

HEATER HOSE - SAE J20R3

Application	Connecting heater systems and other components in the engine coolant circulating systems of ground vehicles
Compatible Fluid	Automotive coolants, corrosion Inhibitors, cooling water, water
Properties	Synthetic rubber tube resistant to water loss, electrochemical degradation and heat; Synthetic fibre reinforcement layer; Synthetic rubber cover with heat, abrasion and ozone resistance
SAE Specification	Heater Hose Specification SAE J20R3 Type EC Class D-1 and D-2, ECD resistance as defined by SAE J1684, Improved service D-1 rating for long service life
Temperature	-40°C to 125°C (-40°F to 257°F)
Inner Tube	Ethylene Propylene Diene Monomer Rubber (EPDM)
Reinforcement	Spiral Polyester Fibre (PFY)
Outer Cover	Ethylene Propylene Diene Monomer Rubber (EPDM)

WARNING Not suitable for fuel, oil or brake fluid applications

Part No.	Nominal Dimensions			Length		Maximum Working Pressure		SAE J20R3				Packaging
	ID		OD					Minimum Burst Pressure		Vacuum Rating (>80% of OD @)		
	mm	In.	mm	m	ft.	psi	MPa	psi	MPa	kPa	In.hg	
HH08X2	7.9	5/16	15	2	6.5	62	0.43	249	1.72	33.8	10	Plastic Bag
HH08X15	7.9	5/16	15	15.25	50	62	0.43	249	1.72	33.8	10	Box
HH10TWX2	9.5	3/8	16.1	2	6.5	62	0.43	249	1.72	33.8	10	Plastic Bag
HH10TWX20	9.5	3/8	16.1	20	65.6	62	0.43	249	1.72	33.8	10	Box
HH010X2	9.5	3/8	17.5	2	6.5	62	0.43	249	1.72	33.8	10	Plastic Bag
HH010X15	9.5	3/8	17.5	15.25	50	62	0.43	249	1.72	33.8	10	Box
HH013X2	12.7	1/2	20.7	2	6.5	62	0.43	249	1.72	33.8	10	Plastic Bag
HH013X15	12.7	1/2	20.7	15.25	50	62	0.43	249	1.72	33.8	10	Box
HH016X2	15.9	5/8	23.9	2	6.5	62	0.43	249	1.72	27.0	8	Plastic Bag
HH016X15	15.9	5/8	23.9	15.25	50	62	0.43	249	1.72	27.0	8	Box
HH019X2	19	3/4	27	2	6.5	51	0.35	200	1.38	23.6	7	Plastic Bag
HH019X15	19	3/4	27	15.25	50	51	0.35	200	1.38	23.6	7	Box



WINDSCREEN WASHER TUBING - SAE J1037

Application	Windscreen or headlight washer systems and vacuum applications
Compatible Fluid	Windscreen washer fluid, water, air
Properties	Synthetic rubber tube with heat and ozone resistance
SAE Specification	Windscreen Washer Tubing Specification SAE J1037
Temperature Range	-40°C to 125°C (-40°F to 257°F)
Non-Reinforced Tube	Ethylene Propylene Diene Monomer Rubber (EPDM)

WARNING Not suitable for fuel, oil or brake fluid applications

Part No.	Nominal Dimensions			Length		Maximum Working Pressure		SAE J1037				Packaging
	ID		OD					Minimum Burst Pressure		Vacuum Rating (>70% of OD @)		
	mm	In.	mm	m	ft.	psi	MPa	psi	MPa	kPa	In.hg	
WT3.2X2	3.2	1/8	8.3	2	6.5	25	0.17	101	0.7	81	24	Plastic Bag
WT3.2X10	3.2	1/8	8.3	10	32.8	25	0.17	101	0.7	81	24	Small Box
WT4.8X2	4.8	3/16	7.6	2	6.5	25	0.17	101	0.7	81	24	Plastic Bag
WT4.8X10	4.8	3/16	7.6	10	32.8	25	0.17	101	0.7	81	24	Small Box
WT6.3X2	6.3	1/4	9.6	2	6.5	25	0.17	101	0.7	81	24	Plastic Bag
WT6.3X10	6.3	1/4	9.6	10	32.8	25	0.17	101	0.7	81	24	Small Box



RADIATOR OVERFLOW HOSE

Application	Radiator overflow, header tanks and vacuum applications
Compatible Fluid	Automotive coolants, corrosion inhibitors, cooling water, water
Properties	Synthetic rubber tube resistant to water loss, electrochemical degradation, ozone and heat
Specification	Mackay Overflow Hose Specification E594X
Temperature Range	-40°C to 125°C (-40°F to 257°F)
Non-Reinforced Tube	Ethylene Propylene Diene Monomer Rubber (EPDM)

WARNING Not suitable for fuel, oil or brake fluid applications

Part No.	Nominal Dimensions			Length		E594X						Packaging
	ID		OD			Maximum Working Pressure		Minimum Burst Pressure		Vacuum Rating (>70% of OD @)		
	mm	In.	mm	m	ft.	psi	MPa	psi	MPa	kPa	In.hg	
OFH08X2	7.9	5/16	13.1	2	6.5	25	0.17	101	0.7	81	24	Plastic Bag
OFH08X15	7.9	5/16	13.1	15.25	50	25	0.17	101	0.7	81	24	Box
OFH08X50	7.9	5/16	13.1	50	164	25	0.17	101	0.7	81	24	Box



EMISSIONS CONTROL, FUEL VAPOUR & VACUUM HOSE

Application	Suitable for emissions control, fuel vapour, vacuum applications and regulating turbo control valves
Compatible Fluid	Air, crankcase fumes and fuel vapour
Properties	Synthetic rubber tube resistant to vacuum collapse, fuel & oil vapour and ozone degradation
Specification	Mackay Specification H1111
Temperature Range	-34°C to 100°C (-29°F to 212°F)
Non-Reinforced Tube	Nitrile/PVC Rubber (NBR/PVC)

WARNING This hose is not suitable for fuel, oil, coolant, or brake fluid applications

Part No.	Nominal Dimensions			Length		H1111						Packaging
	ID		OD			Maximum Working Pressure		Minimum Burst Pressure		Vacuum Rating (>70% of OD @)		
	mm	In.	mm	m	ft.	psi	MPa	psi	MPa	kPa	In.hg	
EFV03X2	2.8	1/8	7.2	2	6.5	50	0.17	101	0.7	81	24	Plastic Bag
EFV03X15	2.8	1/8	7.2	15.25	50	50	0.17	101	0.7	81	24	Box
EFV04X2	4	5/32	8.4	2	6.5	50	0.17	101	0.7	81	24	Plastic Bag
EFV04X15	4	5/32	8.4	15.25	50	50	0.17	101	0.7	81	24	Box
EFV06X2	6.3	1/4	10.7	2	6.5	50	0.17	101	0.7	81	24	Plastic Bag
EFV06X15	6.3	1/4	10.7	15.25	50	50	0.17	101	0.7	81	24	Box



FUEL & OIL HOSE - SAE J30R7

Application	Suitable for low pressure fuel and oil liquid transfer or fuel and oil vapor emissions use on mobile or stationary engines
Compatible Fluid	Leaded and unleaded petrol, ethanol blended fuels (E10, E20, E85), diesel fuel, LPG vapour, lubricating oil, crankcase fumes and fuel vapour
Properties	Synthetic rubber tube resistant to fuel and oil; Synthetic fibre reinforcement layer; Synthetic rubber cover with oil, heat, abrasion and ozone resistance
SAE Specification	Low Pressure Fuel and Oil Hose Specification SAE J30R7
Temperature Range	-34°C to 125°C (-29°F to 257°F)
Permeation Rate/24h	550 gm/m ² maximum with ASTM Fuel C (50% Toluene & 50% isooctane) expect significantly higher permeation rates if fuel contains >5% oxygenates, i.e. ethanol, methanol, or MTBE
Inner Tube	Acrylonitrile Butadiene Rubber (NBR)
Reinforcement	Spiral Polyester Fibre (PFY)
Outer Cover	Chloroprene Rubber (CR)

WARNING Not suitable for fuel injection, transmission cooler, in-tank fuel submersion, coolant transfer, brake fluid or marine applications

Part No.	Nominal Dimensions			Length		SAE J30R7						Packaging
	ID		OD			Maximum Working Pressure		Minimum Burst Pressure		Vacuum Rating (>80% of OD @)		
	mm	In.	mm	m	ft.	psi	MPa	psi	MPa	kPa	In.hg	
FH05X2	4.8	3/16	10.32	2	6.5	50	0.34	250	1.72	81	24	Plastic Bag
FH05X15	4.8	3/16	10.32	15.25	50	50	0.34	250	1.72	81	24	Box
FH06X2	6.3	1/4	12.70	2	6.5	50	0.34	250	1.72	81	24	Plastic Bag
FH06X15	6.3	1/4	12.70	15.25	50	50	0.34	250	1.72	81	24	Box
FH08X2	7.9	5/16	14.29	2	6.5	50	0.34	250	1.72	81	24	Plastic Bag
FH08X15	7.9	5/16	14.29	15.25	50	50	0.34	250	1.72	81	24	Box
FH010X2	9.5	3/8	15.88	2	6.5	50	0.34	250	1.72	81	24	Plastic Bag
FH010X15	9.5	3/8	15.88	15.25	50	50	0.34	250	1.72	81	24	Box
FH013X2	12.7	1/2	19.84	2	6.5	35	0.24	175	1.2	34	10	Plastic Bag
FH013X15	12.7	1/2	19.84	15.25	50	35	0.24	175	1.2	34	10	Box
FH016X2	15.9	5/8	23.81	2	6.5	35	0.24	175	1.2	34	10	Plastic Bag
FH016X15	15.9	5/8	23.81	15.25	50	35	0.24	175	1.2	34	10	Box
FH019X2	19	3/4	28.58	2	6.5	35	0.24	175	1.2	34	10	Plastic Bag
FH019X15	19	3/4	28.58	15.25	50	35	0.24	175	1.2	34	10	Box



FUEL INJECTION HOSE - SAE J30R9

Application	Suitable to meet the demands of electronic fuel injection (EFI) systems, electronic fuel metering (EFM), throttle body injection (TBI) used on mobile or stationary engines and applications requiring high fuel permeation resistance.
Compatible Fluid	Leaded and unleaded petrol, ethanol blended fuels (E10, E20, E85), diesel fuel, oxidized sour gas, LPG vapour, lubricating oil, crankcase fumes and fuel vapour
Properties	Synthetic rubber tube resistant to chemical attack, swelling, heat and permeation; Synthetic fibre reinforcement layer; Synthetic rubber cover with oil, heat, abrasion and ozone resistance
SAE Specification	Fuel Injection Hose Specification SAE J30R9
Temperature Range	-34°C to 135°C (-29°F to 275°F) and intermittent use at 150°C (302°F)
Permeation Rate/24h	200 gm/m ² maximum with ASTM Fuel C (50% Toluene & 50% isooctane) expect significantly higher permeation rates if fuel contains >5% oxygenates, i.e. ethanol, methanol, or MTBE
Inner Tube	Fluoroelastomer Rubber (FKM)
Intermediate Layer	Epichlorohydrin Rubber (ECO)
Reinforcement	Braided Para-Aramid Fibre (PPTA)
Outer Cover	Epichlorohydrin Rubber (ECO)

WARNING

Not suitable for Methanol levels >15%, biodiesel (B5, B10, B20), transmission cooler, in-tank fuel submersion, coolant transfer, brake fluid or marine applications

Part No.	Nominal Dimensions			Length		SAE J30R9						Packaging
	ID		OD			Maximum Working Pressure		Minimum Burst Pressure		Vacuum Rating (>80% of OD @)		
	mm	In.		mm	psi	MPa	psi	MPa	kPa	In.hg		
FIH06X1	6.3	1/4	12.7	1	3.2	100	0.69	900	6.2	81	24	Plastic Bag
FIH06X7.6	6.3	1/4	12.7	7.65	25	100	0.69	900	6.2	81	24	Box
FIH08X1	7.9	5/16	14.25	1	3.2	100	0.69	900	6.2	81	24	Plastic Bag
FIH08X7.6	7.9	5/16	14.25	7.65	25	100	0.69	900	6.2	81	24	Box



TRANSMISSION OIL COOLER - SAE J1532 & POWER STEERING RETURN HOSE - SAE J189

Application	Automatic transmission oil cooling (TOC) systems and power steering return (PSR) lines
Compatible Fluid	Automatic transmission and power steering fluids
Properties	Synthetic rubber oil resistant tube; Braided synthetic reinforcement layer for high Impulse resistance; Synthetic rubber cover with oil, heat, abrasion and ozone resistance
SAE Specification	Transmission Oil Cooler Hose Specification SAE J1532 Type A Class 1 & Power Steering Return Hose Specification SAE J189 (Type A impulse cycle rating for OE level service life)
Temperature Range	-40°C to 125°C (-40°F to 248°F) average and 135°C (275°F) maximum peaks
Inner Tube	Chlorinated Polyethylene Rubber (CPE)
Reinforcement	Braided Para-Aramid Fibre (PPTA)
Outer Cover	Chlorinated Polyethylene Rubber (CPE)

WARNING

Not suitable for coolant, brake fluid or high pressure power steering line applications.

Part No.	Nominal Dimensions			Length		SAE J189		SAE J1532 Type A		J189 & J1532 Type A		SAE J1532		Packaging
	ID		OD			PSR Maximum Working Pressure		TOC Maximum Working Pressure		Minimum Burst pressure		Vacuum Rating (>75% of OD @)		
	mm	In.		psi	MPa	psi	MPa	psi	Mpa	KPa	In. Hg			
TPH08X2	7.9	5/16	15.1	2	6.5	100	0.69	250	246	1000	6.9	68	20	Plastic Bag
TPH08X10	7.9	5/16	15.1	10	32.8	100	0.69	250	246	1000	6.9	68	20	Box
TPH010X2	9.5	3/8	16.7	2	6.5	100	0.69	250	246	1000	6.9	68	20	Plastic Bag
TPH010X10	9.5	3/8	16.7	10	32.8	100	0.69	250	246	1000	6.9	68	20	Box

