DOVAL STEEL GROUP

HEBRINOX® PIPE, FITTING AND VALVES

HYDRAULIC HOSES



SAE 100R1AT / DIN EN 853 1SN Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: Excellent oil resistant rubber.

Reinforcement: 1 layer of high tensile copper-coated steel wire braid.

Cover: Abrasion and anti-aging synthetic rubber.

Temperature range: -40°C to +125°C.

Application: For the delivery of hydraulic liquids or water based liquids.

TYPE	DASH	I.D.		W.D.	O.D.	W.P.		B.P.		Min B.R.	Weight
	—	Inch	mm	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-5	3	3/16	4.8	9.5	11.8	32	4540	128	18563	90	0.19
HQ-6	4	1/4	6.4	11.1	13.4	32	4840	128	18563	100	0.21
HQ-8	5	5/16	7.9	12.7	15.0	28	4060	112	18240	115	0.21
HQ-10	6	3/8	9.5	15.1	17.4	25.6	3712	102.4	14849	130	0.33
HQ-13	8	1/2	12.7	18.3	20.6	22.4	3248	88.6	12002	190	0.41
HQ-16	10	5/8	15.9	21.4	23.7	21	3015	81	12180	200	0.15
HQ-19	12	3/4	19.0	25.7	27.7	11.1	2088	57.6	8332	240	0.58
HQ-25	15	1	25.1	33.3	35.6	11.2	1827	44.8	8198	320	0.68
HQ-32	20	1-1/4	31.8	40.5	43.5	5	970	24	3180	420	1.23
HQ-38	21	1-1/2	38.1	48.8	50.6	5	725	20	2500	500	1.51
HQ-51	32	2	50.0	60.2	61	1	560	16	2320	630	1.37

Note: 1-1/4", 1-1/2", 2" is produced only for wrapped cover hydraulic hose.

SAE 100R2AT / DIN EN 853 2SN Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: High-grade oil-resistant rubber.

Reinforcement: Dual-layer high-tensile copper-coated steel wire braid.

Cover: Abrasion- and anti-aging-resistant synthetic rubber.

Temperature range: -40°C to +125°C.

Application: Conveyance of hydraulic fluids and water-based liquids.

TYPE	DASH	I.D.		W.D.	O.D.	W.P.		B.P.		Min B.R.	Weight
	—	Inch	mm	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-5	3	3/16	4.8	11.1	13.4	41.4	6000	165	23720	90	0.31
HQ-6	4	1/4	6.4	12.7	15	40	5800	160	22840	100	0.33
HQ-8	5	5/16	7.9	14.3	16.6	36	5250	140	20000	115	0.39
HQ-10	6	3/8	9.5	16.7	19	33.1	4800	132	18840	130	0.5
HQ-13	8	1/2	12.7	19.8	22.2	27.6	4000	110	15720	180	0.59
HQ-16	10	5/8	15.9	23	25.4	25	3630	100	14280	200	0.71
HQ-19	12	3/4	19	27	29.3	21.5	3120	85	12280	240	0.86
HQ-25	16	1	25.4	34.9	38	16.5	2400	85	9420	300	1.28
HQ-32	20	1-1/4	31.8	44.5	48.3	12.5	1820	50	7140	420	2.02
HQ-35	24	1-1/2	38.1	50.8	54.6	9	1310	36	5140	500	2.23
HQ-51	32	2	50.8	63.5	67.3	8	1160	32	4560	630	2.85

DIN EN 856 4SN Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: Oil-resistant synthetic rubber.

Reinforcement: 4 layers of high-tensile copper-coated steel wire spiral.

Cover: Abrasion- and anti-aging-resistant synthetic rubber.

Temperature range: -40°C to +125°C.

Application: For the delivery of petroleum-based hydraulic oil.

TYPE	DASH	Hose I.D.		W.D.	O.D.	W.P.		B.P.		Min B.R.	Weight
	—	Inch	mm	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-6	4	1/4	6.5	15.3	18.7	45	6500	180	26000	150	0.64
HQ-10	6	3/8	9.5	17.5	21.4	44.5	6450	180	26000	180	0.78
HQ-13	8	1/2	12.7	20.2	24	41.5	6000	166	24000	230	0.89
HQ-16	10	5/8	15.9	23.8	28.2	35	5000	140	20000	250	1.11
HQ-19	12	3/4	19	28.2	32.2	35	5000	140	20000	300	1.59
HQ-25	16	1	25.4	35.5	39.7	28	4000	112	16000	340	2.02
HQ-32	20	1-1/4	31.8	46	50.8	21	3000	84	12000	460	3.32
HQ-38	24	1-1/2	38.1	52.4	57.7	18.5	2700	74	10800	560	3.7
HQ-51	32	2	50.8	50.8	69.6	16.5	2400	66	9600	660	5.47

SAE 100R12 Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: Excellent oil-resistant synthetic rubber.

Reinforcement: 4 layers of high-tensile copper-coated steel wire spiral.

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

Standard: SAE 100R12 / GB/T 10544-2013 Standard.

Temperature range: -40°C to +121°C.

Application: For the delivery of petroleum-based hydraulic fluids.

TYPE	DASH	I.D.	W.D.	O.D.	W.P.		B.P.	Min B.R.	Weight
	—	Inch	mm	mm	MPa	Psi	MPa	mm	kg/m
HQ-10	6	3/8	17.2	20.3	27.5	4000	16000	125	0.62
HQ-13	8	1/2	20.7	23.8	27.5	4000	16000	180	0.85
HQ-16	10	5/8	24.6	27.4	27.5	4000	110.3	200	1.29
HQ-19	12	3/4	27.7	30.7	27.5	4000	110.3	240	1.47
HQ-25	16	1	34.9	38	27.5	4000	110.3	300	2.00
HQ-32	20	1-1/4	43.9	47	20.7	3000	82.7	420	2.86
HQ-38	24	1-1/2	50.4	53.5	17.2	2500	68.9	500	3.24
HQ-51	32	2	63.7	66.7	17.2	2500	68.9	630	4.80

SAE 100R15 Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: Excellent oil-resistant synthetic rubber.

Reinforcement: 4 or 6 layers of high-tensile, copper-coated steel wire spiral.

Cover: Oil-, abrasion-, and anti-aging-resistant synthetic rubber.

Standard: SAE 100R15.

Temperature range: -40°C to +121°C.

Application: Designed for the delivery of petroleum-based hydraulic fluids.

TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Min B.R.	Weight
	–	Inch	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-10	6	3/8	9.5	23.3	41.4	6000	165.5	24000	153	0.75
HQ-13	8	1/2	12.7	26.8	41.4	6000	165.5	24000	203	0.89
HQ-19	12	3/4	19	36.1	41.4	6000	165.5	24000	267	1.56
HQ-25	16	1	25.4	42.9	41.4	6000	165.5	24000	330	2.10
HQ-32	20	1-1/4	32	51.5	41.4	6000	165.5	24000	445	3.65
HQ-38	24	1-1/2	38	59.6	41.4	6000	165.5	24000	533	5.00

SAE 100R3 Low-Pressure Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: Excellent oil-resistant synthetic rubber.

Reinforcement: Two layers of fiber braid.

Cover: Oil and anti-aging synthetic rubber.

Standard: SAE 100R3 Standard.

Temperature range: -40°C to +100°C.

Application: For the delivery of petroleum-based hydraulic fluids.

TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Min B.R.	Weight
	–	Inch	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-4	3	3/16	4.8	12.7	10.5	1520	42.0	6500	75	0.16
HQ-6	4	1/4	6.4	14.3	8.7	1350	34.8	5300	75	0.19
HQ-8	5	5/16	7.9	17.5	8.4	1300	33.6	5200	100	0.26
HQ-10	6	3/8	9.5	19.0	7.8	1200	31.2	4840	100	0.28
HQ-13	8	1/2	12.7	23.8	7.0	1080	28.0	4340	125	0.40
HQ-16	10	5/8	15.9	27.0	6.1	945	24.4	3780	140	0.55
HQ-19	12	3/4	19.0	31.8	5.2	800	20.8	3220	150	0.69
HQ-25	16	1	25.4	38.0	3.9	600	15.5	2420	205	0.82
HQ-32	20	1-1/4	31.8	44.4	2.6	400	10.4	1610	250	1.00

SAE 100R6 Low Pressure Hydraulic Hose



Wrapped cover/ Smooth cover

Inner tube: Excellent oil-resistant synthetic rubber.

Reinforcement: 1 layers of high tensile fiber braid.

Cover: Oil and anti-aging synthetic rubber.

Standard: SAE J517 100RAT Standard.

Temperature range: -40°C to +100°C.

Application: For the delivery of petroleum based hydraulic fluids.

TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Min B.R.	Weight
	–	Inch	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-4	3	3/16	4.8	11.1	3.4	500	13.8	2000	50	0.11
HQ-6	4	1/4	6.4	12.7	2.8	400	11.0	1600	65	0.15
HQ-8	5	5/16	7.9	14.3	2.8	400	11.0	1600	70	0.16
HQ-10	6	3/8	9.5	15.9	2.8	400	11.0	1600	75	0.18
HQ-13	8	1/2	12.7	19.8	2.8	400	11.0	1600	100	0.26
HQ-16	10	5/8	15.9	23.0	2.4	350	9.7	1400	125	0.29
HQ-19	12	3/4	19.0	26.6	2.1	300	8.3	1200	150	0.40

SAE 100R7 Thermoplastic Hose

Smooth cover

Inner tube: Nylon.

Reinforcement: 1 or 2 Layers of synthetic fiber braid.

Cover: Black or other color polyurethane.

Standard: SAE J517 100RAT Standard.

Temperature range: -40°C to +100°C.

Application: Suitable for transfer petroleum and water based hydraulic oil, Which could be used as lubrication lines and blowout preventer control line, etc. Widely application on hydraulic lifts, agricultural machines and construction machines.



TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Min B.R.	Weight
	—	Inch	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-4	3	1/8	3.3	8.5	17.2	2500	68.9	10000	13	0.037
HQ-6	4	3/16	4.8	10.8	20.7	3000	82.7	12000	20	0.068
HQ-8	5	1/4	6.4	13.0	20.7	3000	82.7	12000	33	0.085
HQ-10	6	5/16	7.9	15.1	17.2	2500	68.9	10000	46	0.103
HQ-13	8	3/8	9.5	17.0	15.5	2250	62.1	9000	51	0.141
HQ-16	10	1/2	12.7	20.7	13.8	2000	55.2	8000	76	0.210
HQ-19	12	3/4	19.0	27.1	8.6	1250	34.5	5000	127	0.287
HQ-25	16	1	25.4	34.0	6.9	1000	27.6	4000	203	0.542

SAE 100R8 Thermoplastic Hose

Smooth cover

Inner tube: Nylon.

Reinforcement: 2 layers of synthetic fiber braid.

Cover: Black or other color polyurethane.

Standard: SAE J517 100RAT Standard.

Temperature range: -40°C to +100°C.

Application: Suitable for transfer petroleum and water based hydraulic oil, Which could be used as lubrication lines and blow-out preventer control line, etc. Widely application on hydraulic lifts, agricultural machines and construction machines.



TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Min B.R.	Weight
	–	Inch	mm	mm	MPa	Psi	MPa	Psi	mm	kg/m
HQ-4	3	3/16	4.8	13.1	34.5	5000	137.9	20000	38	0.115
HQ-6	4	1/4	6.4	15.9	34.5	5000	137.9	20000	51	0.176
HQ-10	6	3/8	9.5	19.4	27.6	4000	110.3	16000	64	0.220
HQ-13	8	1/2	12.7	22.7	24.1	3500	96.5	14000	102	0.283

SAE 100R14 PTFE HOSE



Smooth cover

Inner tube: High-temperature- and chemical-resistant PTFE.

Cover: Stainless steel wire braid.

Temperature range: -60°C to +260°C.

TYPE	DASH	I.D.		O.D.	W.T.	W.P.		B.P.		Min B.R.
	–	Inch	mm	mm	mm	MPa	Psi	MPa	Psi	mm
HQ-6	4	1/4	4.65-5.16	7.32-8.43	0.89	299	4330	897	13000	71
HQ-8	5	5/16	5.97-6.81	8.26-9.42	0.76	276	4000	828	12000	76
HQ-10	6	3/8	7.54-8.38	10.36-11.63	0.76	230	3330	690	10000	127
HQ-13	8	1/2	9.93-10.64	12.78-14.10	0.89	183	2660	552	8000	133
HQ-16	10	5/8	12.57-13.34	12.75-16.76	0.76	161	2330	483	7000	177
HQ-19	12	3/4	15.24-16.51	18.62-20.14	0.76	138	2000	414	6000	203
HQ-25	16	1	21.46-22.99	24.64-26.95	0.89	103	1500	310	4500	241
HQ-32	20	1-1/4	27.80-29.40	31.90-33.50	1.00	41	600	172	2500	406

Steam Hose Q/HYL03-S

Construction: Steam hoses are made of excellent heat resistant rubber and braided copperfacing wire.

Applications: For conveying saturated steam and superheated water continually at a temperature below 150℃ or intermittently at a temperature below 160℃.



One high tensile steel wire braid 1W/B

TYPE	I.D.		O.D.	W.P.		B.P.		Min B.R.
	Inch	mm	mm	MPa	Psi	MPa	Psi	mm
HQ-10-1	3/8	11.4+0.5	21.5	1.0	150	10	1450	130
HQ-13-1	1/2	13.5+0.5	24.5	1.0	150	10	1450	180
HQ-16-1	5/8	15.8+0.5	27.5	1.0	150	10	1450	205
HQ-19-1	3/4	19.0+0.5	30.5	1.0	150	10	1450	240
HQ-22-1	7/8	22.0+0.5	33.5	1.0	150	10	1450	280
HQ-25-1	1	25.2+0.5	37.0	1.0	150	10	1450	300
HQ-28-1	1-1/4	28.6+0.6	44.0	1.0	150	10	1450	420
HQ-32-1	1-1/2	32.0+0.6	50.5	1.0	150	10	1450	500
HQ-40-1	1-3/4	39.5±0.8	57.5	1.0	150	10	1450	500
HQ-46-1	2	45.8+0.8	63.5	1.0	150	10	1450	630
HQ-56-1	2-1/2	56.5+0.8	77.5	1.0	150	10	1450	700

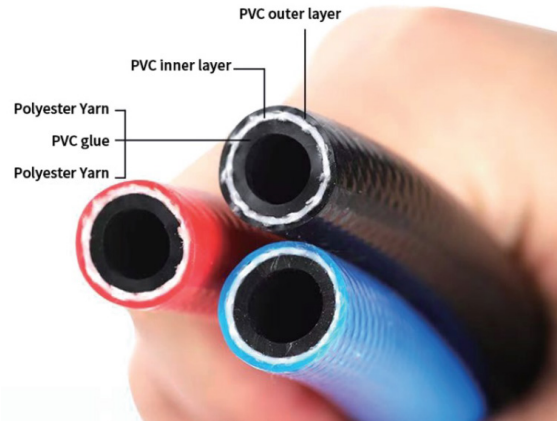
Two high tensile steel wire braids 2W/B

TYPE	I.D.		O.D.	W.P.		B.P.		Min B.R.
	Inch	mm	mm	MPa	Psi	MPa	Psi	mm
HQ-10-2	3/8	11.4+0.5	23.0	2.0	300	20	2900	130
HQ-13-2	1/2	13.5+0.5	26.0	2.0	300	20	2900	180
HQ-16-2	5/8	15.8+0.5	29.0	2.0	300	20	2900	205
HQ-19-2	3/4	19.0+0.5	32.0	2.0	300	20	2900	240
HQ-22-2	7/8	22.0+0.5	35.0	2.0	300	20	2900	280
HQ-25-2	1	25.2+0.5	38.5	2.0	300	20	2900	300
HQ-28-2	1-1/4	28.6+0.6	45.5	2.0	300	20	2900	420
HQ-32-2	1-1/2	32.0+0.6	52.0	2.0	300	20	2900	500
HQ-40-2	1-3/4	39.5+0.8	59.0	2.0	300	20	2900	500
HQ-46-2	2	45.8+0.8	65.0	2.0	300	20	2900	630
HQ-56-2	2-1/2	56.5+0.8	79.0	2.0	300	20	2900	700

PVC Air Hose

Smooth cover / Matte Finish

Inner tube: High-quality PVC.
Reinforcement: Two-layer reinforced polyester yarn.
Cover: High-quality PVC with pressure-resistant, temperature-resistant, and explosion-proof properties.
Temperature range: -15°C to + 70°C.



TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Weight
	—	Inch	mm	mm	MPa	Psi	MPa	Psi	kg/m
HQ-6	4	1/4	6	12	4	580	12	1740	0.115
HQ-8	5	5/16	8	14	4	580	12	1740	0.14
HQ-10	6	3/8	10	16	3.5	510	11	1600	0.17
HQ-12	8	1/2	12	19	3	435	9	1300	0.23
HQ-13	10	1/2	13	21	3	435	9	1300	0.28
HQ-16	12	5/8	16	23	2.5	370	7.5	1000	0.3
HQ-19		3/4	19	27	2.5	370	7.5	1000	0.4
HQ-25	16	1	25	33	1	300	6	870	0.5
HQ-32	20	1-1/4	32	42	1	150	3	440	0.8
HQ-38	24	1-1/2	38	48	1	116	3	230	0.9
HQ-51	32	2	51	62	1	116	3	230	1.46

PVC Water Hose



Smooth cover Transparent

Inner tube: Acid- and alkali-resistant, chemical-resistant, and oil-resistant PVC.
Reinforcement: One layer of reinforced fiber braid.
Cover: Friction-resistant and weather-resistant PVC material.
Temperature range: -5°C to +65°C.
Application: Ideal tubing for water, steam, and oil supply, as well as for various supporting export equipment in common applications such as industry, agriculture, fisheries, construction, and households.

TYPE	DASH	I.D.		O.D.	W.P.		B.P.		Weight
	-	Inch	mm	mm	MPa	Psi	MPa	Psi	kg/roll
HQ-6	4	1/4	6	11	0.8	116	2.4	348	10
HQ-8	5	5/16	8	13	0.8	116	24	348	10
HQ-10	6	3/8	10	16	0.8	116	24	348	10
HQ-13	8	1/2	13	18	0.5	72	1.5	217	20
HQ-16	10	5/8	16	21	0.4	58	1.2	174	20
HQ-19	12	3/4	19	24	0.3	44	0.9	130	20
HQ-25	16	1	25	30	0.3	44	0.9	130	20

The maximum size can be up to 3 inches, and the wall thickness can be customized. Please consult customer service for details.

PVC Steel Wire Spiral Hose

Smooth cover Transparent



Inner tube: Acid and alkali resistant, drug resistant, oil resistant PVC.
Reinforcement: One-layer spiral steel wire.
Cover: It is resistant to friction, has excellent weather resistance, and strong negative pressure resistance.
Temperature range: -5°C to +65°C.
Application: The product is an ideal pipe material for pumping and conveying water, oil, and powder materials in industry, agriculture, and engineering.

TYPE	DASH	I.D.		W.T.	O.D.	W.P.	B.P.	Weight
	–	Inch	mm	mm	mm	MPa	MPa	kg/roll
HQ-8	5	5/16	8	2.5	13	0.6~0.7	1.8~2.1	13
HQ-10	6	3/8	10	3	16	0.6~0.7	1.8~2.1	20
HQ-13	10	1/2	13	2.5	18	0.4~0.5	1.2~1.5	23
HQ-16	12	5/8	16	2.5	21	0.4~0.5	1.2~1.5	22
HQ-19		3/4	19	3	25	0.4~0.5	1.2~1.5	15
HQ-25	16	1	25	3	31	0.4~0.5	1.2~1.5	20
HQ-32	20	1-1/4	32	4	40	0.4~0.5	1.2~1.5	35
HQ-38	24	1-1/2	38	4	46	0.4~0.5	1.2~1.5	40
HQ-51	32	2	50	3.5	57	0.4~0.5	1.2~1.5	50

The maximum size can be up to 12 inches, and the wall thickness can be customized.
Please consult customer service for details.

PVC Flat Hose

Purpose and Features

The water hose is widely applicable for agricultural and forestry irrigation, as well as supporting use in industrial and mining enterprises. Suitable for fluid transmission under high pressure at low or medium operating temperatures.



It possesses the following characteristics:

1. Characterized by resistance to stretching, fracture, high pressure, and low expansion rate.
2. Lightweight and soft, with bright colors, it is resistant to corrosion, aging, wear, and UV rays.
3. Odorless and environmentally friendly products.
4. When transporting liquids at low temperatures, it can remain soft and elastic.

TYPE	I.D.		W.P.	B.P.	Weight	Weight
	Inch	mm	Bar	Bar	kg/roll	m/roll
HQ-1	1	8	2.5	2.5	2.5	13
HQ-2	1-1/4	10	3	3	3	20
HQ-3	1-1/2	13	2.5	2.5	2.5	23
HQ-4	2	16	2.5	2.5	2.5	22
HQ-5	2-1/2	19	3	3	3	15
HQ-6	3	25	3	3	3	20
HQ-7	3-1/2	32	4	4	4	35
HQ-8	4	38	4	4	4	40
HQ-9	5	50	3.5	3.5	3.5	50
HQ-10	6	50	3.5	3.5	3.5	50
HQ-11	8	50	3.5	3.5	3.5	50

The maximum size can be up to 8 inches, and the wall thickness can be customized.
Please consult customer service for details.

Multi-Purpose Rubber Hose

Wrapped cover

Inner tube: High-quality wear-resistant rubber.
Reinforcement: Three to seven layers of reinforced fabric.
Cover: Friction-resistant and weather-resistant rubber.
Temperature range: -20°C to +100°C.
Application: Suitable for scenarios such as watering trucks, yard irrigation, agricultural irrigation, air compressors, water pump operations, and wire and cable wrapping.



NO.	I.D.		W.P.		Remarks
	Inch	mm	Bar	°C	m/roll
HQ-1	1/2	13	10~20	-20°C~100°C	20m/roll
HQ-2	5/8	16	10~20	-20°C~100°C	20m/roll
HQ-3	3/4	19	10~20	-20°C~100°C	20m/roll
HQ-4		22	10~20	-20°C~100°C	20m/roll
HQ-5	1	25	10~20	-20°C~100°C	20m/roll
HQ-6		28	10~20	-20°C~100°C	20m/roll
HQ-7		30	10~20	-20°C~100°C	20m/roll
HQ-8	1-1/4	32	10~20	-20°C~100°C	20m/roll
HQ-9		35	10~20	-20°C~100°C	20m/roll
HQ-10	1-1/2	38	10~20	-20°C~100°C	20m/roll
HQ-11		40	10~20	-20°C~100°C	20m/roll
HQ-12		42	10~20	-20°C~100°C	20m/roll
HQ-13	1-3/4	45	10~20	-20°C~100°C	20m/roll
HQ-14	2	50	10~20	-20°C~100°C	20m/roll

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