

## UNIVERSAL HOSE BENDS

Mackay 45° & 90° Universal Hose Bends are available in two specifications, one is suitable for water applications and the other is suitable for **fuel and oil** applications.

### 45° & 90° UNIVERSAL HOSE BENDS - WATER

The 45° & 90° moulded water hoses are suitable for plain water and automotive coolant applications.

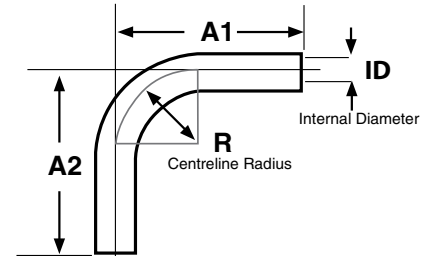
Manufactured using an electrochemical degradation (ECD) resistant EPDM rubber tube, lock-stitch knitted Rayon fibre reinforcement, with an EPDM rubber cover for heat and ozone resistance.

Sizes 8mm to 19mm ID Exceed Heater Hose Specification SAE J20R3 Type EC Class D-1 and D-2

Sizes 25mm to 63mm ID Exceed Radiator Hose specification SAE J20R4 Type EC Class D-1 and Class D-2

Working Temperature Range: -40°C to 125°C (-40°F to 257°F)

**CAUTION:** Not suitable for fuel, oil transfer or brake fluid applications.



### 45° UNIVERSAL HOSE BENDS - WATER

ID mm	ID Inches	Part No.	Arm 1 Centerline Length A1	Arm 2 Centerline Length A2	Maximum Working Pressure		SAE 20R4 Minimum Burst Pressure	
25mm	1"	UHB25-300/45	300mm	300mm	0.24 MPa	35 psi	0.97 MPa	141 psi
31mm	1 ¼"	UHB31-300/45	300mm	300mm	0.23 MPa	33 psi	0.90 MPa	131 psi
38mm	1 ½"	UHB38-300/45	300mm	300mm	0.21 MPa	30 psi	0.83 MPa	120 psi
44mm	1 ¾"	UHB44-300/45	300mm	300mm	0.19 MPa	28 psi	0.76 MPa	110 psi
50mm	2"	UHB50-300/45	300mm	300mm	0.17 MPa	25 psi	0.69 MPa	100 psi
57mm	2 ¼"	UHB57-300/45	300mm	300mm	0.16 MPa	22 psi	0.62 MPa	90 psi
63mm	2 ½"	UHB63-300/45	300mm	300mm	0.14 MPa	20 psi	0.55 MPa	80 psi

### 90° UNIVERSAL HOSE BENDS - WATER

ID mm	ID Inches	Part No.	Arm 1 Centerline Length A1	Arm 2 Centerline Length A2	Centreline Radius R	Maximum Working Pressure		SAE 20R3/R4 Minimum Burst Pressure	
8mm	5/16"	UHB8-300	300mm	300mm	50mm	0.43 MPa	62 psi	1.72 MPa	249 psi
		UHB8-300X500	300mm	500mm					
10mm	3/8"	UHB10-300	300mm	300mm	50mm	0.43 MPa	62 psi	1.72 MPa	249 psi
		UHB10-300X500	300mm	500mm					
13mm	½"	UHB13	105mm	105mm	50mm	0.43 MPa	62 psi	1.72 MPa	249 psi
		UHB13-300	300mm	300mm					
		UHB13-300X500	300mm	500mm					
16mm	5/8"	UHB16	105mm	105mm	50mm	0.43 MPa	62 psi	1.72 MPa	249 psi
		UHB16-300	300mm	300mm					
		UHB16-300X500	300mm	500mm					
19mm	¾"	UHB19	105mm	105mm	50mm	0.35 MPa	51 psi	1.38 MPa	200 psi
		UHB19-300	300mm	300mm					
		UHB19-300X500	300mm	500mm					
25mm	1"	UHB25	105mm	105mm	50mm	0.24 MPa	35 psi	0.97 MPa	141 psi
		UHB25-300	300mm	300mm					
		UHB25-300X500	300mm	500mm					
31mm	1 ¼"	UHB31	120mm	120mm	60mm	0.23 MPa	33 psi	0.90 MPa	131 psi
		UHB31-300	300mm	300mm					
		UHB31-300X500	300mm	500mm					
38mm	1 ½"	UHB38	120mm	120mm	60mm	0.21 MPa	30 psi	0.83 MPa	120 psi
		UHB38-300	300mm	300mm					
		UHB38-300X500	300mm	500mm					
44mm	1 ¾"	UHB44	140mm	140mm	70mm	0.19 MPa	28 psi	0.76 MPa	110 psi
		UHB44-300	300mm	300mm					
		UHB44-300X500	300mm	500mm					
50mm	2"	UHB50	140mm	140mm	70mm	0.17 MPa	25 psi	0.69 MPa	100 psi
		UHB50-300	300mm	300mm					
		UHB50-300X500	300mm	500mm					
57mm	2 ¼"	UHB57	170mm	170mm	85mm	0.16 MPa	22 psi	0.62 MPa	90 psi
		UHB57-300	300mm	300mm					
		UHB57-300X500	300mm	500mm					
63mm	2 ½"	UHB63	170mm	170mm	95mm	0.14 MPa	20 psi	0.55 MPa	80 psi
		UHB63-300	300mm	300mm					
		UHB63-300X500	300mm	500mm					

## 45° & 90° UNIVERSAL HOSE BENDS - FUEL & OIL

The 45° & 90° moulded Fuel & Oil hoses use two constructions depending on size.

Sizes 8mm to 19mm ID are suitable for low pressure fuel applications and are manufactured using a Nitrile (NBR) rubber tube, lock-stitch knitted Polyester fibre reinforcement, with an oil resistant Hypalon® (CSM) rubber outer cover for maximum heat and ozone protection.

Sizes 25mm to 63mm ID are suitable for fuel filler and turbo intercooler applications and are manufactured with an OE Grade Nitrile/PVC (NBR/PVC) blended rubber tube and cover for Fuel, Oil and ozone resistance, with a knitted high tensile strength Para-Aramid fibre for maximum burst protection.

Both constructions are suitable for use with leaded and unleaded petrol, Ethanol blended fuels up to E85, Diesel & Biodiesel fuels, lubricating oil as well as crankcase and fuel vapour applications.

Exceeds Fuel Hose Specification SAE J30R6

Working Temperature Range -34°C to 100°C (-29°F to 212°F)

**ATTENTION:** Some sizes are non-stocked and made to order, minimum order quantities may apply.

**CAUTION:** This hose is not suitable for fuel injection, in-tank fuel submersion, coolant, brake fluid or marine applications.



### 45° UNIVERSAL HOSE BENDS - FUEL & OIL

ID mm	ID Inches	Part No.	Arm 1 Centerline Length A1	Arm 2 Centerline Length A2	SAE 30R6 Maximum Working Pressure		SAE 30R6 Minimum Burst Pressure	
25mm	1"	UHB25-300/45N	300mm	300mm	0.11 MPa	35 psi	1.20 MPa	175 psi
31mm	1 ¼"	UHB31-300/45N	300mm	300mm				
38mm	1 ½"	UHB38-300/45N	300mm	300mm				
44mm	1 ¾"	UHB44-300/45N	300mm	300mm				
50mm	2"	UHB50-300/45N	300mm	300mm				
57mm	2 ¼"	UHB57-300/45N	300mm	300mm				
63mm	2 ½"	UHB63-300/45N	300mm	300mm				

### 90° UNIVERSAL HOSE BENDS - FUEL & OIL

ID mm	ID Inches	Part No.	Arm 1 Centerline Length A1	Arm 2 Centerline Length A2	Centreline Radius R	SAE 30R6 Maximum Working Pressure		SAE 30R6 Minimum Burst Pressure	
8mm	5/16"	UHB8-300N	300mm	300mm	50mm	0.34 MPa	50 psi	1.72 MPa	250 psi
10mm	3/8"	UHB10-300N	300mm	300mm	50mm				
13mm	1/2"	UHB13N	105mm	105mm	50mm				
16mm	5/8"	UHB13-300N	300mm	300mm	50mm	0.24 MPa	35 psi	1.20 MPa	175 psi
		UHB16N	105mm	105mm					
16mm	5/8"	UHB16-300N	300mm	300mm	50mm				
		UHB19N	105mm	105mm					
19mm	¾"	UHB19-300N	300mm	300mm	50mm				
		UHB25N	105mm	105mm					
25mm	1"	UHB25-300N	300mm	300mm	50mm				
		UHB31N	120mm	120mm					
31mm	1 ¼"	UHB31-300N	300mm	300mm	60mm				
		UHB38N	120mm	120mm					
38mm	1 ½"	UHB38-300N	300mm	300mm	60mm				
		UHB44N	140mm	140mm					
44mm	1 ¾"	UHB44-300N	300mm	300mm	70mm				
		UHB50N	140mm	140mm					
50mm	2"	UHB50-300N	300mm	300mm	70mm				
		UHB57N	170mm	170mm					
57mm	2 ¼"	UHB57-300N	300mm	300mm	85mm				
		UHB63N	170mm	170mm					
63mm	2 ½"	UHB63-300N	300mm	300mm	95mm				
		UHB63-300N	300mm	300mm					