	1/2	08	12.4	13.5	23	24.6	7	70	1020	28	125	0.41
16	5/8	10	15.6	16.7	26.2	27.8	6.1	61	880	24.4	140	0.49
19	3/4	12	18.7	19.8	31	32.5	5.2	52	750	20.8	150	0.66
25	1	16	25.1	26.2	36.9	39.3	3.9	39	570	15.6	205	0.81
31.5	1-1/4	20	31.4	32.9	42.9	46	2.6	26	380	10.4	250	0.97
*38	1-1/2	24	——	——	——	——	2.4	24	350	9.6	300	1.12

DATA SHEET

SAE 100R2AT / EN853 2SN-TWO LAYER STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: two layer of steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C~+100°C



SMOOTH SURFACE



WRAPPED SURFACE

Metric size	Inch size	SAE DASH SIZE	ID		OD	Max W.P			Min B.P	Min B.R	W.T
			Min	Max		Mpa	Bar	Psi			
mm	inches	Dash			Max				mpa	mm	kg/m
5	3/16	03	4.6	5.4	14.1	41.5	415	6020	166	90	0.31
6.3	1/4	04	6.2	7	15.7	40	400	5800	160	100	0.35
8	5/16	05	7.7	8.5	17.3	35	350	5080	140	115	0.39
10	3/8	06	9.3	10.1	19.7	33	330	4790	132	125	0.51
12.5	1/2	08	12.3	13.5	23.1	27.5	275	3990	110	180	0.61
16	5/8	10	15.5	16.7	26.3	25	250	3630	100	205	0.77
19	3/4	12	18.6	19.8	30.2	21.5	215	3120	86	240	0.93
*22	7/8	14	—	—	—	17.5	175	2540	70	280	1.05
25	1	16	25	26.4	38.9	16.5	165	2390	66.8	300	1.44
31.5	1-1/4	20	31.4	33	49.6	12.5	125	1810	50.8	420	2.03
38	1-1/2	24	37.7	39.3	56	9	90	1310	36.6	500	2.26
51	2	32	50.4	52	68.6	8	80	1160	32	630	3.05
*63	2-1/2	40	63.1	65.1	81.8	7	70	1020	28	760	3.43

DATA SHEET

SAE 100R5-

ONE LAYER WIRE BRAID, TEXTILE COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: single layer of steel wire braided

COVER: single layer of fibre braided

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric size	Inch size	SAE DASH SIZE	ID		OD		Max W.P			Min B.P	Min B.R	W.T
			Standard									
mm	inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	mpa	mm	kg/m
5	3/16	04	4.8	5.5	12.7	13.7	21	210	3050	84	75	0.22
6.3	1/4	05	6.4	7.2	14.3	15.3	21	210	3050	84	75	0.26
8	5/16	06	7.9	8.7	16.7	17.6	15.7	157	2280	62.8	100	0.32
11	13/32	08	10.3	11.1	18.9	20	14	140	2030	56	115	0.37
12.5	1/2	10	12.7	13.7	22.8	24	12.2	122	1770	48.8	140	0.55
16	5/8	12	15.9	17	26.8	28	10.5	105	1520	42	165	0.63
22	7/8	16	22.2	23.3	30.6	32.2	5.6	56	810	22.4	185	0.7
29	1-1/8	20	28.6	29.8	37.3	38.9	4.3	43	620	17.2	230	0.83
35	1-3/8	24	34.9	36.1	43.7	45.2	3.5	35	510	14	265	0.98
46	1-13/16	32	46	47.2	55.2	57.6	2.4	24	350	9.6	335	1.37
60	2-3/8	40	60.3	61.9	71.8	74.2	2.4	24	350	9.6	610	1.89
76	3	48	76.2	77.8	89.3	91.7	1.4	14	200	5.6	840	2.71

DATA SHEET

SAE 100R6 / EN854 R6-ONE LAYER FIBER BRAID(nonmetallic) RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: single layer of high strength fiber braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C~+100°C



SMOOTH SURFACE



WRAPPED SURFACE

Metric size	Inch size	SAE DASH SIZE	ID		OD		Max W.P			Min B.P	Min B.R	W.T
			Standard									
mm	inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	mpa	mm	kg/m
5	3/16	03	4.2	5.4	10.3	11.9	3.5	35	510	14	50	0.12
6.3	1/4	04	5.6	7.2	11.9	13.5	2.8	28	410	11.2	65	0.15
8	5/16	05	7.2	8.8	13.5	15.1	2.8	28	410	11.2	75	0.18
10	3/8	06	8.7	10.3	15.1	16.7	2.8	28	410	11.2	75	0.21
12.5	1/2	08	11.9	13.5	19	20.6	2.8	28	410	11.2	100	0.27
*14	9/16	09	——	——	——	——	2.8	28	410	11.2	115	0.29
16	5/8	10	15.1	16.7	22.2	23.8	2.4	24	350	9.6	125	0.32
19	3/4	12	18.3	19.9	25.4	27.8	2.1	21	300	8.4	150	0.42
*22	7/8	14	——	——	——	——	2.1	21	300	8.4	205	0.46
*25	1	16	——	——	——	——	2.0	20	290	8.0	230	0.54
29	1-1/8	18	——	——	——	——	2.0	20	290	8.0	245	0.73
*31.5	1-1/4	20	——	——	——	——	2.0	20	290	8.0	265	0.95
*35	1-3/8	22	——	——	——	——	1.8	18	260	7.2	300	1.09
*38	1-1/2	24	——	——	——	——	1.5	15	220	6.0	335	1.22
*45	13/4	28	——	——	——	——	1.5	15	220	6.0	420	1.20
*51	2	32	——	——	——	——	1.5	15	220	6.0	610	1.59
*63	2-1/2	40	——	——	——	——	1.5	15	220	6.0	840	2.12
*76	3	48	——	——	——	——	1.0	10	150	4.0	950	2.79

DATA SHEET

SAE 100R7 / EN855 R7-STEEL WIRE BRAID RESIN HOSE

INNER TUBE: nylon

REINFORCEMENT: one layer or two layers of fiber braided

COVER: oil and weather resistant polyurethane

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric Size	Inch Size	Dash Size	ID	OD		Max W.P				Min B.P		W.T	
						One Layer		Two Layer					
mm	Inches	Dash	mm	one layer	two layer	Bar	Psi	Bar	Psi	one layer	two layer	one layer	two layer
6.3	1/4	04	6.3	12.7	13.3	275	3990	350	5070	110	140	160	290
8	5/16	05	7.9	14.3	14.9	250	2620	325	4710	100	130	215	340
10	3/8	06	9.5	15.9	16.7	225	3260	290	4200	90	116	240	400
12.5	1/2	08	12.7	19.8	19.8	175	2540	260	3770	70	105	310	560
16	5/8	10	15.9	23.3	23.3	140	2030	200	2900	56	80	410	630
19	3/4	12	18.9	26.5	26	120	1740	175	2540	48	70	500	750
25	1	16	25.4	34	33	100	1450	120	1740	40	48	650	1000

DATA SHEET

SAE 100R7 / EN855 R7-FIBER BRAID(NONMETALLIC)ESIN HOSE

INNER TUBE: nylon

REINFORCEMENT: one layer or two layers of fiber braided

COVER: oil and weather resistant polyurethane

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric Size	Inch Size	Dash Size	ID	OD		Max W.P				Min B.P		W.T	
						One Layer		Two Layer					
mm	Inches	Dash	mm	One layer	Two layer	Bar	Psi	Bar	Psi	One layer	Two layer	One layer	Two layer
5	3/16	03	4.8	10.3	10.8	210	3045	250	3620	84	100	65	70
6.3	1/4	04	6.3	12.7	13.3	200	2900	275	3980	80	110	80	125
8	5/16	05	7.9	14.3	15	190	2755	260	3770	76	105	125	150
10	3/8	06	9.5	15.9	18	175	2540	250	3620	70	100	140	210
12.5	1/2	08	12.7	19.8	21.6	140	2030	210	3040	56	84	200	260
16	5/8	10	15.9	23.3	23.6	130	1885	160	2320	52	64	260	295
19	3/4	12	18.9	26.5	26.4	90	1305	140	2030	36	56	320	315
25	1	16	25.4	34	34	70	1015	105	1520	28	42	400	450

DATA SHEET

SAE 100R7 / EN855 R7(TWIN HOSE)-FIBER OR WIRE BRAID RESIN TWIN HOSE

INNER TUBE: nylon

REINFORCEMENT: one layer or two layers of fiber braided or steel wire braided

COVER: oil and weather resistant polyurethane

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric Size	Inch Size	Dash Size	ID	OD	Max W.P				Min B.P		W.T	
					Fiber Braid		Wire Braid					
mm	Inches	Dash	mm	mm	Bar	Psi	Bar	Psi	F.B	W.B	F.B	W.B
6.3	1/4	04	6.3	12.7	250	3625	275	3990	100	110	80	125
8	5/16	05	7.9	14.3	210	3045	250	3625	80	100	125	150
10	3/8	06	9.5	15.9	175	2540	225	3260	70	90	140	210
12.5	1/2	08	12.7	19.8	160	2320	185	2680	65	70	200	260

DATA SHEET

SAE 100R8 / EN855 R8-ARAMID FIBER BRAID RESIN HOSE

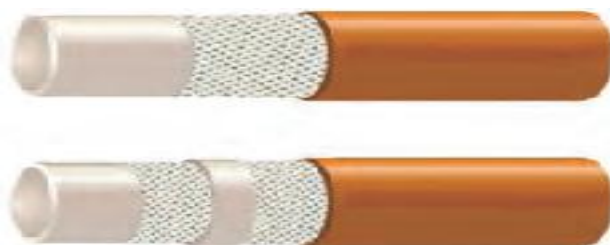
INNER TUBE: Nylon

REINFORCEMENT: one layer or two layers of aramid fibre braided

COVER: oil and weather resistant polyurethane

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric Size	Inch Size	SAE Dash Size	ID Standard	OD Standard	Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	mm	mm	Mpa	Bar	Psi	Mpa	mm	Kg/m
*3.5	1/8	2	3.5	7.1	35	350	5070	140	30	35
*5	3/16	3	4.8	10.3	35	350	5070	140	35	65
6.3	1/4	4	6.3	12.3	38	375	5440	150	40	90
8	5/16	5	7.9	14.3	33	325	4710	130	45	115
10	3/8	6	9.5	16.7	28	280	4060	112	60	145
12.5	1/2	8	12.7	19.8	25	250	3620	100	80	205
16	5/8	10	15.9	24.5	23	225	3260	90	120	290
19	3/4	12	18.9	28	18	175	2540	70	140	345
25	1	16	25.4	34	15	150	2170	60	160	450

DATA SHEET

SAE 100R13 / EN856 R13-

HIGH IMPULSE, MULTIPLE LAYERS SPIRAL STEEL WIRE
REINFORCED, RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: multiple layers of spiral steel wire wrapped

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

TEMPERATURE RANGE: -40°C~+121°C



Metric Size	Inch Size	SAE Dash Size	ID Standard		OD Standard		Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	Mpa	mm	Kg/m
12.5	1/2	8	—	—	—	—	38	380	5510	152	205	0.96
19	3/4	12	18.6	19.8	31	33.2	35	350	5080	140	240	1.53
25	1	16	25	26.4	37.6	39.8	35	350	5080	140	300	2.09
31.5	1-1/4	20	31.4	33	48.3	51.3	35	350	5080	140	420	3.76
38	1-1/2	24	37.7	39.3	55.8	58.8	35	350	5080	140	500	4.58
51	2	32	50.4	52	69.5	72.7	35	350	5080	140	640	6.69

DATA SHEET

SAE 100R12 / EN856 R12-

HIGH IMPULSE, FOUR LAYERS SPIRAL STEEL WIRE REINFORCED,
RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: four layers of spiral steel wire wrapped

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

TEMPERATURE RANGE: -40°C~+121°C



Metric Size	Inch Size	SAE Dash Size	ID Standard		OD Standard		Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	Mpa	mm	Kg/m
10	3/8	6	9.3	10.1	19.5	21	28	280	4060	112	125	0.7
12.5	1/2	8	12.3	13.5	23	24.6	28	280	4060	112	180	0.88
16	5/8	10	15.5	16.7	26.5	28.2	28	280	4060	112	200	1.06
19	3/4	12	18.6	19.8	29.9	31.5	28	280	4060	112	240	1.38
25	1	16	25	26.4	36.8	39.2	28	280	4060	112	300	1.96
31.5	1-1/4	20	31.4	33	45.4	48.6	21	210	3050	84	420	2.61
38	1-1/2	24	37.7	39.3	51.9	55	17.5	175	2540	70	500	3.05
51	2	32	50.8	52	65.1	68.3	17.5	175	2540	70	640	4.5

DATA SHEET

SAE 100R14-PTFE HOSE

INNER TUBE: PTFE

COVER: stainless steel wire braided

APPLICATION: food industry, high and low temperature fluids, chemical industry, compressor discharge ect.

TEMPERATURE RANGE: -73°C~+260°C



Metric Size	Inch Size	SAE Dash Size	ID Standard	OD Standard	Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	mm	mm	Mpa	Bar	Psi	Mpa	mm	g/m
3	1/8	2	3.5	6.6	11	105	1522	82.7	40	65
5	3/16	3	4.8	7.9	11	105	1522	68.9	50	95
6.3	1/4	4	6.4	9.5	11	105	1522	62	75	120
8	5/16	5	8	11.1	11	105	1522	55.2	100	160
10	3/8	6	9.5	12.6	11	105	1522	48.3	125	170
12.5	1/2	8	12.9	16.1	6	56	812	41.4	165	240
16	5/8	10	16.2	19.7	6	56	812	34.5	200	280
19	3/4	12	19	23.6	6	56	812	27.6	230	330
22	7/8	14	22.3	26.4	6	56	812	24.1	230	390
25	1	16	25.5	29.6	6	56	812	24.1	300	460

DATA SHEET

SAE 100R15-

HEAVY DUTY, HIGH IMPULSE, MULTIPLE LAYERS SPIRAL STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: multiple layers of spiral heavy steel wire wrapped

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

TEMPERATURE RANGE: -40°C~+121°C



Metric Size	Inch Size	SAE Dash Size	ID Standard		OD Standard	Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	Min	Max	Max	Mpa	Bar	Psi	Mpa	mm	Kg/m
10	3/8	6	9.3	10.1	23.3	42	420	6090	168	150	0.91
12.5	1/2	8	12.3	13.5	26.8	42	420	6090	168	200	1.21
19	3/4	12	18.6	19.8	36.1	42	420	6090	168	265	2.25
25	1	16	25	26.4	42.9	42	420	6090	168	330	3.12
31.5	1-1/4	20	31.4	33	51.5	42	420	6090	168	445	3.87
38	1-1/2	24	37.7	39.3	59.6	42	420	6090	168	530	5.29

DATA SHEET

**SAE 100R17-COMPACT, 21MPA MAXIMUM WORKING PRESSURE,
ONE LAYER OR TWO LAYERS STEEL WIRE REINFORCED, RUBBER
COVERED HYDRAULIC HOSE**

INNER TUBE: Nylon

REINFORCEMENT: one layer or two layers of aramid fibre braided

COVER: oil and weather resistant polyurethane

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric Size	Inch Size	SAE Dash Size	ID Standard		OD Standard	Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	Min	Max	Max	Mpa	Bar	Psi	Mpa	mm	Kg/m
5	3/16	3	4.6	5.4	11.6	21	210	3045	84	45	0.18
6.3	1/4	4	6.2	7	13.2	21	210	3045	84	50	0.21
8	5/16	5	7.7	8.5	15	21	210	3045	84	55	0.26
10	3/8	6	9.3	10.1	17	21	210	3045	84	65	0.32
12.5	1/2	8	12.3	13.5	21.1	21	210	3045	84	90	0.42
16	5/8	10	15.5	16.7	25.9	21	210	3045	84	100	0.73
19	3/4	12	18.6	19.8	30.3	21	210	3045	84	120	0.93
25	1	16	25	26.4	38.6	21	210	3045	84	150	1.32

DATA SHEET

SAE 100R16-COMPACT, HIGH PRESSURE, TWO LAYERS STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: Nylon

REINFORCEMENT: one layer or two layers of aramid fibre braided

COVER: oil and weather resistant polyurethane

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE: -40°C~+100°C



Metric Size	Inch Size	SAE Dash Size	ID Standard		OD Standard	Max W.P			Min B.P	Min B.R	W.T
mm	Inches	Dash	Min	Max	Max	Mpa	Bar	Psi	Mpa	mm	Kg/m
6.3	1/4	4	6.2	7	14.5	35	350	5075	140	50	0.31
8	5/16	5	7.7	8.5	15.7	29.7	297	4307	119	55	0.35
10	3/8	6	9.3	10.1	18.8	28	280	4060	112	65	0.47
12.5	1/2	8	12.3	13.5	22	24.5	245	3553	98	90	0.54
16	5/8	10	15.5	16.7	25.4	19.2	192	2784	77	100	0.7
19	3/4	12	18.6	19.8	29	15.7	157	2277	63	120	0.86
25	1	16	25	26.4	36.6	14	140	2030	56	150	1.2
31.5	1-1/4	20	31.4	33	44.3	11.3	113	1639	45	210	1.6

DATA SHEET

EN856 4SP-FOUR LAYERS STEEL WIRE SPIRAL HIGH PRESSURE HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: four layers of spiral steel wire wrapped

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

TEMPERATURE RANGE: -40°C~+100°C



Metric size	Inch size	SAE DASH SIZE	ID		OD		Max W.P			Min B.P	Min B.R	W.T
			Standard									
mm	inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	mpa	mm	kg/m
6.3	1/4	04	6.2	7	17.1	18.7	45	450	6530	180	150	0.6
10	3/8	06	9.3	10.1	20.6	22.2	44.5	445	6450	178	180	0.76
12.5	1/2	08	12.3	13.5	23.8	25.4	41.5	415	6020	166	230	0.9
16	5/8	10	15.5	16.7	27.4	29	35	350	5080	140	250	1.1
19	3/4	12	18.6	19.8	31.4	33	35	350	5080	140	300	1.48
25	1	16	25	26.4	38.5	40.9	28	280	4060	112	340	2.02
31.5	1-1/4	20	31.4	33.0	49.2	52.4	21	210	3050	84	460	2.98
38	1-1/2	24	37.7	39.3	55.6	58.8	18.5	185	2680	74	560	3.55
51	2	32	50.4	52.0	68.2	71.4	16.5	165	2390	66	660	4.86

DATA SHEET

EN856 4SH-FOUR LAYER STEEL WIRE SPIRAL EXTRA HIGH PRESSURE HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: four layers of spiral steel wire wrapped

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

TEMPERATURE RANGE: -40°C~+100°C



Metric size	Inch size	SAE DASH SIZE	ID		OD		Max W.P			Min B.P	Min B.R	W.T
			Standard									
mm	inches	Dash	Min	Max	Min	Max	Mpa	Bar	Psi	mpa	mm	kg/m
16	5/8	10	——	——	——	——	45	450	6530	180	250	1.24
19	3/4	12	18.6	19.8	31.4	33	42	420	6090	168	280	1.64
25	1	16	25	26.4	37.5	39.9	38	380	5510	152	340	2.03
31.5	1-1/4	20	31.4	33	43.9	47.1	32.5	325	4710	130	460	2.45
38	1-1/2	24	37.7	39.3	51.9	55.1	29	290	4210	116	560	3.35
51	2	32	50.4	52	66.5	69.7	25	250	3630	100	700	4.50

DATA SHEET

EN857 2SC-COMPACT, TWO LAYER STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: two layers of high-tensile steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C~+100°C



Metric size	Inch size	SAE DASH SIZE	ID		OD	Max W.P			Min B.P	Min B.R	W.T
			Standard								
mm	inches	Dash	Min	Max	Max	Mpa	Bar	Psi	mpa	mm	kg/m
6.3	1/4	04	6.1	6.9	14.2	40	400	5800	160	75	0.27
8	5/16	05	7.7	8.5	16	35	350	5080	140	85	0.33
10	3/8	06	9.3	10.1	18.3	33	330	4790	132	90	0.43
12.5	1/2	08	12.3	13.5	21.5	27.5	275	3990	110	130	0.57
16	5/8	10	15.5	16.7	24.7	25	250	3630	100	170	0.69
19	3/4	12	18.6	19.8	28.6	21.5	215	3120	86	200	0.88
25	1	16	25.0	26.4	36.6	16.5	165	2390	66	250	1.27
31.5	1-1/4	20	31.4	33.0	—	13	130	1890	52	300	1.56

DATA SHEET

EN857 1SC-COMPACT, ONE LAYER STEEL WIRE REINFORCED, RUBBER COVERED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: one layer of high-tensile steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C~+100°C



Metric size	Inch size	SAE DASH SIZE	ID		OD	Max W.P			Min B.P	Min B.R	W.T
			Standard								
mm	inches	Dash	Min	Max	Max	Mpa	Bar	Psi	mpa	mm	kg/m
6.3	1/4	04	6.1	6.9	13.5	22.5	225	3260	90	75	0.17
8	5/16	05	7.7	8.5	14.5	21.5	215	3120	86	85	0.22
10	3/8	06	9.3	10.1	16.9	18	180	2610	72	90	0.28
12.5	1/2	08	12.3	13.5	20.4	16	160	2320	64	130	0.38
16	5/8	10	15.5	16.7	23	13	130	1890	52	150	0.46
19	3/4	12	18.6	19.8	26.7	10.5	105	1520	42	180	0.57
25	1	16	25.0	26.4	34.9	8.8	88	1280	35.2	230	0.85
31.5	1-1/4	20	31.4	33.0	——	7	70	1020	28	280	1.05

DATA SHEET

PTFE Hose

Inner Tube: A Helical Tape Wrapped Convuluted PTFE

Cover: A Single Braid Of Stainless Steel

Temperature Range: -54°C~+204°C

Insert: xxxx1-xx-xx (98xx) xxxx1-xx-xx (98xx) Series



HOSE PART NO.	HOSE I.D. mm	HOSE O.D. mm	MIN.BURST PERS. mpa	MAX.W.P. mpa	MIN.BEND. RAD. mm	FERRULE
9806	9.53	15.62	27.6	6.9	25.4	P00710-06
9808	12.7	19.93	34.5	8.6	38	P00710-08
9810	16	23.03	38.6	9.6	50	P00710-10
9812	19.05	26.67	30.3	7.6	63	P00710-12
9816	25.4	32.25	27.6	6.9	76	P00710-16
9820	31.75	39.88	27.6	6.9	88.9	P00710-20
9824	38.1	45.97	20.7	5.2	114	P00710-24
9832	50.8	58.93	13.5	3.4	133	P00710-32



DLYY

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