



Windscreen Wiper and Washer Systems



P.A. Thorpe (Vehicle Components) Ltd has been Doga’s distributor in the UK for the past 35 years and has the capability to support customer requirements, including bespoke windscreen wiper and washer system designs.

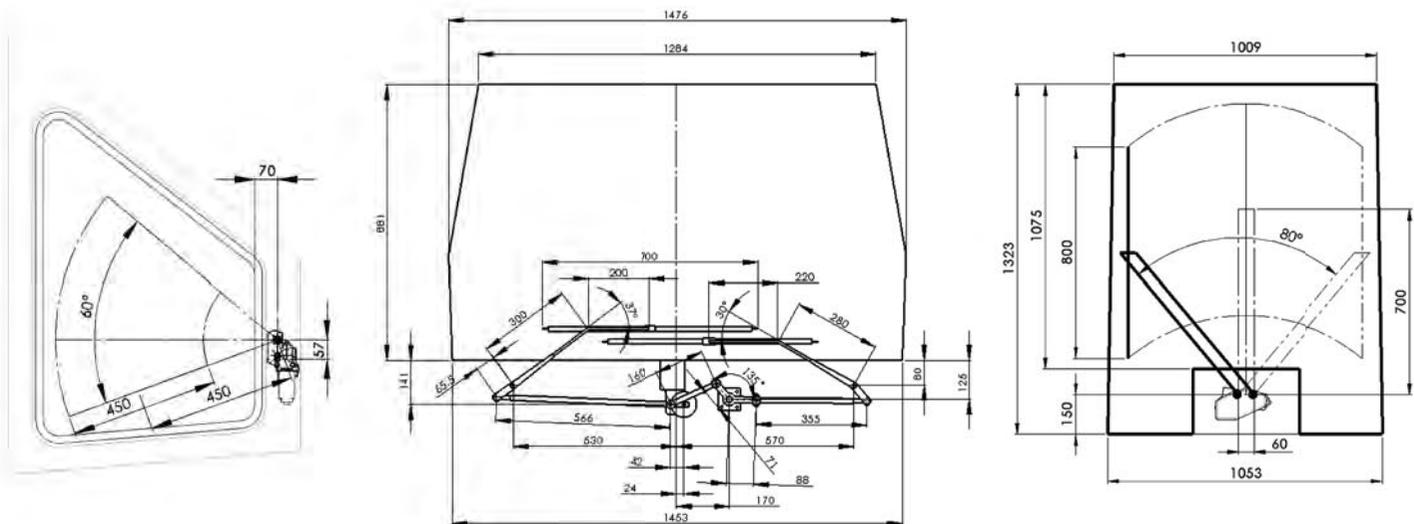
With our UK base in Skipton, we are ideally located to support both the Original Equipment and Aftermarket requirements.

Doga, established in 1958, is one of Europe’s leading manufacturers of windscreen wiper and washer systems to the Construction, Agricultural, Off-Highway, Bus and Coach industries.

With manufacturing facilities in Barcelona, Spain, China, Italy and Brazil, Doga is strategically placed to meet worldwide demand for its products.

The following pages are an over-view of the most popular parts available.

Our Sales Team is at your disposal to discuss specific customer needs.



315 Series Wiper Motor

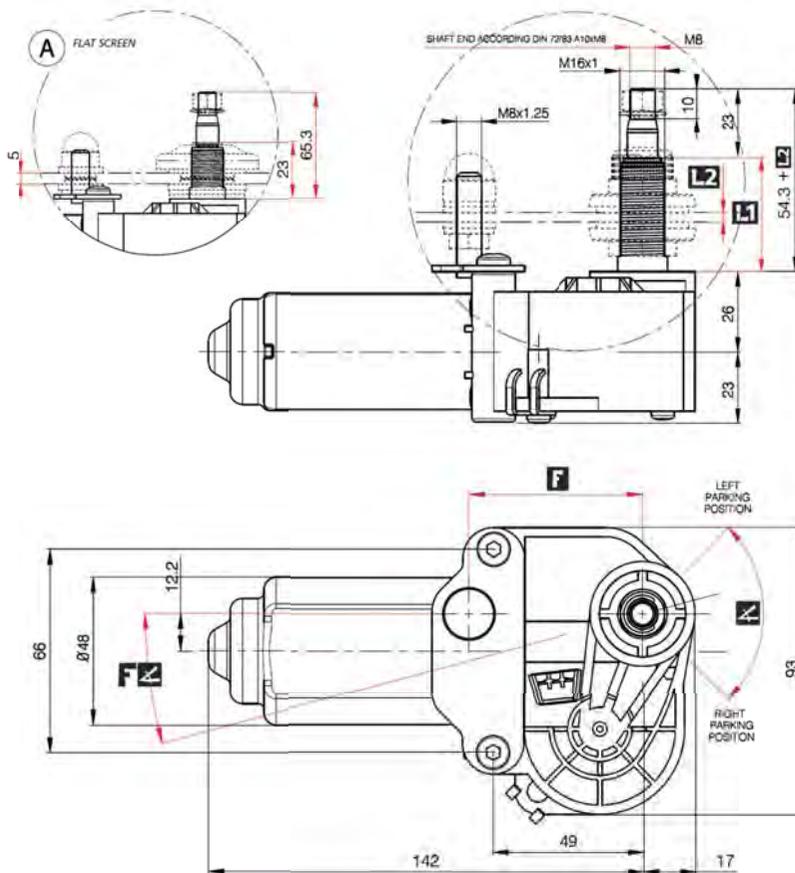
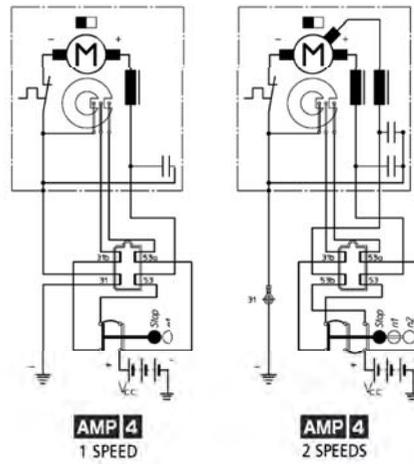
Nominal Torque	2 Nm	Stall Torque	10 Nm	Shaft - mm	M8
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Suggested Applications



Options

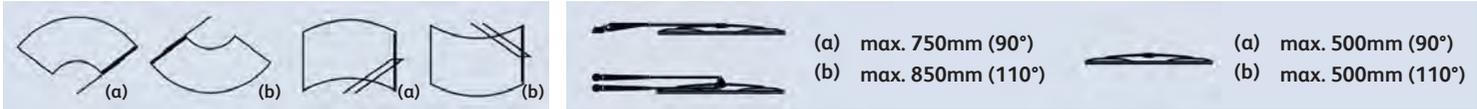
Speeds	35	35/52		
Shaft	M8			
Thermoswitch	✓			
RFI	✓			
Volts	12	24		
L mm	L1	23 (A)	35	48
	L2	5 (A)	5	18
	L1	60	70	104
	L2	30	40	74
A		55°	60°	65°
		70°	80°	88°
F	standard	57mm		
	option	50mm	60mm	
F A	standard	0°		
	option	0° (50mm)	15° (60mm)	
Connector	standard	AMP 4		
	option	Customised		
Switch	✓	✗		
Intermittent	✓	✗		
Motor Cover	✓	✗		
Park Position	<p>View from outside the vehicle</p>		Left (I)	Right (D)



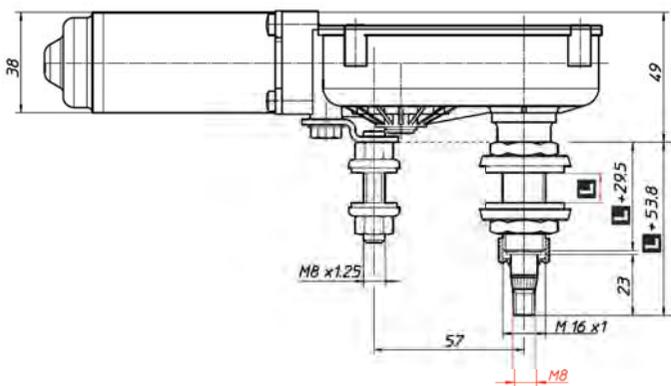
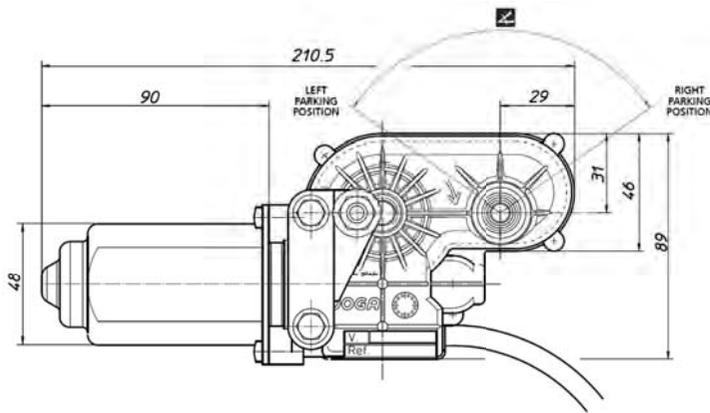
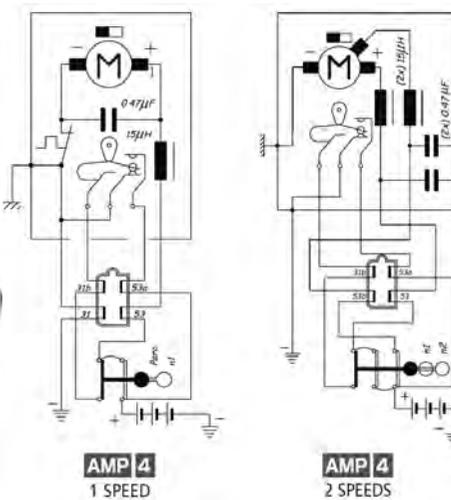
316 Series Wiper Motor

Nominal Torque	1.8 Nm	Stall Torque	10 Nm	Shaft - mm	M8
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Suggested Applications



Options



Speeds	44	44/65	
Shaft	M8		
Thermoswitch	✓		
RFI	✓		
Volts	12	24	
L mm	3.5	18.5	48.5
K	60°	70°	80°
	85°	90°	95°
	105°	110°	
Connector	standard	AMP 4	
	option	Customised	
Switch	✓	✗	
Intermittent	✓	✗	
Motor Cover	✓	✗	
Park Position	Left (I)	Right (D)	
View from outside the vehicle			

111 Series Wiper Motor

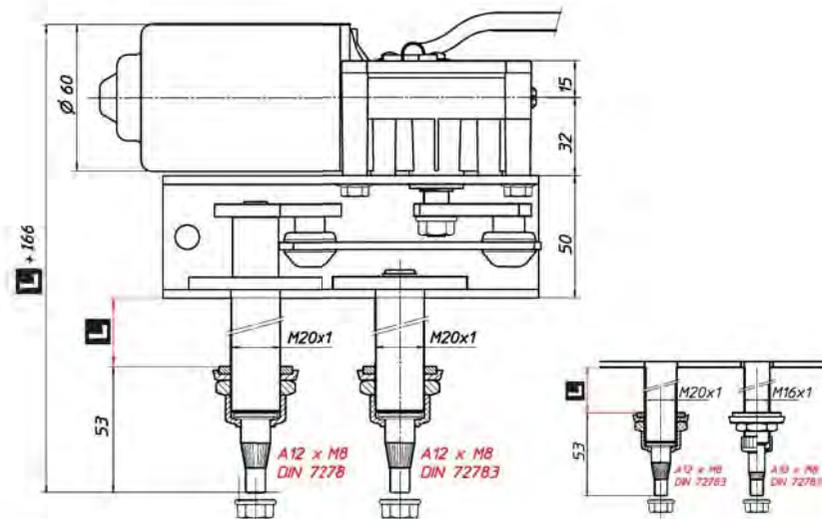
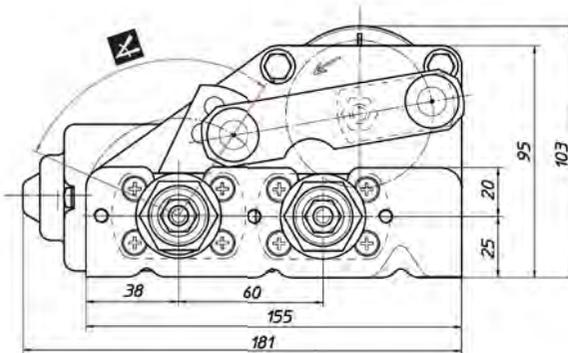
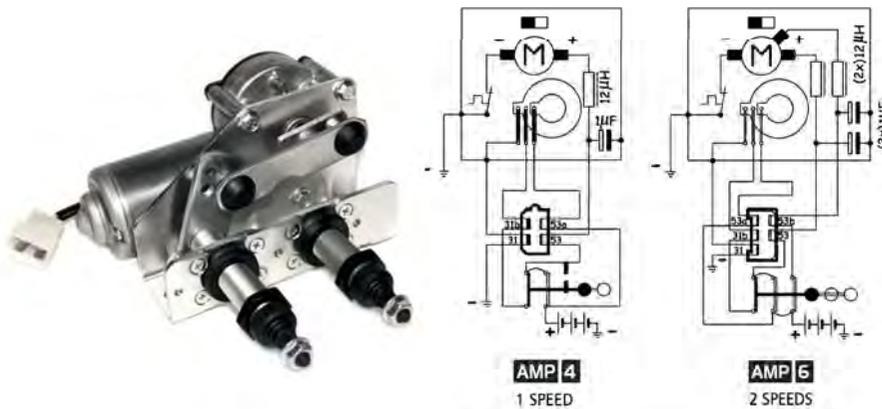
Nominal Torque	5 Nm	Stall Torque	25 Nm	Shaft - mm	M8
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Suggested Applications



Options

Speeds	34	34/52	
	50	40/58	
Shaft	M8		
Thermoswitch	✓		
RFI	✓		
Volts	12	24	
L mm	30	60	
	80	90	
Angle	50°	60°	70°
	80°	90°	
Connector	standard	AMP 4	AMP 6
	option	Customised	
Switch	✓	✗	
Intermittent	✓	✗	
Motor Cover	✗		
Park Position	View from outside the vehicle		
	Left (I)	Right (D)	



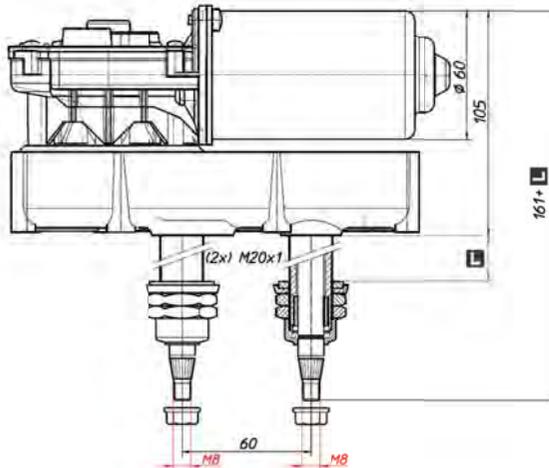
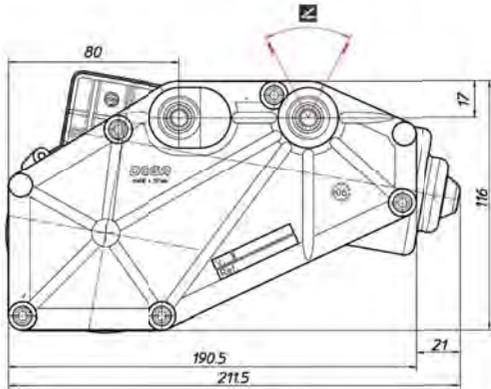
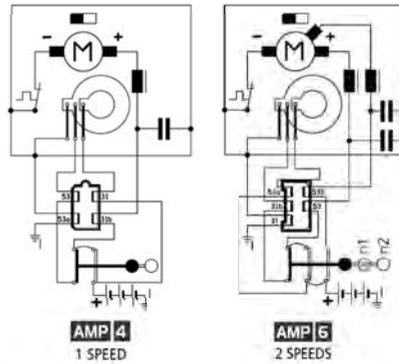
319 Series Wiper Motor

Nominal Torque	8 Nm	Stall Torque	50 Nm	Shaft - mm	M8
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Suggested Applications



Options



Speeds	34	34/52	
	40	40/63	
	50		
Shaft	M8		
Thermoswitch	✓		
RFI	✓		
Volts	12	24	
L mm	28	48	
	68		
Angle	40°	50°	55°
	60°	65°	72°
	80°	90°	
Connector	standard	AMP 4	AMP 6
	option	Customised	
Switch	✗		
Intermittent	✓	✗	
Motor Cover	✗		
Park Position	View from outside the vehicle		
	Left (I)	Right (D)	

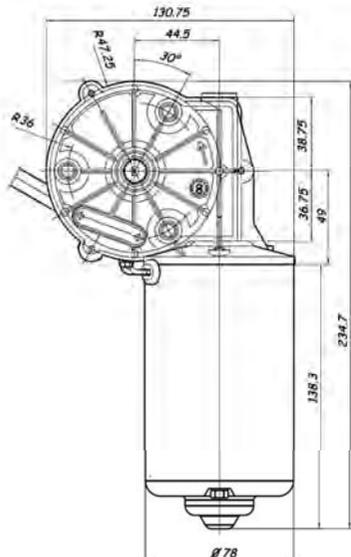
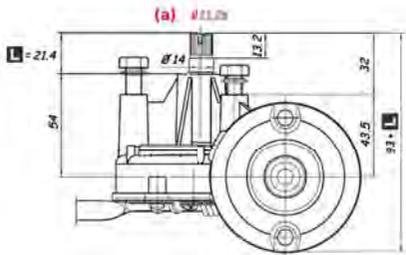
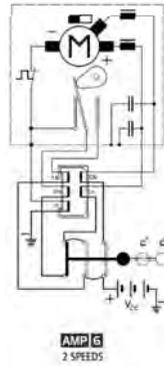
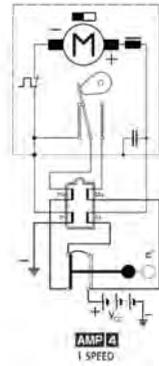
258 Series Wiper Motor

Nominal Torque	15 Nm	Stall Torque	80 Nm	Shaft - mm	Ø9.3	Ø13.26	M10
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Suggested Applications

Small to Medium Screen Multi-Arm Linkage Systems

Options



Speeds	32	32/50	
	40	40/62	
	50		
Shaft	Ø9.3	Ø13.26	M10
	Thermoswitch ✓		
	RFI ✓		
Volts	12	24	
L mm	18.3	21.4	
	27		
Connector	standard	AMP 4	AMP 6
	option	Customised	
Switch	✗		
Intermittent	✗		
Motor Cover	✗		

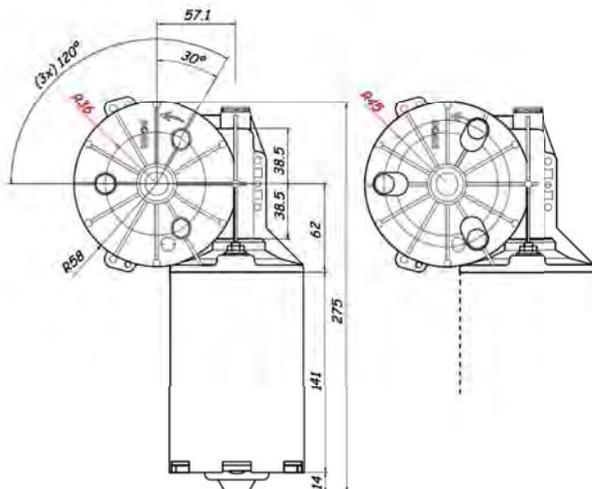
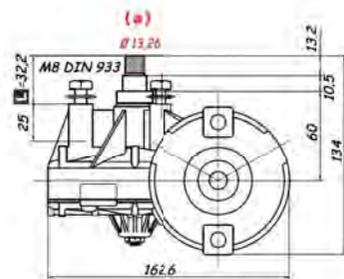
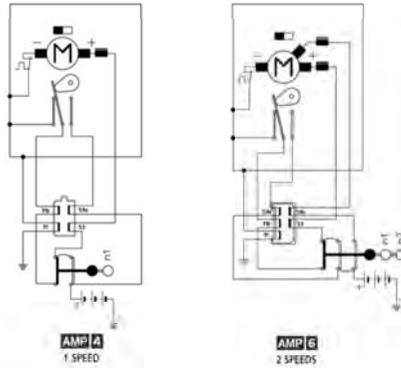
259 Series Wiper Motor

Nominal Torque	20 Nm	Stall Torque	130 Nm	Shaft - mm	Ø13.26	Ø15.70
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Suggested Applications

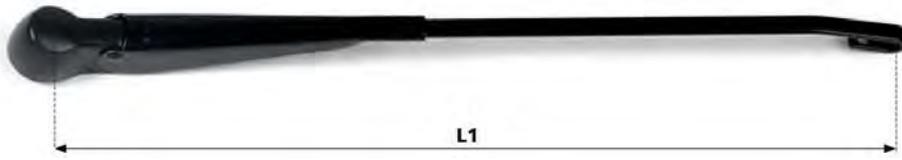
Large Screen Multi-Arm Linkage Systems

Options



Speeds	30	30/45
Shaft	Ø13.26	Ø15.70
Thermoswitch	✓	
RFI	✓	
Volts	12	24
L mm	32.2	34
Connector	standard	AMP 4
	option	AMP 6
	Customised	
Switch	✗	
Intermittent	✗	
Motor Cover	✗	

Single Wiper Arms



Options

Shaft	M8	
L1 mm	Min. 275	Max. 500
Blade Connection	Straight	
	9 x 2.5 Hook	
	9 x 3 Hook	
Washer Jet	✓	✗
Adjustable	✓	✗

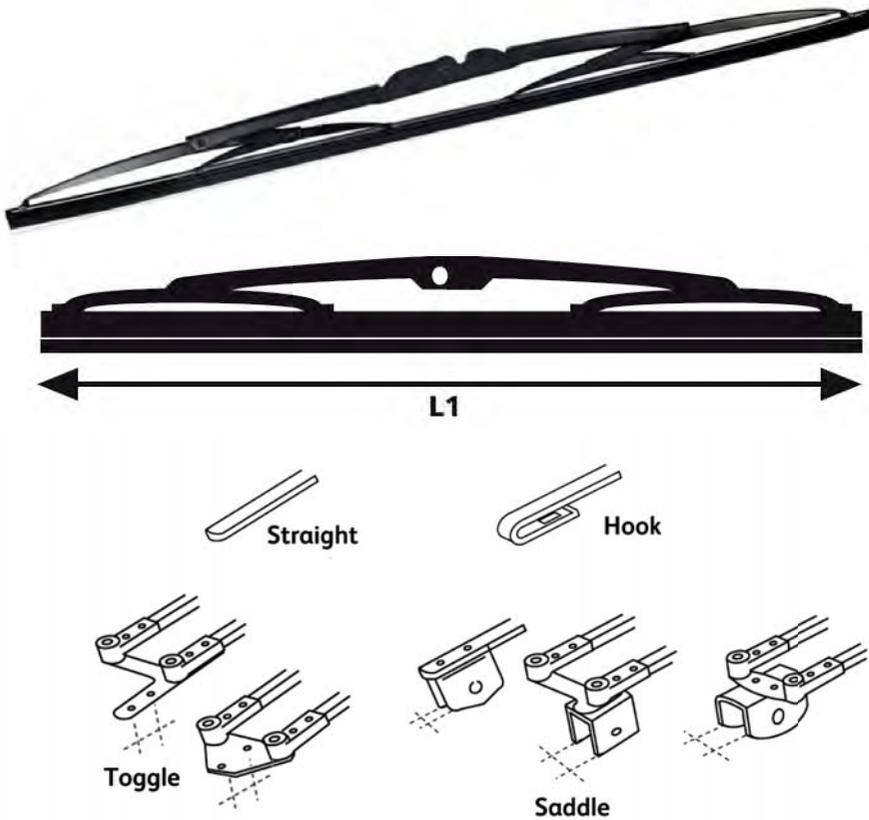
Pantograph Wiper Arms



Options

Shaft A	M8 Thread	M8 Spline	
Shaft B	M8 Spline		
L1 mm	Min. 400	Max. 1000	
L2 mm	14.5	16.5	26.5
L3 mm	55	60	
Washer Jet	✓	✗	
Adjustable	✓	✗	

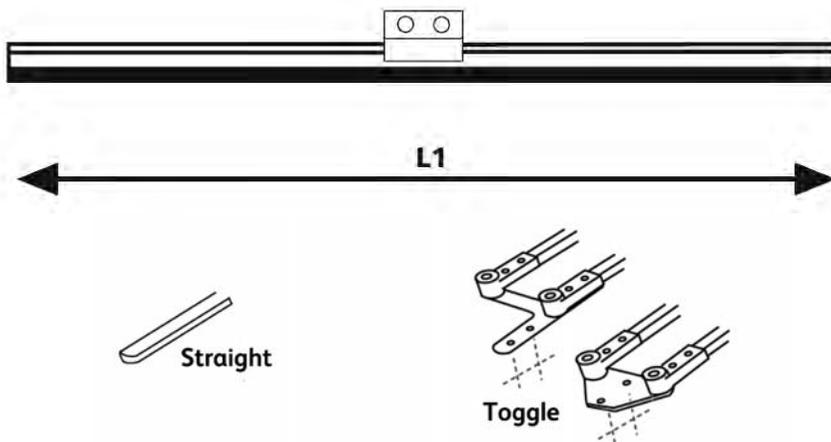
Curved Wiper Blades



Options

L1 mm	Min. 280	Max. 1360
Arm Connection	Straight	
	9 x 2.5 Hook	
	9 x 3 Hook	
	9 x 4 Hook	
	12 x 4 Hook	
	14.5 Toggle	
	16.5 Saddle	
26.5 Saddle		

Flat Wiper Blades



Options

L1 mm	Min. 200	Max. 500
Arm Connection	Straight	
	14.5 Toggle	

Washer Bottles



2L



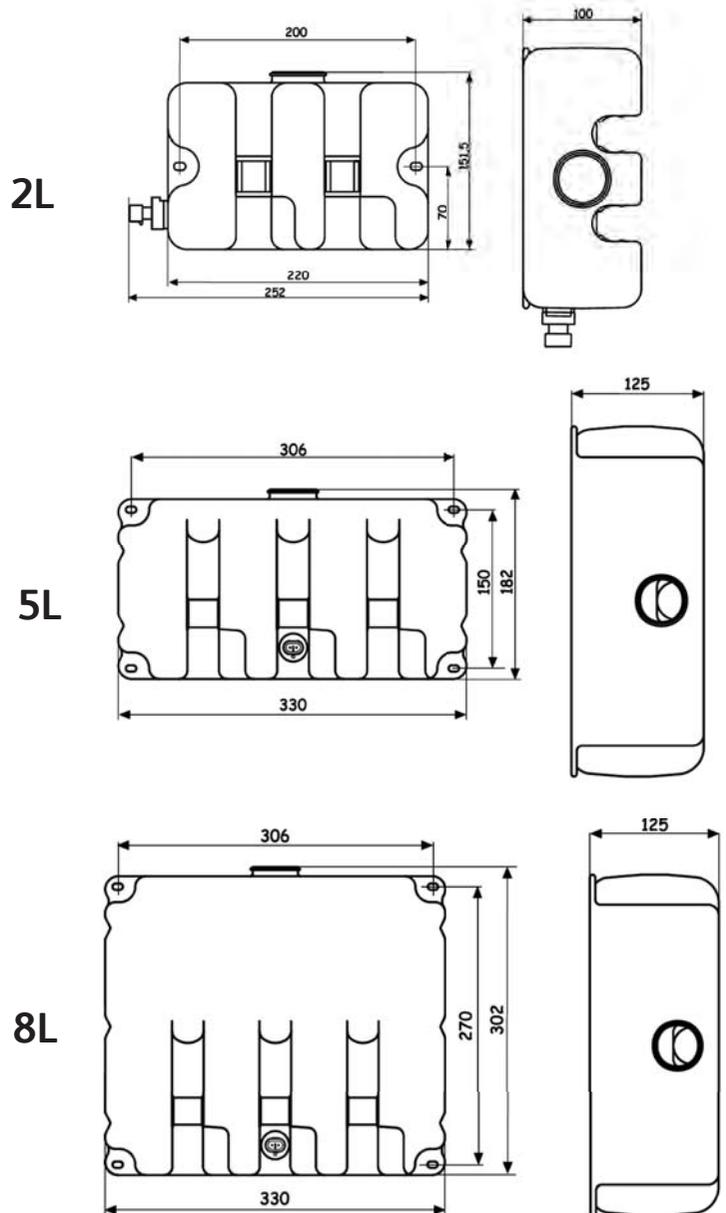
5L



8L

Options

Capacity	2L	5L	8L
Voltage	12V		24V
Washer Pumps	1	2	3
Cap Type	Ø40mm Snap-On		
Material	PE HD		
Level Sensor	✓	✗	



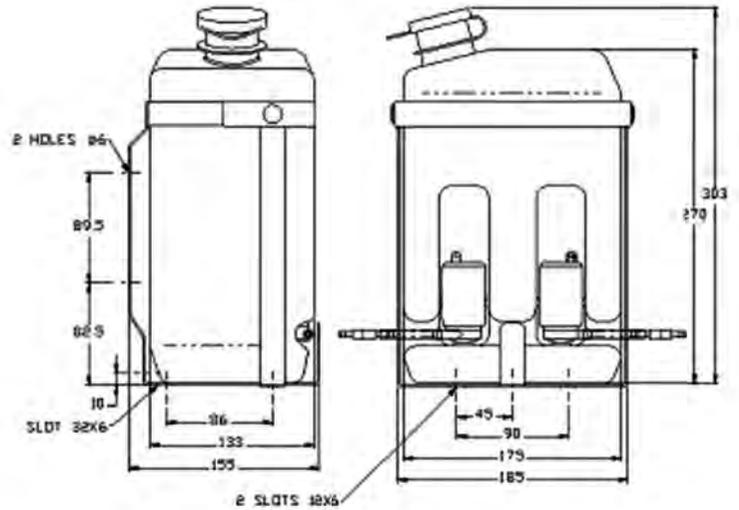
Washer Bottles

Options

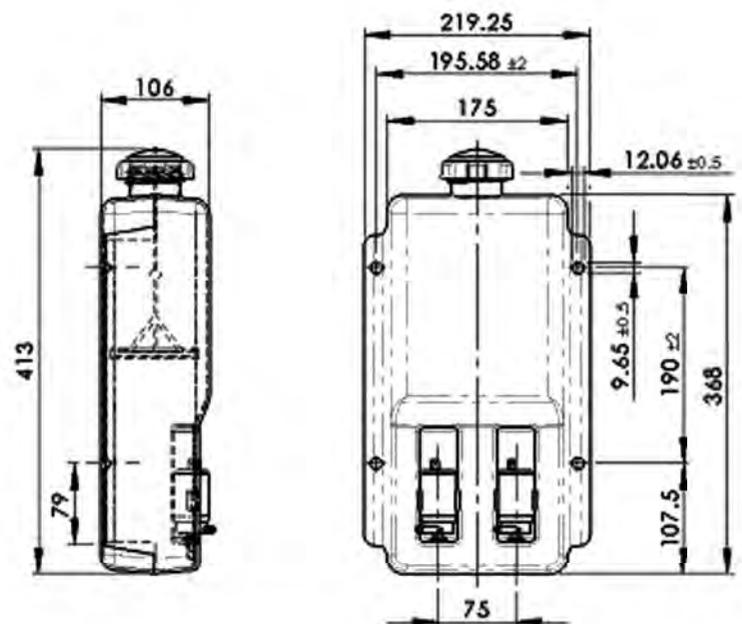
Capacity	5L	5.7L
Voltage	12V	24V
Washer Pumps	1	2
Cap Type	Ø40mm Snap-On	Ø50mm Screw-On
Material	PE	



5L



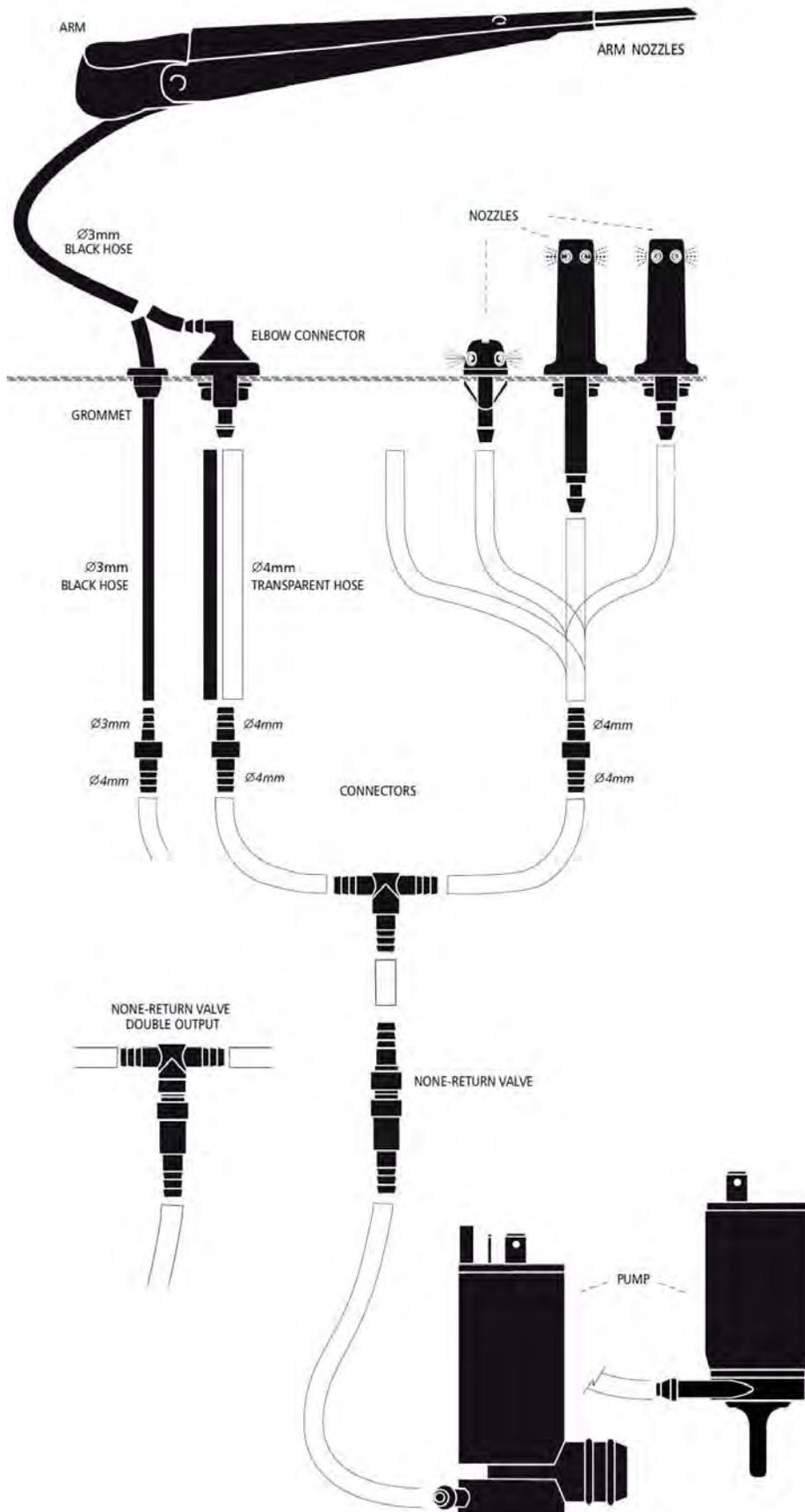
5.7L



Custom Washer Bottles



Washer System Accessories





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