Waterbased Fluids/Detergents







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Mixing Units

Part.No

Mixing Pump, Ratio 50/50

Air driven mixing pump for glycol and windshield fluids with a fixed 50/50 mix. The wall mounted unit has a suction attachment for connection to the concentrate container. Complete unit to connect directly to the air supply line and distribution pipework.

We recommend that you invest in control equipment for the concentrate container to prevent unmixed water being distributed when the concentrate container is empty.

Description Capacity

Mixing pump 50/50 Appr. 15 l/min free flow, air pressure 0,7 MPa (7 bar) 24890



Mixing Unit with Ejector from 25% to 50%

Water driven mixing unit with ejector for glycol and windshield fluids, adjustable between 25% to 50%. The wall mounted unit has a suction attachment for connection to the concentrate container. Complete unit for connection to the water line.

Description Capacity Mixing unit Appr. 15 l/min

24186

Complete Mixing and Distribution kit

Consists of a mixing unit (24186), installation kit (99630), pump (22770). All necessary items are included. We recommend that you invest in control equipment for the concentrate container to prevent unmixed water being distributed when the container is empty.

Description Capacity Appr. 15 l/min Mixing unit

SPEC2303



Water

Anti FreezeWindshieldWashDetergents



Liquid Pumps, Air Operated

Part.No

Liquid Pump, Stainless Steel, pressure

Stainless steel, air operated, double acting liquid pump for corrosive liquids, windscreen liquid etc.

Bung adapter G 2 "(m) (part No 2125753) included.

4:1 Pressure ratio For connection to Tank or drum

Capacity Max 30 l/min (free flow, air pressure 0,7 MPa, water)

Air Pressure Max 1 MPa (10 bar) Air: G 1/4" (f) Connections

Oil: Outlet G 3/4 "(f) Inlet (foot valve) G1" (f)

Weight (approx)

Suction tube (Stainless Steel), length 500 mm, G1" Accessories

(m), part No 2226214

Material list

Pump part Material Air motor Aluminium

Liquid parts (in- and outlet) Stainless Steel, ISO 2343/2346 (DIN

1.4436/1.4305) Teflon

Seals Central bar Chromated Stainless Steel, ISO

2333(DIN1.4101)

Description

Stainless Steel pump, stub

Stainless Steel pump complete with suction tube (2226214)

22770 22775



22720

Liquid Pump, corrosion protected, pressure ratio 1:1

Corrosion protected, air operated, double acting liquid pump for windscreen liquid etc.

Bung adapter G 2" (m) (part No 28595) included.

Pressure ratio 1:1 For connection to Tank or drum

Capacity Max 40 l/min (free flow, air pressure 1,0 MPa, 95

Improved version. cSt oil). Recommended free flow approx. 25 l/min at

0,7 MPa, 95 cSt

Air Pressure Max 1 MPa (10 bar) Connections Air: G 1/4" (f)

Oil: Outlet G 3/4" (f) Inlet (foot valve) G1" (f)

Weight (approx)

Suction tube (Stainless Steel), length 500 mm, G1" Accessories

(m), part No 2226214

Material list

Pump part Material Air motor Aluminium Liquid parts (in- and outlet) Nickel plated steel Nitrile and Polyurethane Seals Central bar Nickel plated aluminium

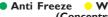
Description Liquid pump

Liquid pump complete with suction tube (2226214)

22720 22725













Installation Kits Part.No **Drum Pump Installation Kit (4)(2)** Components for a drum mounted air operated pump. (205 litre drum) Information Air line hose 1,5 metre x 1/4" bore hose 99625 (6) Line hose 1,5 metre x 3/4" bore hose 99675 Note! Pump not included! Wall Mounted Pump Installation Kit Components for a remote wall mounted air operated pump with drum suction attachment (205 litre drum) Information Air line hose 1,5 metre x 1/4" bore hose 99626 Line hose 1,5 metre 9 Drum suction attachment, tube length = 1,08 m 99676 Note! Pump not included! 12 Wall Mounted Pump Installation Kit Components for a remote wall mounted air operated pump with a tank suction attachment (4)(2) Information Air line hose 1,5 metre x 1/4" bore hose 2 pcs Line hose 1,5 metre x 1/2" bore hose 99630 Note! Pump not included! Water



Installation Accessories Part.No **Bung Adapters** With split collars for pump tube diameters shown below. G2" (m) thread for drum or drum covers. For pump tube diameter Fits Orion pump models 28595 50 22720, 22725 2125753 54 22770, 22775 **Air Treatment Units** 2026154 Conn. thread Description Consist of: 42007, 42009, 42012, 301296 G1/4"(f) Air Treatment Unit 42003 Accessories: Bracket for Air treatment unit mounted on top of the 22770 and 22775 pump. 2026154 Air hose for Air treatment unit 2226155 **Air Line Hoses** For connection of air motor to air ring main, made of armoured PVC, max. working pressure 1,5 MPa (15 bar), swaged couplings; one with swiveling nut and connection adapter (male/male). Description **Hose Diameter** Conn. thread Length Air Line Hose 1/4" i.d. 1,5 m G1/4"(m) 48001 1/4" i.d. 480013M Air Line Hose 3 m G1/4"(m) Air Line Hose 3/8" i.d. 3 m G3/8"(m) 48002 **Drum Cover Protection** Keeps drum cover and surroundings clean. No/box Diam. Absorbing capacity Weight/box ~2 l/ sheet 25 Ø56cm 3,6 kg DTA25 Ø56cm ~2 l/ sheet 0,14 kg DTA1 **Connection Hose** 28080 Connection hose of Nitrile rubber, wire braided, swaged couplings with swivelling nuts and adapter. 28078 Description Tank Connection Hose, Length 1,0 m, with 2 straight couplings, G1". 28078 Tank Connection Hose, Length 1,0 m, with 1 straight and 1 90°-angle 28080 28079 coupling, G1". Mainly used with pumps mounted in floor stands. Connection Hose, Length 1,5 m, with 2 straight couplings, G1" and G3/4". 28079 Connection Hose, Length 1,5 m, with 2 straight couplings, G1/2" and G3/4". 28639 Connection Hose, Length 1,5 m, with 2 straight couplings, G1/2" and G1". 28649 **Drum Suction Attachments** Riser tube with foot valve and G2" bung adapter. Riser tube length Hose length Conn.thread 28310 G 3/4" 1,08 m 2,0 m 28311 2,0 m G 3/4" 1,70 m 28309 1,08 m 2.0 m Hose 3/4"

Water

Anti FreezeWindshield WashDetergents

(Concentrated Glycol; see the Oil Section)

Accessories Part.No Wall bracket and Floor Stand For pump mounting. Pump mounting thread G2" (f). Description 28506 28524 Wall bracket Floor stand 28506 28301 Water Inlet Filter 2380452 2380451 28302 For installation in pipe lines to prevent contamination. Description Conn. threads Filter material Max pressure Filter, 30µm G1" Cotton 8 bar 28301 G1" Filter, 50 µm 28302 Nylon 8 bar 2380452 Wall bracket 2380450 Spare Cartridge 30 µm 2380450 Cotton Spare Cartridge 50 µm Nylon 2380451 . 2380453 Tool for cartridge change 2380453 **Strainer** For installation in pipe lines to prevent meters being damaged due to contamination. Washable cartridge of stainless steel. Max 5 MPa (50 bar). Conn. threads Strainer rating Body material Dimension G1/2"(f) 200 µm Brass 28022 28059 G3/4" (f) 200 µm Brass 28059 In G3/4" (f) - Out G1/2 (f)25 μm 24583 Aluminium ø60x111 mm Shut-off valves Ball-valves made of brass with PTFE-seals and long or short levers. Conn. thread (f) PN Lever 6,4 MPa (64 bar) G3/8" 30101117 Long G1/2" 30101093 6,4 MPa (64 bar) Long G3/4" 4,0 MPa (40 bar) Long 30101111 G1" 4.0 MPa (40 bar) 30101081 Long G 1 1/4" 2,5 MPa (25 bar) Long 30101087 G 1 1/2" 2,5 MPa (25 bar) 30101084 Long G2" 2,5 MPa (25 bar) 30101102 Long G1/4" 30101129 6,4 MPa (64 bar) Short G3/8" 6,4 MPa (64 bar) Short 30101144 G1/2" 6,4 MPa (64 bar) 30101123 Short **Distribution Hoses** Nitrile rubber hoses, 1/2" i.d. steel braided, PN 13,8 MPa (138 bar) with swaged couplings G1/2" swivelling nuts and two connection adapters, G1/2" (m) - G1/2" (m) and G1/2" (m) - G3/4" (m). Hose length 2 m 28009 3 m 28010 4 m 28011 5 m 28012 6 m 28013 **Hose Storage Rack** Designed for max. 30 m x 1/2"-hose. For wall mounting. 28251 Dimensions: approx. 310 x 130 x 130 mm (W x H x D). Anti FreezeWindshieldWashDetergents Water



For installation in pipe lines to prevent damage due to contamination. Makes it easy to carry out maintenance on meters, valves etc. Includes filter, valve and adapter. Description Conn. thread Conn.kit G1/2"(f) **Series ORM**

Spring operated Hose Reels

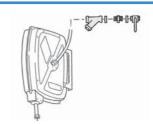
Part.No

Hose reel, inlet filter connection kit

For 3/8" or 1/2" reels



99672



Length	Diameter	Conn. threads	Workir	ng Pressure	
m	mm-inch		MPa	bar	0.400.54
Series ORM • 15	10 - 3/8"	G1/2"	18	180	24935*



Series OR

Series OR	m	Diameter mm-inch 12,5 - 1/2"	Conn. threads	Working MPa 1,8	Pressure bar 18	44240
Stainless Ste Series OR		10 - 3/8"	G3/8"	18	180	24957*



Series LOR

More information in the Hose reel section!

Series LOR		Diameter mm-inch 10 - 3/8" 12,5 - 1/2"	Conn. threads G3/8" G3/8"	Working MPa 40 30	Pressure bar 400 300	24961* 24963*
Stainless Ste Series LOR		12,5 - 1/2"	G1/2"	30	300	24965*
Series LOR	2 5	Without swiv	vel and hose			24960*



Series MR

	Length m	Diameter mm-inch	Conn. threads	Working MPa	Pressure bar	
Series MR	15	10 - 3/8"	Hose1/2"	1,5	15	844220
Series MR	1 0	12,5 - 1/2"	Hose3/8"	1,5	15	844230
Series MR	13	10 - 3/8"	G3/8"	18	180	824951*
Series MR	1 0	10 - 3/8"	G1/2"	7,5	75	824440
Series MR	1 5	10 - 3/8"	G1/2"	7,5	75	824445



Series CR/CRS

	Length m	Diameter mm-inch	Conn. threads	Working MPa	Pressure bar	
Series CR	10	10 - 3/8"	G3/8"	18	180	
Series CR	1 5	6,35 - 1/4"	G1/4"	6	60	24951* 24953
Series CRS Series CRS		8 - 5/16" 10 - 3/8"	G1/4" G3/8"	2 2	20 20	44205 44210



Anti Freeze
 Windshield
 Wash
 Detergents
 (Concentrated Glycol; see the Oil Section)

* Suitable for hot water



Water

CRS

Hose end Control	Part.No	
Water Control Valve Water control valve with rubber outlet. Inlet G1/4" (f). Weight approx. 0,3 kg. Description Water control valve with rubber nozzle	24105	
Water control valve with rubber nozzle for 3/8" hose connection in brass Water control valve with rubber nozzle for 1/2" hose connection in brass	2410562 2410563	
Water Control Valve		
Water control valve with rigid outlet. Inlet G1/4" (f). Weight approx. 0,3 kg.		
Description Water control valve	24106	
Water control valve for 3/8" hose connection in brass Water control valve for 1/2" hose connection in brass	2410662 2410663	
Control Valve for Water Based Fluids ••••		
Water control valve with special rubber outlet that prevents foaming. Weight approx. 0,35 kg.		100
Description		
Water control valve with swivel G1/2"(m) Water control valve with swivel G1/2"(f)	2468060 2468061	
Water control valve with swivel Gr/2 (1) Water control valve with swivel for 3/8" hose connection in brass	2468062	
Water control valve with swivel for 1/2" hose connection in brass	2468063	
Wash Handle		
Heavy duty wash handle made of rubber covered die-cast		
brass. Flow pattern regulated by the trigger.		- Sha
Max pressure 3 MPa (30 bar). Connection thread G1/2"(f).		
Description		
Wash handle G1/2"(f) Wash handle for 3/8" hose connection in brass	28182	
Wash handle for 1/2" hose connection in brass	2818262 2818263	
Wash Nozzle		
Straight form wash gun on/off and flow pattern regulated		
by turning the sleeve. For use with 1/2" hose.		
Max pressure 3 MPa (30 bar).		
Description Wash nozzle for 1/2" hose connection in brass	20260	
Wash nozzle for $1/2^{-n}$ hose connection in brass Bare hose adapter $G1/2^{-n}$ (m) with 60° cone	28268 2085398	
	2003370	
Wash Handle		
Heavy duty wash handle made of die-cast brass with rubber covered handle. Supplied with two nozzles, 2 and		
4 mm jet holes. Flow pattern adjustable with control knob.		
Max pressure 3 MPa (30 bar).		
•		
Description Wash handle for 1/2" hose connection in brass	16004	
Wash handle for 3/4" hose connection in brass	16004	
	2000	
		Ų
WaterAnti FreezeWindshieldWashDetergents		



Spray Handle and Mobile Sprayer Part.No Spray Handle with Spray tube Designed for use with detergents. Consists of a brass valve body with 580 mm brass outlet tube and two nozzles, one with an adjustable spray pattern. Connection thread. G 3/8" (m). Description 24029 Spray handle with spray tube 550012 Spare adjustable nozzle Spray Handle with Spray tube Designed for use with detergents. Consists of a thermoplastic valve body with a 915 mm outlet tube of stainless steel. Two different spray nozzles for water- and petroleumbased detergents. Connection G1/2" (f). Description 24099 Spray handle with spray tube 550012 Spare adjustable nozzle **Drip Holsters** To protect hose end meters and control valves when not in use and to collect any oil drip. Description 29020 Drip Holster **Hose Storage Brackets** 6027 A wall mounting bracket for storage of hoses, tools 6027 etc. Two fixing holes ø5 mm. For fixing to the wall to support hoses that otherwise would interfere with 28185 the work area. Two fixing holes ø5 mm. **Mobile Sprayer** Air operated sprayer, comprising of a steel container, fitted with a compressed air connection and pressure gauge, ø30 mm (1 1/4") filler hole, sight gauge and two ø100 mm (4") wheels. Preload the container with compressed air 0,3-0,7 MPa (3-7 bar). The dispenser can be used without permanent connection to air pressure. Max. admissible tank capacity is 3/4 of total capacity. Complete with 1,2 m hose and spray handle. Description Volume Dim. (LxWxH) Weight (approx.) Spray dispenser approx. 24 1 350 x 380 x 780 mm 21150 Note: Suitable for petroleum based detergents only! Anti FreezeWindshield WashDetergents Water

(Concentrated Glycol; see the Oil Section)

Sprayers

Part.No

General Information

In practice, industrial substances are mixtures whose compositions and effects on other materials are known only by their manufacturers. This is why testing by the user – possibly in coordination with the manufacturer of the spray medium – is so essential. Safety datasheets are usually not sufficient for an accurate evaluation of the material compatibility. Metal sprayers are not suitable for hydrogen peroxide, and plastic units can only be used after preliminary testing and with limited concentrations and exposure periods.

Important factors to consider in choosing a sprayer:

- Highest operational temperature (spray medium): Plastic sprayers 30 °C
 Sprayers with metal tanks 40 °C
- Viscosity of spray medium:
 Up to approx. 1.5 times the viscosity of water. If coarser droplets and a reduced spray angle are acceptable, the viscosity can be even greater.
- Flammable liquids:
 Flammable liquids with a flash point below 55 °C must not be used in sprayers.



For forming oil, vehicle cleaning with mildly caustic cleaning agents. Durable stainless steel tank for extra resistance, Viton seals, special oil hose that is flexible at low temperatures, 50 cm continuously rotatable brass spray wand, fine special flat spray nozzle with fine filter. Pressure is generated by using the hand pump. The 10 litre sprayer can also be filled with compressed air from an external line.

NOTE! Not suitable for spray mediums that are corrosive to brass or stainless steel.

Description	Volume	Working Pressure	e Pressure Generator	Weight	
Sprayer	5 litres	6 bar	Hand pump	4 kg	3590P
Sprayer	10 litres	6 bar	Compressor/hand pump	4,7 kg	3610F
Accessories					
Trolley for above					

Hand Held Sprayers

For cleaning, corrosion protection, lubrication, impregnation. Flexi plus and Universal has a powerful air pump to build up pressure. A safety valve protects against over compression. Tank with fill level scale, viton seals and adjustable nozzle.

Description	Volume	Working Pressure	Pressure Generator	Weight	
Industry Sprayer	1,5 litres	3 bar	Hand pump	400 gr	3131P
Universal Spraye	r1,5 litres	3 bar	Hand pump	410 gr	3132PG
Universal Spraye	r1,0 litres	3 bar	Hand pump	365 gr	3132PK
Handsprayer	1,0 litres			90 gr	3111P





3111P

Water

Anti FreezeWindshieldWashDetergents

Drum Pumps, Hand Operated

Part.No

Rotary Pump for waterbased fluids, oil and other chemicals

Rotary pump made of polypropylene with Ø 27 mm outlet pipe. G2" (m) bung adapter. Suction tube in 3 sections.

DescriptionSuction tube
LengthSuction tube
DiameterCapacity
(approx.)Weight
(approx.)Rotary Pump1 section: 280mmø 44 mm0,3 1/turn1,8 kg

2 sections: 660 mm 3 sections: 1030 mm 21200

Drum Pump

The lever can be mounted in three different positions to change the stroke length and output capacity, (see below). Delivered with telescopic suction tube and G2" and $G1\frac{1}{2}$ " bung adapter. Suction tube length 340-900 mm, diameter 40 mm.

Description	Colour	Material pump	Mtrl Rod	Weight (approx)	
Drum pump	black/blue	Polypropylene	Steel	0,85 kg	21210
Drum pump	black/green	Polypropylene	Steel	0,85 kg	21211
Drum pump	black	Ryton	Stainless	0,85 kg	21215
			a		

Capacity (Engine oil 20°C)

Lever mounted in position: 1. 0,3 l/stroke, 2. 0,37 l/stroke, 3. 0,45l/stroke



Drum Pump

Compability chart avaiable!

Drum pump with telescopic suction tube. Made of Polypropylene and Polyethylene with Nitrile rubber seals. G2" (m) bung adapter and outlet with 3/4" hose socket for max. 2 m long hose with open exit.

Description	Colour	Suction tube S	uction tube	Capacity	
		length	diam.	(approx.)**	
Drum pump	black/blue	480 - 950 mm	ø27 mm	0,3 l/stroke	21022
Drum pump	black/red *	480 - 950 mm	ø27 mm	0,3 l/stroke	2102210
Drum pump	black/green *	480 - 950 mm	ø27 mm	0,3 l/stroke	2102220
Drum pump	black/yellow *	480 - 950 mm	ø27 mm	0,3 l/stroke	2102230
Drum pump with viton sea	black/blue	480 - 950 mm	ø27 mm	0,3 l/stroke	21122

* On special order and minimum quantity only. ** Engine oil, +20°C.



Drum Pump

Drum pumps made of Polypropylene or Nylon 6. G2." (m) bung adapter

02 (111) 0	G2 (III) build udupter.						
Description	Suction tube Length	Material in contact with the liquid					
Drum Pump	1000 mm	Nylon 6					
Drum Pump	1000 mm	Polypropylene					

Anti Freeze
 Windshield
 Wash
 Detergents
 (Concentrated Glycol; see the Oil Section)





Water

2102721028

Drum Tap, Measures etc.	Part.No	
Drum Tap		
Drum Tap for horizontal oil drums.		
Description Material Conn. thread		
Drum Tap, push valve Aluminium, nitrile rubber G2" (m)	24506	
	-	
Plastic Measures •••	•	,
Measuring jugs with handle, made of heavy		/ 4
Polyethylene, resistant to oil, gasoline and chemicals.		
Description Volume Liquid measure 1 litre	21625	
Liquid measure 1 litre Liquid measure 2 litres	21626	
Liquid measure 5 litres	21627	
2 nucs		
Tin Measures ••	•	
Measuring jugs with handle, made of tinned metal,		
resistant to oil, gasoline and chemicals.		
Description Volume	21/2/	
Liquid measure 0,5 litre	21636	
Liquid measure 1 litres	21637 21638	
Liquid measure 2 litres	21038	
•		*
Container		
Container with handle, made of heavy Polyethylene.		
Filling hole with lid and capped nozzle		
Description Volume	21644	12 1
Liquid measure 6 litres Liquid measure 10 litres	21645	
In files	21043	
Funnels • • •	•	
Funnels with handle, made of oil and chemical resistant		
polyethylene with splash rim and removable brass		The state of the s
strainer.		21620 21621
Description Volume		21630 21631
Funnel with straight spout 1,3 litres	21630	
Funnel with spout off-set approx 180 mm 1,3 litres	21631	21632
Funnel with flexible spout, 3 spout diameters 1,3 litres	21632	21/22
Funnel kit (65, 75, 100 och 120 mm) 0,05-0,27 litres	21633	21633
Tin Funnels	•	
Funnels with handle, made of tinned metal, resistant to		
oil, gasoline and chemicals.		
Description Dimension		
Tin funnel 160 mm	21628	
Tin funnel 200 mm	21629	
Threaded spout 300 mm	21634	
W/achbaud		
Washbowl	1	
Handy washbowl for washing small parts. Made of oil as	na	
chemical resistant polyethylene.		
Description Dimension Washtub 380 mm	21625	
vvasiituu 580 mm	21635	

