

CE Made in Italy
DESIGNED AND MANUFACTURED
AT RAASM - ITALY



technology, functionality, safety

Automotive Lubrication



Industrial Hose reels



Industrial Pumps



Catalogue No 219

1st January 2011



technology
functionality
safety

founded in 1975



RAASM

FLUIDS AND LUBRICATION EQUIPMENT





General view of RAASM Area in San Zeno di Cassola - Vicenza





RAASM branch in Romano d'Ezzelino - Vicenza



THE IMPORTANCE OF RESEARCH AND DEVELOPMENT





The starting point for the entire production cycle is the research and design of new solutions that will become cutting-edge products.





PRODUCTS DEVELOPED AND TESTED IN EVERY SINGLE DETAIL





A sophisticated testing room allows to check carefully the quality of the new products before introduce them in the market.





High precision dies developed in partnership with specialist companies, using cutting edge technology.

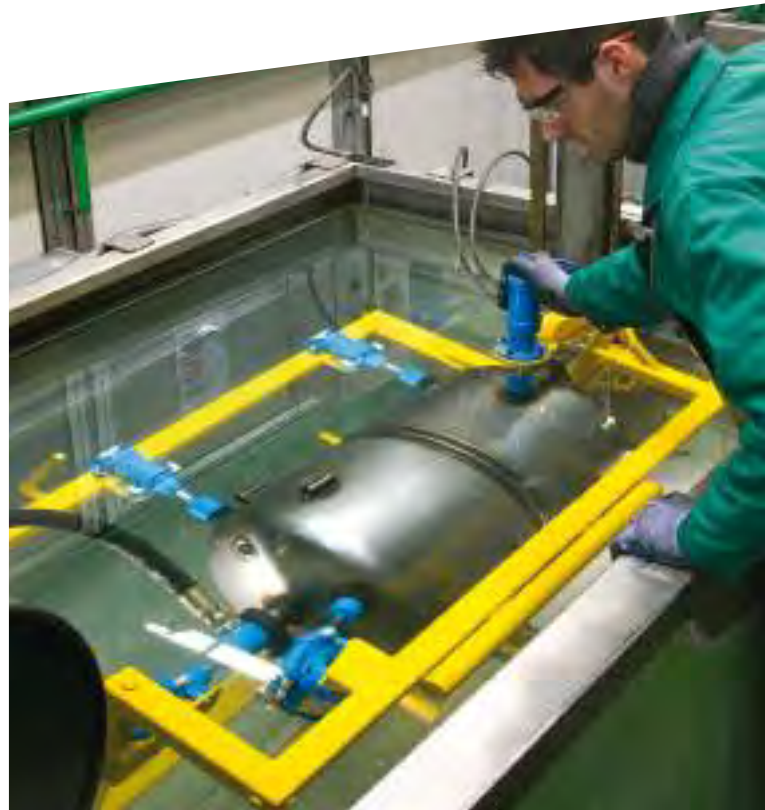
FULL ROBOTIZED WELDING





Welding quality is guaranteed by :

- the material used
- a high-tech robot
- an appropriate welding programme



- precise torch positioning
- control of temperature
- testing and a complete visual check of all welds on each product

...FOR THE HIGHEST QUALITY ALSO
IN PAINTING

The painting is guaranteed by innovative systems with lead and heavy metal-free non-toxic polyester resin for exteriors, with average thickness of 80 μ .

The painting is highly resistant to atmospheric agents and impacts.
The painted products undergo "saline mist resistance" corrosion testing according to UNI 9227 standards.



Computerised laser cutting enables the execution of complex work requiring extreme precision.



The excellence of the die-castings is ensured by the consistent quality of the castings obtained by means of computerised control of the presses and castings during the course of production.



Robotised injection moulding of components in thermoplastic material with subsequent structural inspection of the moulded pieces.





Turning, with state of the art machinery, as a result of continuing investment. Allowing the manufacture of complex components.

AN ALWAYS IN THE FOREFRONT REALITY





High precision instruments allow a careful control of the parts produced by evaluating their features: dimensions, hardness, roughness, etc.

CONTROL ROOM FOR BETTER QUALITY





A WAREHOUSE CONSTANTLY WELL-STOCKED
...to grant a fast and efficient spare parts
replacement service

Automated vertical store complete with
travelling lift for storage and handling
of material.

... a static structure for a dynamic system.
Control is carried out by means of company
management software, offering efficiency
and maximum flexibility.



RAASM
LOGISTICS

RAASM
LOGISTICS



SYSTEM
LOGISTICS

SYSTEM
LOGISTICS

RAASM





Pumps assembling with final control using a special software to verify pump's functionality.

EFFICIENT AND WELL ORGANIZED ASSEMBLY LINES





Careful packaging with special protections to avoid any damage during transport.





A WAREHOUSE CONSTANTLY WELL-STOCKED



Our inventory of finished products allows us to have the most popular items always available and ready to be shipped.



...to provide a fast and efficient order fulfillment

the packaging department prepares the products with packing materials suitable for specific protection requirements. This phase includes a final visual check of each article.



After a careful packaging, products are ready for shipment.



Technical and commercial brochures realized by qualified personnel.



TRAINING COURSE FOR CUSTOMERS AND DISTRIBUTORS

RAASM organizes refresher courses to improve the efficiency of our customer care service.

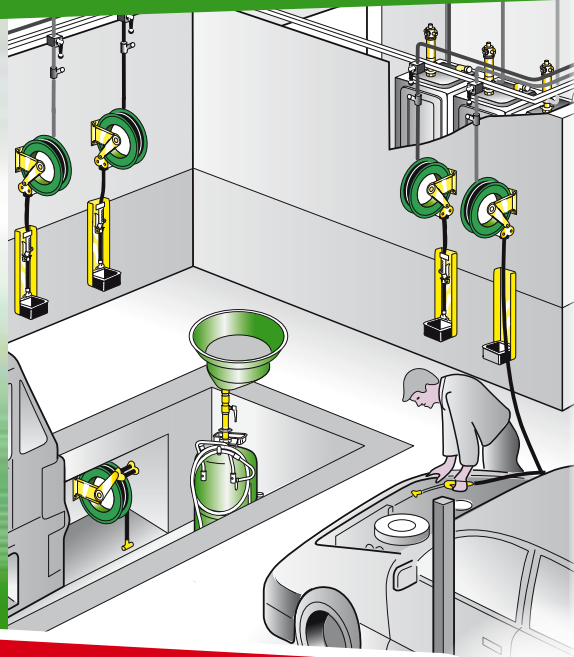




ONGOING TECHNICAL TRAINING FOR ALL RAASM STAFF

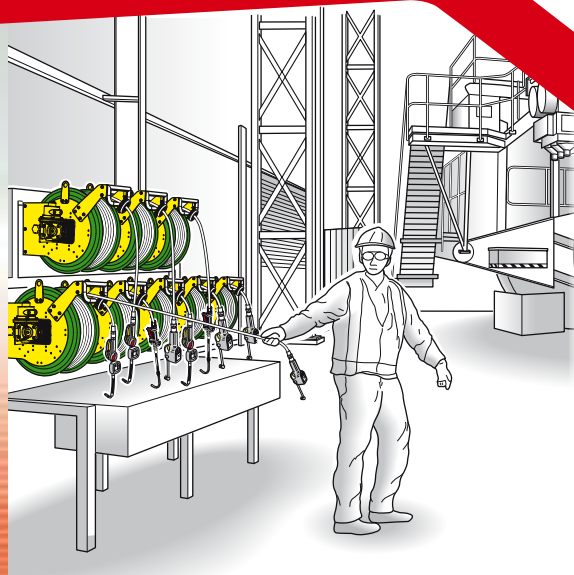


Automotive lubrication



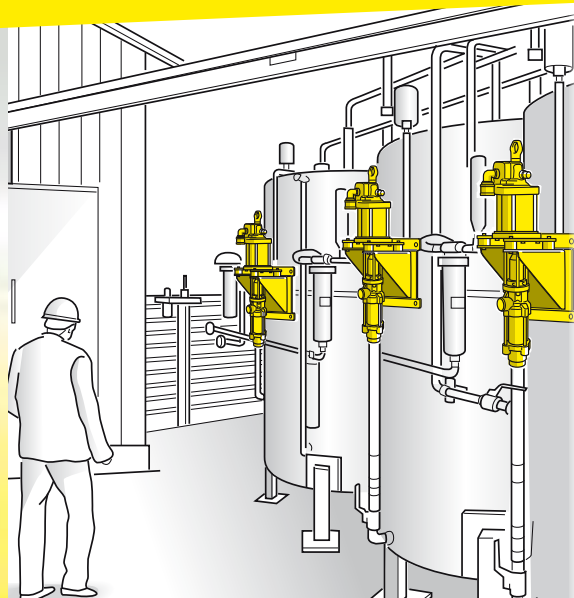
A wide variety of products for lubrication in the automotive, industrial, agricultural, marine and other sectors. Our products are designed to make work easier and quicker, according to the needs of our customers.

Industrial hose reels



RAASM hose reels enable safe and practical management of any type of hose for use with all types of fluids.

Industrial pumps



RAASM has created a wide range of industrial pumps to meet the most complex needs in application sectors such as industry, building, mining, shipyards, etc. This large range will certainly have the right pump for your application.

INDEX FAMILIES

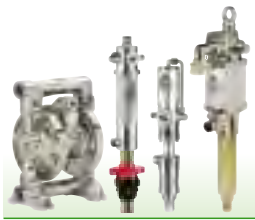


1 BRAKE BLEEDING - WASHING - INFLATING page 31

2 WASTE OIL SUCTION/DRAINERS page 41



3 MANUAL OIL AND GREASE PUMPS page 59



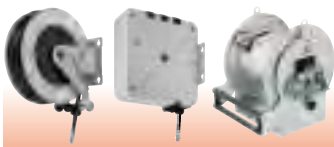
4 OIL PUMPS FOR TRANSFERRING AND DISTRIBUTION page 67



5 GREASE PUMPS AND ACCESSORIES page 115



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8 INDUSTRIAL PUMPS AND ACCESSORIES page 189





AUTOMOTIVE LUBRICATION





FLUIDS AND LUBRICATION EQUIPMENT



Brake bleeding - washing - inflating



BRAKE - CLUTCH BLEEDING page 32



PRESSURE SPRAYERS page 36



WASHING TANK page 37



TYRE INFLATOR page 38

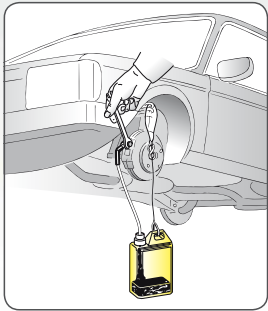


Brake-clutch bleeding equipment

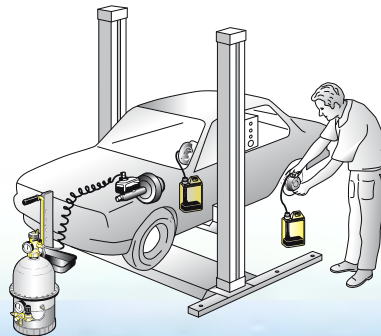
with 2 chambers

with 3 chambers

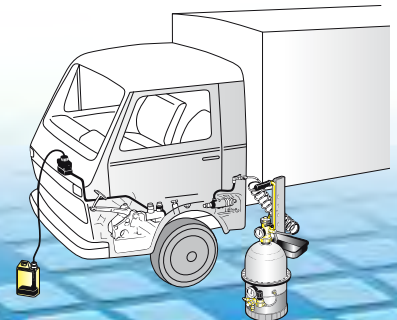
The simplified air-operated two-chamber or three chamber, brake bleeding device is suitable for bleeding the hydraulic brakes and clutches of all motor vehicles. Bleeding can be carried out in a few minutes by just one person. The brake-bleeding device is equipped with an elastic inner membrane which hermetically separates the oil from the air, thus avoiding the risk of emulsion. It is also suitable for systems with braking control and ABS (max. at 1 bar).



Article		10105	10205	10207	10705	10805	10807
Tank capacity	litres	5	5	5	5	5	5
Set of plugs	Art.	-	11001	11004	-	11001	11004
clutch bleeding tube	Art.	-	10802	10802	-	10802	10802
2 collection containers	Art.	10801	10801	10801	10801	10801	10801
Filler funnel		yes	yes	yes	yes	yes	yes
Max working pressure	bar	2	2	2	2	2	2
Tank max pressure	bar	2	2	2	10	10	10
Delivery hose length	m	3	3	3	3	3	3
Safety valve	bar	3	3	3	10	10	10
Packing	N° - m ³	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065
Weight	kg	8,5	9,5	9,7	10,2	11,2	11,4
Dimensions (A - B - C)	cm	43 - 25 - 65	65 - 43 - 25	43 - 25 - 65	45 - 25 - 65	45 - 25 - 65	45 - 25 - 65



Braking system bleeding phase

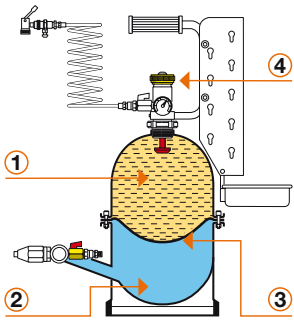


Truck clutch system bleeding phase



Brake bleeder operation

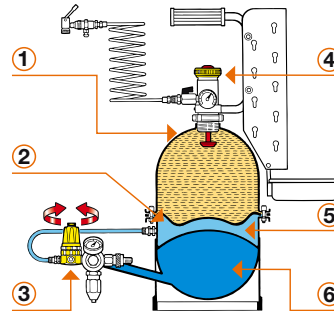
2 chambers operation



The brake-bleeding device is equipped with an elastic inner membrane (3) which hermetically separates the oil contained in the oil tank (1), from the air contained in the air "expansion" tank (2), thus avoiding the risk of emulsion (working pressure 1 - 2 bar controllable on the upper pressure gauge).

The oil tank (4) filler cap is equipped with a "reserve indicator" that signals when the fluid is finishing, and an air venting valve to be used in the device activation phase.

3 chambers operation



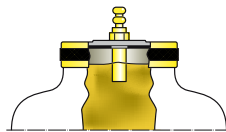
The brake-bleeding device is equipped with an elastic inner membrane (2) which hermetically separates the oil contained in the oil tank (1), from the air contained in the air "expansion" tank (5), thus avoiding the risk of emulsion. It is also equipped with a third air reserve tank (high pressure air 8-10 bar) (6) which, delivered by means of a pressure regulator (3), enables several bleeding operations to be carried out at a constant pressure without having to recharge the device.

The oil tank (4) filler cap is equipped with a "reserve indicator" that signals when the fluid is finishing, and an air venting valve to be used in the device activation phase.

Procedures for applying the connection plugs



Before bleeding it is important to fill the brake fluid reservoir by means of the brake bleeder quick-release connector.



The extended nozzle of the plug must be immersed in the fluid to avoid sprays or air and oil emulsions.



Connect the brake bleeding device to the reservoir by means of the quick-release connector.

LIST OF SCREW PLUGS FOR CARS

ALFA.....	A-D-L	JEEP.....	W	PEUGEOT.....	D-F-M
AUDI.....	D	KIA.....	D	PORSCHE.....	C-D
AUSTIN MORRIS.....	A-D-T	LAMBORGHINI.....	D-H-W	RENAULT.....	D-G-I-M
AUTOBIANCHI.....	B-H	LADA.....	H	ROVER.....	A-D-W
BMW.....	D-W	LANCIA.....	D-H	SAAB.....	D
CITROËN.....	D-E-I	LAND ROVER.....	T-W	SEAT.....	D-H
CHRYSLER.....	W	LEYLAND.....	A	SUBARU.....	U-W
DAEWOO.....	D-W	MASERATI.....	D-G-L	SUZUKI.....	D-W
FERRARI.....	D-G-H	MITSUBISHI.....	K-U	TALBOT.....	D-F
FIAT.....	A-B-D-H-I	MAZDA.....	D-W	TOYOTA.....	W
FORD.....	A-D-T	MERCEDES.....	D	TRIUMPH.....	T
HYUNDAI.....	W	MG.....	W	VAUXHALL.....	A
INOCENTI.....	A-D-L	NISSAN.....	W	VOLKSWAGEN.....	C-D
JAGUAR.....	L	OPEL.....	D-F	VOLVO.....	D-G-U

LIST OF SCREW PLUGS FOR TRUCKS

ASTRA.....	H	FIAT.....	A-B-D-F-H-I-P	RENAULT.....	D-F-I-X-Z
BEDFORD.....	A-G-L	FORD.....	D-G	SCANIA.....	D-G
BERLIET.....	D-F-T-X-Z	IVECO.....	D-H-L	VOLVO.....	R
DAF.....	D	MERCEDES.....	D		

LIST OF PRESSURE PLUGS FOR CARS

HONDA.....	Art. 11003/4, /6	MAZDA.....	Art. 11003/5, /9	SUZUKI.....	Art. 11003/7
KIA.....	Art. 11003/5, /8	OPEL.....	Art. 11003/3	LEXUS.....	Art. 11003/1
LEXUS.....	Art. 11003/1	ROVER.....	Art. 11003/6	TOYOTA.....	Art. 11003/1, /2



Screw connection plugs

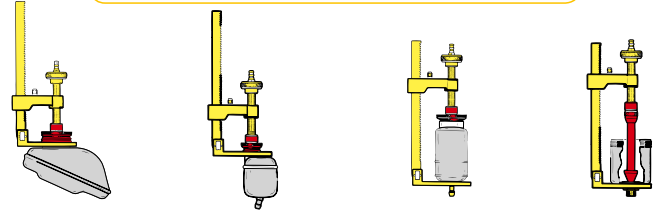


Art. 11001

Series of standard screw connection plugs, supplied with Art. 10205 or Art. 10805 (refer to page 32), consisting of:
 - 5 screw plugs: 11000/A/D/F/I/T
 - 1 universal plug 11000/W

Note: the above plugs can also be supplied individually. The universal plug 11000/W can be used on many types of cars and trucks in addition to those given in the plug list (refer to page 33)

Application examples of universal plug 11000/W

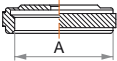
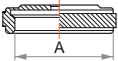

























Art. 11002

Series of special screw connection plugs, consisting of:
 11000/B/C/E/G/H/K/L/M/P/R/U/X/Y/Z

Note: the series of special plugs is only supplied by request

List of screw plugs supplyable individually

	Article	Plug series	Diameter (A) mm		Article	Plug series	Diameter (A) mm
	11000/A	type A	25		11000/M	type M	68,5
	11000/B	type B	21,5		11000/P	type P	77
	11000/C	type C	26,5		11000/R	type R	33,5
	11000/D	type D	43		11000/T	type T	44
	11000/E	type E	48		11000/U	type U	76
	11000/F	type F	52,5		11000/X	type X	44,5
	11000/G	type G	64		11000/Y	type Y	34,5
	11000/H	type H	41,5		11000/Z	type Z	58,5
	11000/I	type I	59		11000/W Universal plug W with 3 tapered plugs:	<ul style="list-style-type: none">  1) \varnothing 20 mm  2) \varnothing 28 mm  3) \varnothing 45 mm 	
	11000/K	type K	61,5				
	11000/L	type L	76,5				

Note: to choose the connection plug see the "Brake bleeder plug list" tables (refer to page 33)



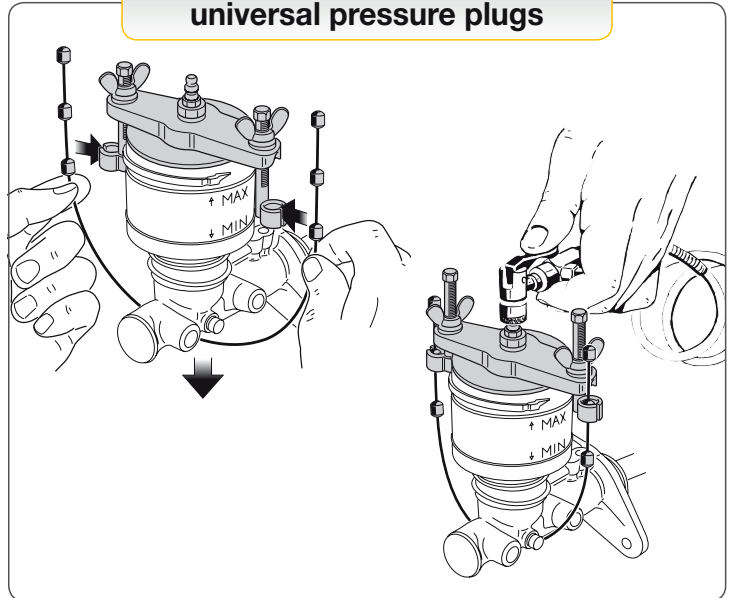
Pressure connection plugs



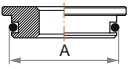












Art. 11004

Adjustable universal bracket (Art.11003) with series of pressure plugs 11003/1/2/3/4/5/6/7/8/9

Application examples of universal pressure plugs



List of pressure plugs suppliable individually

	Article	Plug series	Diameter (A) mm	Article	Description
	11003/1	pressure	42,2 42,5		11003 Adjustable universal bracket for pressure plugs.
	11003/2	pressure	42,8		
	11003/3	pressure	53,8 54		
	11003/4	pressure	56		10801 Brake fluid collection containers, complete with transparent tube and 90° flexible attachment for connection to the bleeder valve.
	11003/5	pressure	65,7		
	11003/6	pressure	74,2		
	11003/7	pressure	58,8		10802 Clutch bleeding connection tube, length 600 mm.
	11003/8	pressure	33,7		
	11003/9	pressure	35,8		

Note: to choose the connection plug see the "Brake bleeder plug list" tables (refer to page 33)



Non-toxic pressure sprayers

Painted carbon steel

Stainless steel AISI 304

Devices for the **non-toxic spraying** of low viscosity detergent liquids, such as lubrication oils and similar. Suitable for washing motor vehicles, graphiting, lubricating, delivering dismantling oils, etc. Filled to 3/4 their capacity with the required liquid and pressurised with air at 6 - 8 bar, they work independently without requiring continuous connection to the compressed air line.



Art. 24891
Antisplash funnel



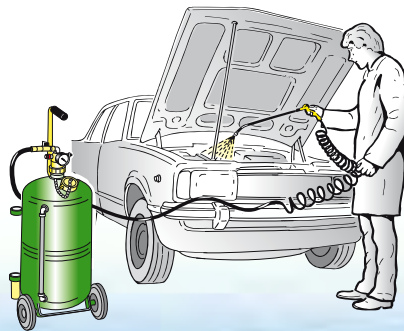
Painted

Polished

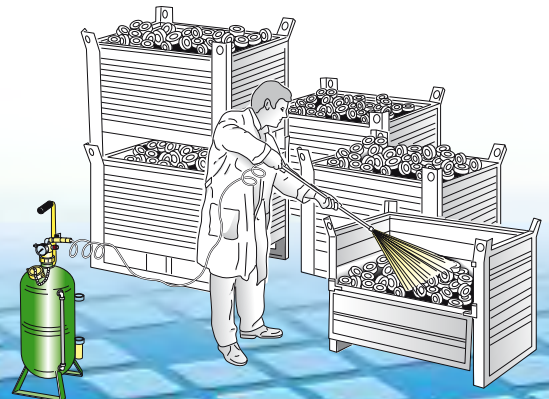
Article		22017	22024	23024	23025
Tank capacity	litres	16	24	24	24
Delivery hose length	m	5	5	5	5
Max working pressure	bar	10	8	8	8
Gun length	m	0,65	0,65	0,65	0,65
Safety valve	bar	10	8	8	8
Level gauge		yes	yes	yes	yes
Spray gun	Art.	24805	24805	24806	24806
Spray nozzle	Art.	24801	24801	24801	24801
Antisplash funnel	Art.	24891	24891	24891	24891
Packing	N° - m ³	1 - 0,080	1 - 0,090	1 - 0,090	1 - 0,090
Weight	kg	9,8	13	12,8	12,8
Dimensions (A - B - C)	cm	25,5 - 22,5 - 95	28 - 33 - 92	28 - 33 - 92	28 - 33 - 92

Caution: do not use with flammable or corrosive liquids

Attention: stainless steel pressure sprayers may also use aggressive fluids (such as some acid solutions) if only compatible with the materials composing the device



Spraying of detergent for washing engines



Spraying antioxidant, oil, diesel oil on mechanical parts

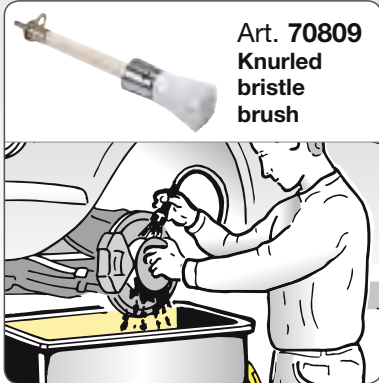


Washing tank

Universal washing tank for quick washing of mechanical parts and components in general.

The low-pressure pneumatic system enables:

- continuous liquid detergent flow with brush for thorough washing
- washing by dipping, with the parts dipped in the liquid detergent in the tank.



Important: do not use corrosive liquids with flashpoint below 55°C, that can give off toxic and harmful fumes. Use specific chemical products for washing mechanical parts, according to the instructions supplied by the manufacturer

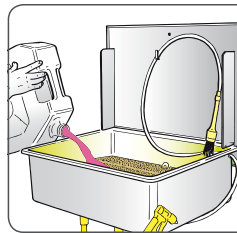
removable cover



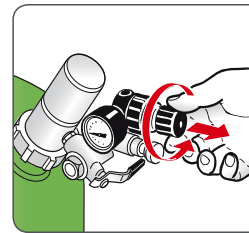
Article		70365
Tank capacity	litres	65
Washing tank capacity	litres	50
Max working pressure	bar	0,5
Required quantity of liquid	litres	50
Max blowing gun pressure	bar	12
Knurled bristle brush	Art.	70809
Packing	N° - m ³	2 - 0,290
Weight	kg	47,1
Dimensions (A - B - C)	cm	51 - 67 - 107



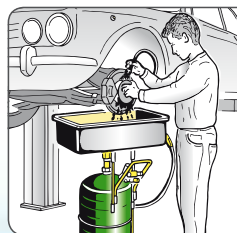
Details and advantages



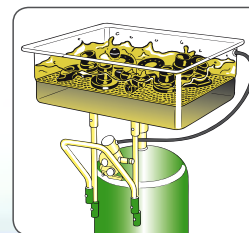
For correct use, add 48 - 52 litres of detergent liquid



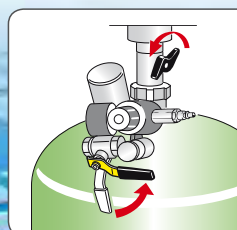
The pneumatic systems works at low pressure **0,5 bar**, consuming very little air



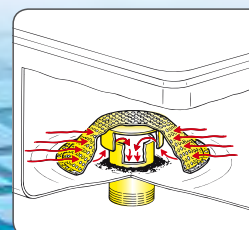
Washing with brush, with continuous liquid flow



Dip washing, with parts placed in the tank



Brush or dip wash management unit



Decanting filter/screen



Portable tyre inflator

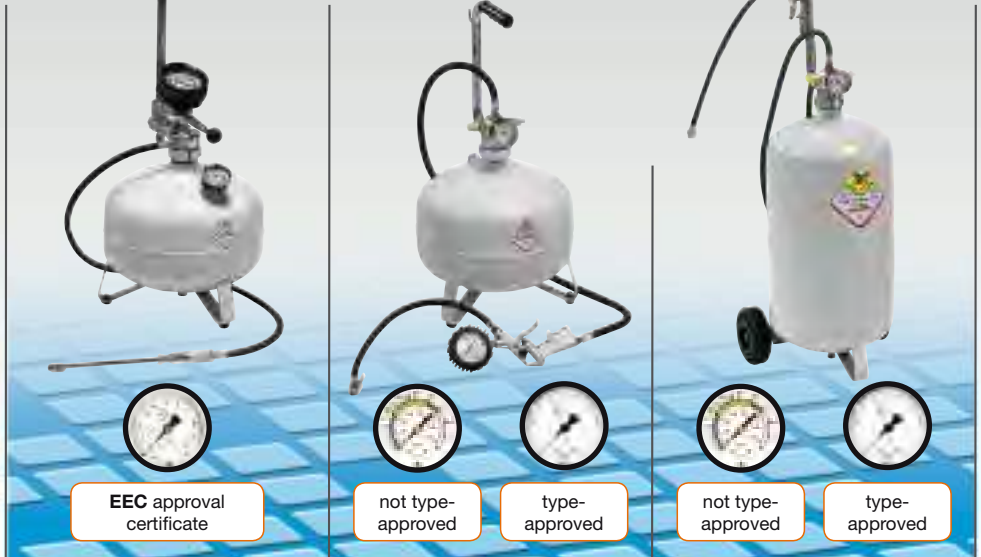
automatic charging

standard charging

Type-approved tyre inflator for checking and restoring the pressure of any type of tyre.

13 litres tank is available with standard or automatic charger, whereas **24 litres** tank is available only with standard charger.

Tyre pressure checking and inflation operations are carried out with the gun equipped with pressure gauge \varnothing 60 mm with scale 0 - 10 bar.



EEC approval certificate

not type-approved

type-approved

not type-approved

type-approved

Article		52013	52015	53016	52024	53024
Tank capacity	litres	13	13	13	24	24
Max tank pressure	bar	10	10	10	8	8
Calibrated safety valve	bar	10	10	10	8	8
Manometer \varnothing 50 tank pressure	bar	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10
Max working pressure	bar	7	7	7	7	7
Manometer working pressure		0 - 10 bar supplied with the inflating group	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun
Working temperature	$^{\circ}\text{C}$	-20° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°
Inflating hose length	m	1,2	1,2	1,2	1,2	1,2
Inflating gun		with twin air valve	standard	standard	standard	standard
Automatic charger	Art.	52020	-	-	-	-
Packing	N° - m ³	1 - 0,088	1 - 0,088	1 - 0,088	1 - 0,090	1 - 0,090
Weight	kg	8,8	6,5	6,5	10	10
Dimensions (A - B - C)	cm	31 - 31 - 75	31 - 31 - 60	31 - 31 - 60	28 - 33 - 86	28 - 33 - 86

Note: type-approved for public use

Note: not type-approved for public use

Note: not type-approved for public use

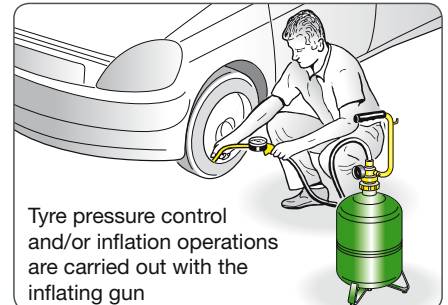
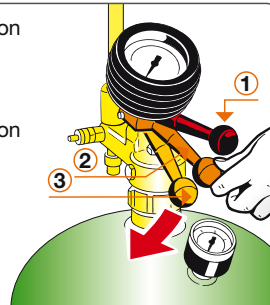


Art. 52020 Automatic charger supplied with Art. 52013

Details and advantages

The tyre inflation and deflating operations are done with single 3-position lever

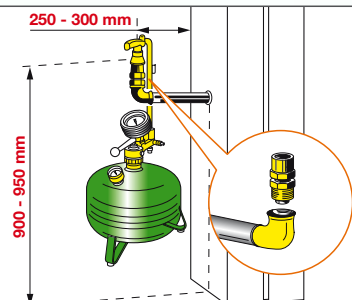
- ① idle
- ② deflation
- ③ inflation



Tyre pressure control and/or inflation operations are carried out with the inflating gun

INSTALLATION MEASURES for Art. 52013

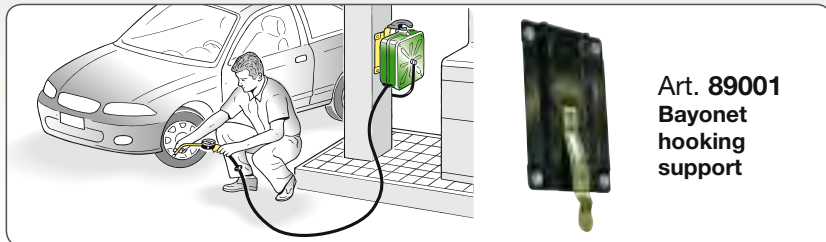
In order to have the tyre inflator always ready for use, just place it on the automatic charger as shown in the illustration





The inflator hose reel

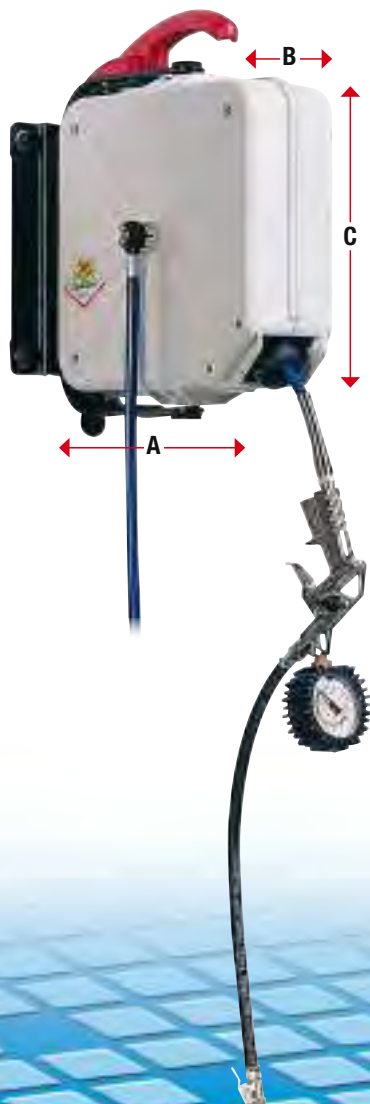
Inflation system with hose reel for checking and restoring the pressure of any type of tyre by means of the inflation gun equipped with pressure gauge \varnothing 60 mm with scale 0 - 10 bar. Constant connection to the compressed air system makes the inflation system always ready for use. The hose reel is equipped with a system for quick hooking to the wall support to facilitate possible moving.



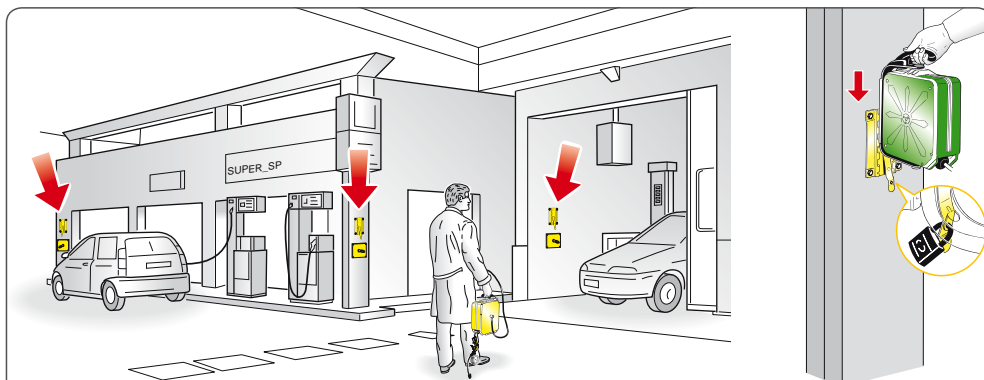
Art. 89001
Bayonet
hooking
support



Article	52010	
Length tube	m	11
Length tube connection	m	1,5
Diameter of tube	mm	8 x 12
Inlet connection thread		M 1/4" G
Max working pressure	bar	10
Manometer \varnothing 60 working pressure	bar	0 - 10
Working temperature	$^{\circ}$ C	-20 $^{\circ}$ +60 $^{\circ}$
Packing	N $^{\circ}$ - m 3	1 - 0,019
Weight	kg	6,8
Dimensions (A - B - C)	cm	31 - 11,5 - 39



Details and advantages



Pic. 1

Pic. 2

Pic. 1 The inflation hose reel is provided with a **wall bracket** with automatic bayonet hooking (Art. 89001) enabling **very quick and easy** installation or shifting.

The ease of this operation enables - also for safety reasons - the hose reel to be put away in a closed place at the end of the working day.

Also, the application of a wall support for every service point, either inside or outside, facilitates quick shifting and application of the hose reel in the workstation required by the operator.

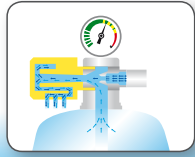
Pic. 2 To prevent removal or theft of the hose reel it can be locked with a bolt or padlock.



FLUIDS AND LUBRICATION EQUIPMENT



Waste oil suction-drainers



SUCTION POWER

page 42



PROBES AND ACCESSORIES

page 44



WHEEL-MOUNTED - PORTABLE SUCTION-DRAINERS

page 45



SUCTION-DRAINERS

page 46



UNIVERSAL PANTOGRAPH SUCTION-DRAINERS

page 48



GRAVITY DRAINERS

page 51



SUCTION DRAINER-DISPENSERS WITH AIR-OPERATED PUMP

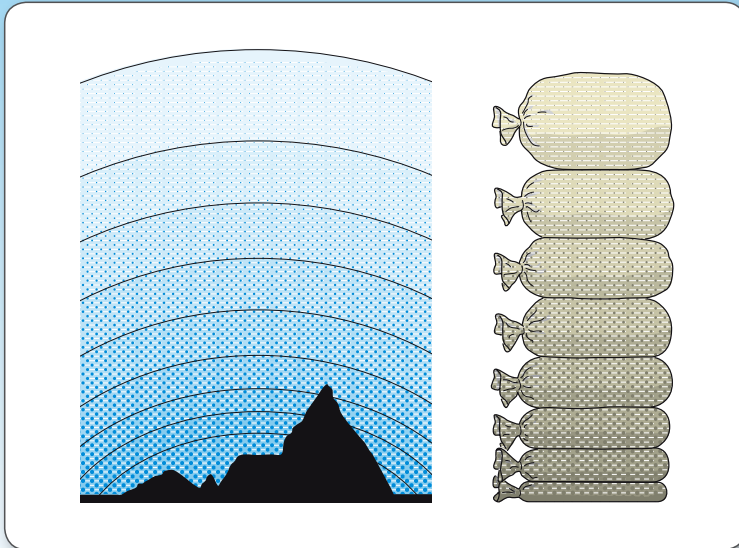
page 54



Suction power

To understand the concept of **suction power** it is important to remember the difference between **pressure** and **depression**.

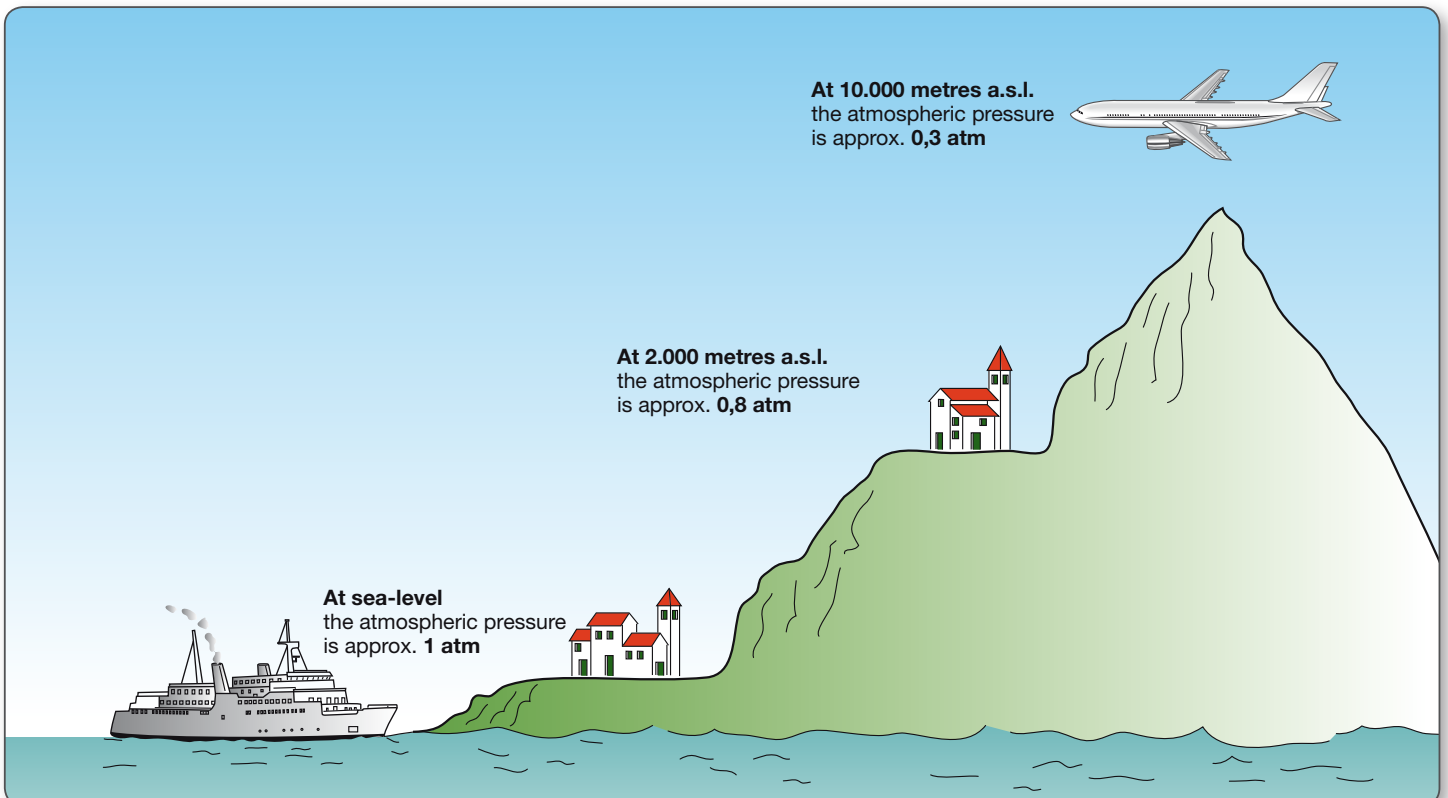
In this way the characteristics and advantages offered by the **oil drainer** will be clearly understood.



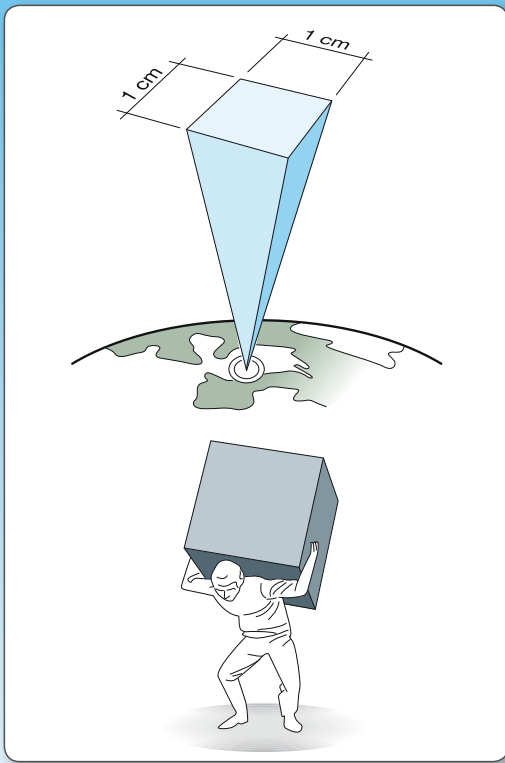
Pic. 1

Therefore, however, it is necessary to refer to the structure of the atmosphere that surrounds us and, above all, its barometric stratification and **compressibility**. Its lower layers, i.e. those nearest the ground, are more densely compressed than those higher up, precisely like what happens with a pile of bags of compressible material. (see Pic. 1).

The atmospheric pressure decreases as the altitude increases: at sea level it is 1 atm, at 2.000 metres a.s.l. it is approx. 0,8 atm, at 10.000 metres it falls to approx. 0,3 atm (see Pic. 2).



Pic. 2



In general, pressure is obtained by compressing any type of fluid inside a given container, until reaching the required values: 1 - 3 - 10 - 100 atm without limits, apart from those of the fluid container's structure and the power of the pump used.

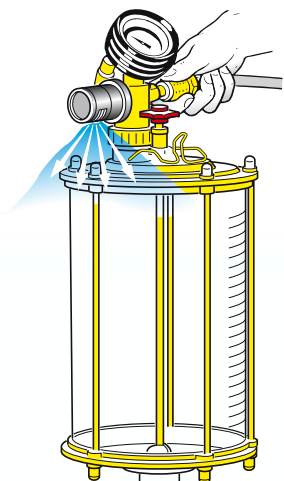
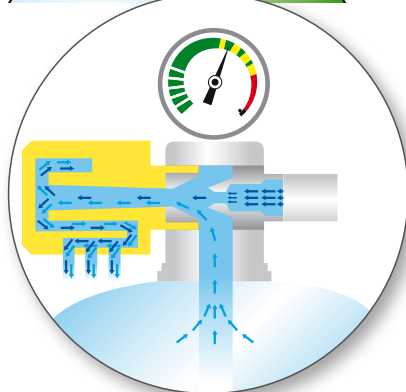
On the other hand, a **depression** or vacuum is obtained by removing all the air contained in a given recipient or tank, and the maximum value obtainable (vacuum or suction power) is independent of the pumping or suction system used. Whatever the pump used (**electric pump, air pump, Venturi principle, etc.**) the maximum depression (or suction power) obtained is equal to the atmospheric pressure outside the suction system.

In fact, this value cannot be exceeded because, obviously, it is not possible to remove from a container more air than what it contains.

Pump operation with Venturi principle

Connect a compressed air line (7 atm) to the special connection on the suction device. Obligated to pass through a special "MULTIPLIER NOZZLE" of the Venturi unit, the air considerably increases in speed, creating "EDDIES" that can **suck** and "**pump**" all the air contained in the suction device tank, thus creating a complete vacuum.

Therefore the suction force generated by the **Venturi principle** is equal to that obtained with any other air-operated and/or electric pump.



For correct depressurisation, the pressure of the air passing through the Venturi system must be between **6,5 and 7 bar**.





Flexible and metal probes - Special connections

All the drainers used for changing engine oil come with a series of standard metal and flexible probes in addition to connections for engines with incorporated probes.

Standard probe series



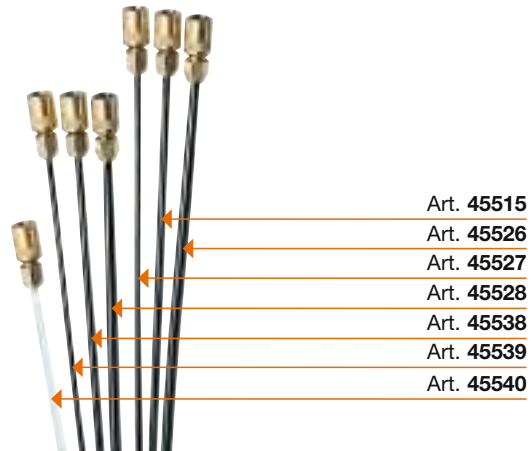
- Art. 45504
- Art. 45505
- Art. 45506
- Art. 45516
- Art. 45517
- Art. 45518
- Art. 45500
- Art. 45501
- Art. 45502

Art. 45560 consisting of:

- Art. 45504 flexible probe \varnothing 5 mm - length 700 mm
- Art. 45505 rigid probe \varnothing 5 mm - length 700 mm
- Art. 45506 flexible probe \varnothing 6 mm - length 700 mm
- Art. 45516 rigid probe \varnothing 6 mm - length 700 mm
- Art. 45517 flexible probe \varnothing 7 mm - length 1000 mm
- Art. 45518 flexible probe \varnothing 8 mm - length 700 mm
- Art. 45500 connection for incorporated probes Volkswagen
- Art. 45501 connection for incorporated probes BMW
- Art. 45502 connection for incorporated probes Citroen

Note: the probes can be supplied separately

Probes supplied by request



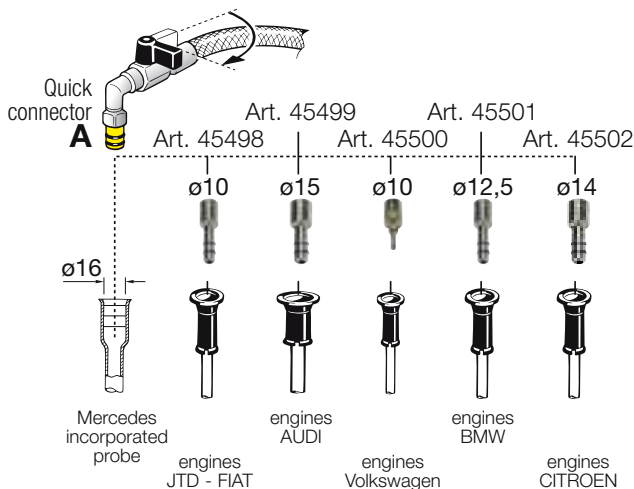
- Art. 45515
- Art. 45526
- Art. 45527
- Art. 45528
- Art. 45538
- Art. 45539
- Art. 45540

Non-standard probes available by request. Specify for vehicles requiring a longer probe for draining the oil from the bottom of the sump.

- Art. 45515 flexible probe \varnothing 5 mm - length 1000 mm
- Art. 45526 flexible probe \varnothing 6 mm - length 1500 mm
- Art. 45527 flexible probe \varnothing 7 mm - length 1500 mm
- Art. 45528 flexible probe \varnothing 7 mm - length 2000 mm
- Art. 45538 flexible probe \varnothing 8 mm - length 1500 mm for suction in trucks
- Art. 45539 flexible probe \varnothing 8 mm - length 2000 mm
- Art. 45540 special flexible probe \varnothing 12 mm - length 700 mm for quick suction.

Already supplied with the following articles:
Art. 45100 - 45110 - 45150 - 45180 - 45250 - 45280 - 43116 - 43190 - 42164 - 42215

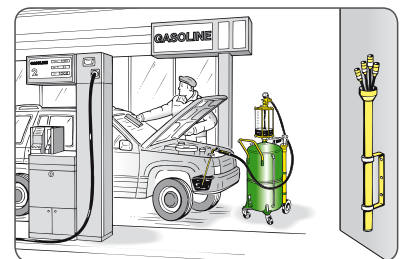
Connectors for incorporated probes



- for Mercedes cars connect the quick-release connector A of the oil drainer directly to the probe incorporated in the engine.
- for JTD Fiat Group cars: Art. 45498
- for Audi cars: Art. 45499
- for Volkswagen cars: Art. 45500
- for BMW cars: Art. 45501
- for Citroen cars: Art. 45502



Art. 45570
Wall-mounted probe kit, a handy container for the longest and less-used probes, useful for avoiding having to carry them with the drainer



Art. 45550
3/8" connection for outboard engines supplied with the drainers for boating

Art. 45551
3/4" connection for inboard engines supplied with the drainers for boating

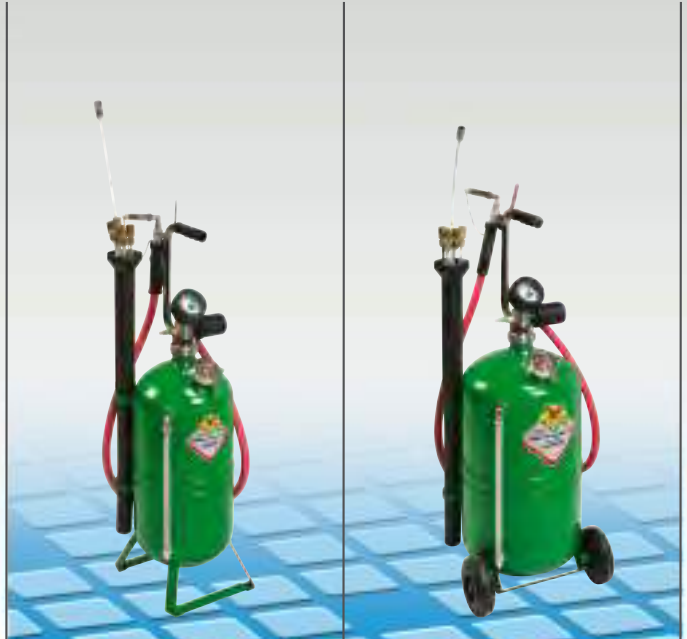
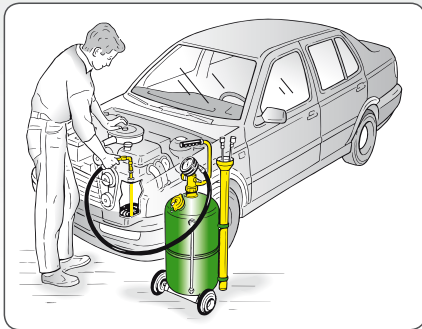


PORTABLE waste oil drainers

manual emptying

Air-operated drainers.

Ideal for quick engine oil change of any motor vehicle. The old oil is sucked from the engine by means of the probes supplied. After depressurisation the drainer works independently without requiring continuous connection to the compressed air system. **Suck hot oil at 70 - 80 °C.**

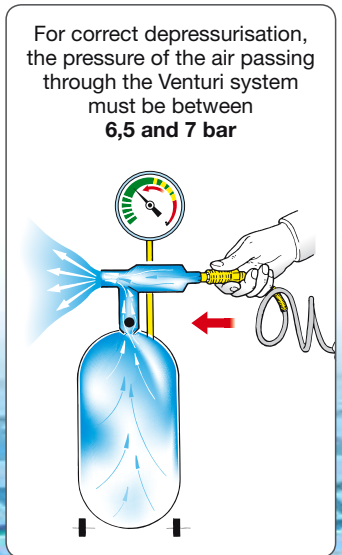
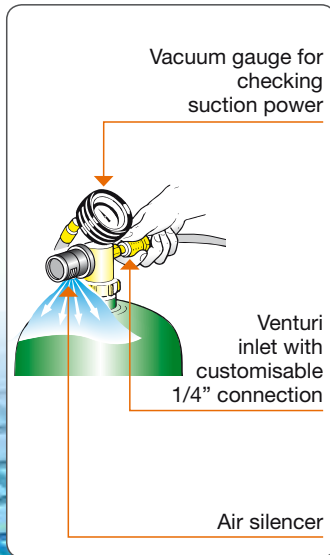


	portable	wheel-mounted
Article	43016	43024
Tank capacity litres	16	24
Max draining capacity litres	13	20
Air pressure for depressurisation bar	6,5 - 7	6,5 - 7
Depressurisation time min	1	1 - 1,5
Noise level dB	75	75
Suction speed l/min	1,5 - 2	1,5 - 2
Total suction capacity litres	9 - 10	15 - 16
Suction hose m	2	2
Set of probes Art.	45560	45560
Packing N° - m ³	1 - 0,080	1 - 0,090
Weight kg	10,5	13,7
Dimensions (A - B - C) cm	25,5 - 22,5 - 84,5	28 - 33 - 86

Caution: do not suck brake fluids, fuels, flammable or corrosive liquids



Details and advantages

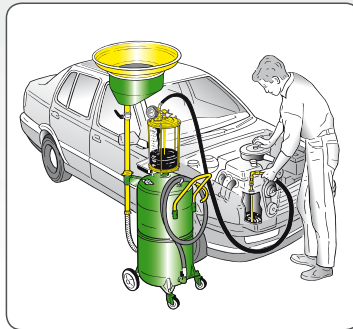
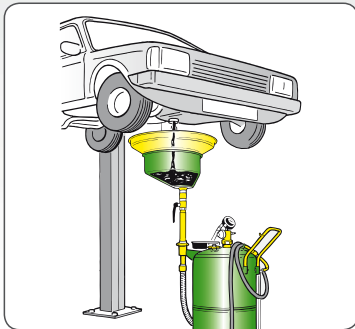




PROFESSIONAL waste oil suction-drainers

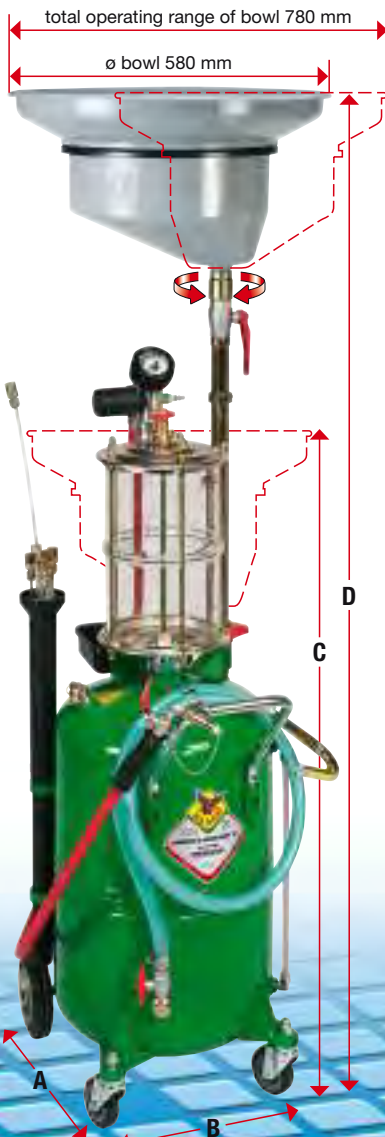
gravity-drainers

Gravity and air operated suction drainers. Ideal for quick engine oil change of any motor vehicle. Waste oil can be collected by gravity, using the bowl mounted on the adjustable support, or by suction through the supplied probes. After depressurisation the drainer works independently without requiring continuous connection to the compressed air system. **Suck hot oil at 70 - 80 °C.**



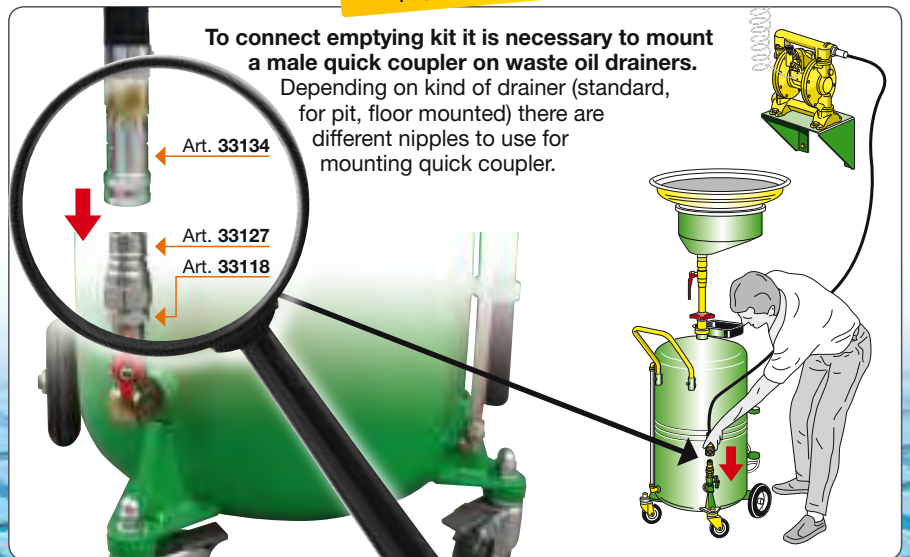
central bowl

side bowl



Article		42065	42090	42115	42066	42091	42116
Tank capacity	litres	65	90	115	65	90	115
Max draining capacity	litres	52	75	97	52	75	97
Prechamber capacity	litres	-	-	-	-	-	-
Bowl capacity	litres	15	15	15	15	15	15
Air pressure for depressurisation	bar	-	-	-	-	-	-
Depressurisation time	min	-	-	-	-	-	-
Noise level	dB	-	-	-	-	-	-
Suction speed	l/min	-	-	-	-	-	-
Total suction capacity	litres	-	-	-	-	-	-
Discharging/suction hose	m	draining 2	draining 2	draining 2	draining 2	draining 2	draining 2
Max pressure for draining	bar	0,5	0,5	0,5	0,5	0,5	0,5
Set of probes	Art.	-	-	-	-	-	-
Packing	N° - m ³	2 - 0,270	2 - 0,300	2 - 0,420	2 - 0,270	2 - 0,300	2 - 0,420
Weight	kg	33	34	42	33	34	42
Dimensions (A - B - C)	cm	60-42-127	64-42-140	66-49-142	60-42-134	64-42-125	66-49-128
Ingombro max (D)	cm	178	190	192	175	170	173

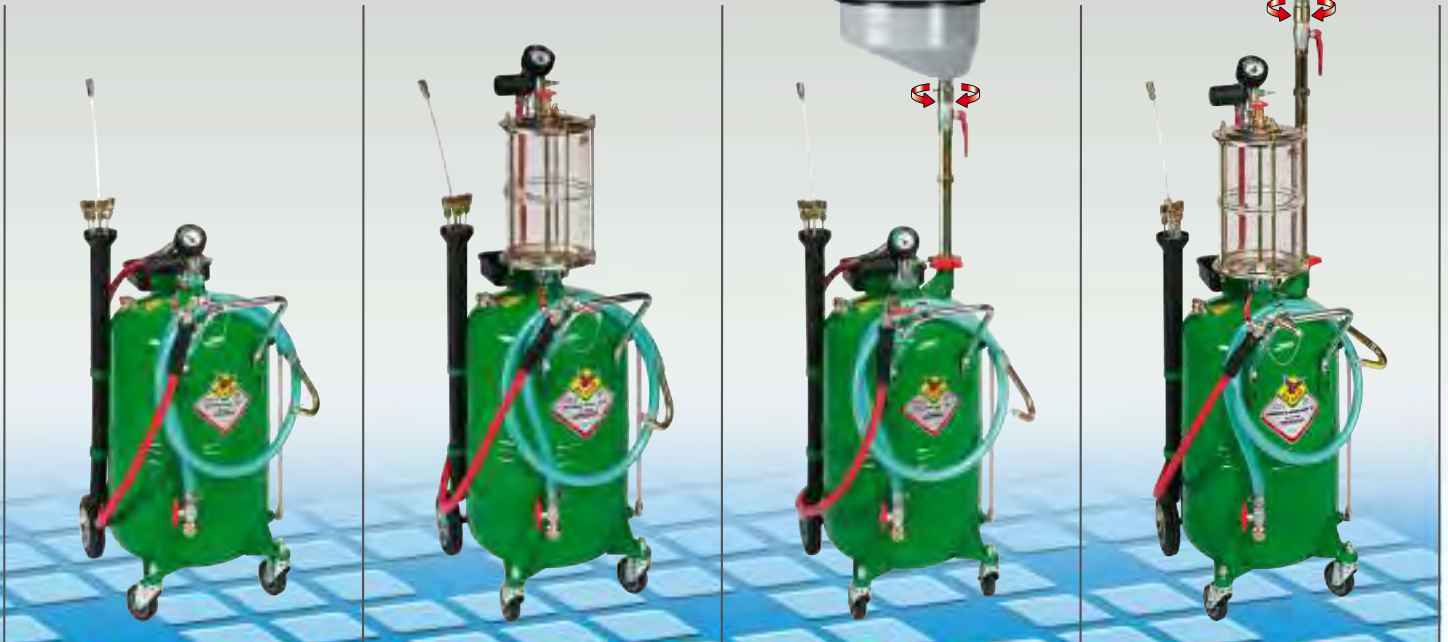
To connect waste oil gravity and suction drainers to emptying kit see page 50



To connect emptying kit it is necessary to mount a male quick coupler on waste oil drainers. Depending on kind of drainer (standard, for pit, floor mounted) there are different nipples to use for mounting quick coupler.

suction-drainers

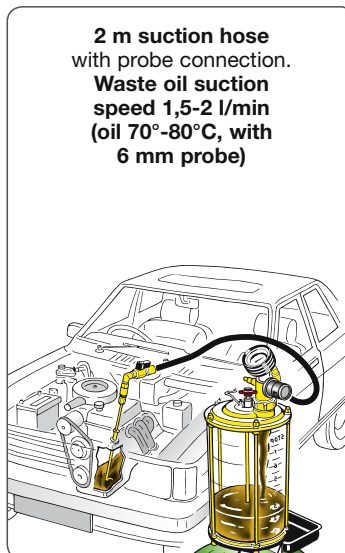
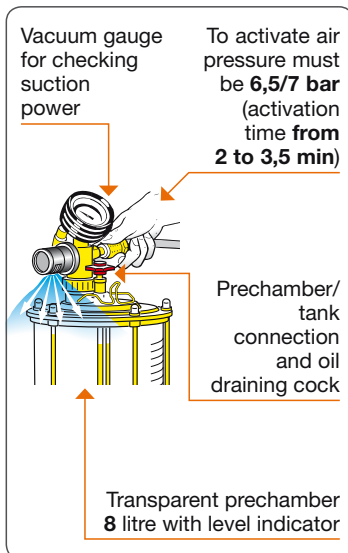
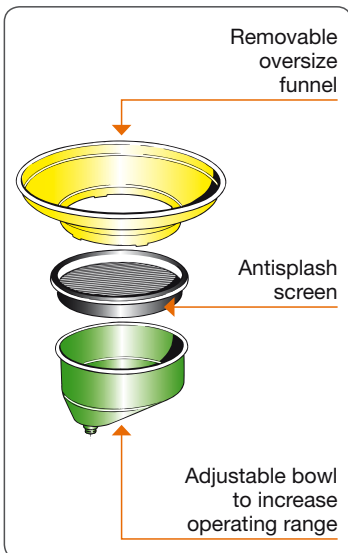
combined drainers



standard			with prechamber			standard			with prechamber		
43060	43090	43114	43065	43091	43115	44060	44090	44115	44065	44091	44116
65	90	115	65	90	115	65	90	115	65	90	115
52	75	97	52	75	97	52	75	97	52	75	97
-	-	-	8	8	8	-	-	-	8	8	8
-	-	-	-	-	-	15	15	15	15	15	15
6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7
2	2,5 - 3	3 - 3,5	2	2,5 - 3	3 - 3,5	2	2,5 - 3	3 - 3,5	2	2,5 - 3	3 - 3,5
75	75	75	75	75	75	75	75	75	75	75	75
1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2
43 - 45	60 - 65	85 - 90	43 - 45	60 - 65	85 - 90	43 - 45	60 - 65	85 - 90	43 - 45	60 - 65	85 - 90
2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
45560	45560	45560	45560	45560	45560	45560	45560	45560	45560	45560	45560
2 - 0,230	2 - 0,250	2 - 0,420	2 - 0,230	2 - 0,225	2 - 0,420	3 - 0,330	3 - 0,360	3 - 0,460	3 - 0,330	3 - 0,360	3 - 0,460
26,9	31,4	42	32,9	36	43	34,6	38,2	43	38,2	42,1	50
60-42-86	64-42-100	66-49-102	60-42-128	64-42-140	66-49-142	62-42-134	62-42-138	66-49-170	60-42-153	62-42-166	66-49-168
-	-	-	-	-	-	175	188	190	175	188	190

Caution: do not suck brake fluids, fuels, flammable or corrosive liquids

Details and advantages

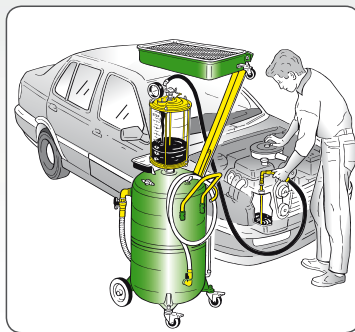
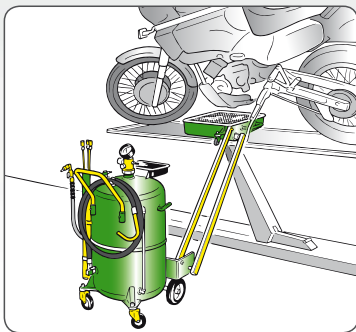




PANTOGRAPH waste oil suction-drainers

moto and cars

Air-operated combination suction-drainer (50 litre) with pantograph collection bowl and wheel-mounted 115 litre tank. Waste oil can be collected whether by gravity, using the recovering basin on the floor or in the upper position if vehicles are over car lift, or by suction through the supplied probes. After depressurisation the drainer works independently without requiring continuous connection to the compressed air system
Suck hot oil at 70 - 80 °C



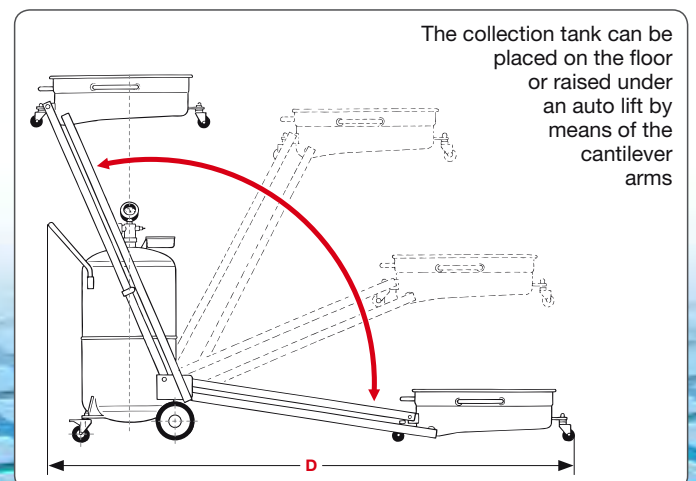
suction-drainers

combination

Article	46064	46065
Tank capacity	litres	litres
	65	65
Max draining capacity	litres	litres
	52	52
Prechamber capacity	litres	litres
	-	-
Bowl capacity	litres	litres
	14	14
Air pressure for depressurisation	bar	bar
	-	6,5 - 7
Depressurisation time	min	min
	-	2
Noise level	dB	dB
	-	75
Suction speed	l/min	l/min
	-	1,5 - 2
Total suction capacity	litres	litres
	-	43 - 45
Discharging/suction hose	m	m
	2	2/2
Max pressure for draining	bar	bar
	0,5	0,5
Set of probes	Art.	Art.
	-	45560
Packing	N° - m ³	N° - m ³
	3 - 0,247	4 - 0,310
Weight	kg	kg
	38,2	42,7
Dimensions (A - B - C)	cm	cm
	57 - 49 - 100	57 - 49 - 100
Max dimensions (D)	cm	cm
	200	200



Caution: do not suck brake fluids, fuels, flammable or corrosive liquids



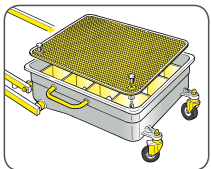
cars

trucks

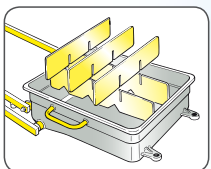


suction-drainers	combination	with prechamber	with collecting basin (50 litres)
46114	46115	46116	46215
115	115	115	115
97	97	97	97
-	-	8	-
14	14	14	50
-	6,5 - 7	6,5 - 7	6,5 - 7
-	3 - 3,5	3 - 3,5	3 - 3,5
-	75	75	75
-	1,5 - 2	1,5 - 2	1,5 - 2
-	85 - 90	85 - 90	85 - 90
2	2/2	2/2	2/2
0,5	0,5	0,5	0,5
-	45560	45560	45560
3 - 0,360	4 - 0,420	4 - 0,420	4 - 0,5
51	54	58	68
65 - 58 - 150	65 - 58 - 150	65 - 58 - 150	70 - 62 - 156
240	240	240	255

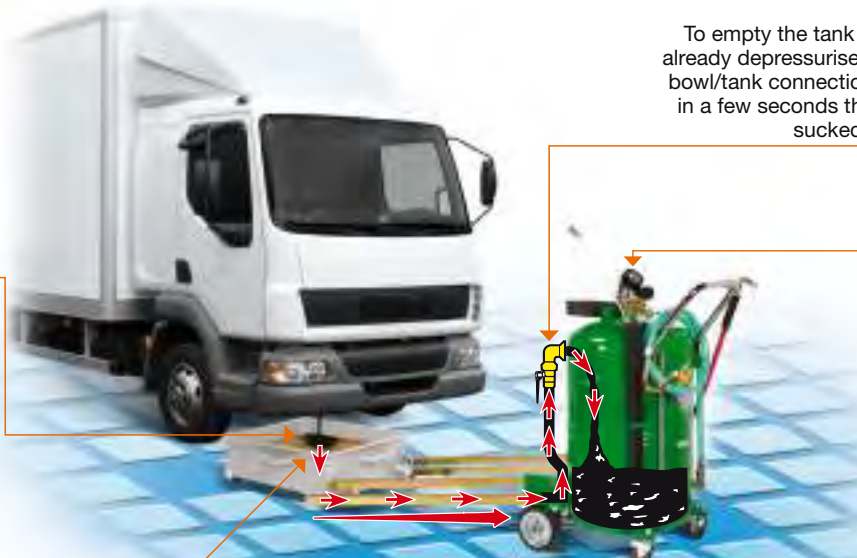
Details and advantages



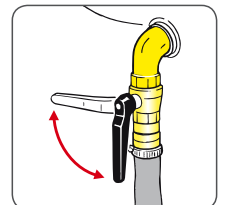
Protection screen/filter splash guard and support base for filter



Tank with antisplash



To empty the tank with device already depressurised, open the bowl/tank connection cock and in a few seconds the oil will be sucked in the tank



The air pressure for correct depressurisation is between **6,5 and 7 bar**



Modular kit for TRANSFER or EMPTYING

oil, waste oil and similar

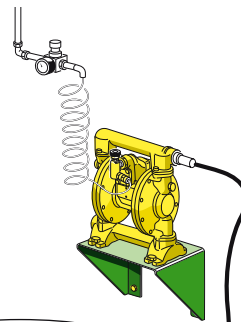
Wall-mounted transfer kit. A practical solution for draining movable equipment, waste oil suction/drainers by means of connection with quick-coupling valve. Wall application enables connection to a fixed system for discharging the sucked liquid directly into the storage tank.



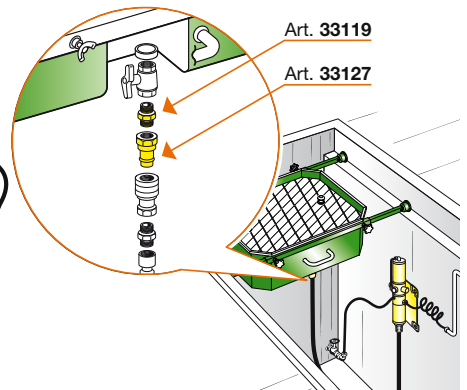
Art. 33134
Female quick coupler and nipple to connect pump suction hose with waste oil drainers. In their turn drainers must be equipped with male quick coupler.



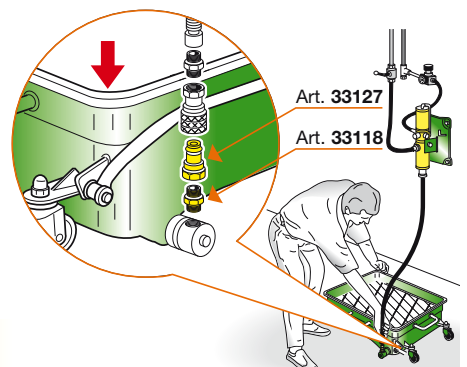
Aticle with seals in	VITON		33125
Aticle with seals in	NBR	33550	
Ratio		1:1	1:1
Capacity	l/min	40	23
Pump	Art.	33/2011NHHV2	33070
Flexible suction tube 2 m	Art.	38026	38026
Air inlet flow regulator	Art.	37803	37803
Wall bracket	Art.	33590	33115
Packing	N° - m ³	1 - 0,030	1 - 0,029
Weight	Kg	14	8,4
Distance (A)	cm	150	150



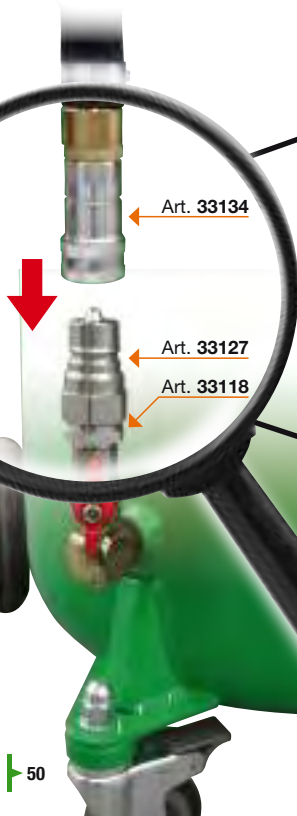
1 Pit waste oil drainer



2 Floor waste oil drainer



To connect waste oil drainers with above mentioned emptying kit it is necessary to mount a male quick coupler. Depending on the kind of waste oil drainers (standard, for pit or floor mounted) a different nipple must be used as shown in the examples (Pic. 1 - 2 - 3).

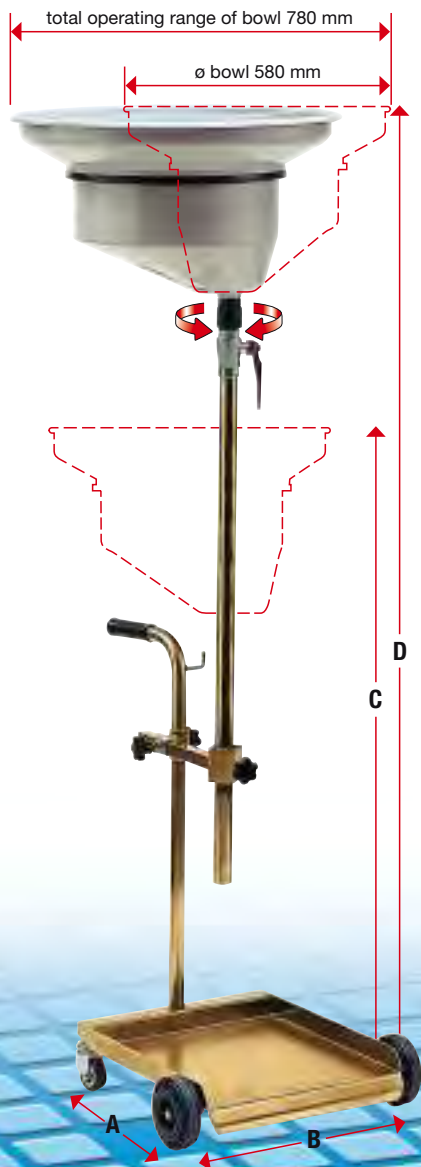
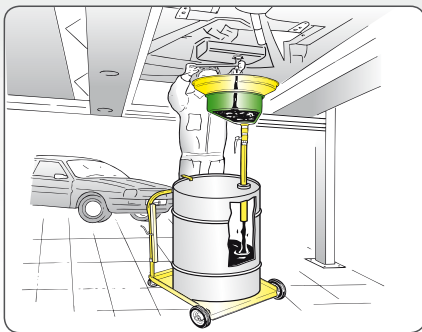


3 Standard waste oil drainer



Waste oil drainers for DRUM

Wheel-mounted waste oil drainers. Ideal for use with jerry cans, drums and containers of various sizes, up to 220 kg. Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles placed on an car lift or pit.
The height-adjustable **bowl** (15 litres) is mounted on a swivel joint that facilitates positioning.



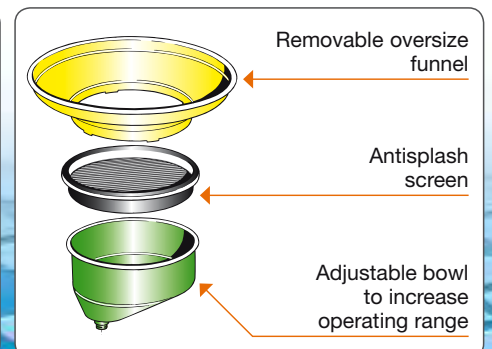
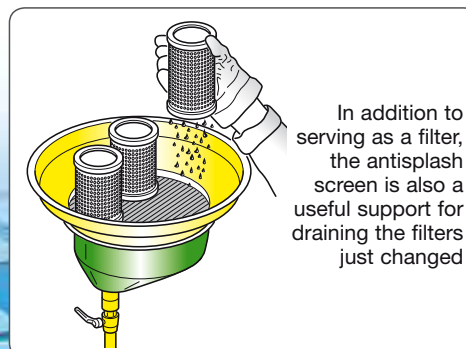
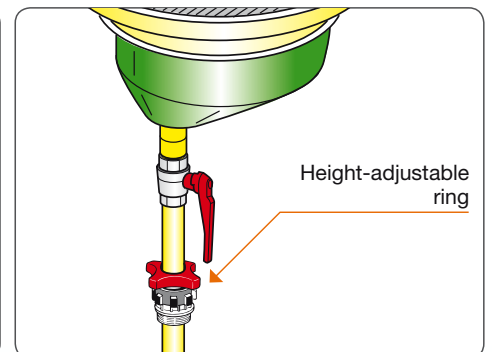
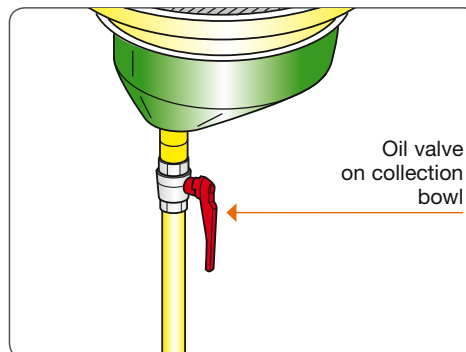
15 litre adjustable bowl



		adjustable bowl	wheel-mounted	wheel-mounted
Article		42004	42050	42000
Trolley capacity	litres	-	20 - 60	180 - 220
trolley	Art.	-	80050	80200
Bowl capacity	litres	15	15	15
Antisplash screen		yes	yes	yes
Drum clamping ring		yes	yes	yes
Packing	N° - m ³	1 - 0,350	2 - 0,120	2 - 0,150
Weight	kg	9	17	29
Dimensions (A - B - C)	cm	58 - 58 - 115	64 - 50 - 120	70 - 77 - 130
Max dimensions (D)	cm	115	180	180

Caution: do not use with flammable or corrosive liquids

Details and advantages

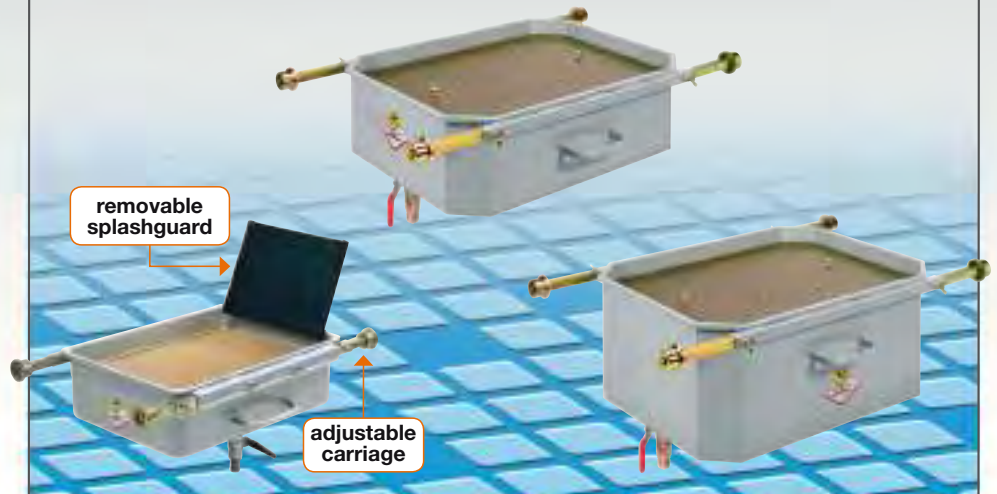
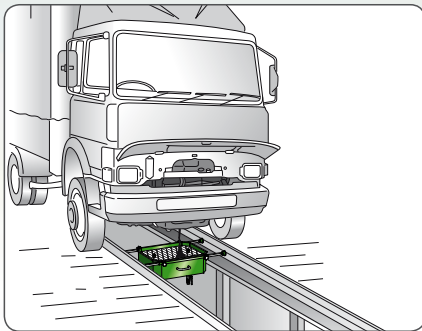




Waste oil pit drainer

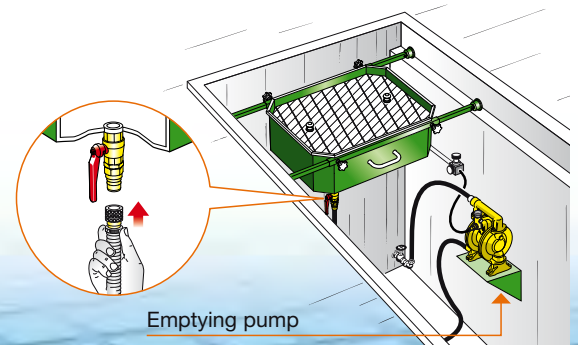
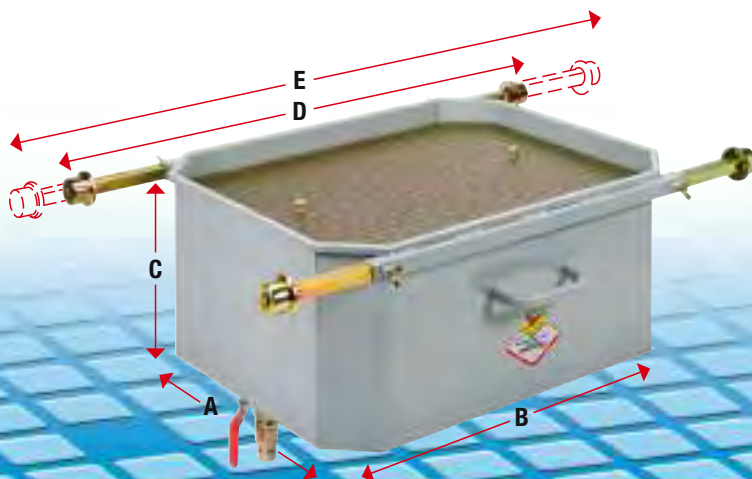
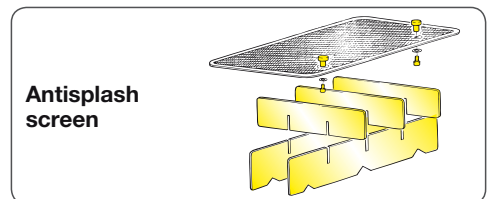
Pit waste oil drainers.

Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles placed on a pit. Equipped with antisplash screen which can be used as a support for draining oil filters.



Article	42059	42060	42061	42062	42055	42056
Tank capacity litres	65	65	110	110	150	150
Wheels	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage
Emptying	by suction	by gravity	by suction	by gravity	by suction	by gravity
Equipped with	quick-release connector	hose-holder ø 30	quick-release connector	hose-holder ø 30	quick-release connector	hose-holder ø 30
Packing N° - m ³	1 - 0,140	1 - 0,140	1 - 0,220	1 - 0,220	1 - 0,270	1 - 0,270
Weight kg	27,5	28	39,5	40	53,5	54
Dimensions (A - B - C) cm	51 - 66 - 22	51 - 66 - 22	63,5 - 79 - 26,4	63,5 - 79 - 26,4	63,5 - 79 - 35,7	63,5 - 79 - 35,7
Dimensions (D - E) cm	75 - 120	75 - 120	84 - 125	84 - 125	84 - 125	84 - 125

Caution: do not use with flammable or corrosive liquids

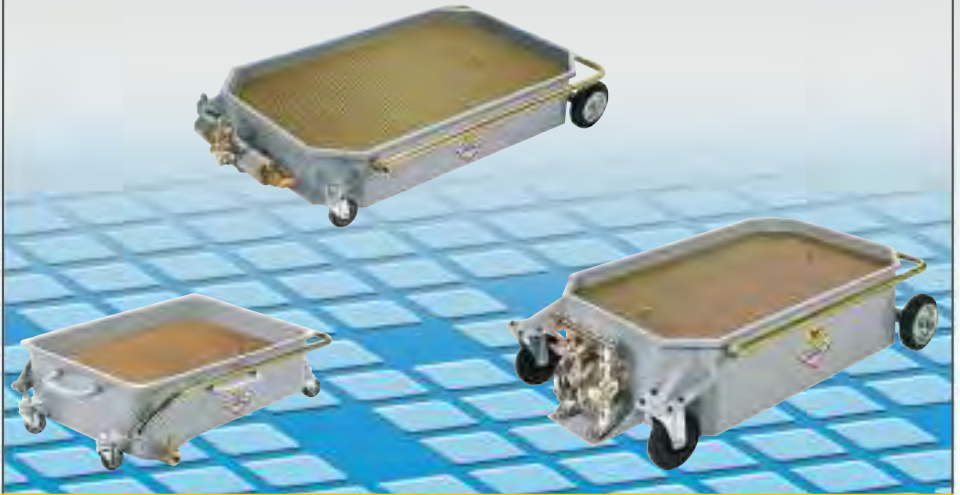


The drained oil can be transferred from the collection bowl to the storage tank by gravity or by using an emptying pump connected to the fixed system



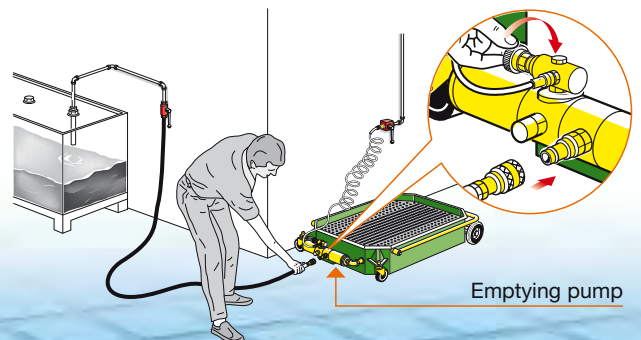
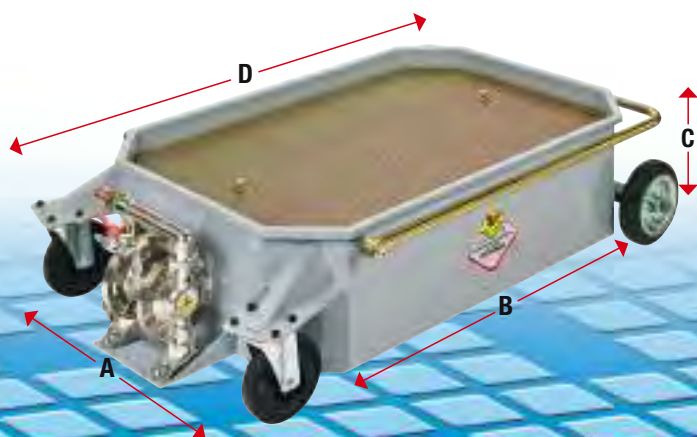
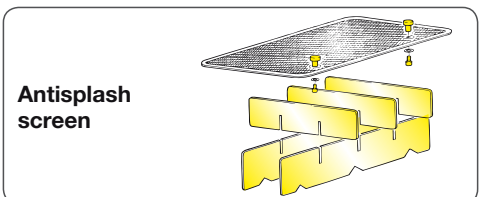
Waste oil floor drainer

Wheel-mounted floor waste oil drainers. Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles. Equipped with antisplash screen which can be used as a support for draining oil filters.



Article	42069	42070	42072	42073	42075	42076	
Tank capacity	litres	50	50	95	95	150	150
Wheels	4 castors	4 castors	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed	
Emptying	by suction	by suction	by suction	pneumatic	by suction	pneumatic	
Equipped with	quick-release connector	junction tube	quick-release connector	pump 33070	quick-release connector	pump 33/2011NHHV2	
Packing	N° - m ³	1 - 0,140	1 - 0,140	1 - 0,200	1 - 0,200	1 - 0,330	1 - 0,330
Weight	kg	20,5	21	37,5	40	53	61
Dimensions (A - B - C)	cm	63 - 66 - 23,5	63 - 66 - 23,5	72,5 - 99 - 20	72,5 - 99 - 20	74,2 - 99,6 - 29,5	74,2 - 99,6 - 29,5
Dimensions (D - E)	cm	78	78	119,9	119,9	123,8	123,8

Caution: do not use with flammable or corrosive liquids



The drained oil can be transferred from the collection bowl to the storage tank by suction with the incorporated probe or by an emptying pump connected to the fixed system or mounted directly on the collection basin



Suction drainer with pump

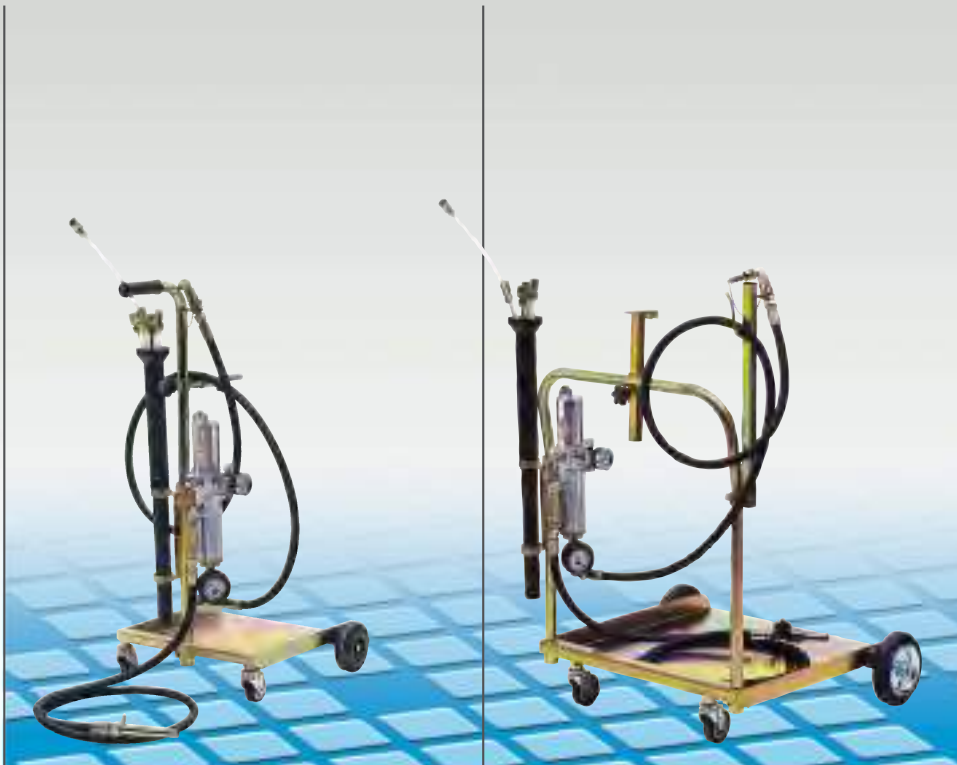
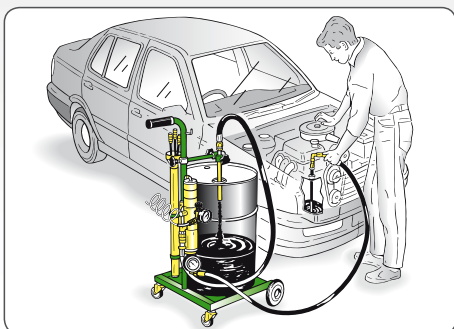
wheel-mounted

oil, waste oil, antifreeze liquid and similar products

Air pump operated fixed drainers.

They enable **draining** by means of the probes supplied. The air pump, equipped with special VITON seals, is particularly suitable for sucking and delivering fluids such as: various oils, old oil, antifreeze liquid, diesel oil and similar products.

Wall-mounting enables connection to a fixed system for draining the sucked liquid directly in the storage tank.



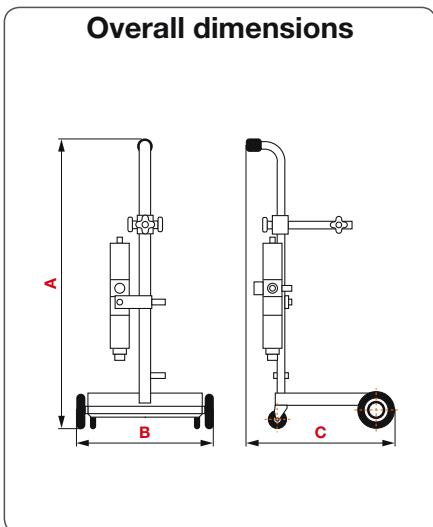
for drums **30 - 60 kg**

for drums **180 - 220 kg**

Article		45150	45180
Pump	Art.	33070/A	33070/A
Max air pressure	bar	6	6
Noise level	dB	81	81
Suitable for drums	kg	30 - 60	180 - 220
Length of suction hose	m	1/2" x 2	1/2" x 2
Length of draining hose	m	1/2" x 2	1/2" x 2
Suction speed	l/min	1,5 - 2	1,5 - 2
Trolley	Art.	80050	80200
Column	Art.	-	-
Wall bracket	Art.	-	-
Wall-mounted probe kit	Art.	-	-
Hose reels	Art.	-	-
Set of probes	Art.	45560	45560
Special probe	Art.	45540 ø 12	45540 ø 12
Packing	N° - m ³	2 - 0,080	2 - 0,113
Weight	kg	19,5	32,1
Dimensions (A - B - C)	cm	100 - 50 - 64	87 - 76 - 67

Caution: do not suck any flammable or corrosive liquids

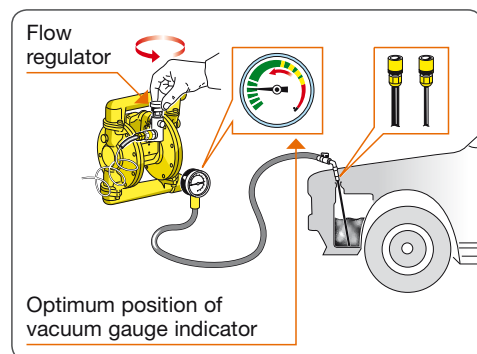
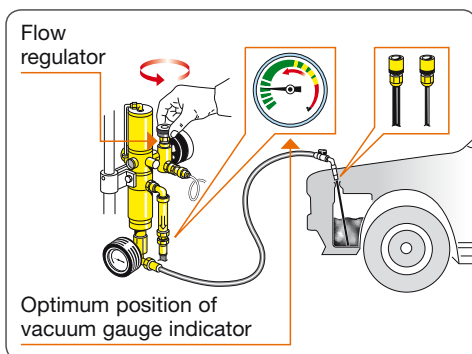
Overall dimensions



Details and advantages

For correct draining, the pump must operate slowly.

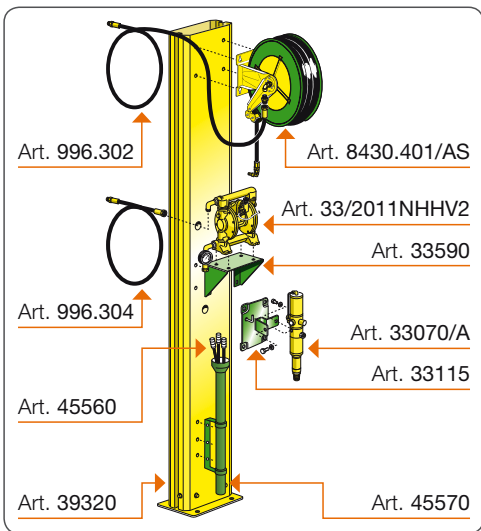
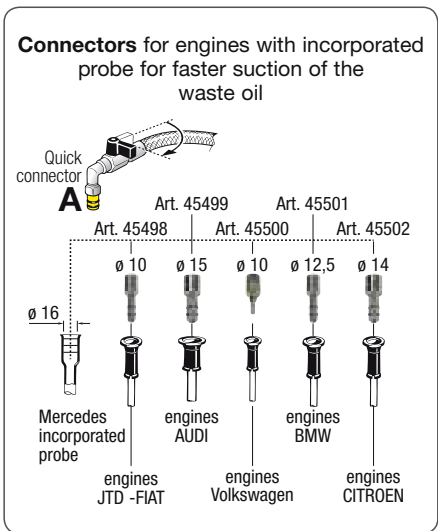
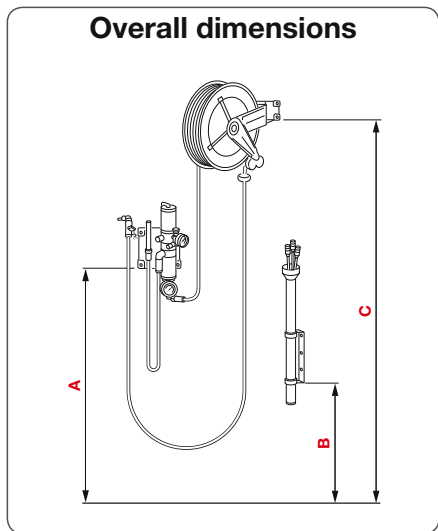
To adjust the working speed, operate the flow regulator, "metering" the inlet air feed. Make sure the vacuum gauge indicator is always in the optimum position



wall-mounted




wall-mounted - suction hose 4 m		wall-mounted - suction hose 10 m		column-mounted - suction hose 10 m	
45100	45300	45110	45310	45111	45311
33070/A	33/2011NHHV2	33070/A	33/2011NHHV2	33070/A	33/2011NHHV2
6	6	6	6	6	6
81	75	81	75	81	75
wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted
1/2" x 4	1/2" x 4	1/2" x 10	1/2" x 10	1/2" x 10	1/2" x 10
1/2" x 4	1/2" x 4	1/2" x 4	1/2" x 4	1/2" x 4	1/2" x 4
1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2
-	-	-	-	-	-
-	-	-	-	39320	39320
33115	33590	33115	33590	33115	33590
45570	45570	45570	45570	45570	45570
45560	45560	8430.401/AS	8430.401/AS	8430.401/AS	8430.401/AS
45540 ø 12	45540 ø 12	45560	45560	45560	45560
1 - 0,056	2 - 0,070	45540 ø 12	45540 ø 12	45540 ø 12	45540 ø 12
12,2	14	2 - 0,116	3 - 0,130	3 - 0,250	4 - 0,260
130 - 60 - 220	130 - 60 - 220	29,1	31	75	77
		130 - 60 - 220	130 - 60 - 220	245 - 29 - 59	245 - 29 - 59





Suction drainer-dispensers for fuels



IN ACCORDANCE WITH DIRECTIVE: ATEX 94/9 

Wheel-mounted air-operated suction systems, for the management of fuels.

The air pump, equipped with special VITON seals, is suitable for **sucking petrol or diesel oil** from any vehicle or motorcycle by means of the probes or connections supplied. The wheel-mounted drainer with pump is easy to handle, versatile. The system is equipped with an earth connection for discharging electrostatic current.



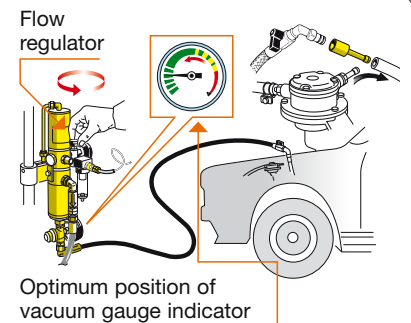
wall-mounted wheel mounted for drums **30 - 60 kg** wheel mounted for drums **180 - 220 kg**

Article		45200	45250	45280
Pump suction	Art.	-	33070/A	33070/A
Max pressure air to pump	bar	4	4	4
Noise level	dB	81	81	81
Suitable for drums	kg	-	50 - 60	180 - 220
Length of suction hose	m	-	2	2
Length of draining hose	m	-	2	2
Suction speed	l/min	5 - 10	5 - 10	5 - 10
Trolley	Art.	-	80050	80200
Wall bracket	Art.	33115	-	-
Set of probes	Art.	-	probe ø 8 - probe ø 12	probe ø 8 - probe ø 12
Connections for tubes ø 6 - 8 - 10	Art.	-	45290 - 45291 - 45292	45290 - 45291 - 45292
Earth connection 3 m		yes	yes	yes
Packing 	N° - m³	1 - 0,015	2 - 0,080	2 - 0,113
Weight 	kg	6,2	19,5	32,1
Dimensions (A - B - C)	cm	13,6 - 6,5 - 36	50 - 50 - 100	76 - 67 - 87

Details and advantages

For correct draining, the pump must operate slowly.

To adjust the working speed, operate the flow regulator, "metering" the inlet air feed. Make sure the vacuum gauge indicator is always in the optimum position



Art. 45290
Connection for tube ø 6



Art. 45291
Connection for tube ø 8

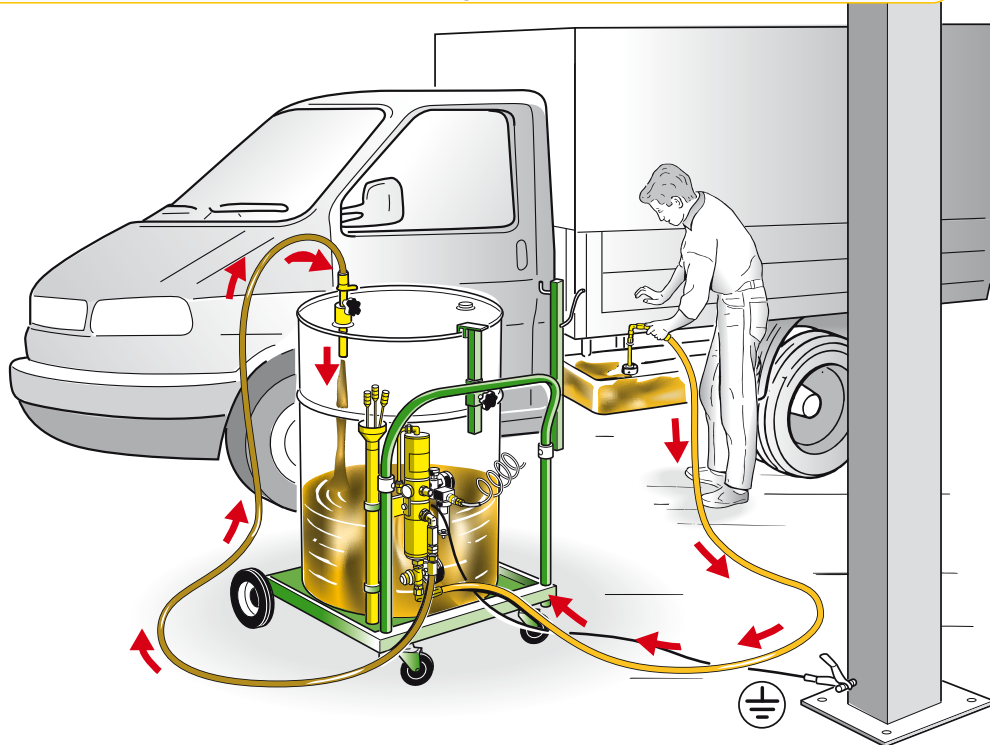


Art. 45292
Connection for tube ø 10



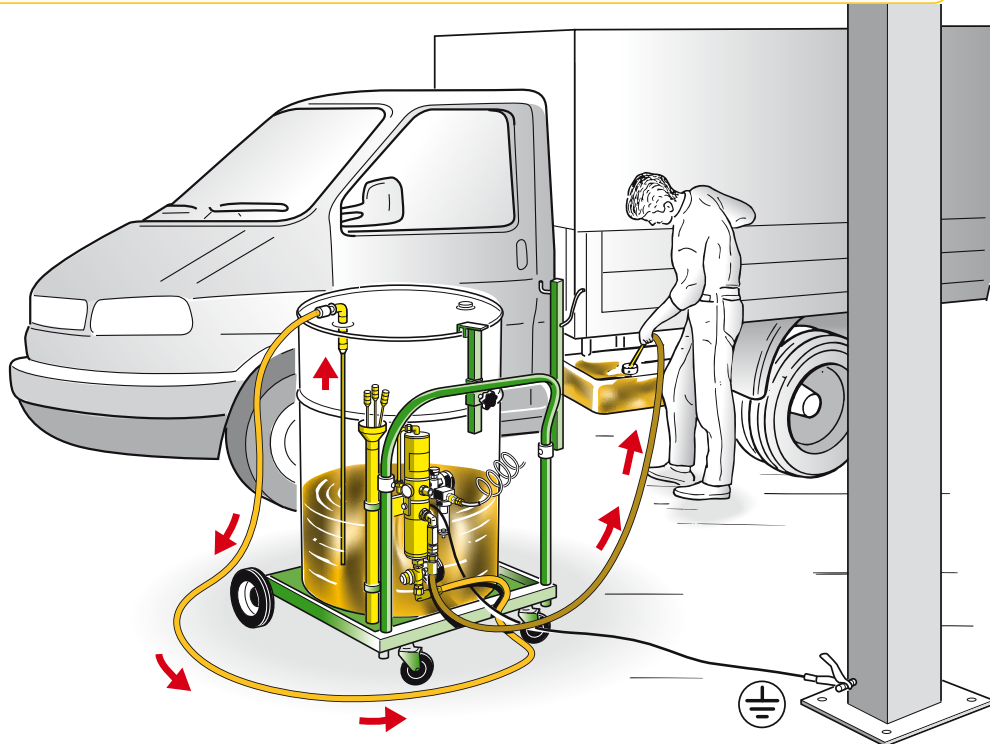
Dual use

Draining phase



Draining occurs by means of one of the probes supplied. For fuels use the \varnothing 12 mm flexible probe.
Note: connect to earth before use

Delivery phase of previously sucked liquid



Delivery of sucked liquids occurs by reversing the position of the tubes. Insert the suction tube in the container of previously sucked liquid. Insert the draining tube in the container (or tank) just emptied.
Note: connect to earth before use



FLUIDS AND LUBRICATION EQUIPMENT



Manual pumps for oil and grease

3



MANUAL OIL PUMPS

page 60



MANUAL OIL DISPENSERS

page 62



13 KG MANUAL GREASE PUMPS

page 63



HAND-OPERATED HIGH PRESSURE GREASE PUMPS

page 64



HAND-OPERATED GREASE TRANSFER PUMPS

page 65

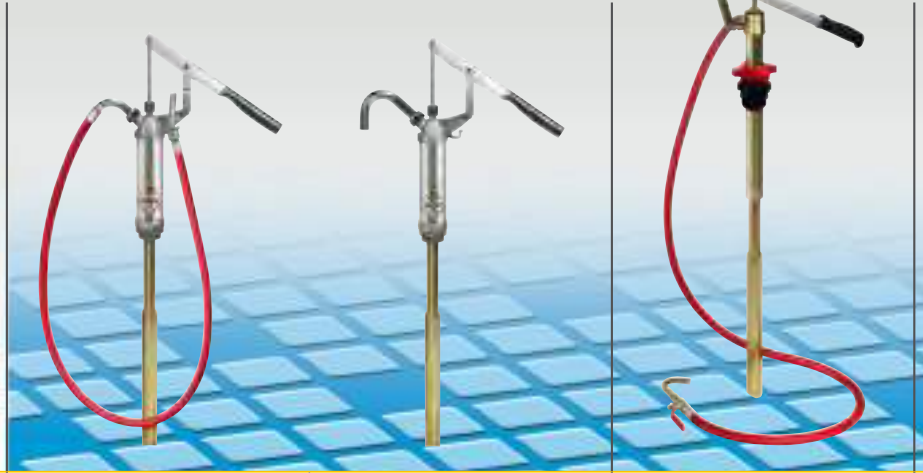


Manual pumps oil and similar

single-
acting

double-
acting

Manual pump for oil and allied products. Single-acting and VITON seals. Double-acting and NBR seals. The telescopic suction tube enables direct application on containers of different capacities. Suitable for delivering low-viscosity oil.



Article with seals in	VITON	31200	31201	
Article with seals in	NBR			30200
Tank capacity	litres	-	-	-
Suitable for drums	kg	50 - 220	50 - 220	50 - 220
Delivery hose length	m	2	-	2
Suction tube length	m	0,7 - 1,04	0,7 - 1,04	0,7 - 1,04
Quantity delivered for complete cycle of the lever	g	240	240	220
Max oil density delivered	SAE	130	130	240
Drum clamping ring	Art.	-	-	38044
Trolley	Art.	-	-	-
Antisplash funnel	Art.	-	-	-
Packing	N° - m ³	1 - 0,016	1 - 0,016	1 - 0,016
Weight	kg	4,2	4,0	4,4
Dimensions (A - B - C)	cm	5,7 - 5,7 - 138	5,7 - 5,7 - 138	3,8 - 3,8 - 115

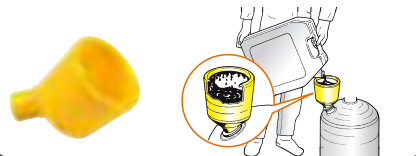
Caution: do not use with flammable or corrosive liquids



Art. 24891

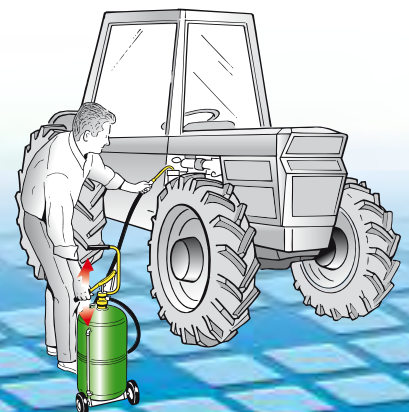
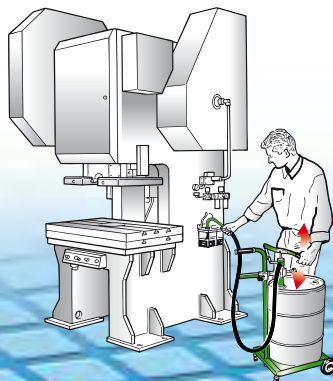
Antisplash funnel

With antisplash rim to prevent the liquid from spilling out when filling the tank



Art. 32713

Digital litre-counter
complete with
connection unions



double-acting

double-acting pump



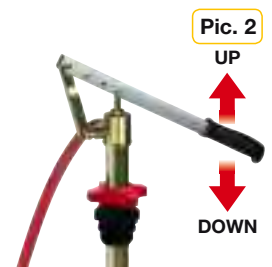
30050	32016	32024	32065
-	16	24	65
30 - 60	-	-	-
2	2	2	2
0,7 - 1,04	-	-	-
220	220	220	220
240	240	240	240
38044	-	-	-
80050	-	-	-
-	24891	24891	24891
2 - 0,040	1 - 0,080	1 - 0,090	2 - 0,185
13,6	10,6	13,7	24
46 - 50 - 123	25,5 - 22,5 - 86	28 - 33 - 89	60 - 42 - 88

Single-action (Pic. 1) occurs when the pumping piston delivers the fluid only in the pumping lever downstroke



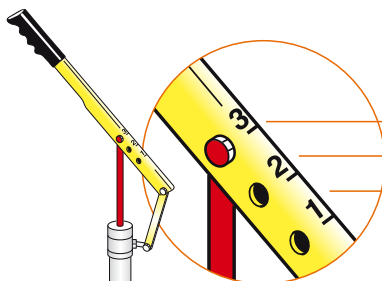
Pic. 1

Double-action (Pic. 2) occurs when the pumping piston delivers the fluid in its upstroke and downstroke. Double-action delivers the fluid with a continuous and constant flow



Pic. 2

Lever hooking variation table



Hooking position	Pumping shaft stroke	Compression ratio obtainable	Delivery capacity with complete cycle	Indication of types of oil that can be delivered according to the lever position
n°3	127 mm	1 : 2,2	220 g	SAE W 80/90
n°2	100 mm	1 : 3,6	170 g	SAE W 85/140
n°1	60 mm	1 : 6,9	100 g	SAE 240

The position of lever pivot can be varied (3 hookings) to adapt the pumping force to the viscosity of the oil used



Air-operated oil dispensers

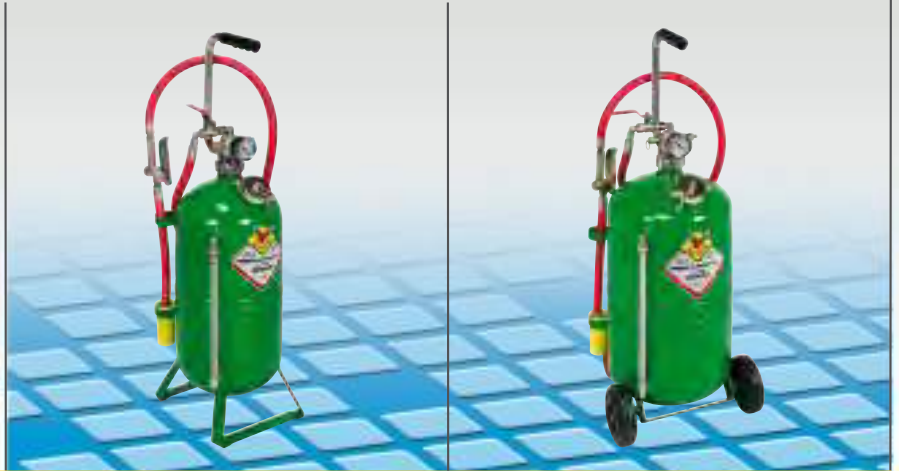
portable



wheel-mounted

Air-operated oil dispensers

suitable for high-viscosity oil.
Filled with oil to 4/5 their capacity
and pressurised to 6 - 8 bar,
they work independently without
requiring connection to the
compressed air system.

The air-operated oil dispensers are
ideal for filling or topping-up engine,
gearbox, differential, hydraulic power
pack, reduction unit oil, etc.



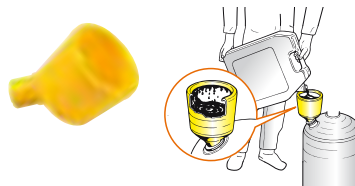
Article		33016	33024
Tank capacity	litres	16	24
Working pressure	bar	6 - 8	6 - 8
Safety valve	bar	10	8
Delivery hose length	m	2	2
Gun hose length	m	0,27	0,27
Max oil density delivered	SAE	130	130
Antisplash funnel	Art.	24891	24891
Packing 	N° - m ³	1 - 0,080	1 - 0,090
Weight 	kg	9,9	13,1
Dimensions (A - B - C)	cm	25,5 - 22,5 - 86	28 - 33 - 89

Caution: do not use with flammable or corrosive liquids

Art. 24891

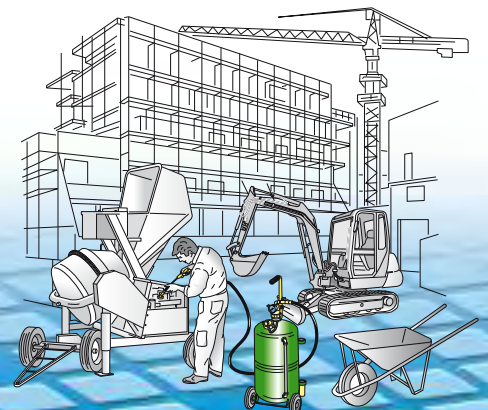
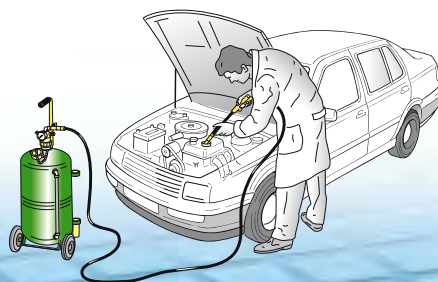
Antisplash funnel.

With antisplash rim to prevent the
liquid from spilling out when filling
the tank



Art. 32713

Digital litre-counter kit with partial
and cumulative reading, complete
with connection unions.
Application between the pump and
delivery hose allows the quantity of oil
delivered to be controlled





Portable grease dispenser

Portable and wheel-mounted or air operated manual grease pumps. Practical and functional, they can be used in all workplaces and enable quick, high-pressure greasing on any motor vehicle or mechanism.

They are equipped with a grease follower plate that protects the lubricant and ensures positive priming.

manual

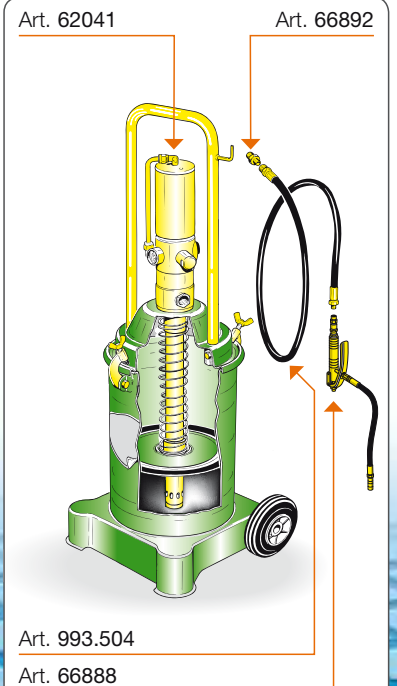
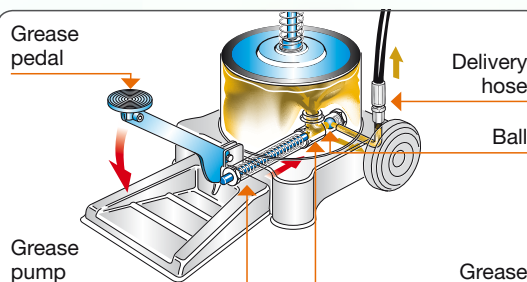
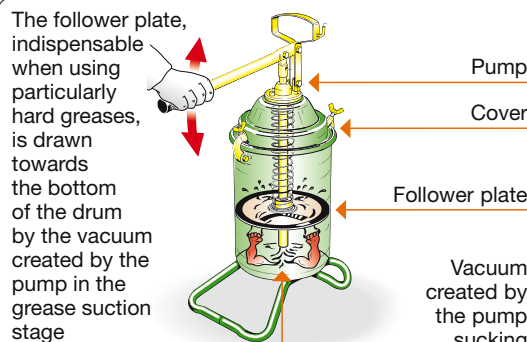
air operated



Article		68012	68113	68213
Tank capacity	kg	13	13	13
Delivery hose length	m	2,5 - 1/4"	2,5 - 1/4"	4 - 1/4"
Delivery hose	Art.	KR6802	KR6802	993.504
Max outlet pressure	bar	350/400	300/350	350/400
Capacity every 10 cycles of lever	g	60	40	-
Pump	Art.	-	-	62041
Compression ratio		-	-	50:1
Noise level	dB	-	-	81
Max working pressure	bar	-	-	8
Max air consumption	l/min	-	-	330
Capacity (free outlet 6 bar self-levelling grease at 20° C)	g/min	-	-	1000
Grease follower plate	Art.	yes	yes	yes
Grease coupler	Art.	66739	66739	66740
Nipple	Art.	-	-	66892
Grease gun	Art.	-	-	66888
Packing	N° - m ³	1 - 0,070	1 - 0,070	1 - 0,100
Weight	kg	10,4	14	16,7
Dimensions (A - B - C)	cm	34 - 24,5 - 71	52 - 34 - 84	30 - 34 - 84



Details and advantages

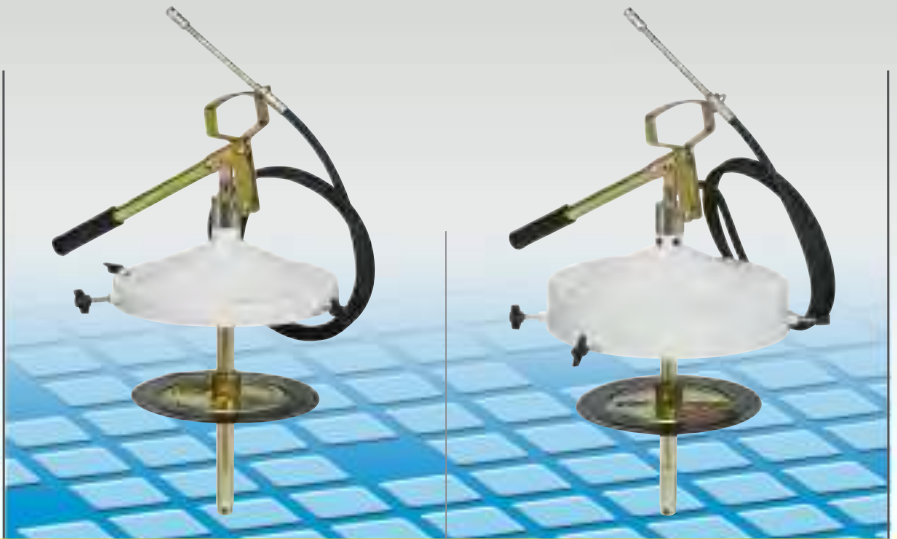




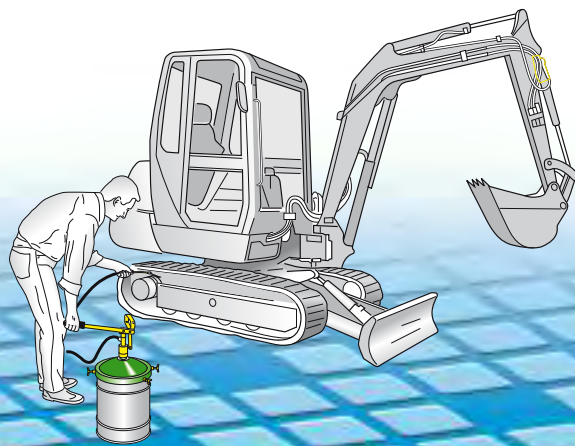
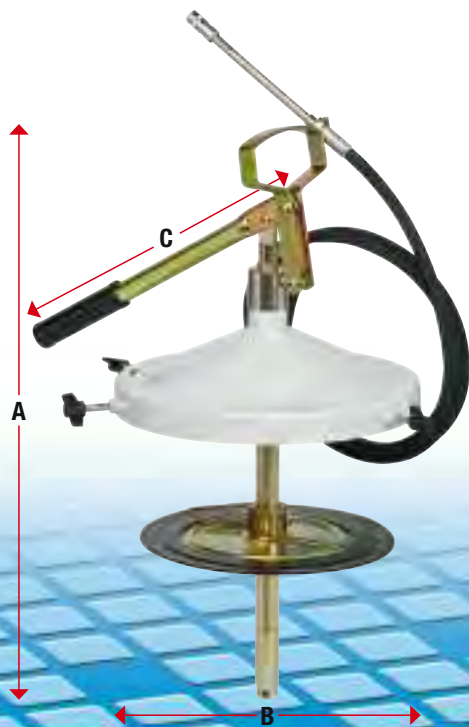
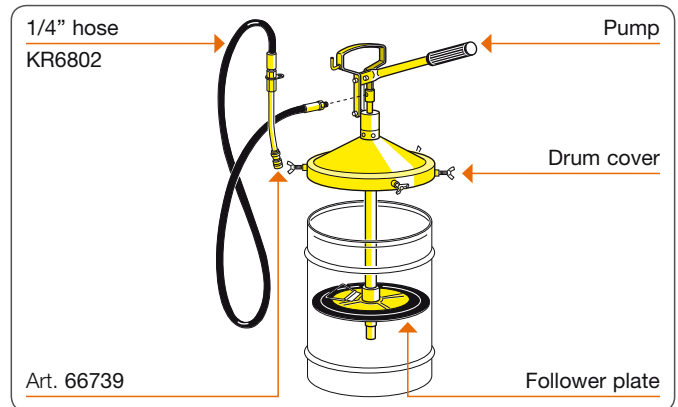
Manual grease pumps

high pressure **350 bar**

Portable lever-operated manual grease pumps. Practical and functional, they can be used in all workplaces, and in particular on rough ground such as in farming or building sites. They enable easy change of the grease container (drum or bucket) and quick greasing on any motor vehicle or mechanism. They are equipped with a grease follower plate that protects the lubricant and ensures positive priming.



Article		60280	60310	60311
Suitable for drums	kg	12 - 20	16 - 30	16 - 30
		from 240 to 280	from 260 to 300	from 270 to 330
For drums with external ø	mm			
Delivery hose length	m	2,5 - 1/4"	2,5 - 1/4"	2,5 - 1/4"
Max outlet pressure	bar	350/400	350/400	350/400
Capacity every 10 cycles of lever	g	60	60	60
Drum cover ø	mm	280	310	337
Grease follower plate ø	mm	265	310	310
Grease coupler	Art.	66739	66739	66739
Packing	N° - m ³	1 - 0,022	1 - 0,022	1 - 0,036
Weight	kg	5,4	6,5	7,2
Dimensions (A - B - C)	cm	63 - 28 - 35	63 - 31 - 35	63 - 33,7 - 35



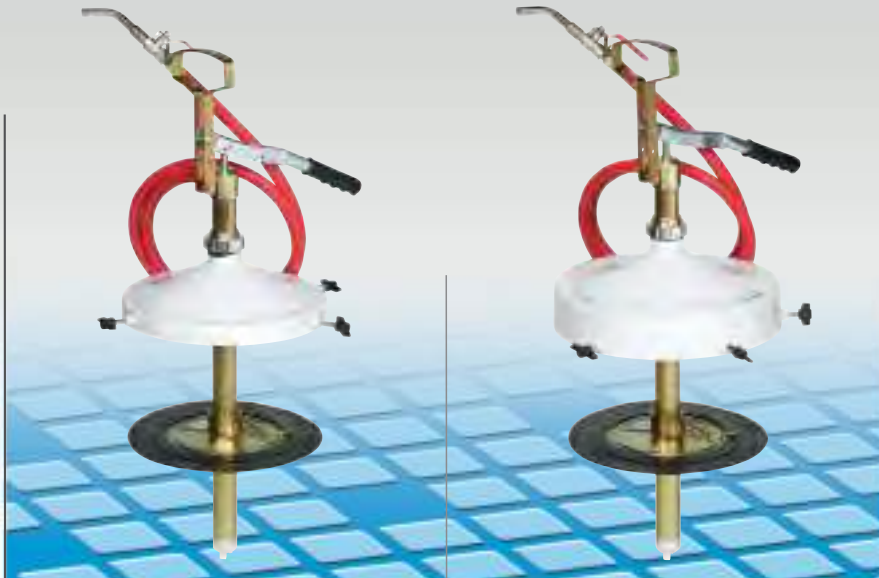


Manual grease pumps

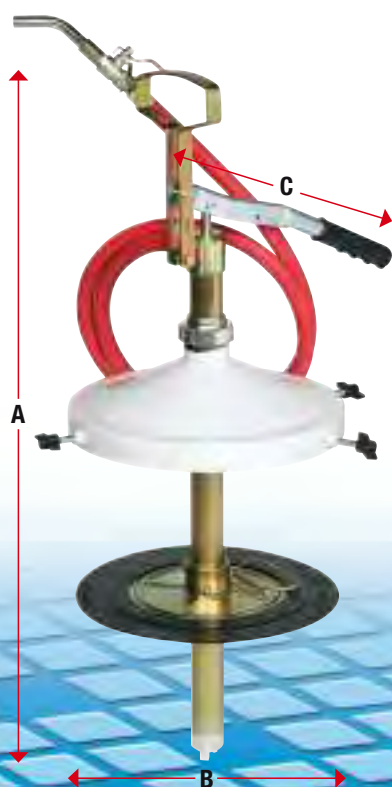
low pressure transferring 20 bar

Portable manual lever-operated grease transfer pumps.

Each cycle of the lever delivers 50 g of grease. Practical and handy, they are used for filling gearcases, casings, hand-operated grease guns. They enable easy changing of the grease container (drums or bucket) and are equipped with a grease follower plate that protects the lubricant and ensures positive priming.



Article		60410	60411
Suitable for drums	kg	16 - 30	16 - 30
For drums with external ø	mm	from 260 to 300	from 270 to 330
Delivery hose length	m	2 - 1/2"	2 - 1/2"
Max outlet pressure	bar	18/20	18/20
Capacity every 10 cycles of lever	g	500	500
Drum cover ø	mm	310	337
Grease follower plate ø	mm	310	310
Packing	N° - m ³	1 - 0,030	1 - 0,040
Weight	kg	6	6,7
Dimensions (A - B - C)	cm	78 - 31 - 35	78 - 33,7 - 35



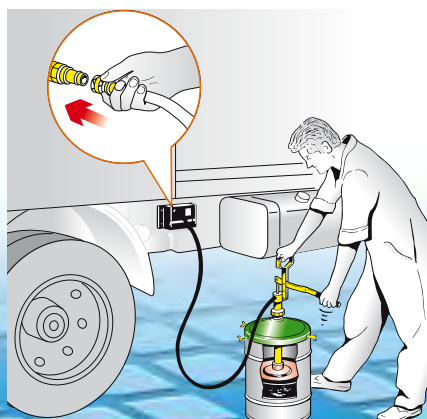
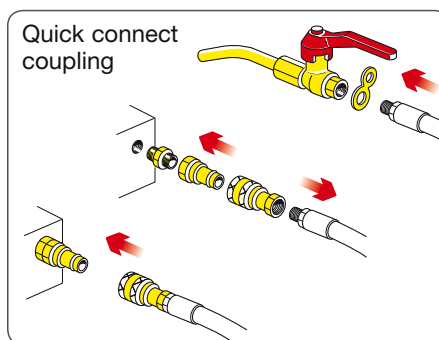
Art. 60450

Female quick connector
complete with check valve,
1/4" F thread for filling central
greasing system.
Max pressure 350 bar

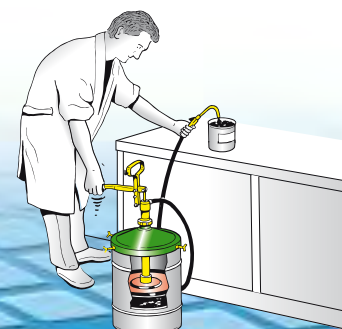


Art. 60451

Male quick connector
complete with check valve,
1/4" F thread for filling central
greasing system.
Max pressure 350 bar



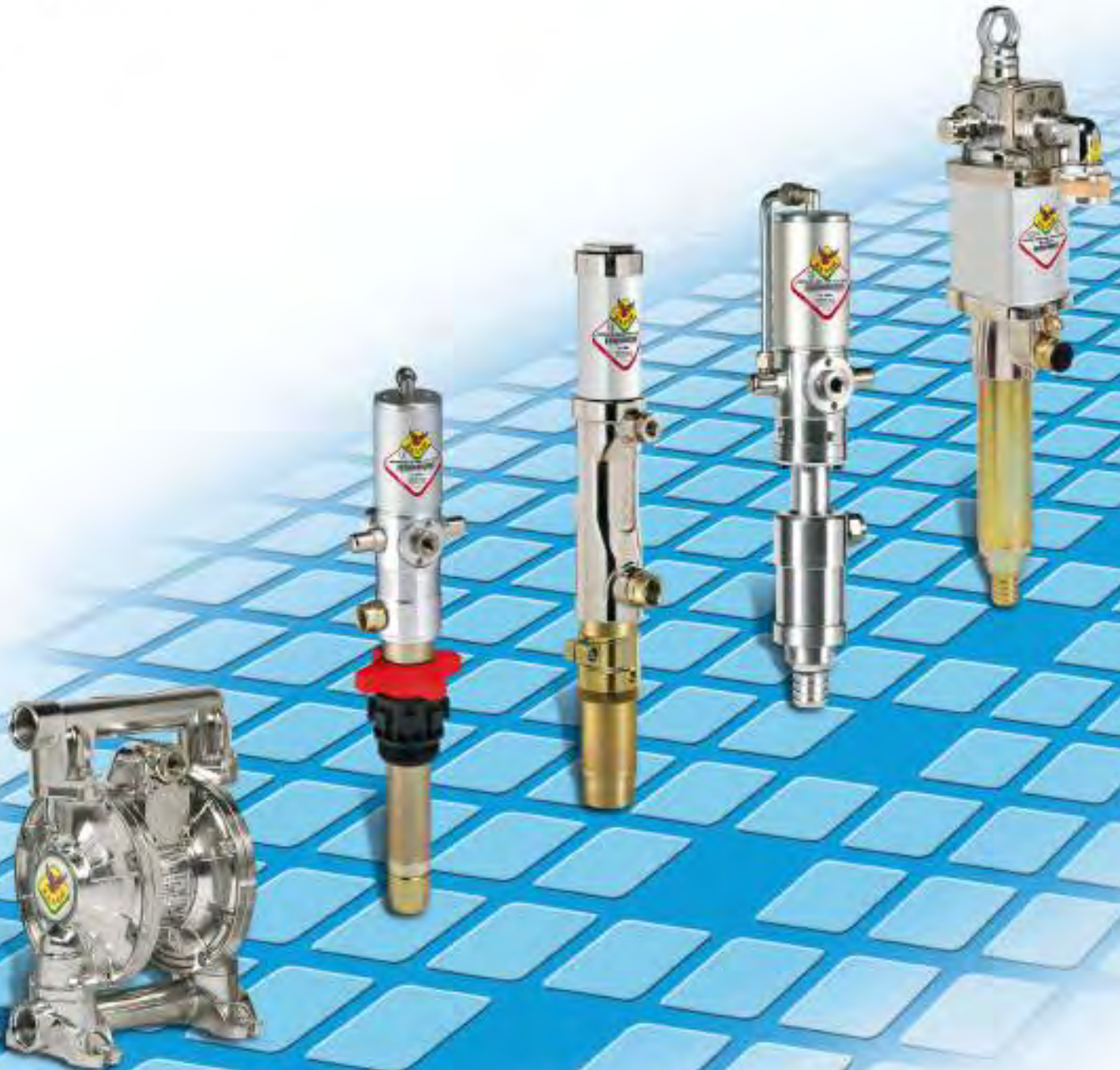
Filling central greasing system



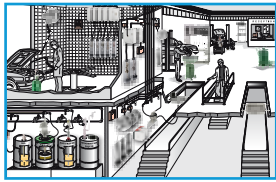
Transfer in small drums



FLUIDS AND LUBRICATION EQUIPMENT



Oil pumps for transfer and distribution



EXAMPLE OF SYSTEM

page 68



OIL PUMPS FOR TRANSFER AND DISTRIBUTION

page 70



TROLLEY-MOUNTED - FIXED - MODULAR KITS

page 82



OIL BAR

page 92



DIGITAL METER - OIL HANDLE AND ACCESSORIES

page 94



Example of installation

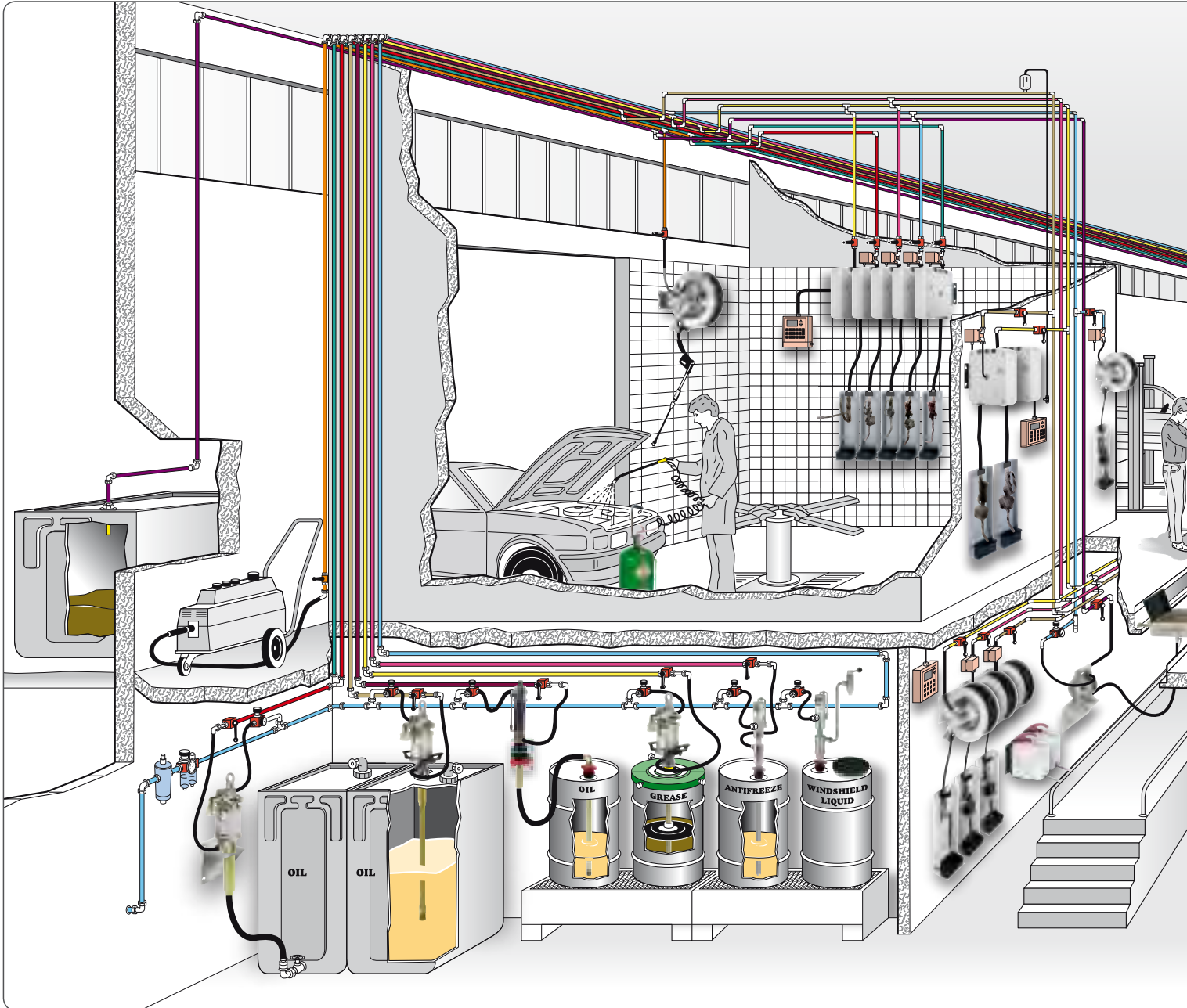
All distribution lines, for oil, grease and similar products, must be prepared with tubing (in steel, rubber ...) for high pressures, and must be smooth and seamless, with connections possibly having an inside diameter greater than the tube itself so as not to create any constrictions.

The tubing for an oil line must be capable of withstanding a minimum working pressure of 60 bar.

For grease installation the tubing must withstand a minimum working pressure of 600 bar.

Air and water tubing may be welded. For water, non corrosive pipework is recommended with min. pressure rating 8 - 10 bar.

For compressed air, 18 - 20 bar minimum pressure rating is recommended.



OIL

MOTOR OIL MAIN LINE

Tube characteristics:

- 0 - 15 m minimum inside diameter 3/4" (ø 19 mm)
- 16 - 50 m minimum inside diameter 1" (ø 25 mm)
- 51 - 100 m minimum inside diameter 1.1/4" (ø 30 mm)
- 101 - 200 m minimum inside diameter 1.1/2" (ø 38 mm)

Discharge: minimum inside diameter 3/4" (ø 19 mm)

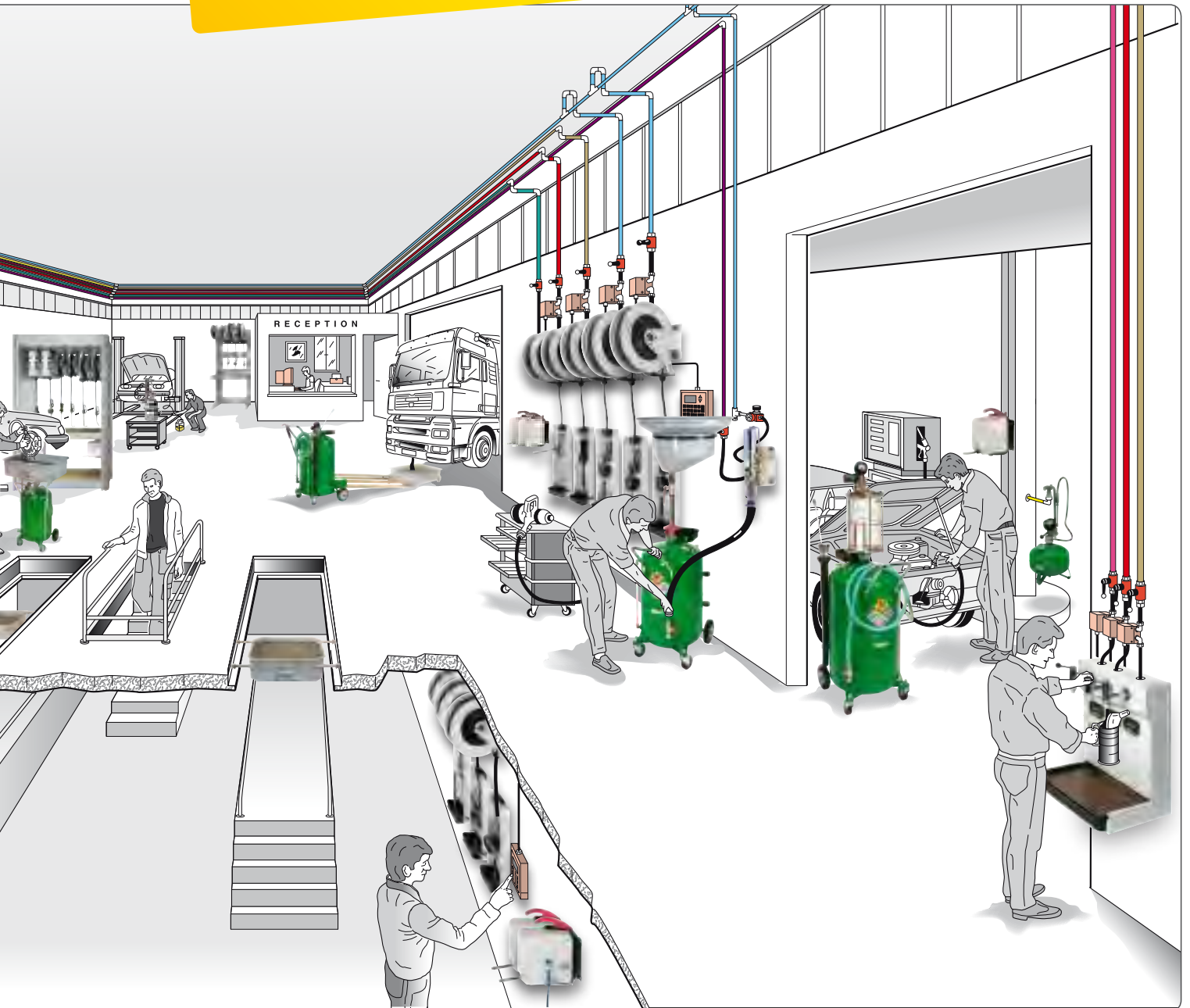
GEAR OIL MAIN LINE

Tube characteristics:

- 0 - 15 m minimum inside diameter 1" (ø 25 mm)
- 16 - 50 m minimum inside diameter 1.1/2" (ø 38 mm)
- 51 - 100 m minimum inside diameter 1.1/4" (ø 30 mm)
- 51 - 250 m minimum inside diameter 2" (ø 50 mm)

Discharge: minimum inside diameter 3/4" (ø 19 mm)

...in relation to the computerized control system of fluids and the managing of stock room, please refer to the specific catalogue "FLUIDS CONTROL SYSTEM"



GREASE - WATER - AIR

GREASE MAIN LINE

Tube characteristics:
0 - 200 m minimum inside diameter 1/2" (ø 15 mm)

Discharge: minimum inside diameter 3/8" (ø 10 mm)

AIR AND WATER MAIN LINE

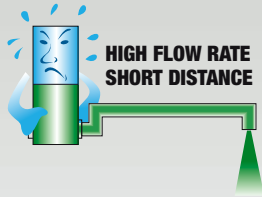
Tube characteristics:
0 - 30 m minimum inside diameter 1" (ø 25 mm)
31 - 300 m minimum inside diameter 1.1/2" (ø 38 mm)

Discharge: minimum inside diameter 3/4" (ø 19 mm)



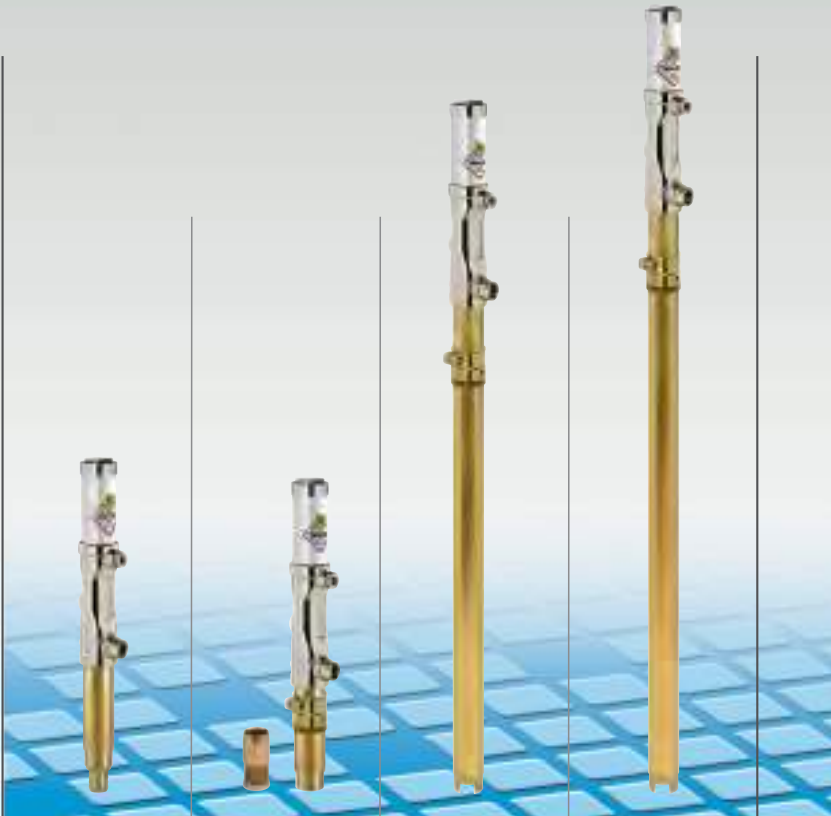
Air-operated pumps for TRANSFER

Ratio 1:1 Flow rate 35 l/min

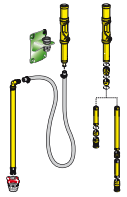
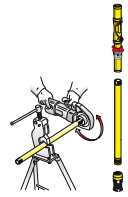




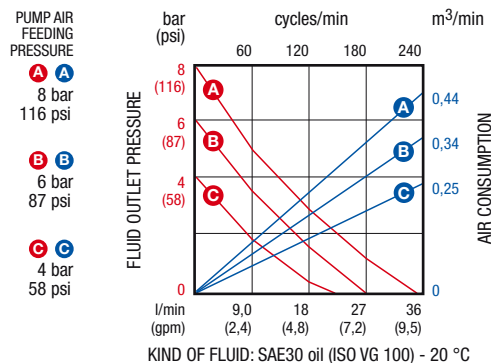
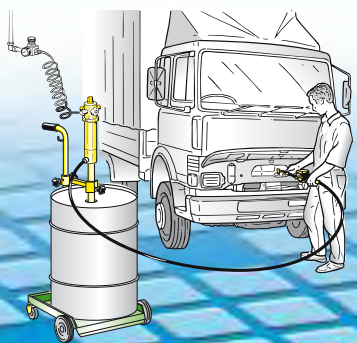
Air-operated pumps for short and medium-distance transfer.

Ideal for transferring low-medium viscosity fluids such as: oils, lubricants and similar products. The wall-mounted version of these pumps, mounted on wall or in a fixed position by means of the special accessories (refer to page 107), enables numerous uses through the application of modular extensions (refer to page 112).



series 500

Article with seals in	NBR				
Article with seals in	VITON	26090	26091	26093	26094
Article with seals in	TEFLON				
Compatible fluids		Oils, lubricants and similar			
Suction tube upper body		Aluminium			
Suction tube		Carbon steel			
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 3/4" G	F 3/4" G	F 3/4" G	F 3/4" G
Air working pressure	bar	6 - 8	6 - 8	6 - 8	6 - 8
Average air consumption	l/min	250	250	250	250
Noise level	dB	81	81	81	81
Max deliverable oil viscosity	SAE	80	80	80	80
Bung adaptor		-	standard	standard	standard
Suitable for drums or tanks		 modular	 customisable 1"	 suitable for drums 50-60 Kg	 suitable for drums 180-220 Kg
Packing	N° - m ³	1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
Weight	Kg	5,5	6	7,2	7,2
Dimensions (A - B - C)	cm	33,2 - 20,8 - 5	33,2 - 16,8 - 5	33,2 - 74 - 5	33,2 - 94 - 5



Ratio 1:1 Flow rate 23 l/min

Ratio 1:1 Flow rate 40 l/min



series 600

serie 650

33080	33081	33082	33083			
33070	33071	33072	33073	33170	33172	33173
33060	33061	33094	33096	33160	33194	33196

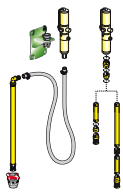
Oils, lubricants and similar

Oils, lubricants and similar

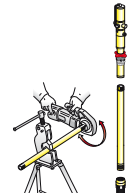
Aluminium
Carbon steel

Aluminium
Carbon steel

F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 3/4" G	F 3/4" G	F 3/4" G
6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
230	230	230	230	370	370	370
81	81	81	81	81	81	81
80	80	80	80	130	130	130
-	standard	-	standard	-	-	standard



modular



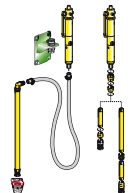
customisable 1"



suitable for drums
180-220 Kg



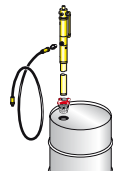
suitable for drums
180-220 Kg



modular

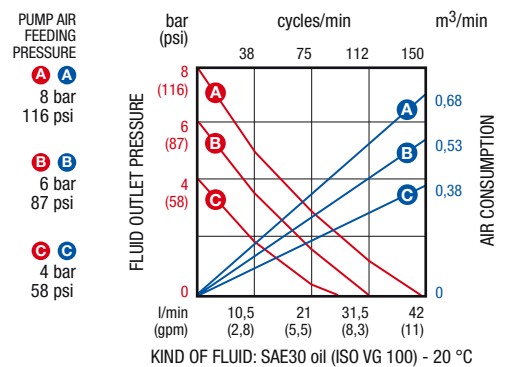
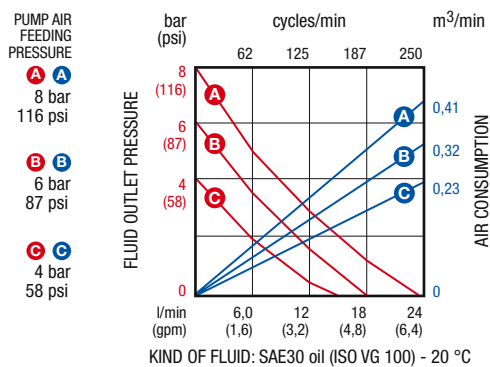


suitable for drums
180-220 Kg



suitable for drums
180-220 Kg

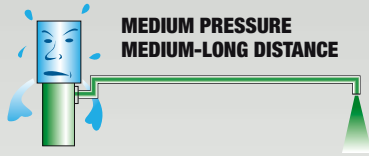
1 - 0,006	1 - 0,006	1 - 0,020	1 - 0,020	1 - 0,010	1 - 0,020	1 - 0,020
4,3	5	6,2	6,3	5,3	7,3	7,4
35,5 - 0 - 0	35,5 - 22 - 4,2	35,5 - 94 - 4,2	35,5 - 94 - 4,2	50,5 - 0 - 0	50,5 - 94 - 4,2	50,5 - 94 - 4,2



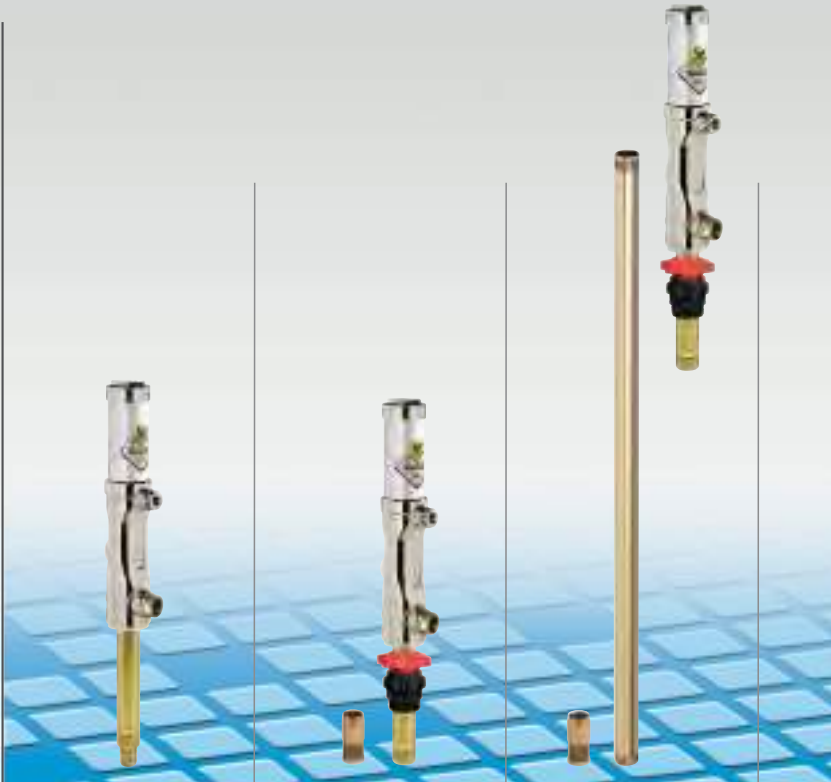


Air-operated pumps for DISTRIBUTION


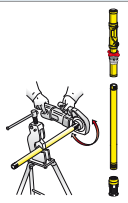
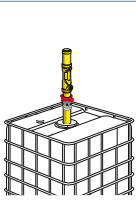


Ratio **3:1** Flow rate **20 l/min**

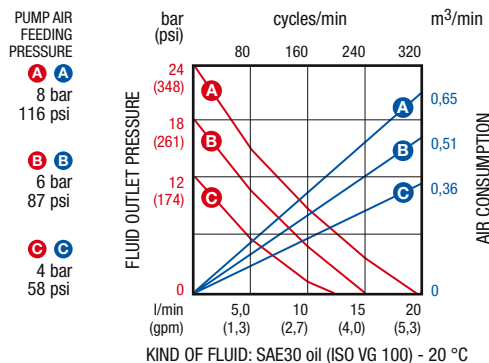


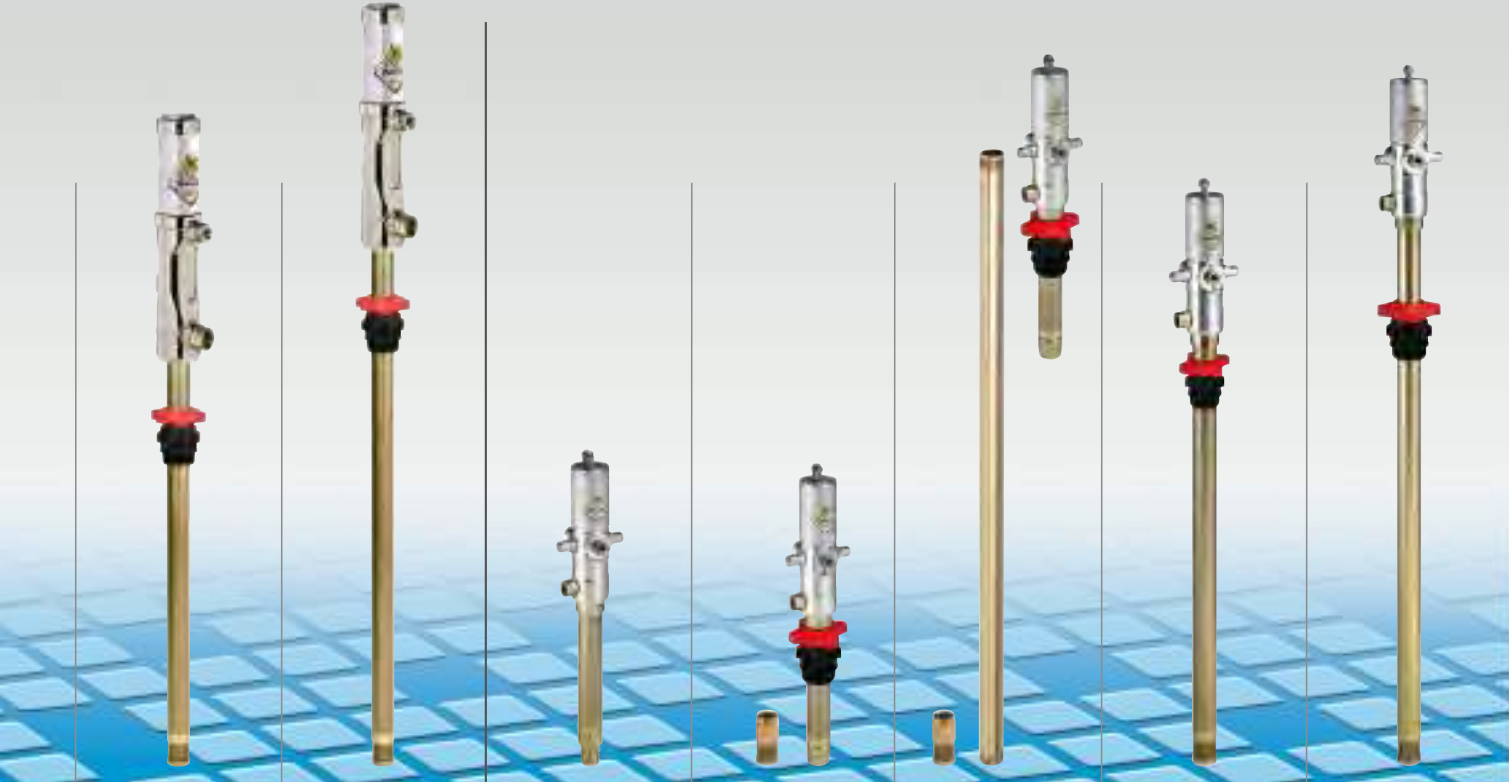
Air-operated pumps series 500 and 600 for medium distance distribution. Ideal for transferring low-medium viscosity fluids such as: oils, lubricants and similar products. Suitable for mobile unit or fixed installation. The wall-mounted version of these pumps, mounted on wall or in a fixed position by means of the special accessories (refer to page 107), enables numerous uses through the application of modular extensions (refer to page 112).



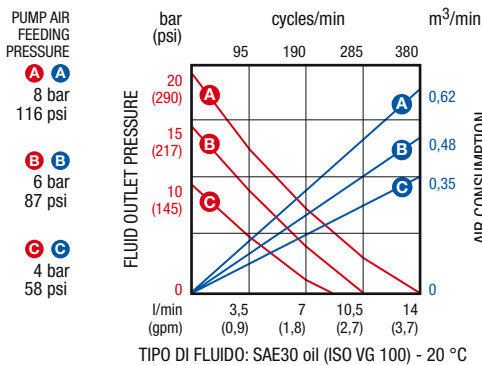
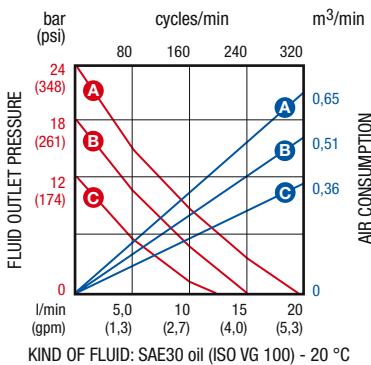
series 500

Article with seals in	NBR			
Article with seals in	NBR			
Article with seals in	VITON	35060	35061	35063
Compatible fluids		Oils, lubricants and similar		
Suction tube upper body		Aluminium		
Suction tube		Carbon steel		
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G	F 1/2" G
Air working pressure	bar	4 - 8	4 - 8	4 - 8
Average air consumption	l/min	350	350	350
Noise level	dB	81	81	81
Max deliverable oil viscosity	SAE	130	130	130
Bung adaptor		-	standard	standard
Suitable for drums or tank		 modular	 customisable 1"	 tank
Packing	 N° - m ³	1 - 0,01	1 - 0,01	1 - 0,01
Weight	 Kg	5,35	5,8	5,8
Dimensions (A - B - C)	cm	33,2 - 20 - 3,2	33,2 - 18,5 - 3,2	33,2 - 125 - 3,2





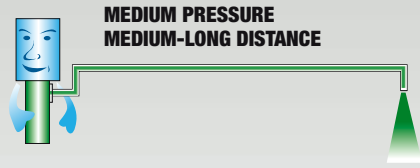
series 500		series 600				
		35160	35161	35163	35173	35194
					35176	35196
35076	35094					
Oils, lubricants and similar Aluminium Carbon steel		Oils, lubricants and similar Aluminium Carbon steel				
F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G
4 - 8	4 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
350	350	330	330	330	330	330
81	81	81	81	81	81	81
130	130	130	130	130	130	130
standard	standard	-	standard	standard	standard on 35176	standard on 35196
suitable for drums 50-60 Kg	suitable for drums 180-220 Kg	modular	customisable 1"	tank	suitable for drums 50-60 Kg	suitable for drums 180-220 Kg
1 - 0,01	1 - 0,01	1 - 0,01	1 - 0,01	1 - 0,02	1 - 0,020	1 - 0,020
5,8	6,5	4,4	5,0	6,8	5,8	6,5
33,2 - 74 - 3,2	33,2 - 94 - 3,2	28,5 - 28,5 - 4,2	28,5 - 22 - 4,2	28,5 - 125 - 4,2	28,5 - 74 - 4,2	28,5 - 94 - 4,2





Air-operated pumps for DISTRIBUTION

Ratio 5:1 Flow rate 18 l/min



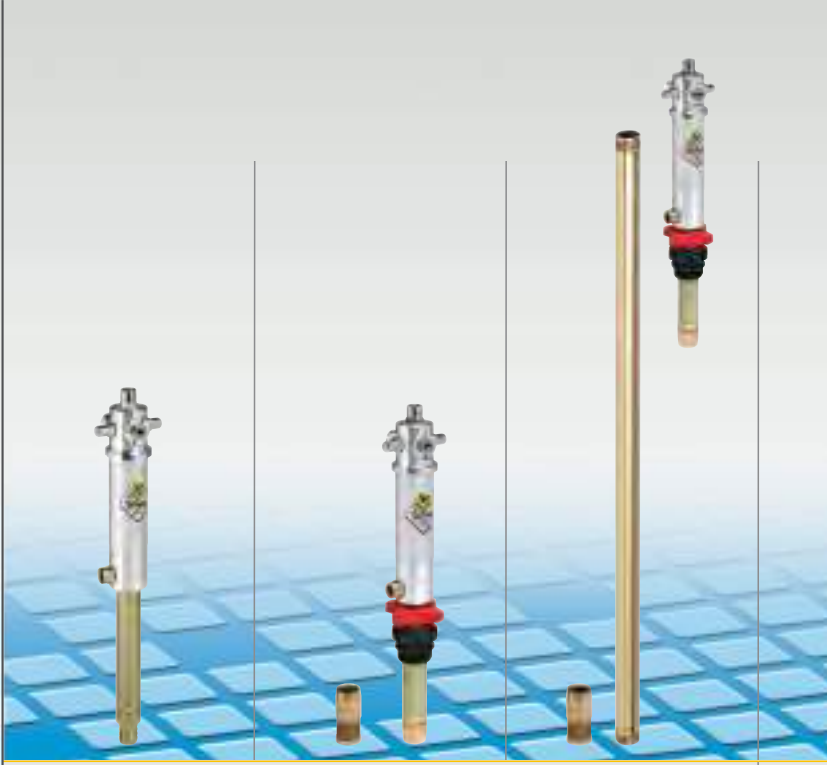
Series 650 air-operated double-acting pumps for medium distance oil distribution. Ideal for also distributing high viscosity oil. The double action guarantees the delivery of a continuous and constant flow, ideal for all installations, excellent for centralised distribution systems. The wall-mounted version of these pumps, mounted on wall or in a fixed position by means of the special accessories (refer to page 107), enables numerous uses through the application of modular extensions (refer to page 112).

Article with seals in	NBR
Article with seals in	NBR

Compatible fluids	
Suction tube upper body	
Suction tube	
Air inlet connection	bsp
Fluid outlet connection	bsp
Air working pressure	bar
Average air consumption	l/min
Noise level	dB
Max deliverable oil viscosity	SAE
Bung adaptor	

Suitable for drums or tanks

Packing	N° - m ³
Weight	Kg
Dimensions (A - B - C)	cm



series 650

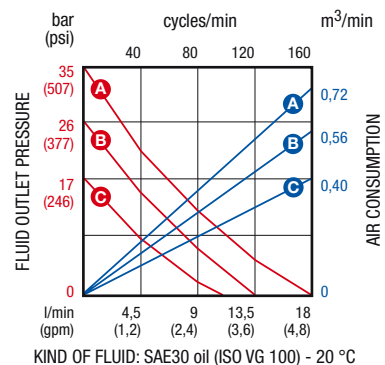
Article with seals in	NBR	36060	36061	36063
		Medium/high-viscosity oil		
		Aluminium		
		Carbon steel		
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G	F 1/2" G
Air working pressure	bar	6 - 8	6 - 8	6 - 8
Average air consumption	l/min	350	350	350
Noise level	dB	81	81	81
Max deliverable oil viscosity	SAE	240	240	240
Bung adaptor		-	standard	standard
Suitable for drums or tanks		modular	customisable 1"	tank
Packing	N° - m ³	1 - 0,01	1 - 0,01	1 - 0,02
Weight	Kg	4,7	5,2	7,2
Dimensions (A - B - C)	cm	34,5 - 27 - 4,2	34,5 - 27 - 4,2	34,5 - 125 - 4,2

PUMP AIR FEEDING PRESSURE

A A 8 bar 116 psi

B B 6 bar 87 psi

C C 4 bar 58 psi



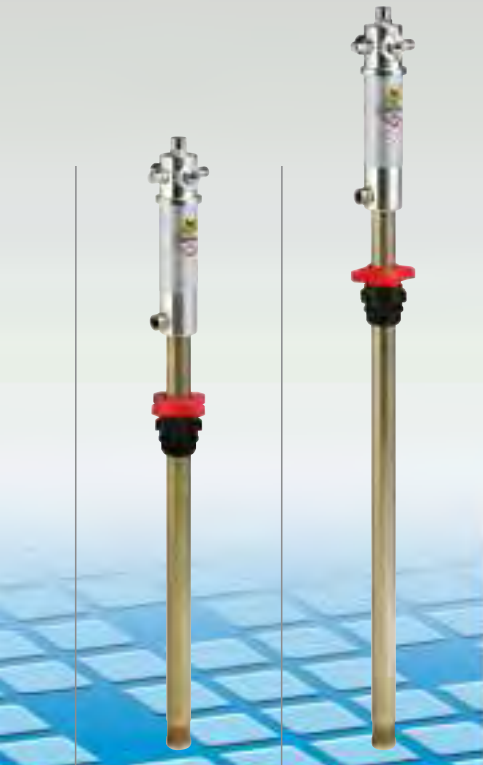
Advantages of double-action



There are many technical solutions for obtaining a reciprocating double-acting pump.

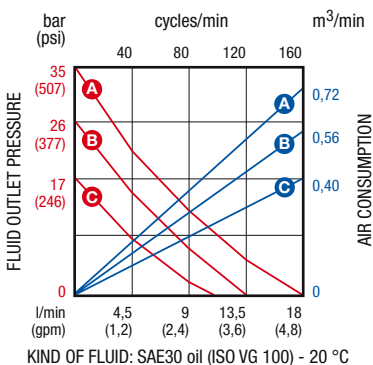
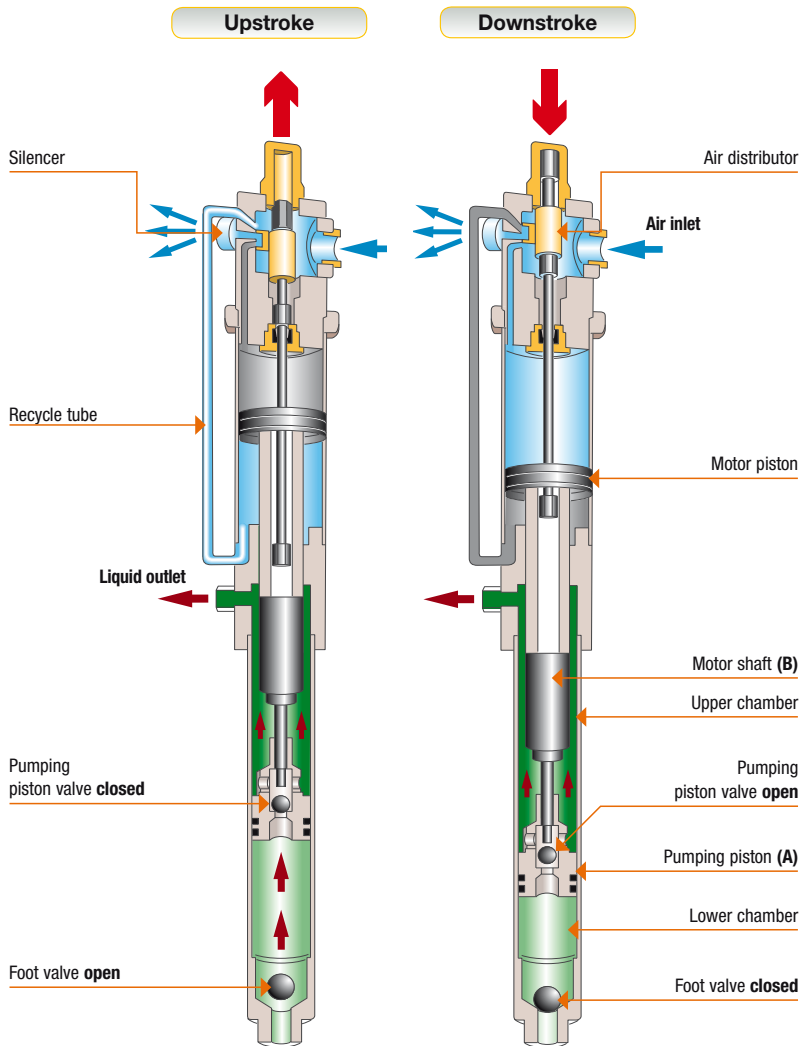
The double-action of RAASM pumps is obtained with solutions that have simplified the pump mechanism itself, ensuring that delivery of the fluid in both alternating movements (upstroke and downstroke) of the pump occurs only through the difference in volume between the diameters of the pumping piston (A) and the pump shaft (B).

On the **upstroke**, delivery is caused by the **pumping piston (A)**.

On the **downstroke** it is caused by the difference in **volume between the diameter of the motor shaft (B) and the diameter of the pumping piston (A)**.



series 650	
36073	36094
36076	36096
Medium/high-viscosity oil	
Aluminium	
Carbon steel	
F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G
6 - 8	6 - 8
350	350
81	81
240	240
standard on 36076	standard on 36096
	
suitable for drums 50-60 Kg	suitable for drums 180-220 Kg
1 - 0,02	1 - 0,02
6,2	6,8
34,5 - 74 - 4,2	34,5 - 94 - 4,2

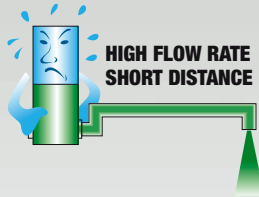


In addition to guaranteeing regular delivery of the fluid, this solution offers the further advantage of having fewer parts inside the pump. This means less wear plus greater and longer reliability.

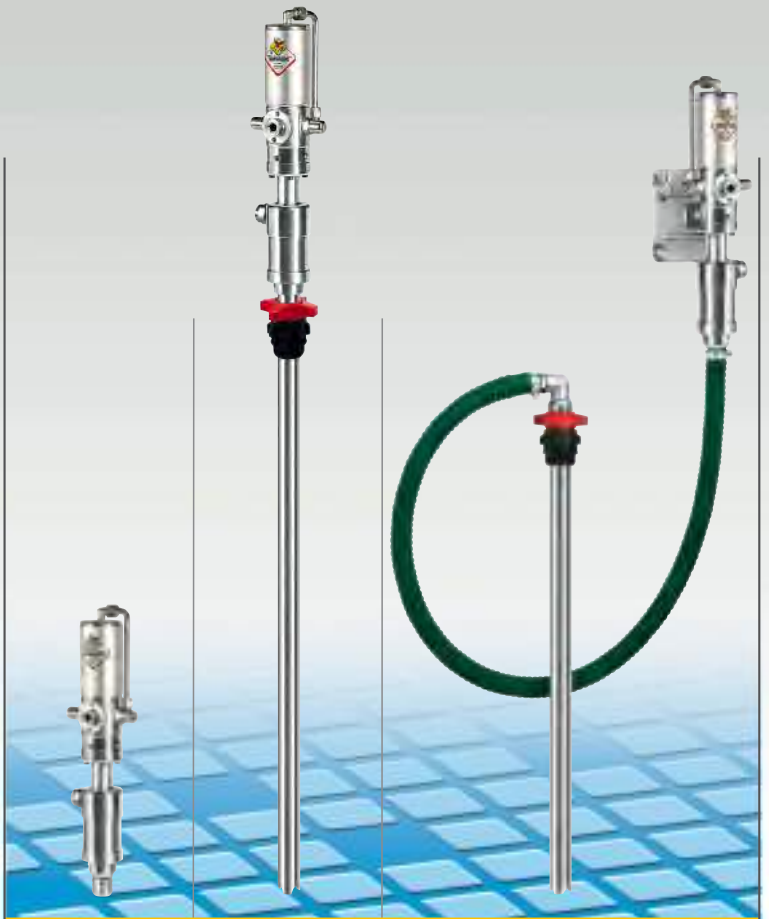
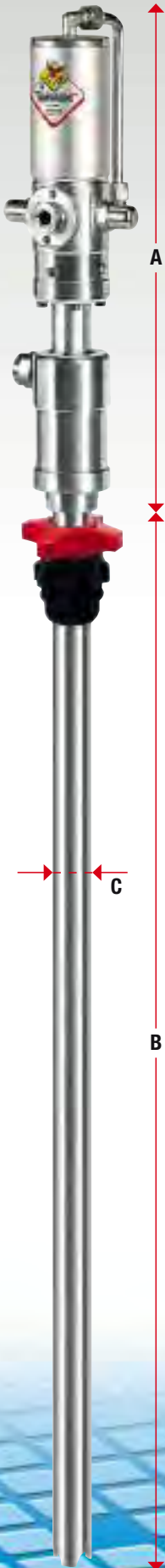


Stainless steel AISI 304 pumps for TRANSFER

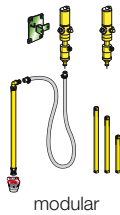

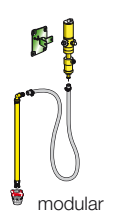
Ratio 1:1 Flow rate 30 l/min



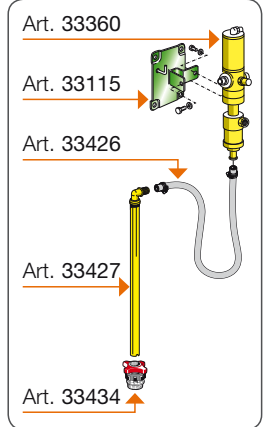
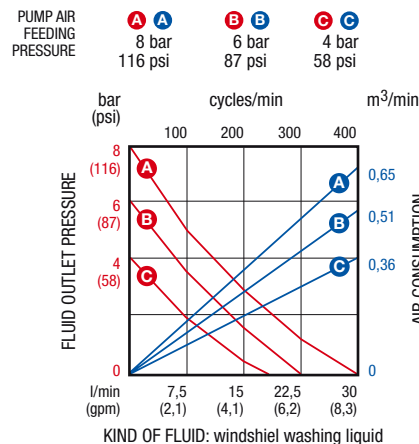
Stainless steel AISI 304 air-operated pumps for short-medium distance transfer. Ideal for transferring low-medium viscosity fluids such as: antifreeze liquid, windshield washing liquid and chemical products.



series 600 INOX

Article with seals in	VITON	33360	33396	33300
Compatible fluids		Suitable for antifreeze and windshield washing liquid		
Suction tube lower body		Stainless steel AISI 304		
Suction tube		Stainless steel AISI 304		
Air inlet connection	bsp	F 1/4" G	F 1/4" G	-
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G	-
Air working pressure	bar	6 - 8	6 - 8	-
Average air consumption	l/min	370	370	-
Noise level	dB	81	81	-
Max deliverable oil viscosity	SAE	50	50	-
Bung adaptor		-	standard	33434
Suitable for drums or tanks		 modular	 suitable for drums 180-220 Kg	 modular
Packing	N° - m ³	1 - 0,10	1 - 0,020	1 - 0,29
Weight	Kg	5,3	7,4	11,4
Dimensions (A - B - C)	cm	41 - 0 - 0	41 - 94 - 3,4	41 - 94 - 3,4

Art. 33440
Gun for antifreeze and windshield liquid
 applicable to kit Art. 33300 equipped with:
 - inlet joint F 1/2"
 - stainless steel rigid terminal with free outlet

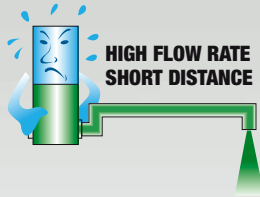


DIAPHRAGM Pumps

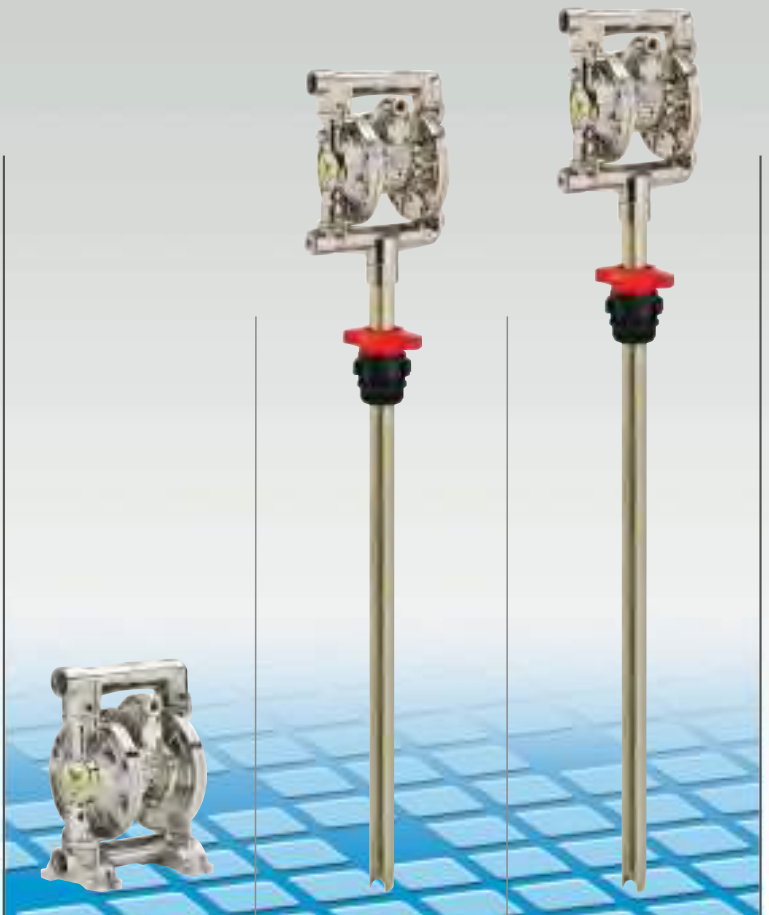
S. 340-AB

in aluminium

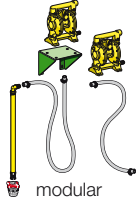

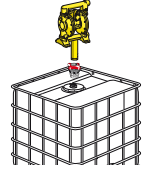



3/4" Ratio 1:1 Flow rate 70 l/min

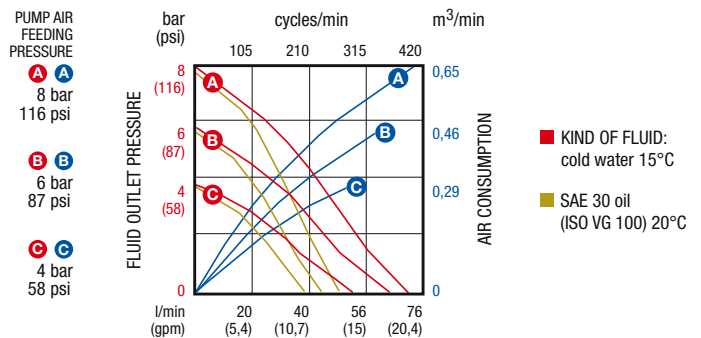
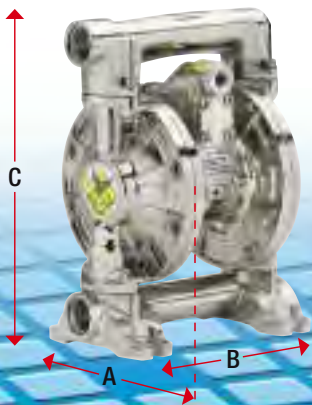


The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminium, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids.



series **340-AB**

Article with membrane in NBR High Nitrile		33/2011NHHV2	33500	33505
Compatible fluids		Water, mineral-vegetable oils, diesel oil		
Pump material		Aluminium		
Ball valve material		Hytrel		
Air inlet connection	bsp	F 3/8" G	F 3/8" G	F 3/8" G
Fluid inlet-outlet connection	bsp	F 3/4" x F3/4" G	suction tube ø 34 mm - F 3/4" G	suction tube ø 34 mm - F 3/4" G
Air working pressure	bar	2 - 6	2 - 6	2 - 6
Air max pressure	bar	8	8	8
Average air consumption	l/min	500	500	500
Noise level	dB	75	75	75
Fluid temperature	°C	-10 +90	-10 +90	-10 +90
Max solids diameter	mm	ø 1,5	ø 1,5	ø 1,5
Suitable for drums or tanks		 modular	 suitable for drums 180-220 Kg	 tank
Suction-delivery ball valve with spring				
Packing	N° - m ³	1 - 0,015	2 - 0,040	2 - 0,040
Weight	Kg	8	10	11
Dimensions (A - B - C)	cm	16 - 20 - 25,6	16 - 20 - 25,6	16 - 20 - 25,6
Suction tube length and ø	cm	-	94x3,4	124x3,4

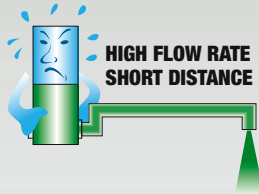




DIAPHRAGM Pumps

S. 1000-AB - 1140-AB

in aluminium



The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminium, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids.

1" Ratio 1:1
Flow rate **170 l/min**

1.1/4" Ratio 1:1
Flow rate **200 l/min**



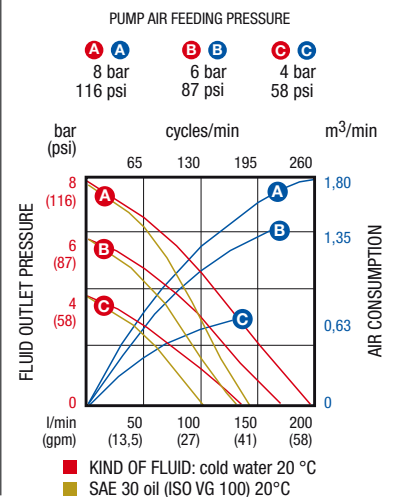
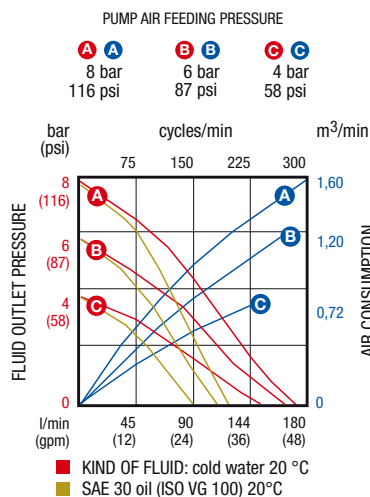
series **1000-AB**
33/2611NHHV2



series **1140-AB**
33/3011NHHV2

Article with membrane in **NBR High Nitrile**

Compatible fluids	Water, mineral-vegetable oils, diesel oil	Water, mineral-vegetable oils, diesel oil
Pump material	Aluminium	Aluminium
Ball valve material	Hytrel	Hytrel
Air inlet connection	bsp F 3/8" G	bsp F 3/4" G
Fluid inlet-outlet connection	bsp F 1.1/4" x F 1" G	bsp F 1.1/4" x F 1.1/4" G
Air working pressure	bar 2 - 6	bar 2 - 6
Air max pressure	bar 8	bar 8
Average air consumption	l/min 1200	l/min 1400
Noise level	dB 75	dB 75
Fluid temperature	°C -10 +90	°C -10 +90
Max solids diameter	mm ø 3	mm ø 3
Suction-delivery ball valve with spring		
Packing	N° - m ³ 1 - 0,025	N° - m ³ 1 - 0,041
Weight	Kg 14	Kg 16
Dimensions (A - B - C)	cm 20 - 26 - 34,5	cm 23,8 - 28,6 - 38,6

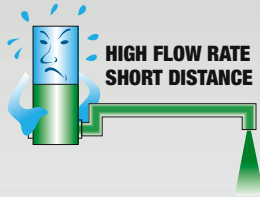




DIAPHRAGM Pumps

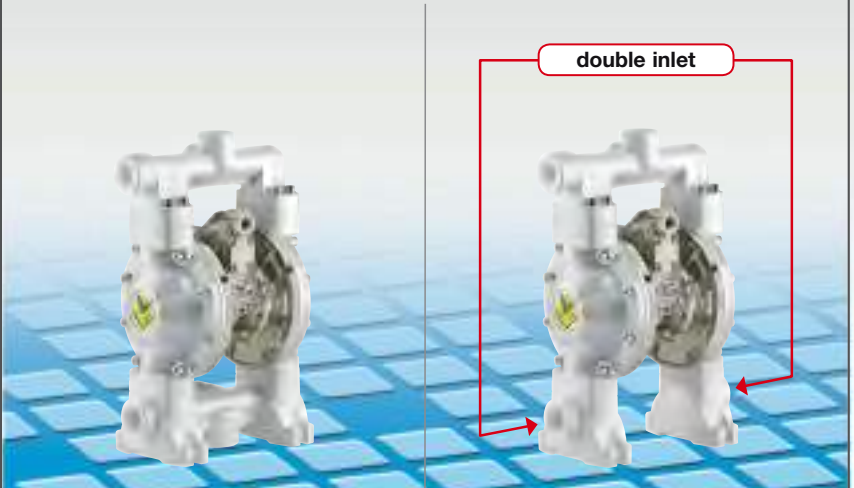
S. 120-PB

in polypropylene



Diaphragm pumps are used in different kind of application. They can be installed on wall brackets, on trailers, on moving machines, on drums, on big reservoirs and in many other places. Ideal for transferring fluids even in the presence of suspended solids. Double inlet version is suitable to mix together two different kind of liquids i. e. water and antifreeze.

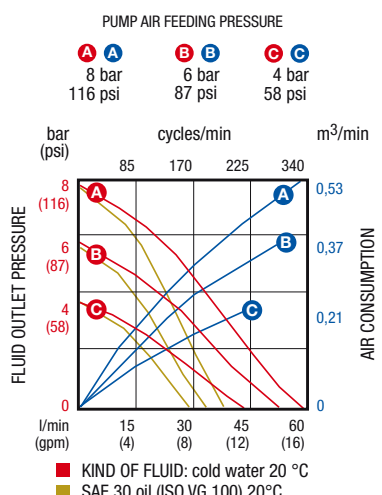
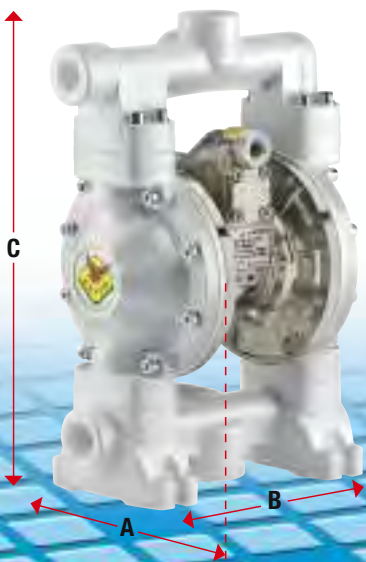
1/2" Ratio 1:1
Flow rate 60 l/min



series 120-PB

series 120-PB

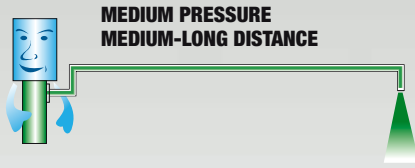
Article with membrane	NBR High Nitrile	2B3/16117NH22		2B8/16117NH22	
Article with membrane	PTFE		2B3/16117TT22		2B8/16117TT22
Compatible fluids		Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze	Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze
Motor and inside flanges material		Aluminium	Aluminium	Aluminium	Aluminium
Wetted parts		Polypropylene	Polypropylene	Polypropylene	Polypropylene
Ball valve material		Hytrell	Teflon	Hytrell	Teflon
Air inlet connection	bsp	F 3/8" G	F 3/8" G	F 3/8" G	F 3/8" G
Fluid inlet-outlet connection	bsp	F 3/4" x F 1/2" G	F 3/4" x F 1/2" G	F 3/4" x F 1/2" G	F 3/4" x F 1/2" G
Air working pressure	bar	2 - 6	2 - 6	2 - 6	2 - 6
Air max pressure	bar	8	8	8	8
Average air consumption	l/min	400	400	400	400
Noise level	dB	75	75	75	75
Fluid temperature	°C	-10 +65	-10 +65	-10 +65	-10 +65
Max solids diameter	mm	ø 1,5	ø 1,5	ø 1,5	ø 1,5
Suction-delivery ball valve with spring					
Packing	N° - m ³	1 - 0,015	1 - 0,015	1 - 0,015	1 - 0,015
Weight	Kg	7,5	7,5	7	7
Dimensions (A - B - C)	cm	17,8 - 21,8 - 32,6	17,8 - 21,8 - 32,6	17,8 - 22 - 32,6	17,8 - 22 - 32,6





Air-operated pumps for DISTRIBUTION

Ratio **5:1** Flow rate **45 l/min**



Series 900 industrial air-operated double-acting pumps for distribution.

Suitable for transferring oils, lubricants and similar products also with very high viscosity. The double action guarantees the delivery of a continuous and constant flow, ideal for all needs. Particularly effective in systems equipped with several distribution points.



series **900**

90C/51

Article with seals in **PU**

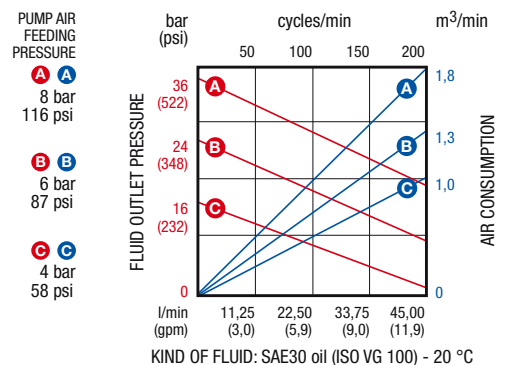
Compatible fluids	Oils, lubricants and similar
Suction tube upper body	Aluminium
Suction tube	Carbon steel
Air inlet connection	bsp F 1/2"
Fluid outlet connection	bsp F 3/4"
Air max pressure	8 bar
Max air consumption 8 bar	1,6 m ³ /min
Noise level	80 dB

Suitable for drums or tanks



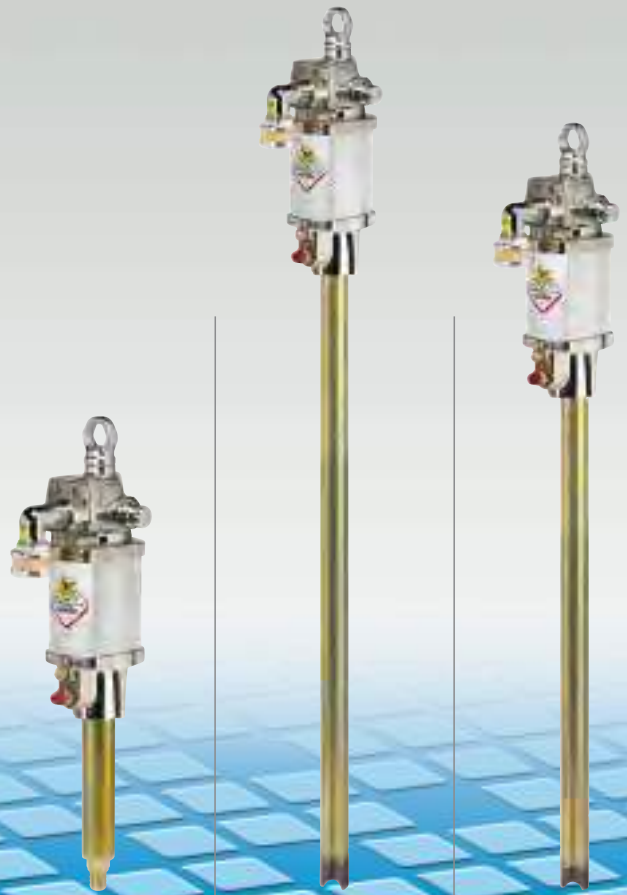
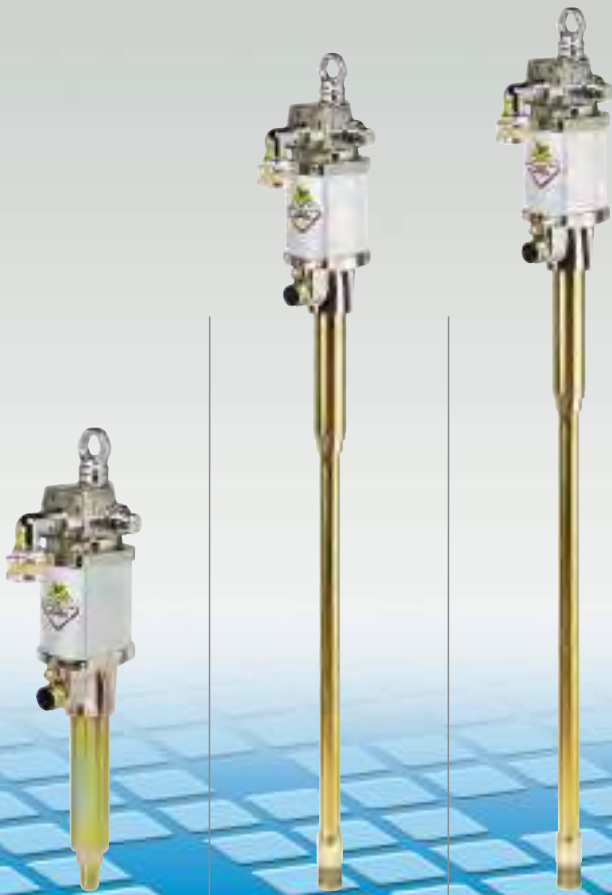
modular

Packing	N° - m ³	1 - 0,040
Weight	Kg	12
Dimensions (A - B - C)	cm	43 - 23 - 6,2



Ratio 7:1 Flow rate 30 l/min

Ratio 11:1 Flow rate 30 l/min



series 900

series 900

90C/71

91C/71

92C/71

90C/111

91C/111

92C/111

Oils, lubricants and similar

Oils, lubricants and grease

Aluminium

Aluminium

Carbon steel

Carbon steel

F 1/2"
F 3/4"

F 1/2"
F 3/4"

F 1/2"
F 3/4"

F 1/2"
F 3/4"

F 1/2"
F 3/4"

F 1/4"
F 3/4"

8

8

8

8

8

8

1,6

1,6

1,6

1,7

1,7

1,7

80

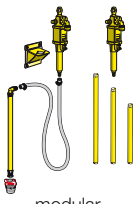
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80

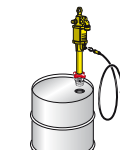
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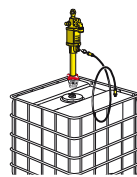
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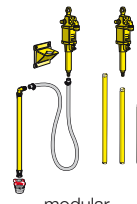
modular



suitable for drums
180-220 Kg



tank



modular



suitable for drums
180-220 Kg



suitable for drums
50-60 Kg

1 - 0,040

11

43 - 27 - 5,3

1 - 0,070

13

43 - 94 - 5,3

1 - 0,080

15

43 - 126 - 5,3

1 - 0,040

11

43 - 27 - 4,5

1 - 0,070

16

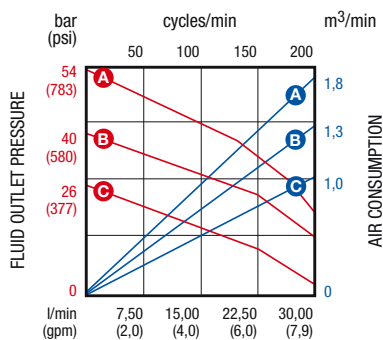
43 - 94 - 4,5

1 - 0,070

15

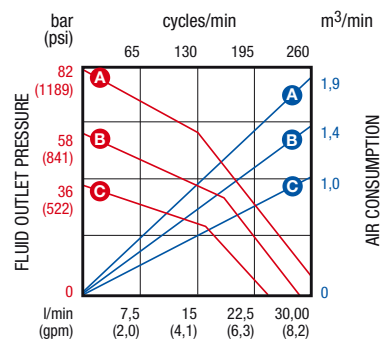
43 - 74 - 4,5

PUMP AIR FEEDING PRESSURE
A A 8 bar 116 psi
B B 6 bar 87 psi
C C 4 bar 58 psi



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

PUMP AIR FEEDING PRESSURE
A A 8 bar 116 psi
B B 6 bar 87 psi
C C 4 bar 58 psi



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

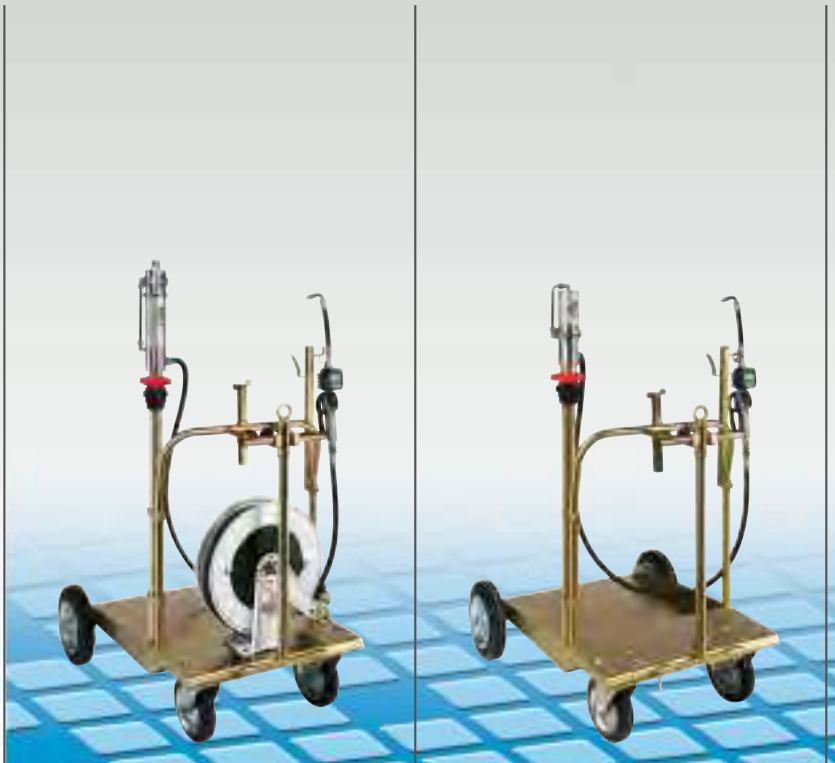


Mobile oil DISPENSER unit

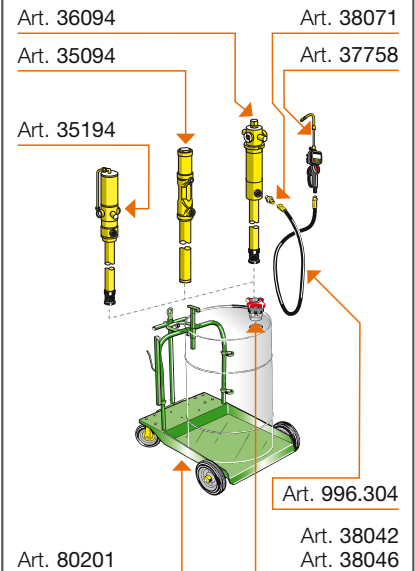
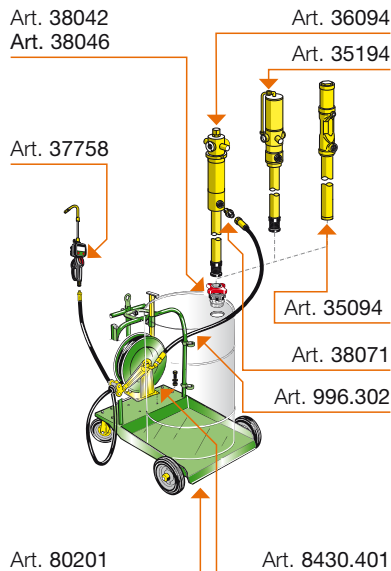
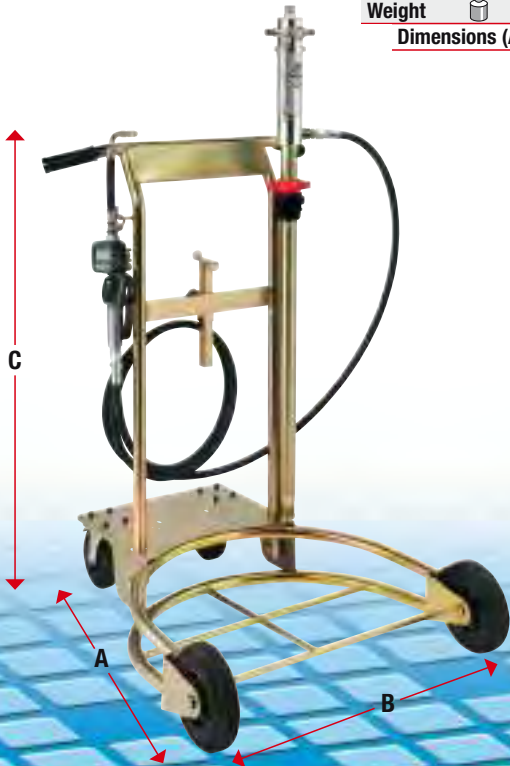
trolley super
for drums 180-220 kg

Mobile oil dispenser unit.

The ideal combination for dispensing oil in any workplace. The very easy to handle trolley is equipped with a drum (180 - 220 kg) clamping device, adjustable side support for stowing accessories, wheel with brake. The unit comes with a handy hose reel with 10 m of hose, and digital hose end meter.



Article		35201	35200	37100	35209	35210	37150
Ratio		3:1	3:1	5:1	3:1	3:1	5:1
Flow rate	l/min	20	14	18	20	14	18
Pump	Art.	35094	35194	36094	35094	35194	36094
Trolley	Art.	80201	80201	80201	80201	80201	80201
Hose reel	Art.	8430.401	8430.401	8430.401	-	-	-
Bung adaptor	Art.	38046	38042	38042	38046	38042	38042
Nipple	Art.	38071	38071	38071	38071	38071	38071
Digital metering gun	Art.	37758	37758	37758	37758	37758	37758
Hose	Art.	996.302	996.302	996.302	996.304	996.304	996.304
Packing	N° - m³	4 - 0,210	4 - 0,210	4 - 0,210	3 - 0,176	3 - 0,176	3 - 0,176
Weight	kg	74	76	76	55	57	57
Dimensions (A - B - C) cm		93 - 81 - 143	93 - 81 - 138,5	93 - 81 - 144,5	93 - 81 - 143	93 - 81 - 138,5	93 - 81 - 144,5

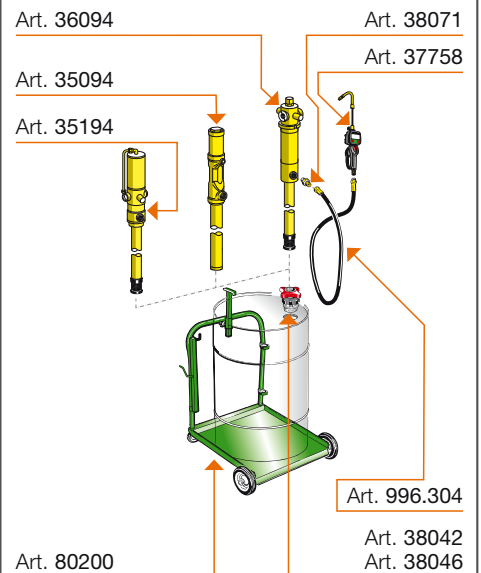
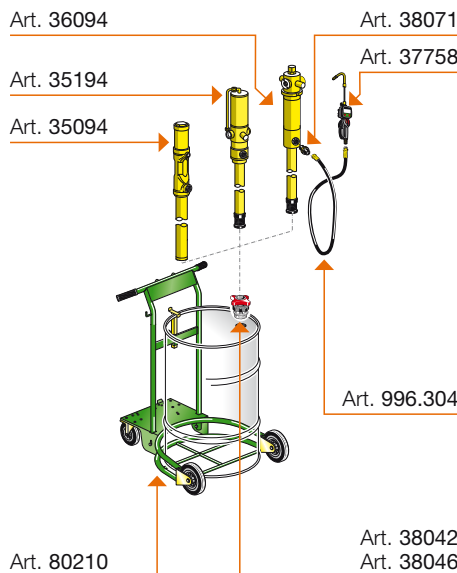
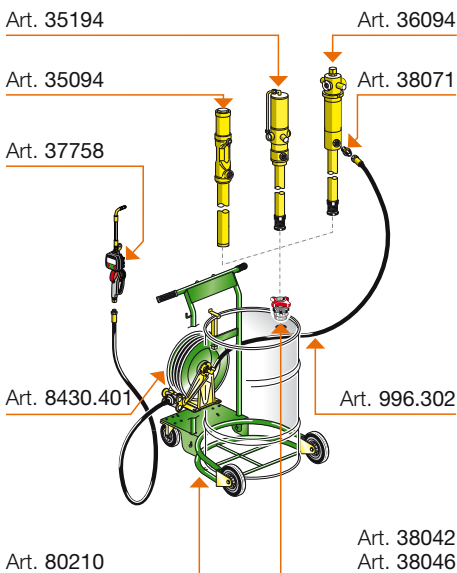


trolley standard
for drums 180-220 kg

trolley light
for drums 180-220 kg



35198	35199	37099	35415	35425	37095	35219	35220	37200
3:1	3:1	5:1	3:1	3:1	5:1	3:1	3:1	5:1
20	14	18	20	14	18	20	14	18
35094	35194	36094	35094	35194	36094	35094	35194	36094
80210	80210	80210	80210	80210	80210	80200	80200	80200
8430.401	8430.401	8430.401	-	-	-	-	-	-
38046	38042	38042	38046	38042	38042	38046	38042	38042
38071	38071	38071	38071	38071	38071	38071	38071	38071
37758	37758	37758	37758	37758	37758	37758	37758	37758
996.302	996.302	996.302	996.304	996.304	996.304	996.304	996.304	996.304
4 - 0,28	4 - 0,28	4 - 0,28	3 - 0,246	3 - 0,246	3 - 0,246	3 - 0,121	3 - 0,121	3 - 0,121
54,6	56,1	56,2	35,8	37,3	37,4	33,3	33,3	34,1
90-77-133	90 - 77 - 128,5	90-77-134,5	90-77-133	90 - 77 - 128,5	90-77-134,5	67-77-138,5	67-77-132,5	67-77-139,5





Oil DISPENSER kit

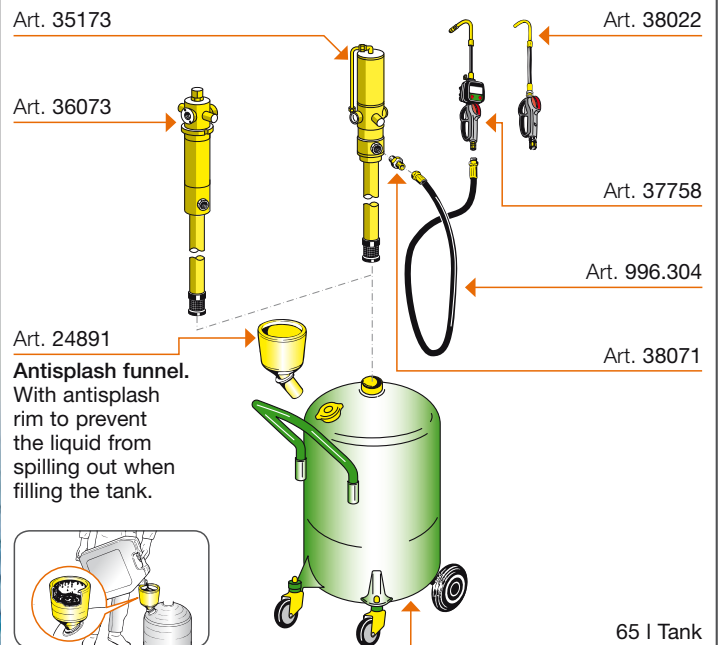
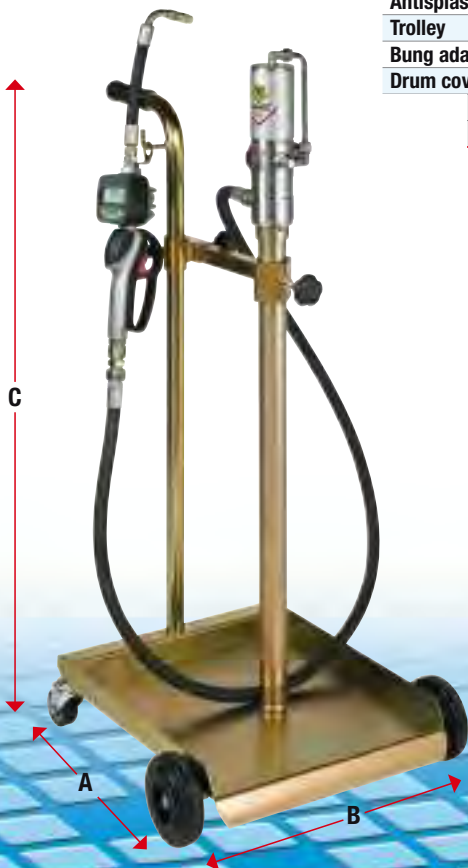
with 65 l tank

Trolley-mounted oil dispenser kit.

The ideal combination for dispensing oil in any workplace. The compact trolley has 2 fixed wheels and 2 castors that make it very easy to handle. It is equipped with a pump support and is suitable for holding various types of containers (30 - 50 kg).



Article		35265	37650	35270	37670
Ratio		3:1	5:1	3:1	5:1
Flow rate	l/min	14	18	14	18
Pump	Art.	35173	36073	35173	36073
Nipple	Art.	38071	38071	38071	38071
Digital metering gun	Art.	37758	37758	38022	38022
Hose	Art.	996.304	996.304	996.304	996.304
Antisplash funnel	Art.	24891	24891	24891	24891
Trolley	Art.	-	-	-	-
Bung adaptor	Art.	-	-	-	-
Drum cover	Art.	-	-	-	-
Packing	N° - m ³	3 - 0,230	3 - 0,230	3 - 0,230	3 - 0,230
Weight	kg	33	34	30,9	31,3
Dimensions (A - B - C) cm		60 - 60 - 145,5	60 - 60 - 145,5	60 - 60 - 145,5	60 - 60 - 145,5

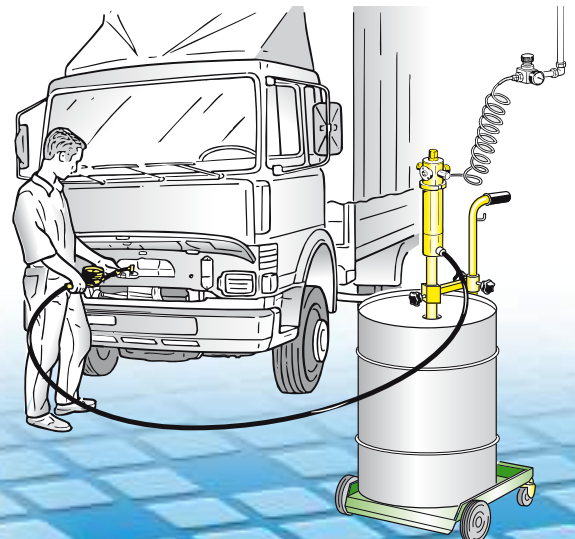
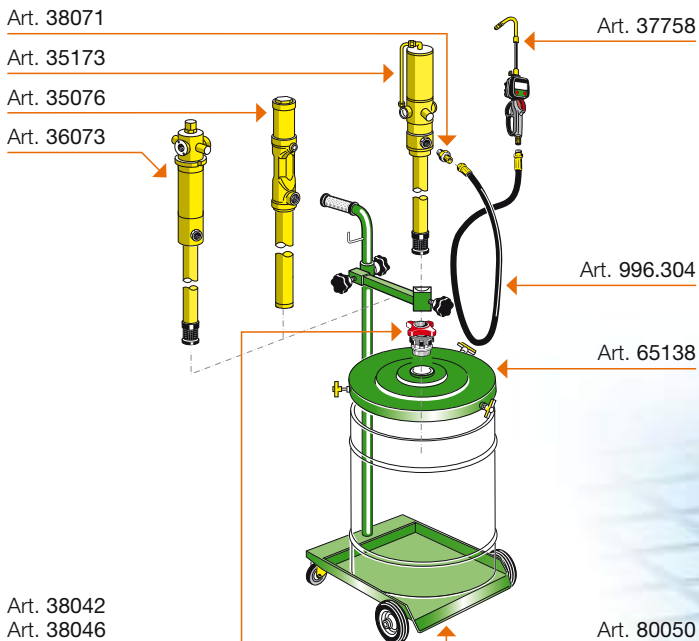


trolley for drums 30 - 60 kg

kit for drums 30 - 60 kg



35260	35250	37500	35249	35259	37499	35264	35254	37504
3:1	3:1	5:1	3:1	3:1	5:1	3:1	3:1	5:1
20	14	18	20	14	18	20	14	18
35076	35173	36073	35076	35173	36073	35076	35173	36073
38071	38071	38071	38071	38071	38071	38071	38071	38071
37758	37758	37758	37758	37758	37758	37758	37758	37758
996.304	996.304	996.304	996.304	996.304	996.304	996.304	996.304	996.304
-	-	-	-	-	-	-	-	-
80050	80050	80050	-	-	-	-	-	-
-	-	-	38046	38042	38042	38046	38042	38042
-	-	-	-	-	-	65138	65138	65138
3 - 0,085	3 - 0,085	3 - 0,085	2 - 0,044	2 - 0,041	2 - 0,041	3 - 0,087	3 - 0,084	3 - 0,084
20	20	20,5	14,7	17,1	17,3	19,2	21,6	21,8
46 - 50 - 145,5	46 - 50 - 145,5	46 - 50 - 145,5	3,2 - 3,2 - 107,2	4,2 - 4,2 - 102,5	4,2 - 4,2 - 108,5	40 - 40 - 107,2	40 - 40 - 102,5	40 - 40 - 108,5



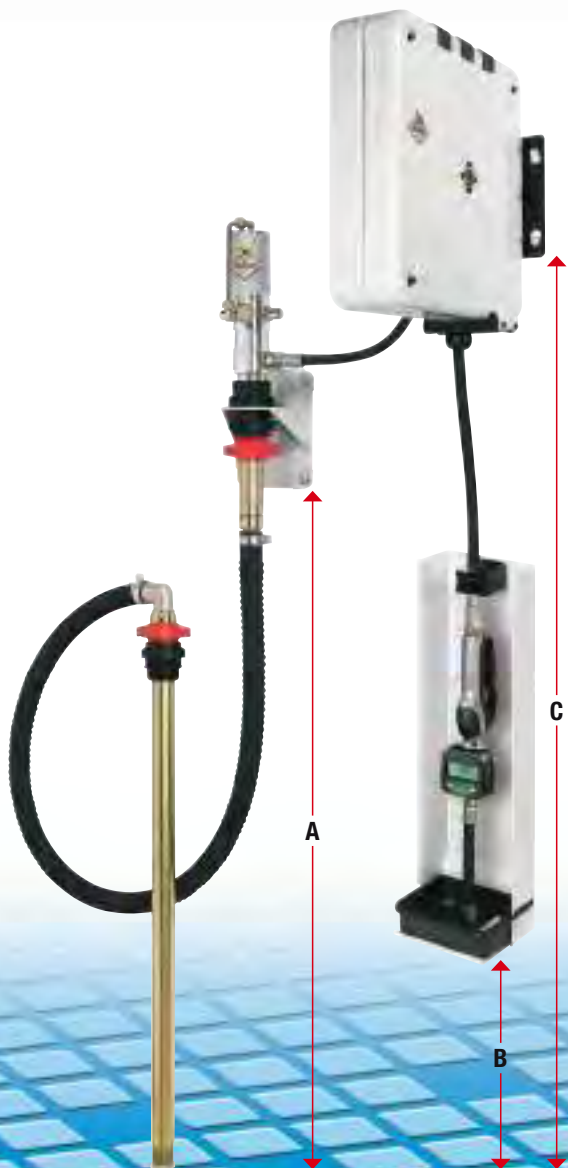
Engine oil filling up



Modular oil dispensing kit with hose reel

Oil dispensing system with pump applied on a drum or tank, equipped with open or enclosed swivelling hose reel series 420/440 and with digital metering gun. The kits are independent oil delivery station.

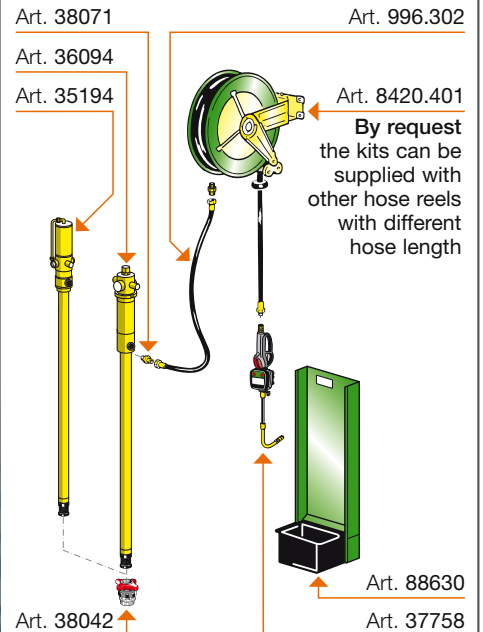
pump mounted on drum



Article		35275	37675
Ratio		3:1	5:1
Flow rate	l/min	14	18
Pump	Art.	35194	36094
Hose reel	Art.	8420.401	8420.401
Bung adaptor	Art.	38042	38042
Wall bracket	Art.	-	-
Nipple	Art.	38071	38071
Digital metering gun	Art.	37758	37758
Flexible suction tube	Art.	-	-
Rigid suction tube	Art.	-	-
Drip-tray	Art.	88630	88630
Packing	N° - m ³	4 - 0,128	4 - 0,128
Weight	kg	30,1	31,1
Dimensions (A - B - C) cm		94 - 90 - 220	94 - 90 - 220

Art. 88630 Modular drip-tray.

Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace.

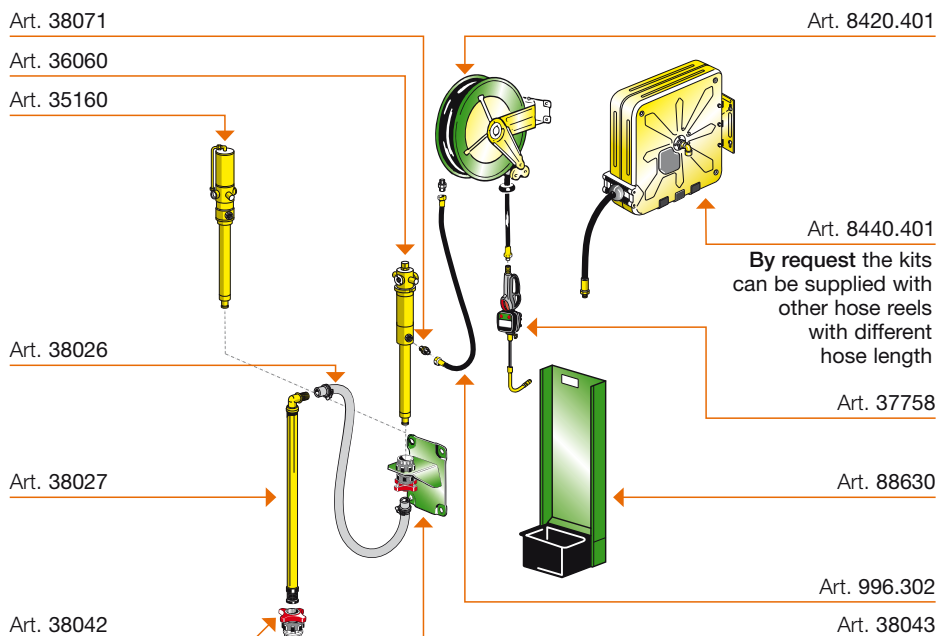
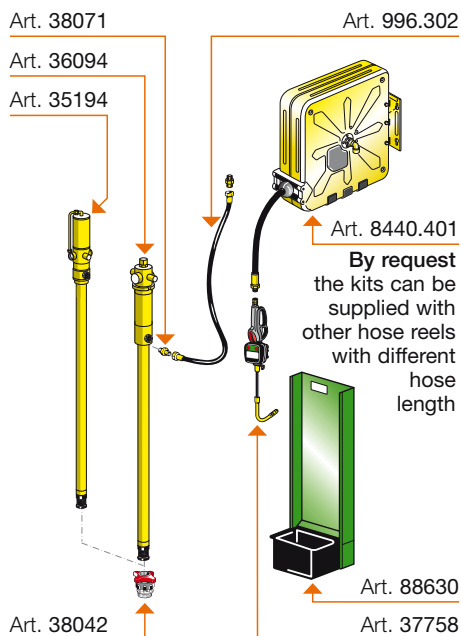


pump mounted on drum

wall mounted pump



35276		37676		35280		37680		35281		37679	
3:1		5:1		3:1		5:1		3:1		5:1	
14		18		14		18		14		18	
35194	36094	35160	36060	35160	36060	35160	36060	35160	36060	35160	36060
8440.401	8440.401	8420.401	8420.401	8420.401	8420.401	8440.401	8440.401	8440.401	8440.401	8440.401	8440.401
38042	38042	38042	38042	38042	38042	38042	38042	38042	38042	38042	38042
-	-	38043	38043	38043	38043	38043	38043	38043	38043	38043	38043
38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071
37758	37758	37758	37758	37758	37758	37758	37758	37758	37758	37758	37758
-	-	38026	38026	38026	38026	38026	38026	38026	38026	38026	38026
-	-	38027	38027	38027	38027	38027	38027	38027	38027	38027	38027
88630	88630	88630	88630	88630	88630	88630	88630	88630	88630	88630	88630
4 - 0,130	4 - 0,130	4 - 0,130	4 - 0,130	4 - 0,130	4 - 0,130	4 - 0,135	4 - 0,135	4 - 0,135	4 - 0,135	4 - 0,135	4 - 0,135
37,1	38,1	38,5	39,5	38,5	39,5	45	45	45	45	45	45
94 - 90 - 220		94 - 90 - 220		170 - 90 - 220		170 - 90 - 220		170 - 90 - 220		170 - 90 - 220	





Kit for DISPENSING from tank

Oil dispensing kit from IBC tank, equipped with wall mounted pump or tank mounted pump.

Kits with wall mounted pump can be connected with centralized lube piping or with an hose reel or a delivery hose.

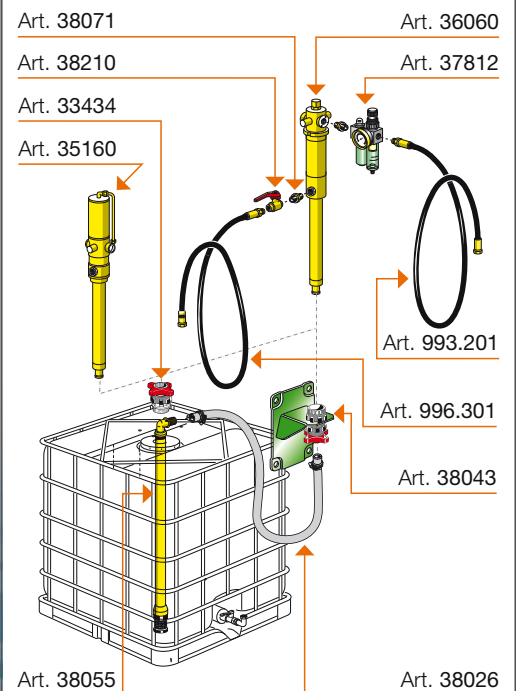
They are equipped with the accessories for air and oil connections.

Kits with tank mounted pump are provided with hose reel and digital metering gun.



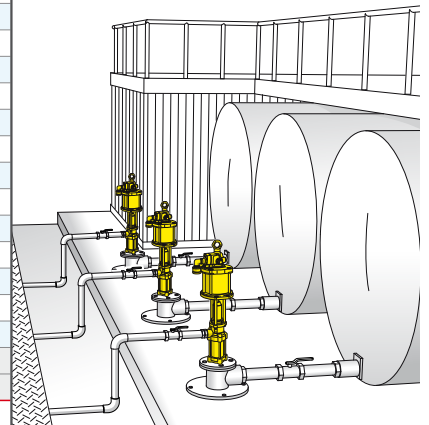
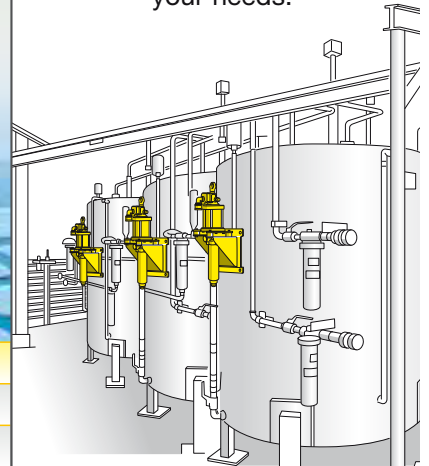
Note: the tank is not part of the kit

Article		35330	36330
Ratio		3:1	5:1
Flow rate	l/min	14	18
Pump	Art.	35160	36060
Pump support bracket	Art.	38043	38043
Support bracket drip-tray	Art.	-	-
Bung adaptor	Art.	33434	33434
Flexible suction tube	Art.	38026	38026
Rigid suction tube	Art.	38055	38055
Air hose connection	Art.	993.201	993.201
Oil hose connection	Art.	996.301	996.301
Cock	Art.	38210	38210
Nipple	Art.	38071	38071
Air regulator	Art.	37812	37812
Hose reel	Art.	-	-
Digital metering gun	Art.	-	-
Drip-tray	Art.	-	-
Packing	N° - m³	2 - 0,040	2 - 0,040
Weight	kg	15	15
Support width (A)	cm	-	-

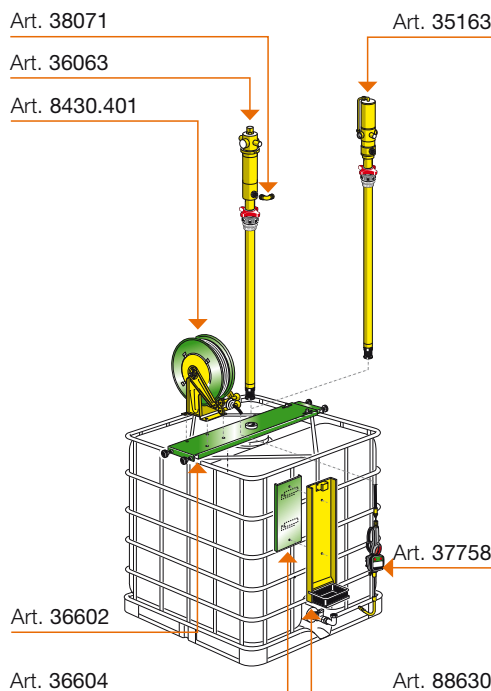
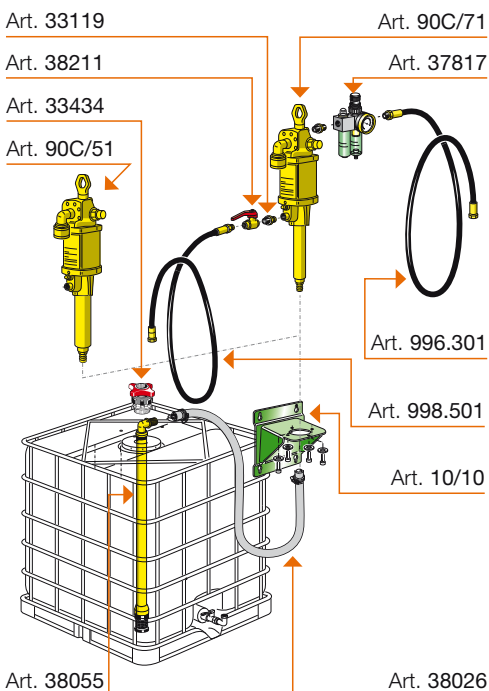


The possible solutions for equipping kits for tanks are many, due to the various shapes and sizes of the tanks (cube, rectangular, cylindrical) and the way in which the pump can be dipped (with suction tube be dipped, connected to a cock on the bottom, etc.).

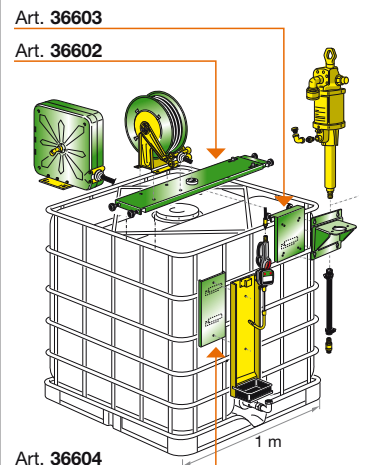
Therefore we recommend choosing the necessary components from among those indicated below, in order to make up the kit best suited to your needs.



36340	36350	36610	36620
5:1	7:1	3:1	5:1
45	30	14	18
90C/51	90C/71	35163	36063
10/10	10/10	36602	36602
-	-	36604	36604
33434	33434	-	-
38026	38026	-	-
38055	38055	-	-
996.301	996.301	-	-
998.501	998.501	-	-
38211	38211	-	-
33119	33119	38071	38071
37817	37817	-	-
-	-	8430.401	8430.401
-	-	37758	37758
-	-	88630	88630
2 - 0,120	2 - 0,120	4 - 0,250	4 - 0,250
23	22	48	49
-	-	100	100



Pump and hose reel supports available for personalized kit.

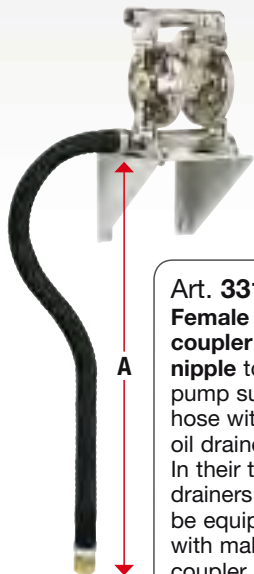




Modular kit for TRANSFER or EMPTYING

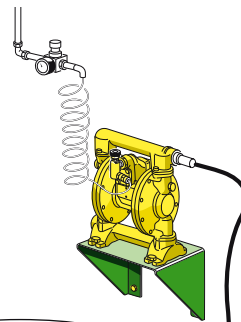
oil, waste oil and similar

Wall-mounted transfer kit. A practical solution for draining movable equipment, waste oil suction/drainers by means of connection with quick-coupling valve. Wall application enables connection to a fixed system for discharging the sucked liquid directly into the storage tank.

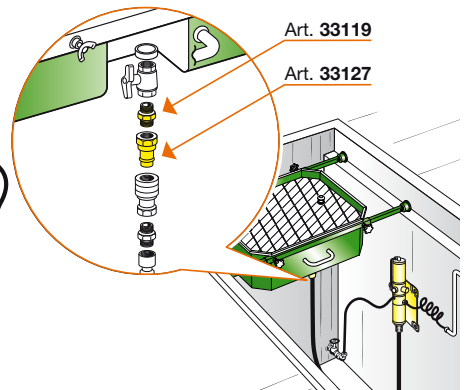


Art. 33134
Female quick coupler and nipple to connect pump suction hose with waste oil drainers. In their turn drainers must be equipped with male quick coupler.

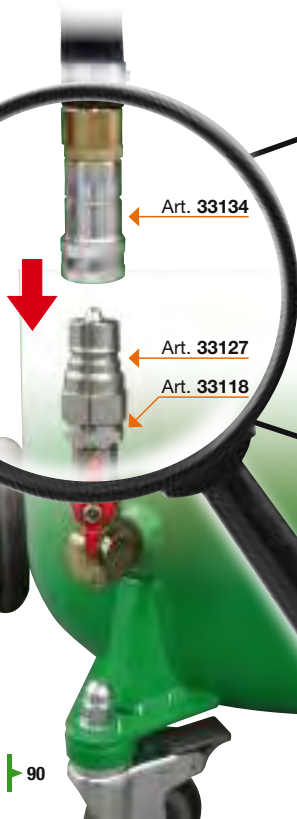
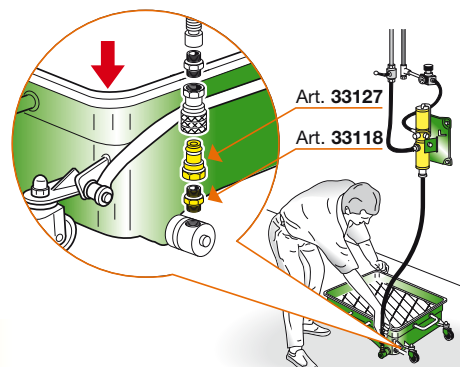
Article with seals in	VITON		33125
Article with seals in	NBR	33550	
Ratio		1:1	1:1
Flow rate	l/min	40	23
Pump	Art.	33/2011NHHV2	33070
Flexible suction tube 2 m	Art.	38026	38026
Air inlet flow regulator	Art.	37803	37803
Wall bracket	Art.	33590	33115
Packing	N° - m ³	1 - 0,030	1 - 0,029
Weight	Kg	14	8,4
Distance (A)	cm	150	150



1 Pit waste oil drainer



2 Floor waste oil drainer



To connect waste oil drainers with above mentioned emptying kit it is necessary to mount a male quick coupler. Depending on the kind of waste oil drainers (standard, for pit or floor mounted) a different nipple must be used as shown in the examples (Pic. 1 - 2 - 3).

3 Standard waste oil drainer



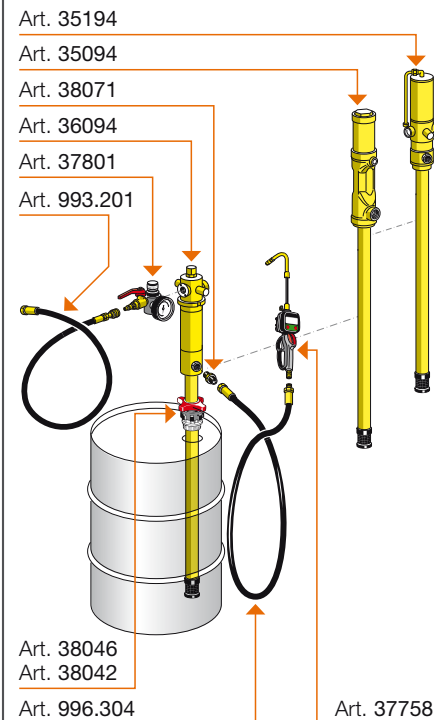
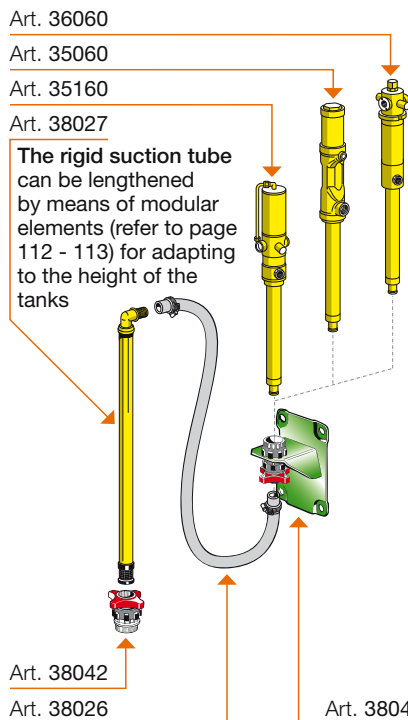
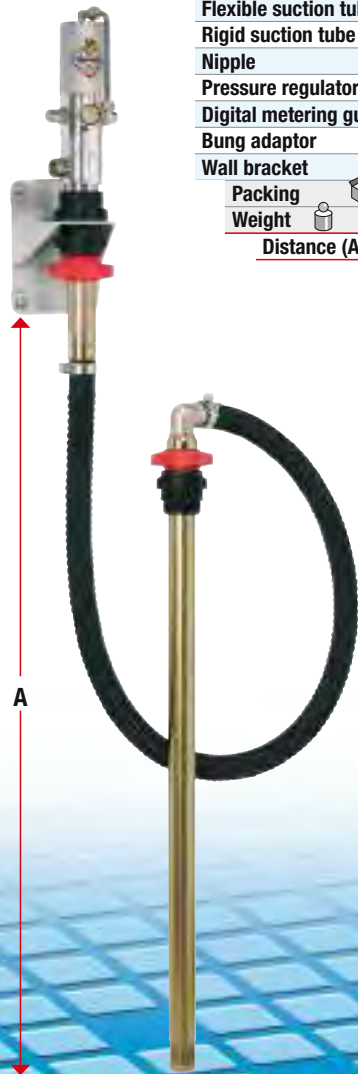
Modular TRANSFER kit

transfer kit

Oil dispensing system with wall mounted or drum mounted pump.
 Kits with wall mounted pump can be connected with centralized lube piping or with an hose reel or a delivery hose.
 Kits with tank mounted pump are provided with hose reel and digital metering gun.
 The rigid suction tube can be lengthened by means of modular elements (refer to page 112 - 113) for adapting to the height of the tanks.



Article with seals in	VITON	35284			35290		
Article with seals in	NBR		35285	37685		35293	35296
Ratio		3:1	3:1	5:1	3:1	3:1	5:1
Flow rate	l/min	20	14	18	20	14	18
Pump	Art.	35060	35160	36060	35094	35194	36094
Delivery hose	Art.	-	-	-	996.304	996.304	996.304
Connection hose	Art.	-	-	-	993.201	993.201	993.201
Flexible suction tube	Art.	38026	38026	38026	-	-	-
Rigid suction tube	Art.	38027	38027	38027	-	-	-
Nipple	Art.	-	-	-	38071	38071	38071
Pressure regulator	Art.	-	-	-	37801	37801	37801
Digital metering gun	Art.	-	-	-	37758	37758	37758
Bung adaptor	Art.	38042	38042	38042	38046	38042	38042
Wall bracket	Art.	38047	38043	38043	-	-	-
Packing	N° - m ³	1 - 0,029	1 - 0,029	1 - 0,029	2 - 0,070	2 - 0,085	2 - 0,085
Weight	Kg	11,4	11,4	11,9	14	13,5	13,5
Distance (A)	cm	150	150	150	-	-	-

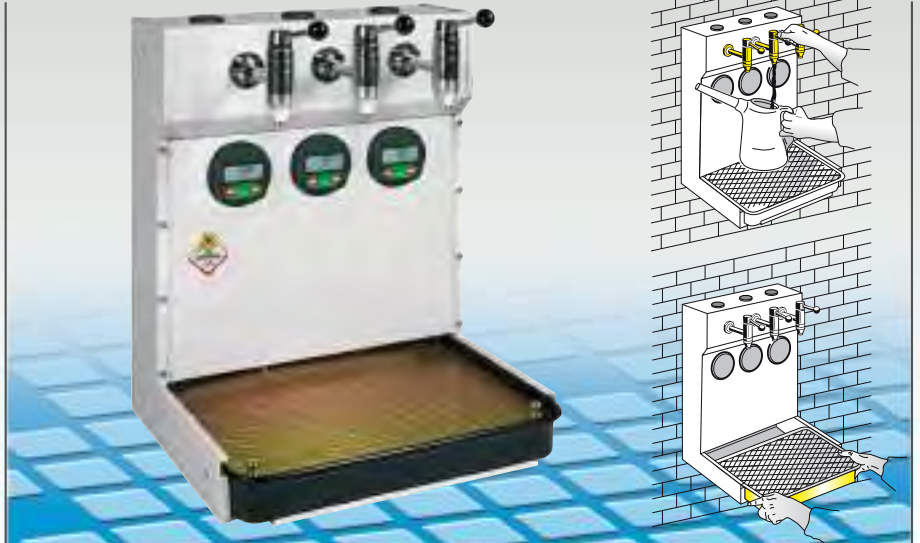




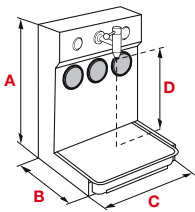
Oil BAR

wall-mounted

Oil bar ideal for dispensing engine oil, gear oil, antifreeze and similar liquids. It offers the availability of to 3 different types of oil. Quick and easy drawing of oil with possibility of controlling the quantity by means of the digital litre-counter available on request. Tap with double **valve** and **antisplash filter** to guarantee delivery while preventing sprays caused by possible air bubbles in the system. Closing is automatic when the lever is released. Equipped with an easy to clean, removable drip-catcher tray and sturdy support grid.



Article		37690	37689	37688	37691	37687	37686
Tap for oil bar	Art.	37692 x 1	37692 x 2	37692 x 3	37692 x 1	37692 x 2	37692 x 3
Digital litre-counter kit	Art.	-	-	-	37830 x 1	37830 x 2	37830 x 3
Packing	N° - m³	1 - 0,136	1 - 0,136	1 - 0,136	1 - 0,136	1 - 0,136	1 - 0,136
Weight	kg	23,8	25	26,2	25	26,5	28
Dimensions (A-B-C-D)cm		67-44-56-46	67-44-56-46	67-44-56-46	67-44-56-46	67-44-56-46	67-44-56-46



Note: a max of 3 taps and 3 digital litre-counter kits can be fitted on the oil bar

Kit feeding pump

Art. 37695

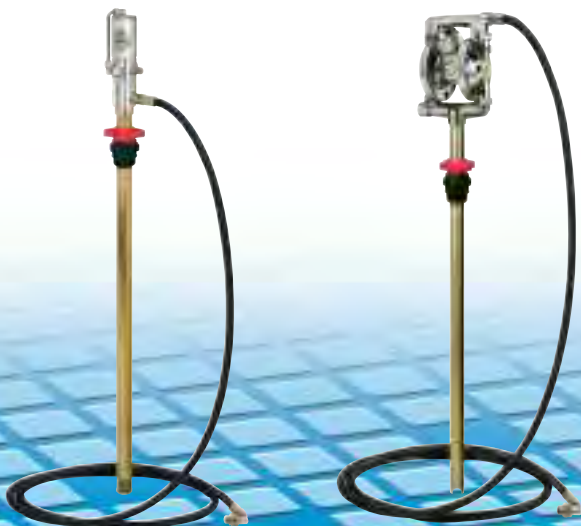
Kit with drum pump for feeding oil bar, equipped with:

- Art. 35194 pump
- R 3:1 - 14 l/min**
- Art. 38042 bung adaptor
- Art. 996.304 hose 1/2" 4m
- elbow M 1/2" x M 1/2"
- nipple M 1/2" x F 1/2"

Art. 33501

Kit with drum pump for feeding oil bar, equipped with:

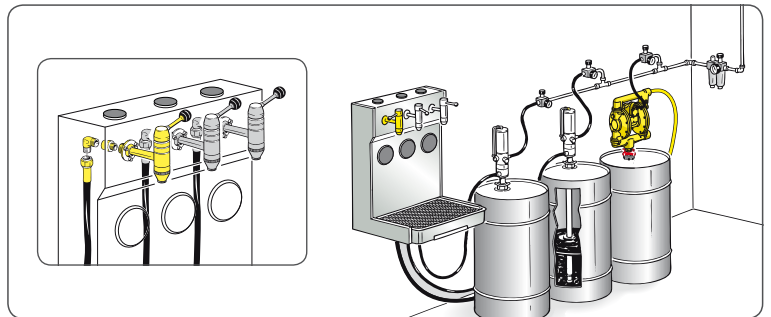
- Art. 33500 diaphragm pump
- R 1:1 - 60 l/min**
- Art. 996.304 tube 1/2" 4m
- Art. 33118 nipple M 3/4" x M 1/2"
- elbow F 1/2" x M 1/2"
- nipple M 1/2" x F 1/2"



Example of installation

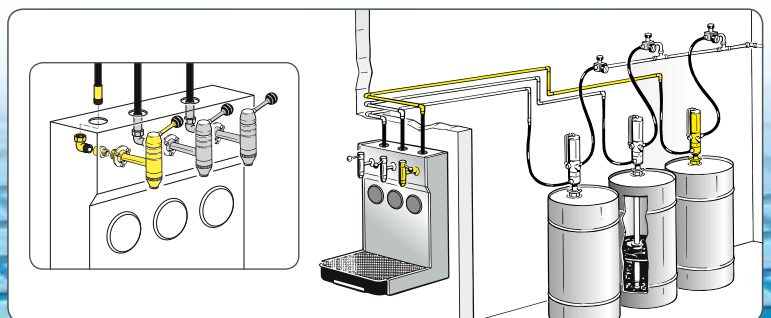
Example of installation with hose.

Example of installation of an oil bar with three service taps connected by hoses to the feeder pumps. This type of connection is only recommended for short distances. After the air is connected to the pump, by operating the tap handle, it will always be ready to use.



Example of installation to fixed system.

Example of installation to a fixed system with the oil bar connected to a centralized system by means of a 60 cm hose.



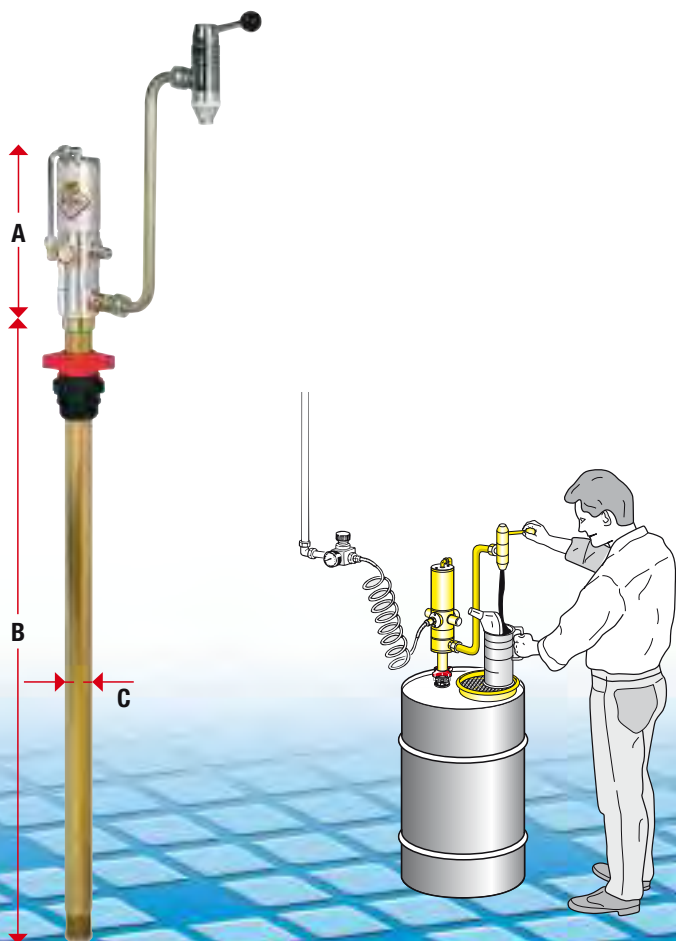


Drum oil BAR

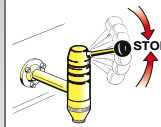
Drum oil bar.
Ideal for dispensing oil and antifreeze liquid.
 The delivery tap is connected directly to the feed pump. Very compact, it enables quick filling of jugs or other small containers.



Article		37697	37698
Ratio		3:1	3:1
Flow rate	l/min	14	14
Pump	Art.	35194	35194
Tap for oil bar	Art.	37683	37683
Drip-catcher tray	Art.	37699	-
Bung adaptor	Art.	38042	38042
Packing	N° - m ³	2 - 0,034	2 - 0,025
Weight	kg	12	9,5
Dimensions (A-B-C)	cm	28,5 - 94 - 4,2	28,5 - 94 - 4,2

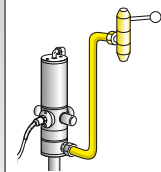


OIL BAR ACCESSORIES

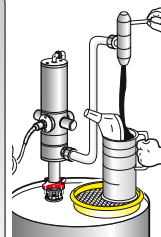


Art. 37692
Double valve tap
 with antisplash
 filter for oil bar
 inlet
 connection
 F 1/2" + M 3/4"

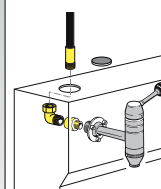
Note: both articles guarantee maximum delivery while preventing sprays caused by possible air bubbles in the system. Closing is automatic upon releasing the lever



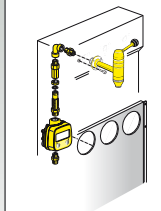
Art. 37683
Oil tap with pump
connection,
 equipped with:
 - Art. 37681 tap for
 oil bar
 - Art. 37682 pump
 - oil bar tap
 connection tube



Art. 37699
Drip-catcher
tray



Art. 37693
Kit for connecting
oil bar to
fixed system,
 equipped with:
 - Art. 996.301 tube
 M 1/2" x F 1/2" - 1 m
 - elbow
 M 1/2" x F 1/2"
 - nipple
 M 1/2" x F 1/2"



Art. 37830
Digital litre-counter
kit for oil bar,
 equipped with:
 - Art. 37780
 digital litre-counter
 - connection unions
 - connections
 M 1/2" x F 1/2"



Art. 38102
2-litre jug

Art. 38105
5-litre jug

* articles not manufactured by us



DIGITAL Meter

Flow rate **35** l/min

Flow rate **70** l/min



Flow rate **40** l/min

RAASM's digital meters, besides gauging the liquid delivered, can show instant flow rates, provide a reset total and allow the setting of different units of measurement.

RAASM's digital meters are suitable for a wide variety of fluids, from low to medium to high viscosities, including lubricants, diesel fuel, antifreeze, window wash liquid and other fluids compatible with the material of the meter.

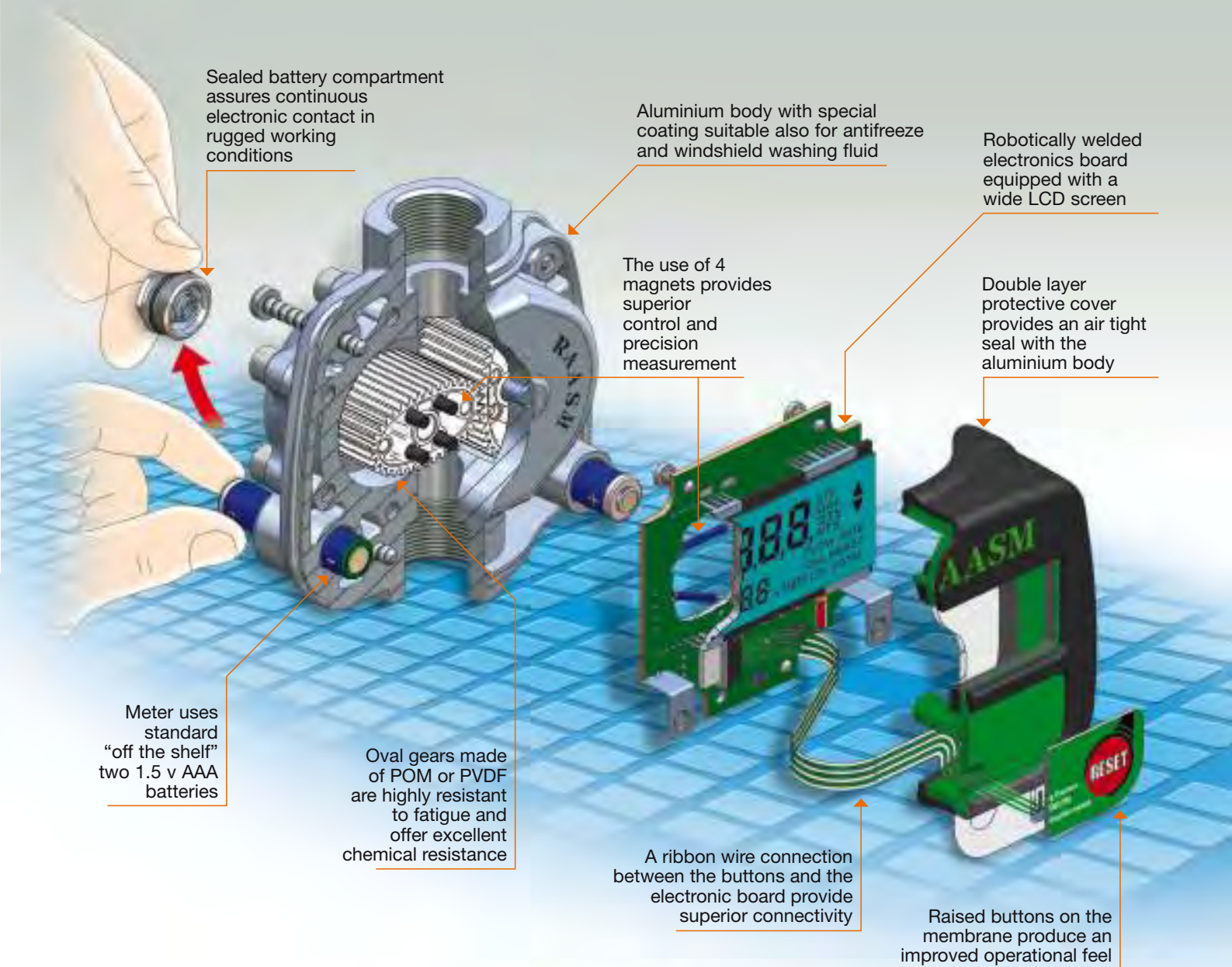


Not type-approved for public use

	oil and similar products	oil and similar products	antifreeze and windshield washing liquid
Article	37780	37781	37785
Flow rate l/min	35	70	40
Compatible fluids	Oil and similar products, diesel fuel	Oil and similar products, diesel fuel	Antifreeze and windshield washing liquid
Body's material	Aluminium	Aluminium	oxidized aluminium
Gear's material	POM	POM	PVDF
Inlet	F 1/2" BSP	F 3/4" BSP	F 1/2" BSP
Outlet	F 1/2" BSP	F 3/4" BSP	F 1/2" BSP
Max operating pressure bar	70	70	70
Burst pressure bar	± 200	± 200	± 200
Accuracy	± 0,3 %	± 0,5 %	± 0,5 %
Net weight kg	0,485	0,790	0,485
Packing  N° - m ³	1 - 0,0015	1 - 0,0018	1 - 0,0015
Gross weight  kg	0,85	1	0,85
Dimensions (A - B - C) mm	94 - 90 - 55	94 - 92 - 77	94 - 90 - 55



TECHNICAL Features



PERFORMANCE

- Precision $\pm 0,3 \%$
- Repeatability 0,2 %
- Pressure loss $< 0,5$ bar at max. flow rate



Series 1/2" 30 TP

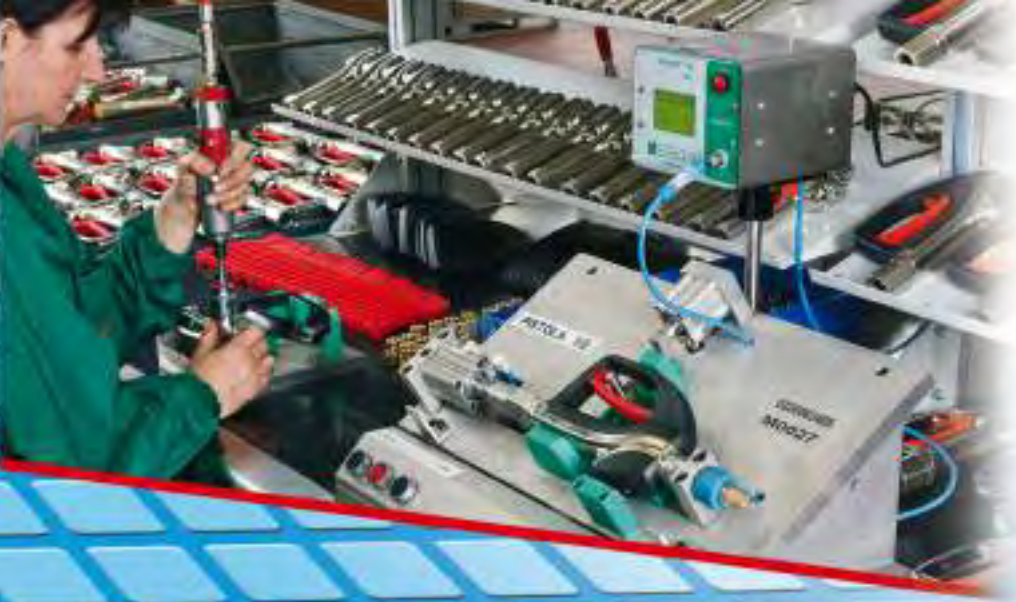


Series 1/2" 40 AL



Series 1/2" 40 AP

Series		1/2" 30 AT	1/2" 40 AL	1/2" 40 AP	1/2" 65 AP	3/4" 70 AP	3/4" 85 AP
Flow rate	l/min	30	40	40	65	70	85
Max pressure	bar	60	70	70	100	100	100
Inlet union		F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 3/4" G	F 3/4" G
Seals		NBR	Viton	Viton	Viton	Viton	Viton



**Gun for oil
and similar**

Series 1/2" 65 AP



Series 3/4" 70 AP



Series 3/4" 85 AP





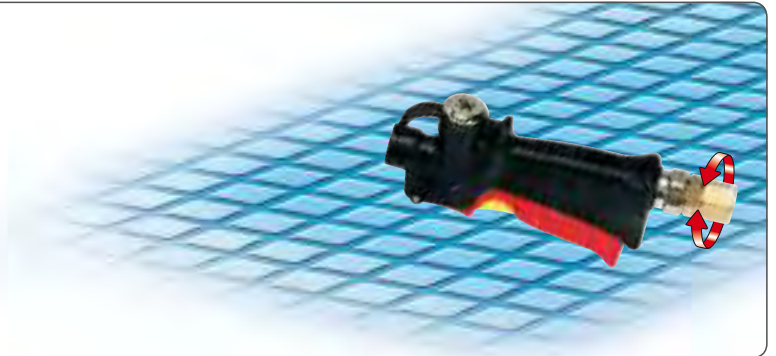
GUN

for oil and similar Series 1/2" - 30TP

Art. 38023

Grip in technopolymer for oil gun

equipped with F 1/2" inlet swivel joint, filter, F 3/8" outlet



Art. 33120

Oil gun equipped with

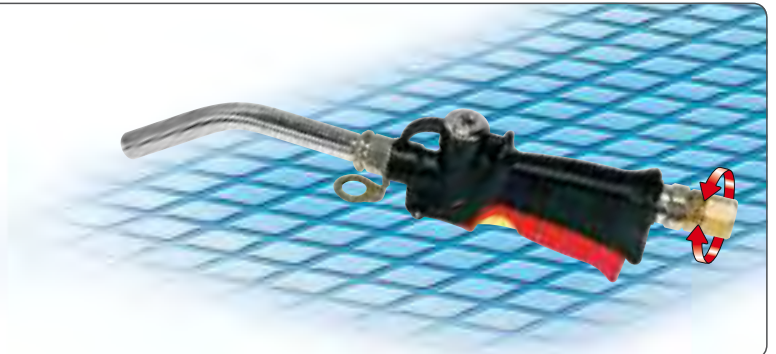
F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

Art. 37730

Oil gun with digital litre-counter

Art. 37780 equipped with

F 1/2" inlet swivel joint, filter, high flow rate rigid terminal



Art. 38024

Oil gun equipped with

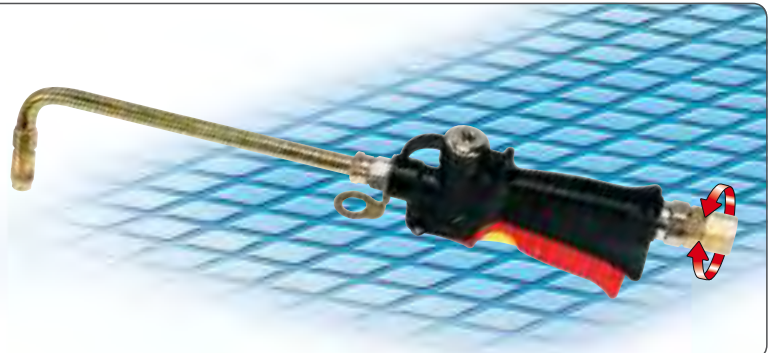
F 1/2" inlet swivel joint, filter, rigid terminal
and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37729

Oil gun with digital litre-counter

Art. 37780 equipped with

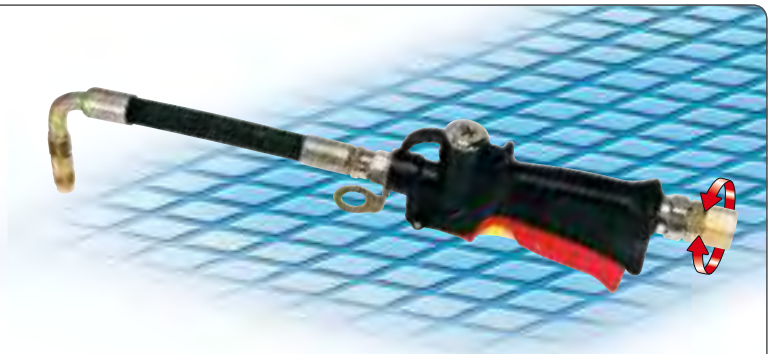
F 1/2" inlet swivel joint, filter, rigid terminal
and semiautomatic drip-catcher nozzle ø 16 mm



Art. 38025

Oil gun equipped with

F 1/2" inlet swivel joint, filter, flexible terminal
and semiautomatic drip-catcher nozzle ø 16 mm



Art. 37728

Oil gun with digital litre-counter

Art. 37780 equipped with

F 1/2" inlet swivel joint, filter, flexible terminal
and semiautomatic drip-catcher nozzle ø 16 mm





GUN

for oil and similar Series 1/2" - 40AL - 40AP

Art. 38020

Grip in aluminium for oil gun equipped with F 1/2" inlet swivel joint, filter, F 3/8" outlet

Art. 37740

Grip in aluminium for oil gun equipped with F 1/2" inlet swivel joint, filter, F 3/8" outlet, lever locking button



lever locking button



Art. 33121

Oil gun equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal

Art. 37743

Oil gun equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal, lever locking button

Art. 37760

Oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal



Art. 38021

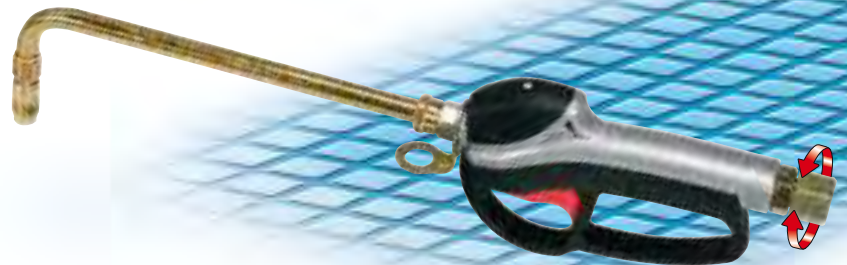
Oil gun equipped with F 1/2" inlet swivel joint, filter, rigid terminal and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37742

Oil gun equipped with F 1/2" inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle ø 16 mm and lever locking button

Art. 37759

Oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle ø 16 mm



Art. 38022

Oil gun equipped with 1/2" F inlet swivel joint, filter, flexible terminal and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37741

Oil gun equipped with F 1/2" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 16 mm and lever locking button



Art. 37758

Oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, flexible terminal and semiautomatic drip-catcher nozzle ø 16 mm

Art. 37786

Oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 16 mm and lever locking button





GUN

for oil and similar Series 1/2" - 65AP

Art. 37750

Grip in aluminium for oil gun equipped with F 1/2" inlet swivel joint, filter, F 1/2" outlet and lever locking button



Coloured caps supplied for all the range

lever locking button

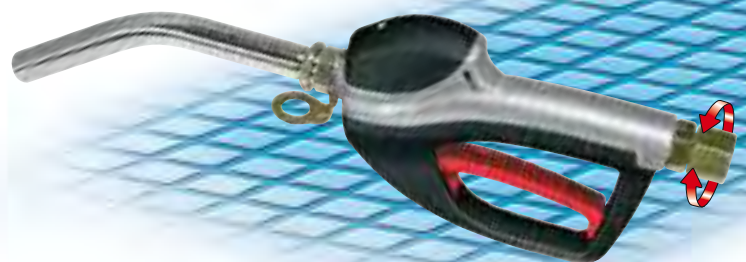


Art. 33140

High flow rate oil gun equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal and lever locking button

Art. 37796

High flow rate oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal and lever locking button

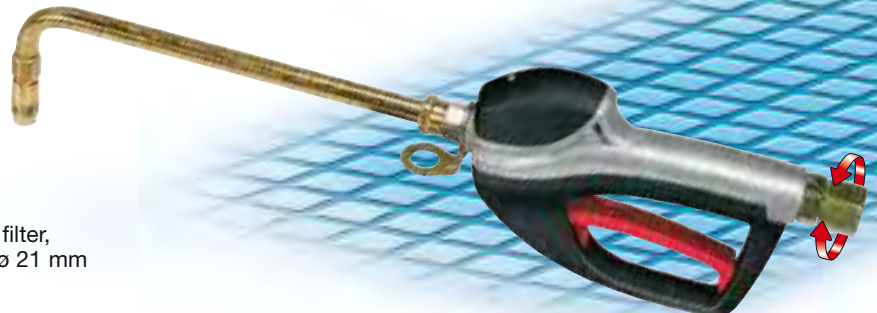


Art. 37752

Oil gun equipped with F 1/2" inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle ø 21 mm and lever locking button

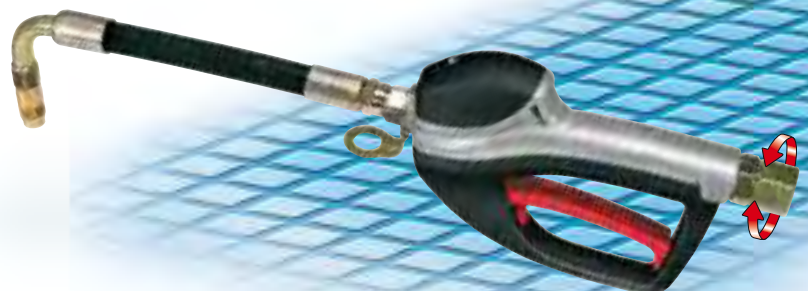
Art. 37795

Oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle ø 21 mm and lever locking button



Art. 37751

Oil gun equipped with F 1/2" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 21 mm and lever locking button



Art. 37794

Oil gun with digital litre-counter Art. 37780 equipped with F 1/2" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 21 mm and lever locking button





GUN

for oil and similar Series 3/4" - 70AP

Art. 37775

High delivery oil grip equipped with F 3/4" inlet swivel joint, filter, F 1/2" outlet and lever locking button



Coloured caps supplied for all the range

lever locking button

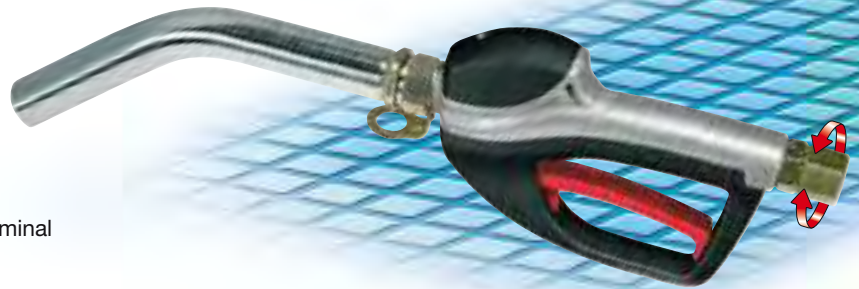


Art. 37778

High flow rate oil gun equipped with F 3/4" inlet swivel joint, filter, high flow rate rigid terminal and lever locking button

Art. 37799

High flow rate oil gun with digital litre-counter Art. 37781 equipped with F 3/4" inlet swivel joint, filter, high flow rate rigid terminal and lever locking button



Art. 37777

High flow rate oil gun equipped with F 3/4" inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle ø 35 mm and lever locking button

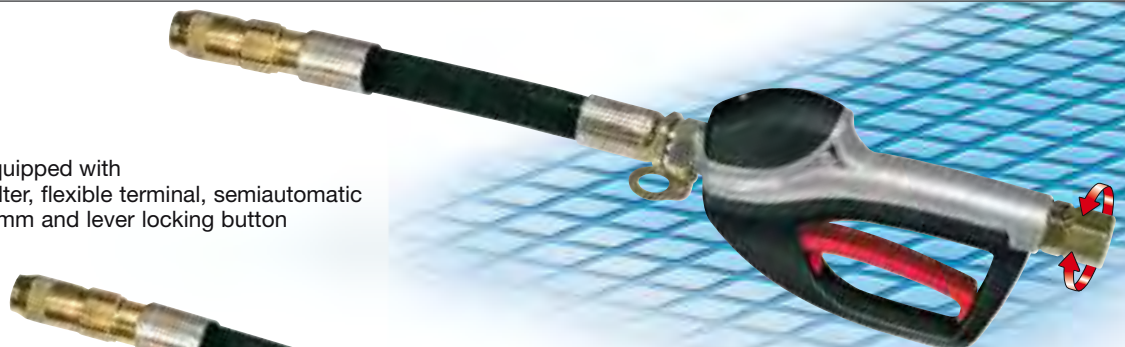
Art. 37798

High flow rate oil gun with digital litre-counter Art. 37781 equipped with F 3/4" inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle ø 35 mm and lever locking button



Art. 37776

High flow rate oil gun equipped with F 3/4" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 35 mm and lever locking button



Art. 37797

High flow rate oil gun with digital litre-counter Art. 377810 equipped with F 3/4" inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 35 mm and lever locking button





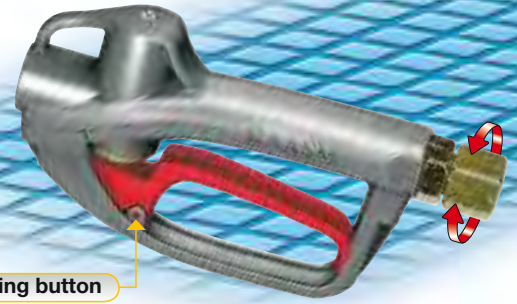
GUN

for oil and similar Series 3/4" - 85AP

Art. 33150

High delivery oil grip equipped with F 3/4" inlet swivel joint, filter, F 3/4" outlet and lever locking button

lever locking button

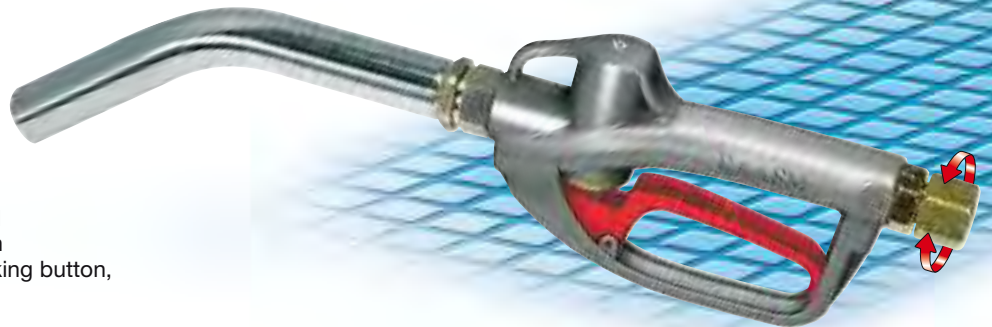


Art. 33153

High delivery oil gun grip equipped with F 3/4" inlet swivel joint, filter, lever locking button, rigid terminal with free outlet

Art. 33148

High delivery oil gun grip with digital litre-counter Art. 37781 equipped with F 3/4" inlet swivel joint, filter, lever locking button, rigid terminal with free outlet

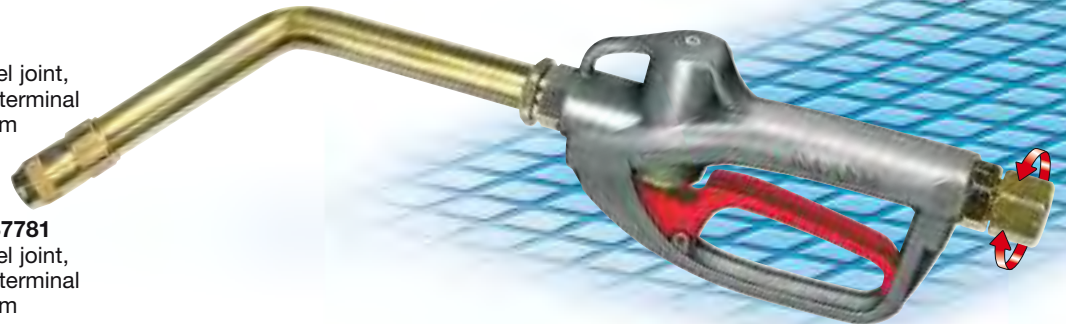


Art. 33152

High delivery oil gun grip equipped with F 3/4" inlet swivel joint, filter, lever locking button, rigid terminal and drip-catcher nozzle ø 35 mm

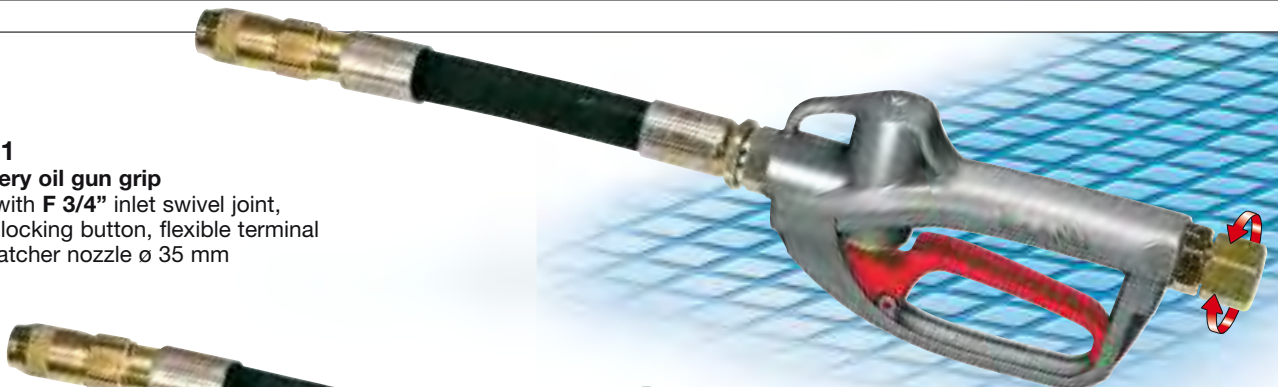
Art. 33147

High delivery oil gun grip with digital litre-counter Art. 37781 equipped with F 3/4" inlet swivel joint, filter, lever locking button, rigid terminal and drip-catcher nozzle ø 35 mm



Art. 33151

High delivery oil gun grip equipped with F 3/4" inlet swivel joint, filter, lever locking button, flexible terminal and drip-catcher nozzle ø 35 mm



Art. 33146

High delivery oil gun grip with digital litre-counter Art. 37781 equipped with F 3/4" inlet swivel joint, filter, lever locking button, flexible terminal and drip-catcher nozzle ø 35 mm





GUN

for windshield washing liquid and antifreeze

Art. 37785
Digital meter for windshield washing liquid
and antifreeze, inlet and outlet F 1/2" BSP



Antifreeze gun Series 1/2" - 40AL

Art. 37764
Antifreeze gun with digital
litre-counter Art. 37785 equipped with
F 1/2" inlet swivel joint, filter, high flow rate
rigid terminal and lever locking button



Art. 37762
Antifreeze gun with digital
litre-counter Art. 37785 equipped with
F 1/2" inlet swivel joint, filter, flexible terminal
and semiautomatic drip-catcher nozzle \varnothing 16 mm



Windshield washing liquid gun Series 1/2" - 30TL

Art. 33440
Windshield washing liquid gun equipped with
F 1/2" inlet swivel joint, filter,
high flow rate rigid terminal



Art. 33441
Windshield washing liquid gun
with digital litre-counter Art. 37785
equipped with F 1/2" inlet swivel joint, filter,
high flow rate rigid terminal





Gun for oil and similar S. 1/2" - 30TP - 40AL - 40AP

Art. 38015
Semiautomatic
drip-catcher nozzle ø 10 mm

Art. 38016
Semiautomatic
drip-catcher nozzle ø 16 mm

Art. 38017
Semiautomatic
drip-catcher nozzle ø 8 mm

Art. 38010
Flexible terminal with
semiautomatic
drip-catcher nozzle ø 16 mm

Art. 38011
Rigid terminal with
semiautomatic
drip-catcher nozzle ø 16 mm

Art. 38013
Rigid terminal 45°
with semiautomatic drip-catcher
nozzle ø 16 mm

Art. 38012
High delivery rigid
terminal with free outlet ø 20 mm

Art. 38018
Curved semiautomatic
drip-catcher ø 8 mm

Art. 38014
Flexible terminal with
semiautomatic
curved-drip-catcher nozzle ø 8 mm

Art. 38023
Grip in technopolymer with
inlet swivel joint F 1/2"

Art. 38020
Grip in aluminium alloy
with inlet swivel
joint F 1/2"

Art. 37740
Grip in aluminium alloy
with F 1/2" inlet swivel joint
and lever locking button

Art. 38062
Swivel
joint for
oil gun,
M/F 1/2"

Gun for oil and similar Series 1/2" - 65AP

Art. 38034
Semiautomatic
drip-catcher nozzle ø 21 mm

Art. 38035
Semiautomatic
drip-catcher nozzle ø 27 mm

Art. 38029
Flexible terminal with
semiautomatic
drip-catcher nozzle ø 21 mm

Art. 38030
Rigid terminal with
semiautomatic
drip-catcher nozzle ø 21 mm

Art. 38031
Rigid terminal 45°
with semiautomatic
drip-catcher nozzle ø 21 mm

Art. 38032
High delivery rigid
terminal with free outlet ø 20 mm

Art. 37750
Grip in aluminium alloy
with inlet swivel joint F 1/2"
and lever locking button

Art. 38063
Swivel
joint for
oil gun,
M/F 1/2"



Gun for oil and similar Series 3/4" - 70AP - 85AP

Art. 38040
High delivery
semiautomatic
drip-catcher nozzle
ø 35 mm



Art. 38037
High delivery
flexible terminal
with semiautomatic
drip-catcher nozzle ø 35 mm



Art. 38038
High delivery rigid
terminal 45° with
semiautomatic drip-catcher
nozzle ø 35 mm



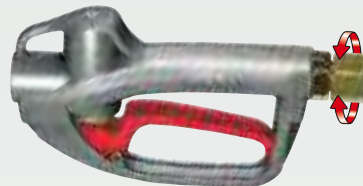
Art. 38039
High delivery rigid
terminal with
free outlet ø 26 mm



Art. 37775
Grip in aluminium alloy
with inlet swivel
joint F 3/4" and lever
locking button



Art. 33150
Grip in aluminium alloy
with inlet swivel
joint F 3/4" and level
locking button



Art. 38066
Swivel
joint for
oil gun,
M/F 3/4"

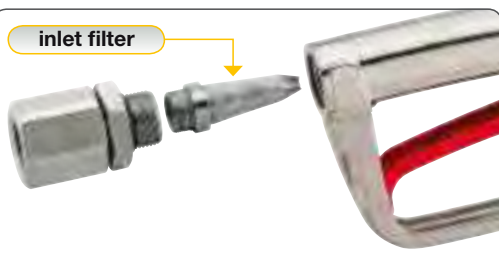
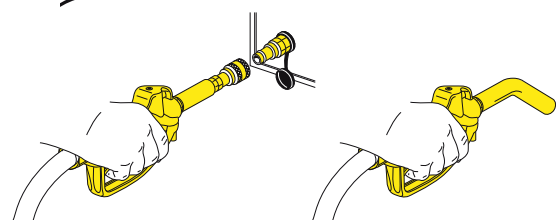
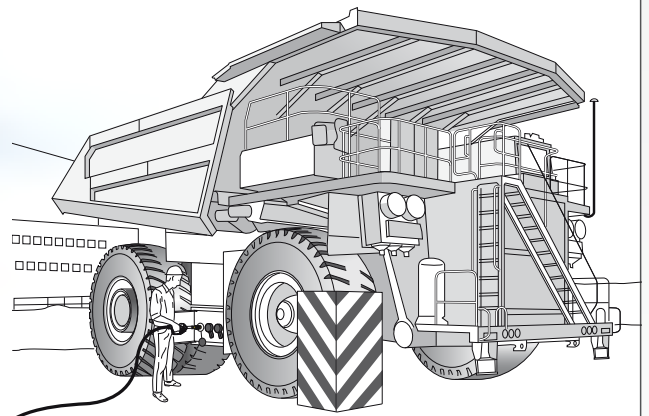


Art. 38065
Swivel joint for oil
gun, high delivery,
inlet M/F 3/4"



High delivery grip Series 3/4"

Example of used 3/4" oil gun with
quick coupler for tank refilling.



Inlet filter supplied with all our oil,
antifreeze, windshield liquid delivery gun.



Accessories

digital meters and volumetric guns



Art. 37704
Digital dispensing oil gun with preselection,
equipped with:
- inlet swivel joint **F 1/2"**
- adjustable rigid terminal
- automatic closing nozzle \varnothing 16 mm

* not type-approved for public use
* articles not manufactured by us



Art. 37701
Mechanical litre-counter (weight 1 Kg) for oil,
equipped with:
- connection **F 1/2" x F 1/2"**
- indicator 0-10 litres

* not type-approved for public use
* articles not manufactured by us



Art. 37703
Oil gun with mechanical litre-counter (Art. 37701),
equipped with:
- inlet swivel joint **F 1/2"**
- flexible terminal
- semiautomatic nozzle \varnothing 16 mm

* not type-approved for public use
* articles not manufactured by us



Art. 33122
High delivery oil gun for transfer,
equipped with:
- **F 3/4"** inlet swivel joint (max 8 bar)
- rigid terminal with free outlet
Ideal for high deliveries in transferring oil, waste
oil and antifreeze liquid

Note: it is advisable to use it with hose 3/4" (Art. 997.505) and with pumps
R 1:1 (max 8 bar)

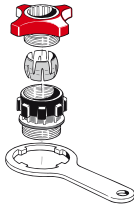
* articles not manufactured by us



Accessories for oil pumps



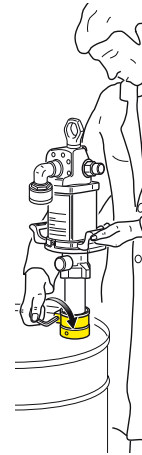
Art. 38046
Bung adaptor
ø 32 mm, with double body
for pumps with suction tube,
series 500



Art. 33434
Bung adaptor
ø 34 mm, with double body
for pumps with suction tube,
series 600

Art. 38042
Bung adaptor
ø 42 mm, with double body
for pumps with suction tube,
series 600 e 650

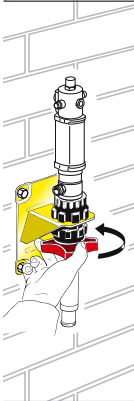
Art. 38044
Bung adaptor
ø 38 mm, with double body
for pumps manual double
acting oil pumps



Art. 38051
Bung adaptor
ø 50 mm, for pumps
with suction tube,
series 500

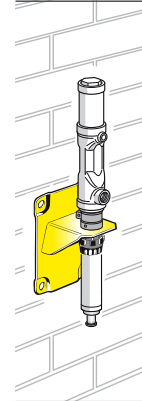
Art. 10/14
Bung adaptor
ø 45 mm for industrial
pumps with suction tube,
series 900 e 1200

Art. 10/15
Bung adaptor
ø 53 mm for industrial
pumps with suction tube,
series 900 e 1200

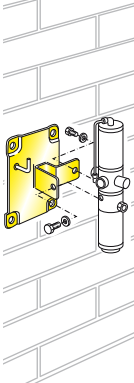


Art. 38047
Wall bracket ø 32 mm
with double body
for wall-mounting of pumps,
series 500

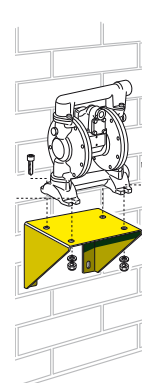
Art. 38043
Wall bracket ø 42 mm
with double body
for wall-mounting of pumps,
series 600 and 650



Art. 38052
Wall bracket ø 50 mm
with clamping system
with screw for
wall-mounting
of pumps,
series 500

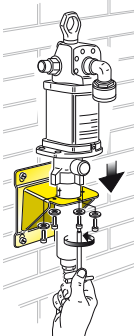
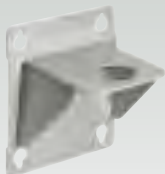


Art. 33115
Wall bracket in steel
for wall-mounting of
transfer pumps,
series 600 and 650

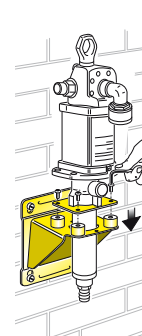
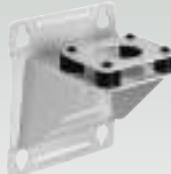


Art. 33590
**Wall bracket in painted
steel** for wall-mounting
of diaphragm pumps
1/2" and 3/4"

Art. 33591
**Wall bracket in painted
steel** for wall-mounting
of diaphragm pumps
1" and 1.1/4"



Art. 10/10
**Wall bracket in painted
steel** for wall-mounting
of integral and flanged
industrial pumps,
series 900 and 1200



Art. 10/11
**Wall bracket in
painted steel**
with dampers for
wall-mounting of
integral and flanged
industrial pumps,
series 900 and 1200



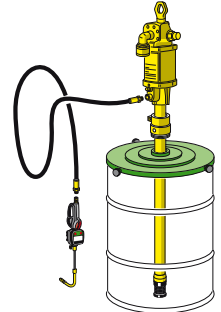
Accessories for oil pumps

Union F2"



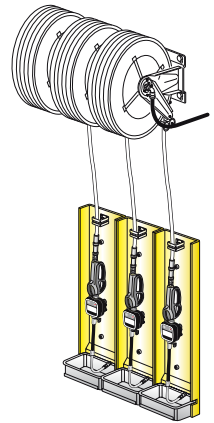
Drum cover with 2" F union suitable for standard bung adaptor

- Art. **65160** Drum cover ø 600 mm (drums ø external 550 - 600 mm)
- Art. **65142** Drum cover ø 420 mm (drums ø external 370 - 420 mm)
- Art. **65138** Drum cover ø 385 mm (drums ø external 340 - 385 mm)



Art. **88630** Modular drip-tray.

Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace



*



- Art. **33126**
Female quick connector
- thread F 3/4" G
- high pressure 250 bar



- Art. **33127**
Male quick connector
- thread F 3/4" G
- high pressure 250 bar

* articles not manufactured by us

*



- Art. **38069**
90° union
- 3/4" G - F/M

- Art. **38070**
90° union
- 1/2" G - F/M

* articles not manufactured by us

*



- Art. **33106** Nipple M 3/4" NPT x F 3/4" G
- Art. **33107** Nipple M 3/4" G x F 1" NPT
- Art. **33108** Nipple M 1" G x F 3/4" NPT
- Art. **33109** Nipple M 1" G x F 1" NPT
- Art. **38075** Nipple M 1/2" G x F 1/2" NPT
- Art. **38076** Nipple M 1/2" NPT x F 1/2" G
- Art. **38077** Nipple M 3/8" NPT x F 3/8" G
- Art. **38078** Nipple M 3/8" G x F 3/8" NPT
- Art. **38079** Nipple M 1/2" NPT x M 3/8" NPT
- Art. **33111** Nipple M 1.1/4" G x F 1.1/4" NPT
- Art. **33112** Nipple M 3/4" G x F 3/4" NPT
- Art. **33113** Nipple M 1/2" G x F 3/4" NPT

* articles not manufactured by us



- Art. **38071** Nipple M 1/2" G x M 1/2" G ●●
- Art. **38072** Nipple M 1/2" G x M 3/8" G ●
- Art. **38073** Nipple M 3/8" G x M 3/8" G ●●
- Art. **33114** Nipple M 1" G x M 1/2" G ●
- Art. **33116** Nipple M 1" G x M 1" G ●
- Art. **33117** Nipple M 3/4" G x M 3/4" G ●
- Art. **33118** Nipple M 1/2" G x M 3/4" G ●
- Art. **33119** Nipple M 1" G x M 3/4" G ●
- Art. **33275** Nipple M 1/2" G x F 3/4" G ●
- Art. **33276** Nipple M 3/4" G x F 1" G ●
- Art. **33277** Nipple M 3/4" G x F 1/2" G ●

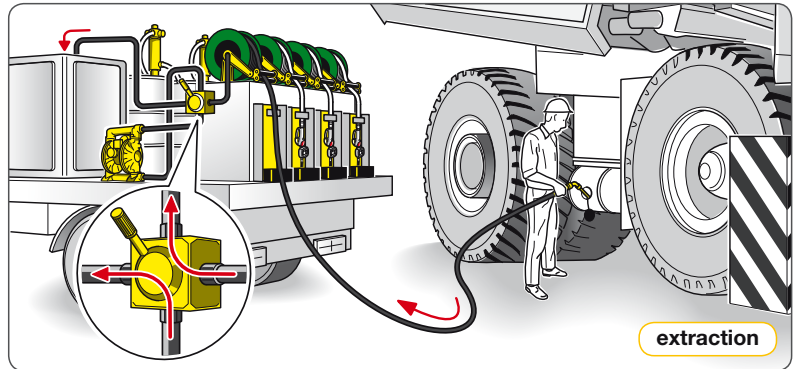
●● tapered/cylindrical thread
● cylindrical/cylindrical thread



Accessories 4-way evacuation valve and flow regulator chamber



The 4-way evacuation valve is used for extraction and discharge of waste oil fluid hydraulic gear and engine oil and antifreeze

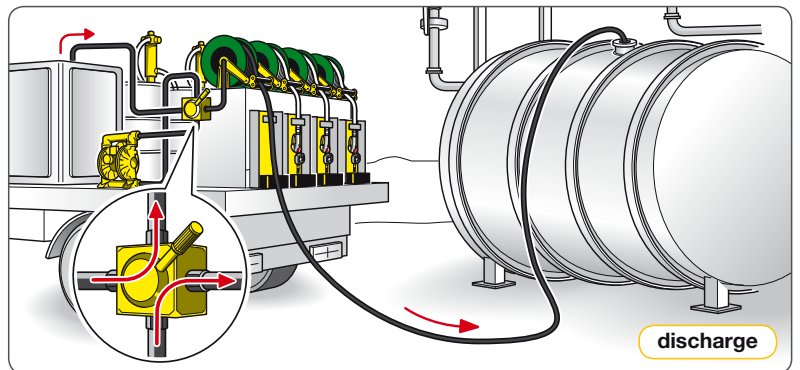


extraction

Art. 38130
4-way evacuation valve with connection F 3/4"G

Art. 38131
4-way evacuation valve with connection F 1"G

Art. 38132
4-way evacuation valve with connection F 1.1/2"G



discharge

Article	Seals	Connection	Pressure	Weight
38130	Viton	F 3/4"	14 bar	3 Kg
38131	Viton	F 1"	14 bar	3 Kg
38132	Viton	F 1.1/2"	14 bar	3 Kg



Art. 38097

Art. 38098

Art. 38097

Flow regulator chamber F 3/4" x F 3/4" equipped with:

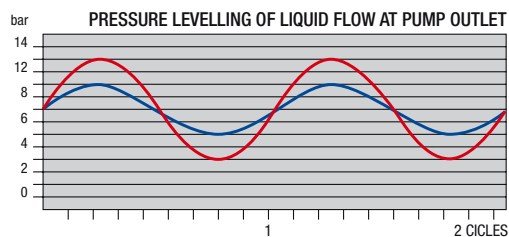
- one-way valve eliminates sudden pressure changes, ensuring a regular flow
- suitable for R 1:1 - 3:1 - 5:1 pumps
- max pressure 100 bar

Art. 38098

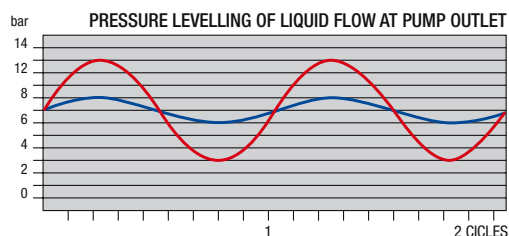
Flow regulator chamber F 3/4" x F 3/4" with air tank equipped with:

- one-way valve eliminates sudden pressure changes, ensuring a regular flow
- suitable for pumps till R 20:1
- max pressure 100 bar

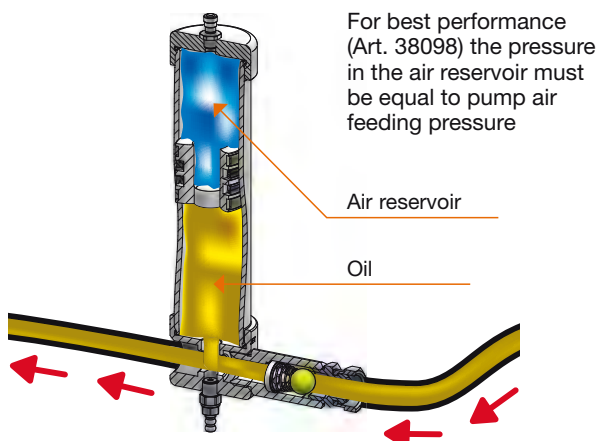
Pressure trend of oil pump outlet



with pump R 3:1 - 8 bar
 ■ without chamber Art. 38097
 ■ with chamber Art. 38097



with pump R 3:1 - 8 bar
 ■ without chamber Art. 38098
 ■ with chamber Art. 38098



For best performance (Art. 38098) the pressure in the air reservoir must be equal to pump air feeding pressure

Air reservoir

Oil



Accessories for oil pumps

*



Art. 38210

Art. 38211

Art. 38210
Ball cock F 1/2" x F 1/2"
total passage for system
- max pressure 70 bar

Art. 38211
Ball cock F 1" x F 1"
total passage for system
- max pressure 70 bar

* articles not manufactured by us

*



Art. 38095
"Y" filter in line F/F 1/2" for fitting on the outlet of pumps for oil and allied products, max pressure 100 bar

Art. 38096
"Y" filter in line F/F 1" for fitting on the outlet of pumps for oil and allied products, max pressure 100 bar

* articles not manufactured by us

*



Art. 38099
System overpressure control valve
- F 1/2" x F 1/2"
- Calibration 5 - 50 bar

Art. 38100
System overpressure control valve
- F 3/4" x F 3/4"
- Calibration 5 - 50 bar

* articles not manufactured by us

*



Art. 37812
Pressure regulator with condensate discharge filter, lubricator, pressure gauge and inlet-outlet connections F/F 1/4"

Art. 37817
Pressure regulator with condensate discharge filter, lubricator, pressure gauge and inlet-outlet connections F/F 1/2"

* articles not manufactured by us

*



Art. 38091
Check valve with connection for flexible hose 1.1/4" - thread 1"G - M to be fitted on the draining cock of tanks

*



Art. 38080
Hose holder ø 1.1/4" with **M 3/4" inlet connection**

Art. 38081
Hose holder ø 1.1/4" with **M 1" inlet connection**

Art. 38082
Hose holder ø 1.1/4" with **M 1.1/4" inlet connection**

Art. 38083
Stainless steel hose holder ø 3/4" with **M 1" inlet connection**



Art. 38026
Flexible suction tube ø 1.1/4" - 30 mm
- length 2 m for wall-mounted pumps

Art. 38028
Flexible suction tube ø 1.1/4" - 30 mm
- length 1 m for wall-mounted pumps



Art. 33426
Flexible suction tube ø 3/4"
- length 2 m for wall-mounted s/steel pumps



Art. 993.201 **Hose M 1/4" x F 1/4"** - 1 m - 20 bar

Art. 993.202 **Hose M 1/4" x F 1/4"** - 2 m - 20 bar

Art. 996.301 **Hose M 1/2" x F 1/2"** - 1 m - 150 bar

Art. 996.302 **Hose F 1/2" x F 1/2"** - 2 m - 150 bar

Art. 996.304 **Hose M 1/2" x F 1/2"** - 4 m - 150 bar

Art. 997.505 **Hose M 1/4" x F 1/4"** - 5 m - 150 bar

Art. 998.501 **Hose M 1" x F 1"** - 1 m - 150 bar

Art. 998.502 **Hose M 1" x F 1"** - 2 m - 150 bar



Accessories for oil pumps

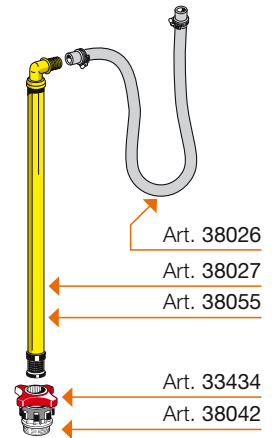


Art. 38056

Flexible and rigid suction tube for wall mounted pump series 500 - 600 - 650 - 900 equipped with:
 - Art. 38026 flexible suction tube 2 m - \varnothing 1.1/4"
 - Art. 38027 rigid suction tube 940 mm
 - Art. 38042 bung adaptor

Art. 38057

Flexible and rigid suction tube for wall mounted pump series 500 - 600 - 650 - 900 equipped with:
 - Art. 38026 flexible suction tube 2 m - \varnothing 1.1/4"
 - Art. 38055 rigid suction tube 1260 mm
 - Art. 33434 bung adaptor

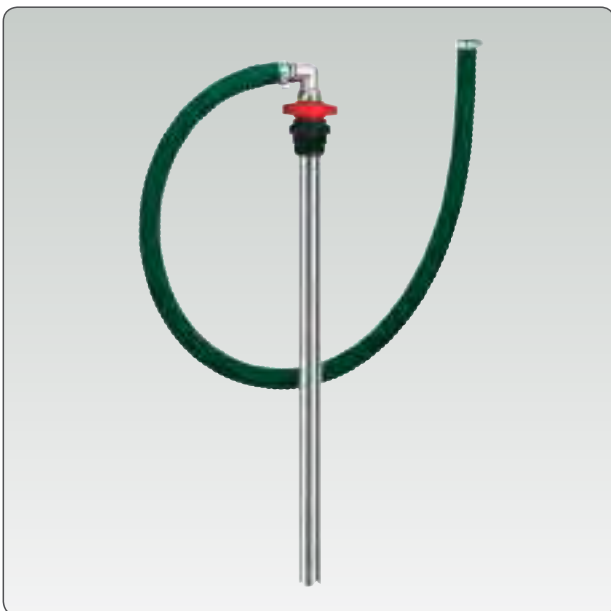
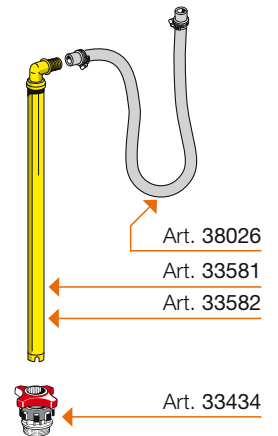


Art. 33583

Flexible and rigid suction tube for wall mounted diaphragm pump equipped with:
 - Art. 38026 flexible suction tube 2 m - \varnothing 1.1/4"
 - Art. 33581 rigid suction tube 940 mm - \varnothing 1.1/4"
 - Art. 33434 bung adaptor

Art. 33585

Flexible and rigid suction tube for wall mounted diaphragm pump equipped with:
 - Art. 38026 flexible suction tube da 2 m - \varnothing 1.1/4"
 - Art. 33582 rigid suction tube 1240 mm
 - Art. 33434 bung adaptor

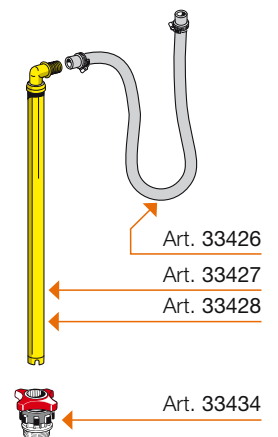


Art. 33424

Flexible and rigid suction tube for wall mounted pump series 600 INOX equipped with:
 - Art. 33426 flexible suction tube 2 m - \varnothing 3/4"
 - Art. 33427 stainless steel suction tube 940 mm - \varnothing 3/4"
 - Art. 33434 bung adaptor

Art. 33425

Flexible and rigid suction tube for wall mounted pump series 600 INOX equipped with:
 - Art. 33426 flexible suction tube 2 m - \varnothing 3/4"
 - Art. 33428 stainless steel suction tube 1260 mm - \varnothing 3/4"
 - Art. 33434 bung adaptor



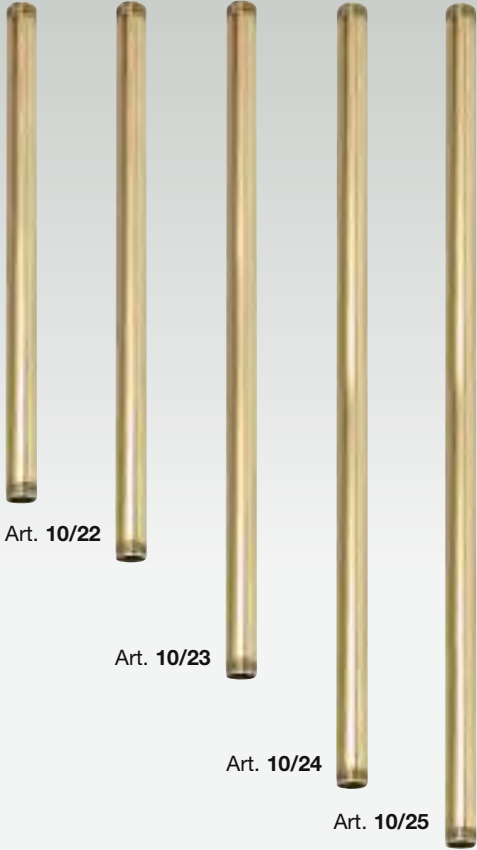


Accessories extensions 1" thread



Art. 38092

Top connector - filetto F 1" x F 1"
allows to connect pump M 1" thread with
extensions M 1" thread



Art. 10/21

Art. 10/22

Art. 10/23

Art. 10/24

Art. 10/25

Art. 10/21

Extension ø 34 - thread M 1"G x M 1"G - 460 mm
- suitable for modular and extendable pumps with F 1" connection

Art. 10/22

Extension ø 34 - thread M 1"G x M 1"G - 660 mm
- suitable for modular and extendable pumps with F 1" connection

Art. 10/23

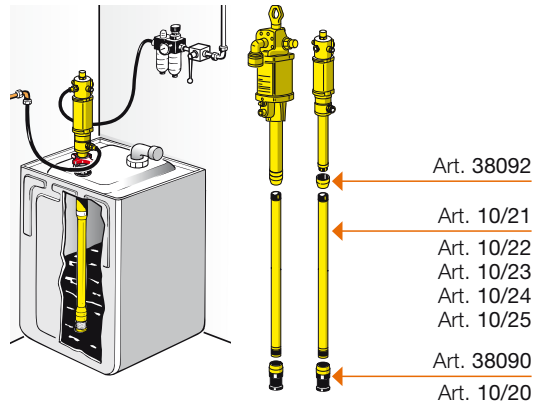
Extension ø 34 - thread M 1"G x M 1"G - 960 mm
- suitable for modular and extendable pumps with F 1" connection

Art. 10/24

Extension ø 34 - thread M 1"G x M 1"G - 1260 mm
- suitable for modular and extendable pumps with F 1" connection

Art. 10/25

Extension ø 34 - thread M 1"G x M 1"G - 1460 mm
- suitable for modular and extendable pumps with F 1" connection



Art. 38092

Art. 10/21

Art. 10/22

Art. 10/23

Art. 10/24

Art. 10/25

Art. 38090

Art. 10/20



Art. 38090



Art. 10/20

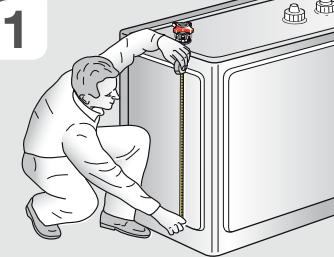
Art. 38090

Foot valve with air eliminator - F 1" thread
suitable to fit ø 34 extensions M 1"G thread

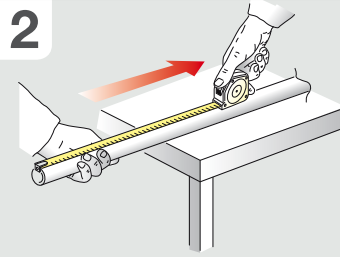
Art. 10/20

Foot valve with filter - F 1" thread
suitable to fit ø 34 extensions M 1"G thread

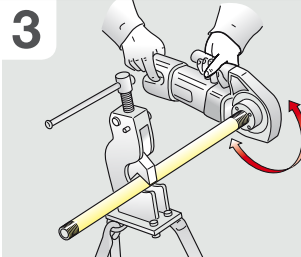
Extendable pumps suction tube 1"



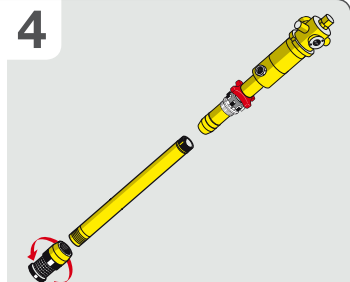
1 Obtain a water pipe (normally available on the market) ø 1" and thickness 2,5 mm



2 Cutting the length suitable for the container



3 Thread the 2 ends with 1" gas Male



4 Screw the threaded pipe between the pump and the foot valve (Art. 10/20)

Note: apply a sealant to prevent air infiltration in the pumping phase or oil leaks during stops



Accessories extensions for customising pumps



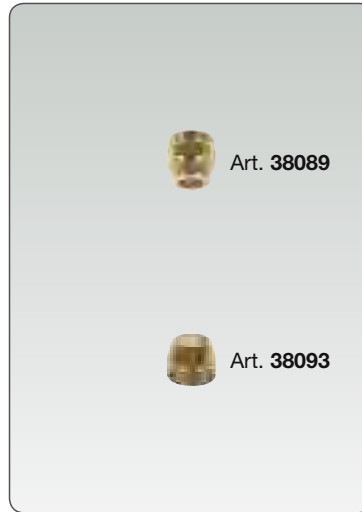
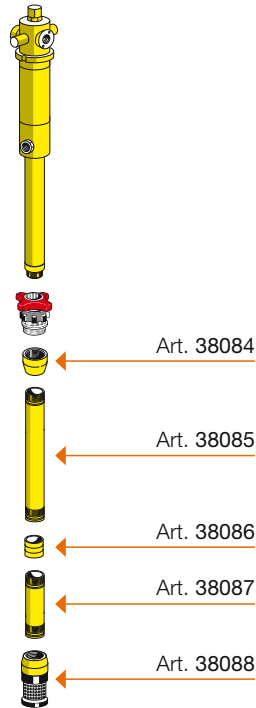
Art. 38084
Top connector F 1"
for connection between
pump and extension

Art. 38085
Extension ø 32 mm
- 500 mm

Art. 38086
Connector to joint together
to extensions

Art. 38087
Extension ø 32 mm
- 200 mm

Art. 38088
Foot valve
complete with union and
filter

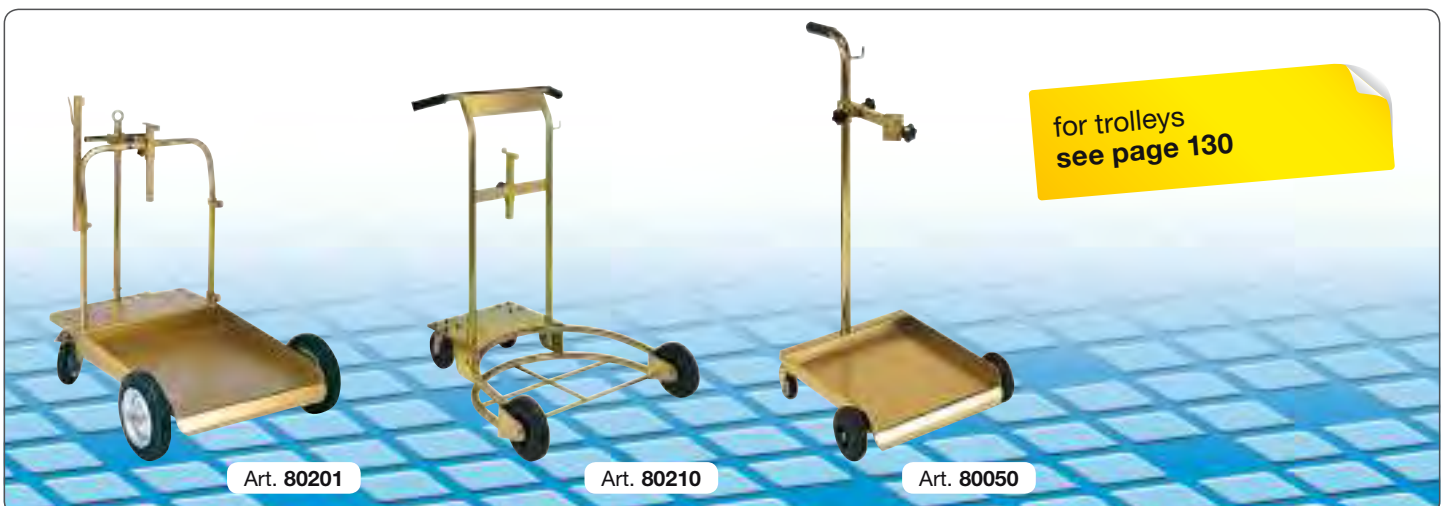
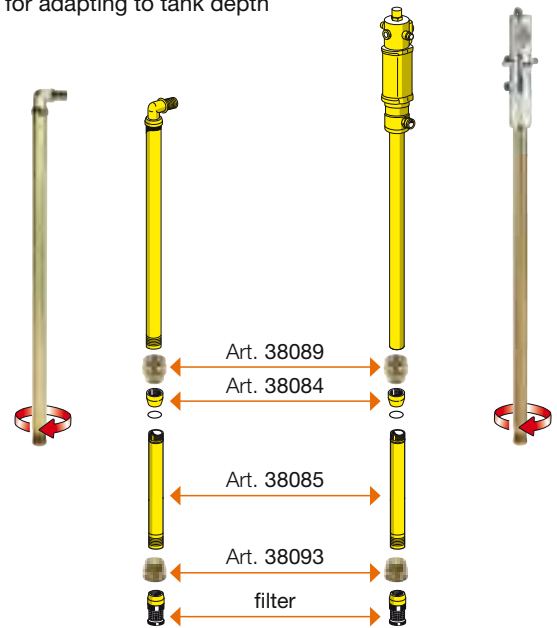


Art. 38089
**Differentiated union with
valve** for suction tubes
ø 42 mm with the foot
valve removed it enables
connection between the
suction tube and the modular
extensions

Art. 38093
Union for foot valve
it connects the modular
extension, added to
the suction tube, to the
previously removed foot
valve

Suction tube bottom connections

Extension of the rigid suction
tube for adapting to tank depth



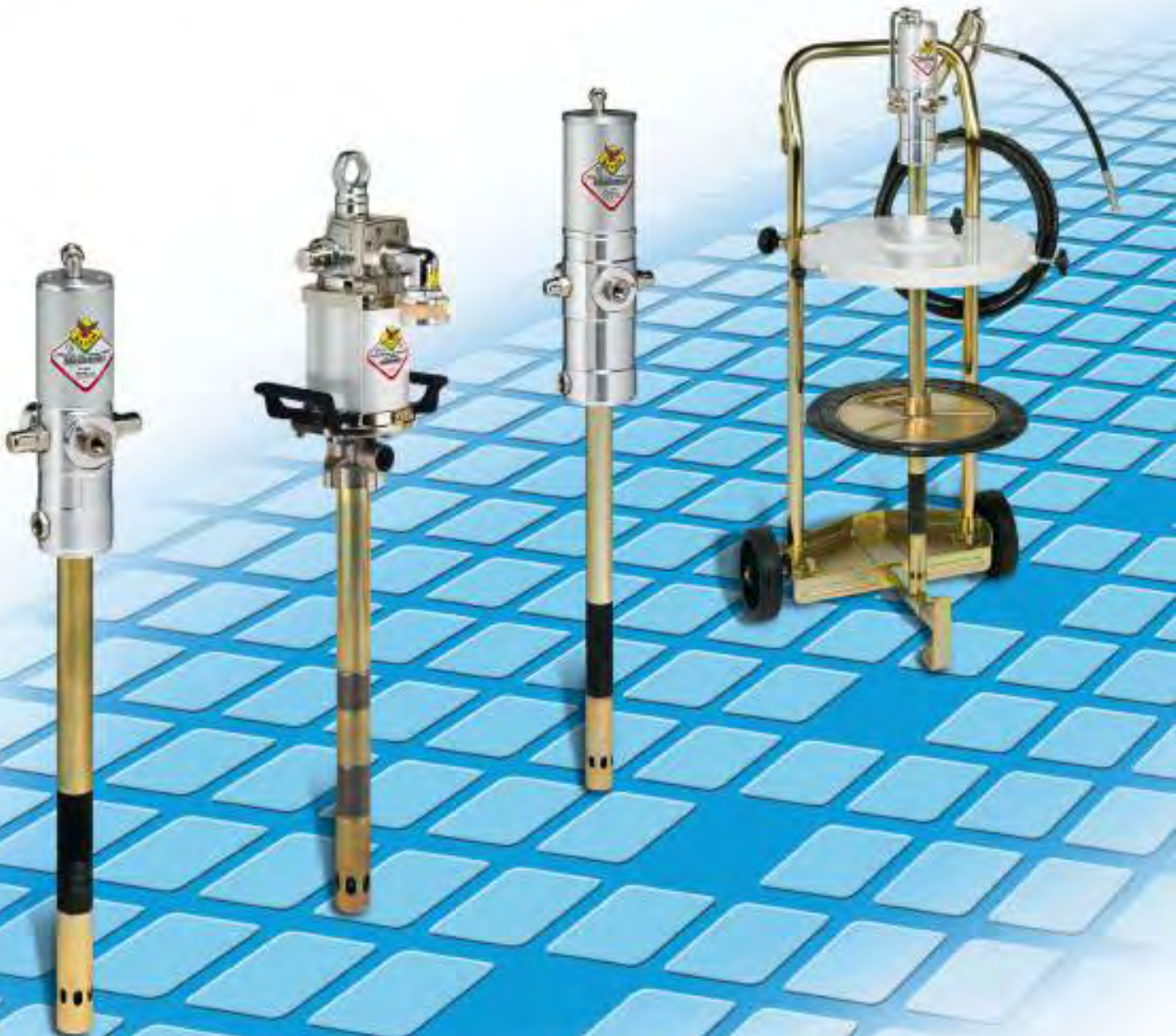
Art. 80201

Art. 80210

Art. 80050



FLUIDS AND LUBRICATION EQUIPMENT

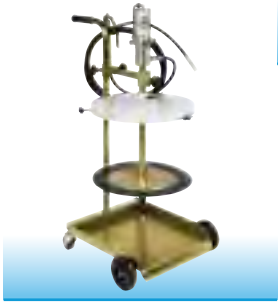


Grease dispensing pumps



AIR-OPERATED GREASE PUMPS

page 116



GREASING KIT

page 120

5



GUNS AND ACCESSORIES

page 126



TROLLEYS FOR CONTAINERS 20 - 220 KG

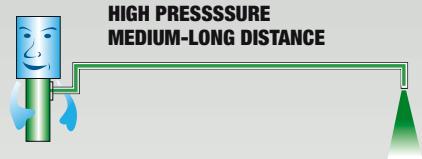
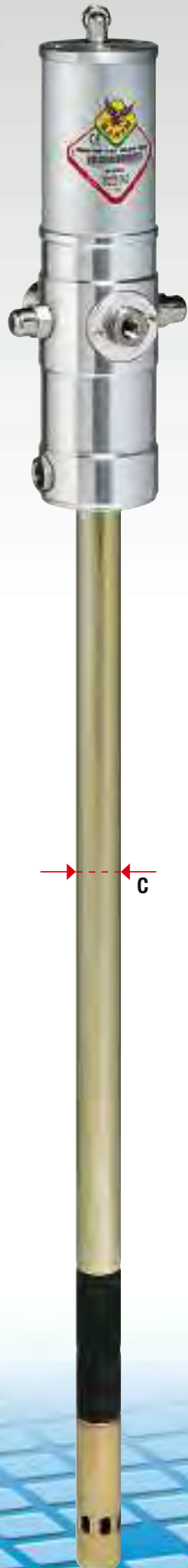
page 130



Air-operated pumps for DISTRIBUTION

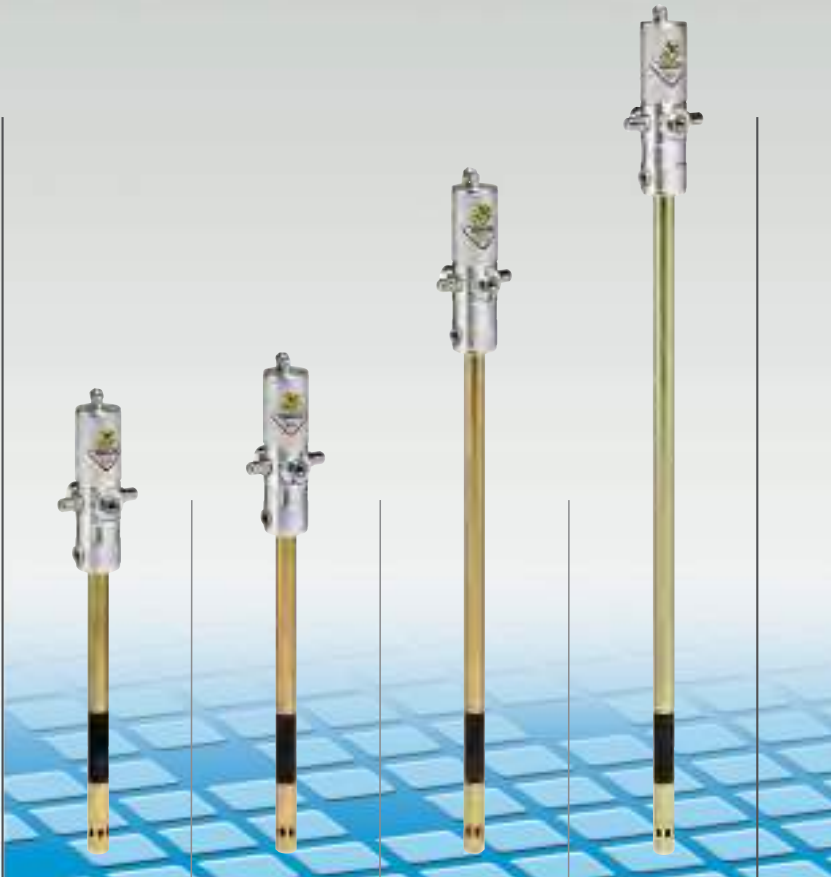
grease

Ratio **50:1** Flow rate **1500 g/min**



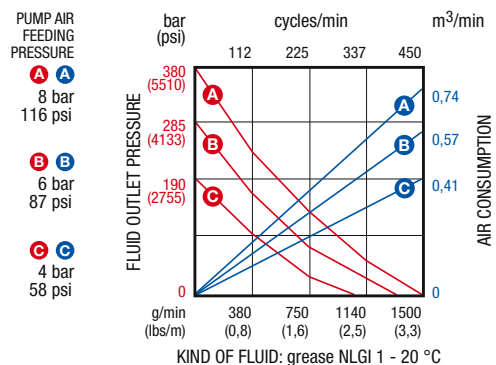
**HIGH PRESSURE
MEDIUM-LONG DISTANCE**

Series 600 air-operated pumps for short-long distance grease distribution, for high pressure greasing. Ideal for dispensing medium-high viscosity grease. Suitable for mobile installations and centralised fixed systems.

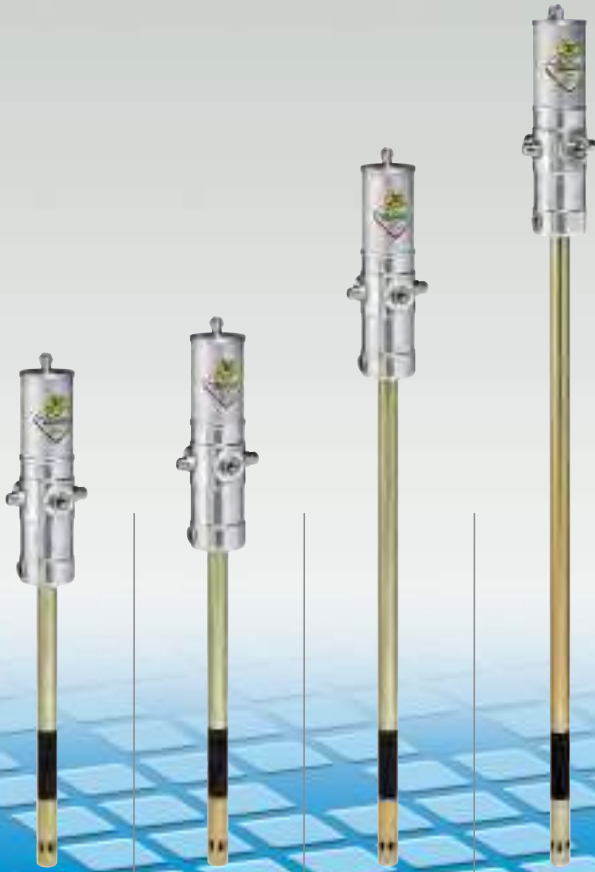


series 600

Article with seals in	PU	62041	62048	62074	62095
Compatible fluids		Greases, medium-high viscosity			
Suction tube upper body		Aluminium			
Suction tube		Carbon steel			
Air inlet connection	bsp	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp	F 3/8" G	F 3/8" G	F 3/8" G	F 3/8" G
Air working pressure	bar	6 - 8	6 - 8	6 - 8	6 - 8
Average air consumption	l/min	330	330	330	330
Noise level	dB	81	81	81	81
Air max pressure	bar	8	8	8	8
Suitable for drums	Kg	16 - 20	20 - 30	50 - 60	180 - 220
Pump	Art.	-	-	-	-
Hose reel	Art.	-	-	-	-
Gun	Art.	-	-	-	-
Drum cover	Art.	-	-	-	-
Follower plate	Art.	-	-	-	-
Connection hose	Art.	-	-	-	-
Nipple	Art.	-	-	-	-
Drip-tray	Art.	-	-	-	-
Packing	N° - m ³	1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
Weight	Kg	4,6	4,8	6,1	6,7
Dimensions (A - B - C)	cm	26,5 - 41 - 3	26,5 - 48 - 3	26,5 - 74 - 3	26,5 - 94 - 3



Ratio **65:1** Flow rate **1900 g/min**



series **700**

63041 **63048** **63074** **63095**

Greases, medium-high viscosity

Aluminium

Carbon steel

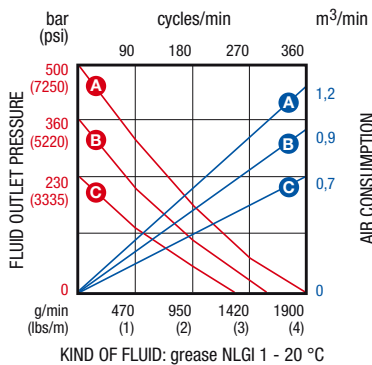
F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 3/8" G	F 3/8" G	F 3/8" G	F 3/8" G
6 - 8	6 - 8	6 - 8	6 - 8
440	440	440	440
81	81	81	81
8	8	8	8
16 - 20	20 - 30	50 - 60	180 - 220
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
5,9	6,1	7,4	8,2
33,5 - 41 - 3	33,5 - 48 - 3	33,5 - 74 - 3	33,5 - 94 - 3

PUMP AIR FEEDING PRESSURE

A 8 bar 116 psi

B 6 bar 87 psi

C 4 bar 58 psi



Ratio **50:1** Flow rate **1500 g/min**



series **600**

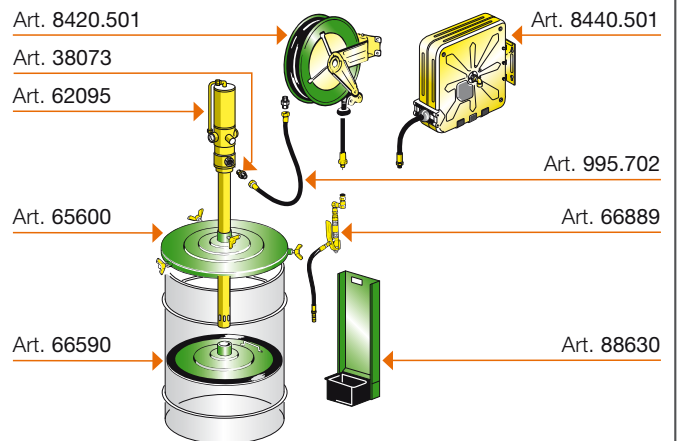
64200 **64210**

Greases, medium-high viscosity

Aluminium

Carbon steel

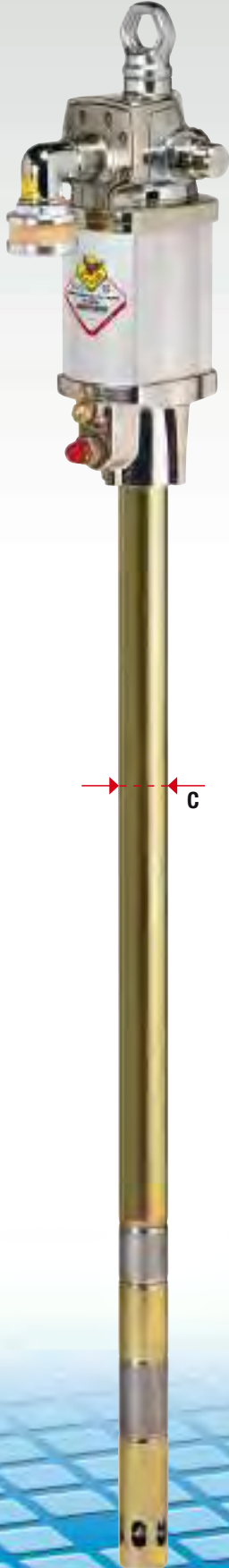
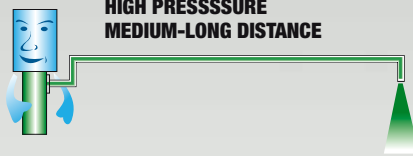
F 1/4" G	F 1/4" G
F 3/8" G	F 3/8" G
6 - 8	6 - 8
330	330
81	81
8	8
180 - 220	180 - 220
62095	62095
8420.501	8440.501
66889	66889
65600	65600
66590	66590
995.702	995.702
38073	38073
88630	88630
4 - 0,150	4 - 0,160
66,8	72





Air-operated pumps for DISTRIBUTION grease

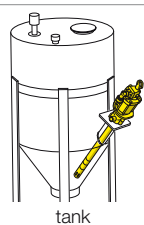
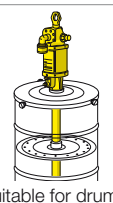
Ratio 45:1
Flow rate 4400 g/min

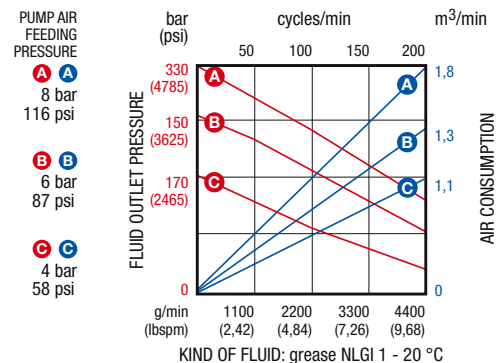
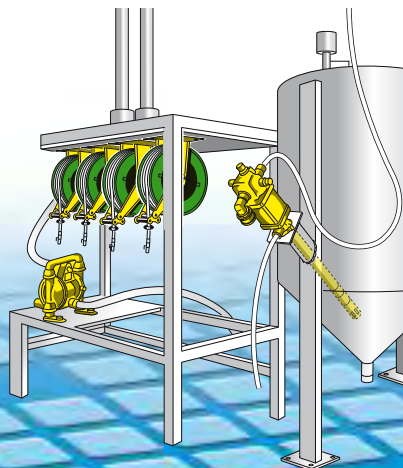


Series 900 industrial air-operated pumps for short-long distance grease distribution, for high pressure greasing. Ideal for transferring grease and high viscosity oil. The double action guarantees the delivery of a continuous and constant flow, suitable for the numerous needs of modern industry. The high quality of the materials used and the anticorrosion treatments reduce internal friction and limit wear over time.



series 900

Article with seals in	PU	90F/451	91F/451
Compatible fluids		Greases, high viscosity oils	
Suction tube upper body		Carbon steel	
Suction tube		Carbon steel	
Air inlet connection	bsp	F 1/2" G	F 1/2" G
Fluid outlet connection	bsp	F 1/2" G	F 1/2" G
Flow rate	g/min	4400	4400
Max air consumption 8 bar	m ³ /min	1,6	1,6
Noise level	dB	80	80
Air max pressure	bar	8	8
Suitable for drums		 tank	 suitable for drums 180-220 Kg
Packing	N° - m ³	1 - 0,050	1 - 0,070
Weight	Kg	17	19
Dimensions (A - B - C)	cm	44,5 - 50 - 4,5	44,5 - 94 - 4,5



Ratio 70:1
Flow rate **3000 g/min**



Ratio 75:1
Flow rate **4400 g/min**



Ratio 40:1
Flow rate **10000 g/min**



with ram hoist Art.10/85
10/12401P1N

series 900

series 1200

91C/701

116F/751

117F/751

Greases, high viscosity oils

Greases, high viscosity oils

Aluminium

Carbon steel

Carbon steel

F 1/2" G

F 1/2"

F 1/2"

F 1/2" G

F 1/2"

F 1/2"

3000

4400

4400

1,6

2,8

2,8

80

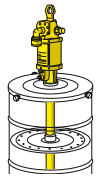
80

80

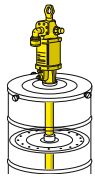
8

8

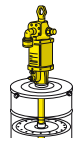
8



suitable for drums
180-220 Kg



suitable for drums
180-220 Kg



suitable for drums
50-60 Kg

1 - 0,070

1 - 0,070

1 - 0,070

19

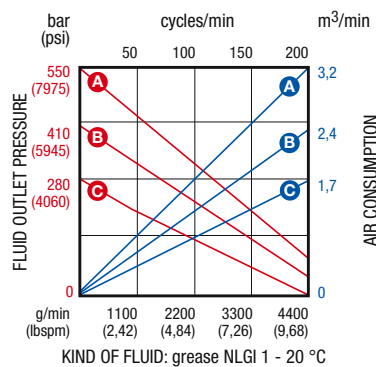
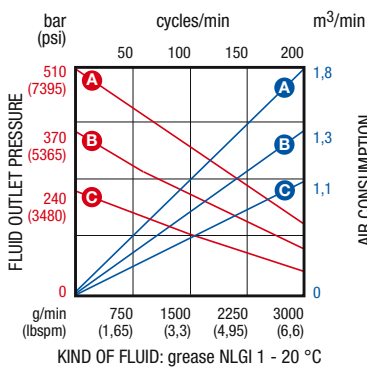
21

20

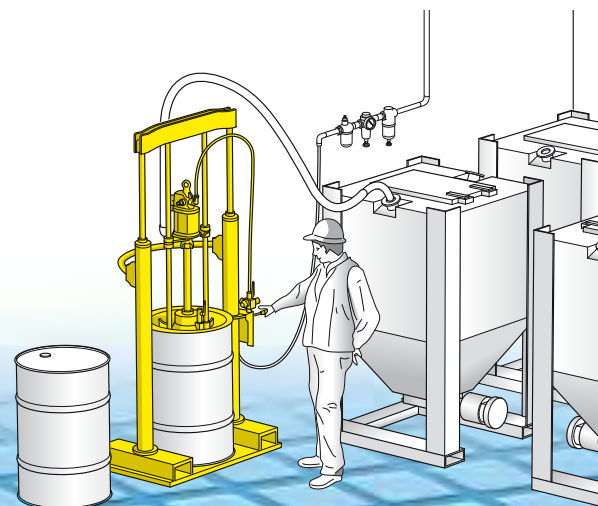
43 - 94 - 4,5

44,5 - 94 - 4,5

44,5 - 74 - 4,5



example of pump installation on a twin column ram hoist. For more info see page 212





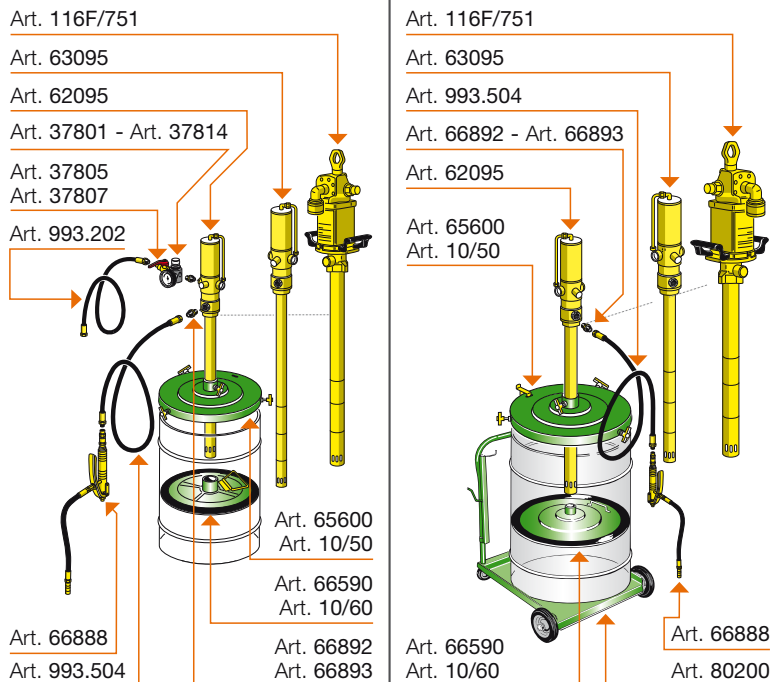
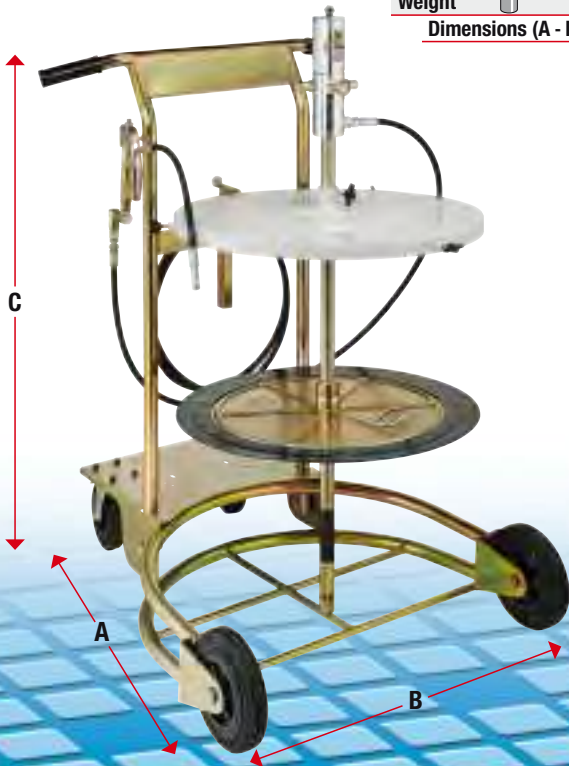
Mobile or fixed grease dispensing kits suitable for drums 180 - 220 kg

Mobile grease dispenser kits.

The ideal combination for dispensing grease in any workplace. The very easy to handle trolley is equipped with a drum (180 - 220 kg) clamping device, adjustable side support for hooking accessories, and wheel with brake. The mobile unit comes with a handy hose reel with 12 m of hose. By request the mobile unit can be equipped with other hose reels (see page 142).



Article	64195	64196	64197	64070	64070/65	64070/75
Ratio	50:1	65:1	75:1	50:1	65:1	75:1
Flow rate g/min	1500	1900	4400	1500	1900	4400
For drums with internal ø mm	from 550 to 600			from 550 to 600		
Pump Art.	62095	63095	116F/751	62095	63095	116F/751
Trolley Art.	-	-	-	80200	80200	80200
Hose reel o tubo erogazione Art.	993.504	993.504	993.504	993.504	993.504	993.504
Gun Art.	66888	66888	66888	66888	66888	66888
Drum cover Art.	65600	65600	10/50	65600	65600	10/50
Follower plate Art.	66590	66590	10/60	66590	66590	10/60
Grease connecting hose Art.	-	-	-	-	-	-
Air connecting hose Art.	993.202	993.202	996.302	-	-	-
Nipple Art.	66892	66892	66893	66892	66892	66893
Air regulator Art.	37801	37801	37814	-	-	-
Air quick coupler Art.	37805	37805	37807	-	-	-
Packing N° - m³	2 - 0,060	2 - 0,060	2 - 0,110	3 - 0,120	3 - 0,120	3 - 0,170
Weight kg	21	22,5	38	40,3	41,7	57
Dimensions (A - B - C) cm	60 - 60 - 120	60 - 60 - 127	60 - 60 - 138	67 - 77 - 131,5	67 - 77 - 131,5	67 - 77 - 131,5

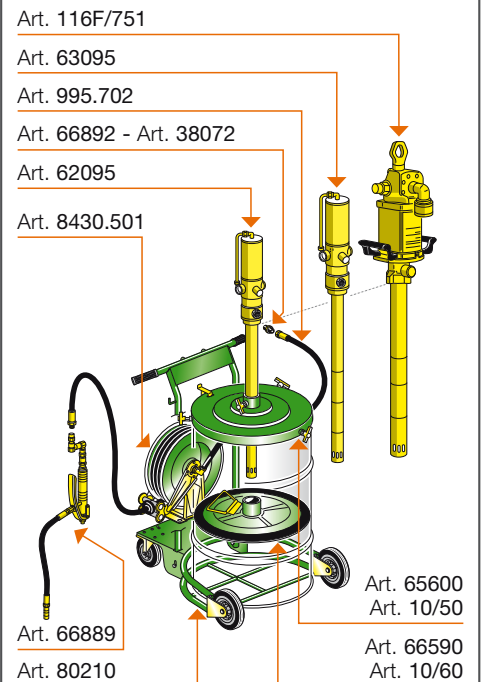
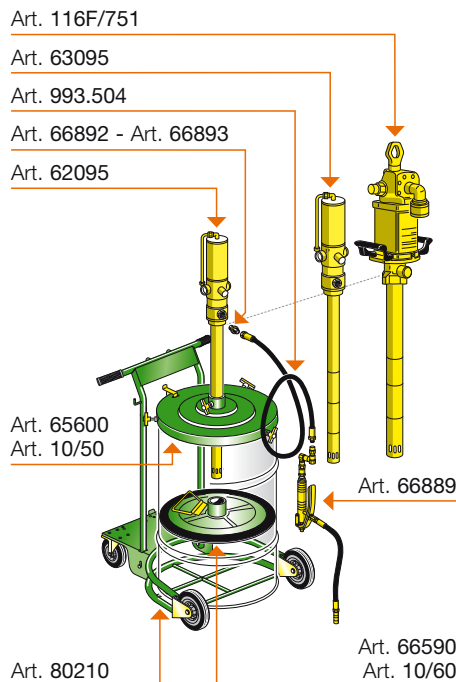
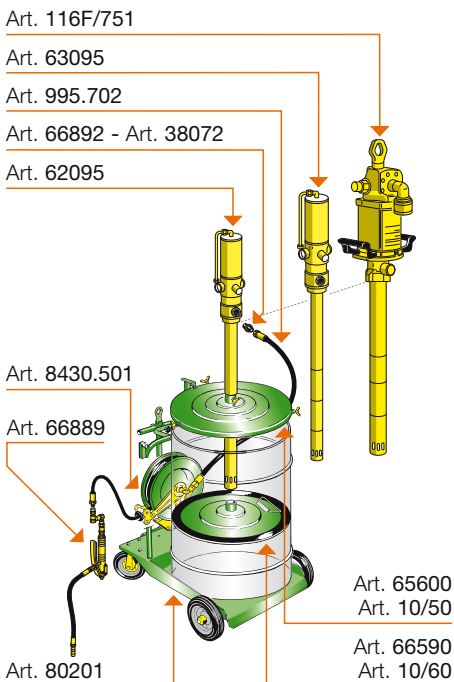


with hose reel

with hose reel



64000	64000/65	64000/75	64071	64071/65	64071/75	64001	64001/65	64001/75
50:1	65:1	75:1	50:1	65:1	75:1	50:1	65:1	75:1
1500	1900	4400	1500	1900	4400	1500	1900	4400
from 550 to 600			from 550 to 600			from 550 to 600		
62095	63095	116F/751	62095	63095	116F/751	62095	63095	116F/751
80201	80201	80201	80210	80210	80210	80210	80210	80210
8430.501	8430.501	8430.501	993.504	993.504	993.504	8430.501	8430.501	8430.501
66889	66889	66889	66889	66889	66889	66889	66889	66889
65600	65600	10/50	65600	65600	10/50	65600	65600	10/50
66590	66590	10/60	66590	66590	10/60	66590	66590	10/60
995.702	995.702	995.702	-	-	-	995.702	995.702	995.702
-	-	-	-	-	-	-	-	-
66892	66892	38072	66892	66892	66893	66892	66892	38072
-	-	-	-	-	-	-	-	-
4 - 0,234	4 - 0,234	4 - 0,285	3 - 0,120	3 - 0,120	3 - 0,170	4 - 0,234	4 - 0,234	4 - 0,285
86	87,5	102	45,8	47,2	62,5	66,2	67,6	82,5
93 - 81 - 137	93 - 81 - 137	93 - 81 - 137	90 - 77 - 126	90 - 77 - 126	90 - 77 - 126	90 - 77 - 126	90 - 77 - 126	90 - 77 - 126



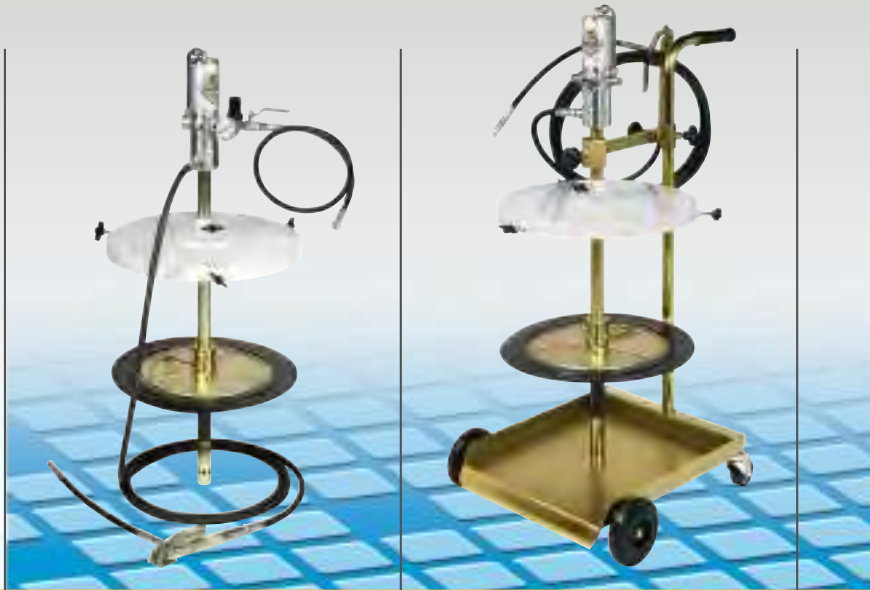


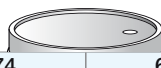



Mobile or fixed grease dispensing kits suitable for drums 50 - 60 kg

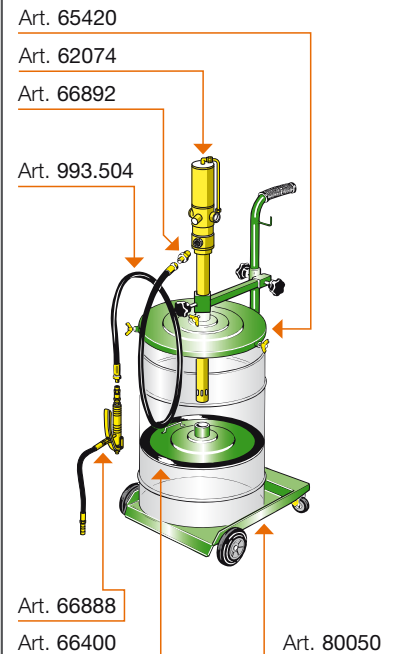
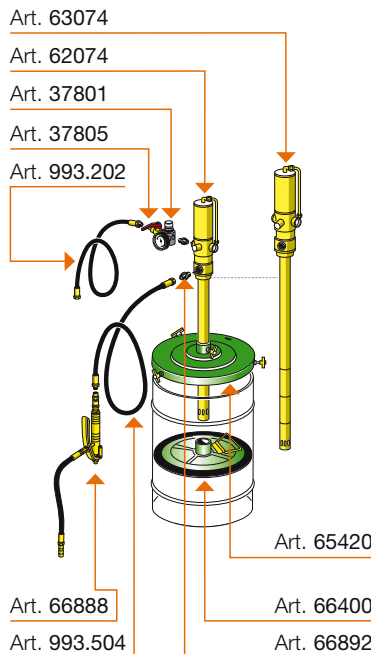
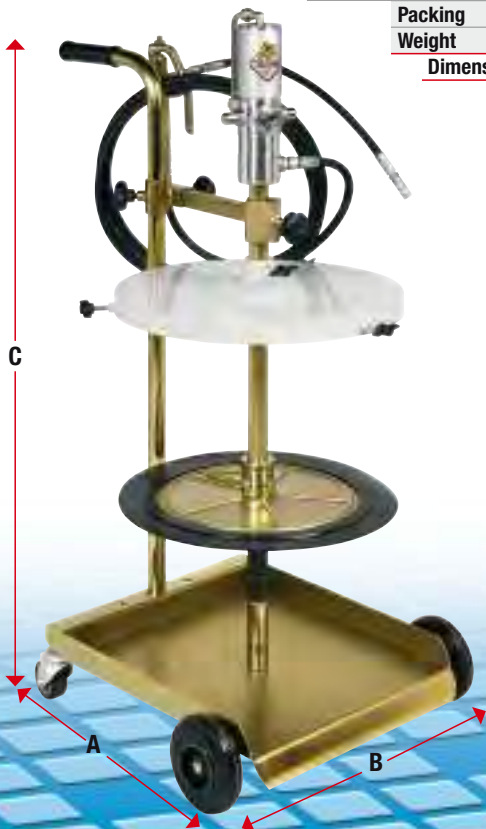
Mobile grease dispenser kits.

The ideal combination for dispensing grease in any workplace.

The compact trolley has 2 fixed wheels and 2 castors (Art. 80050) or only 2 fixed wheels (Art. 80040 and Art. 80035), that make it very easy to handle. It is equipped with a pump support and is suitable for small-medium size containers.

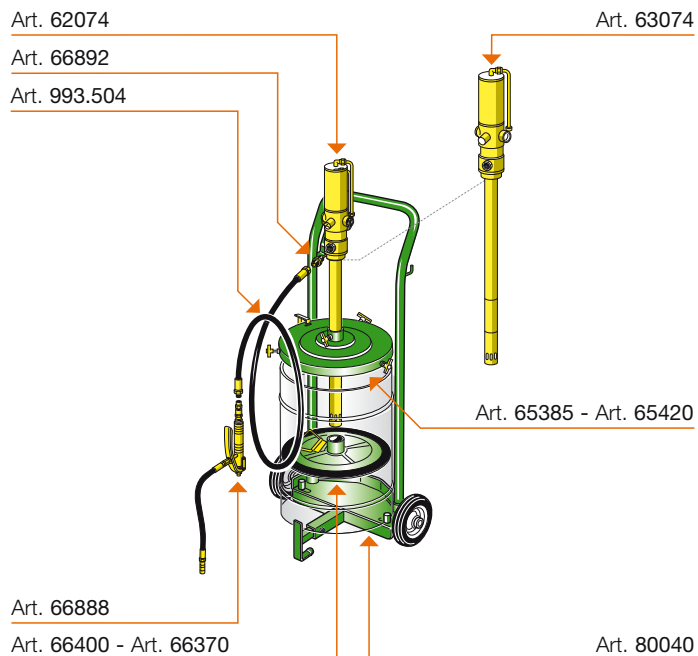
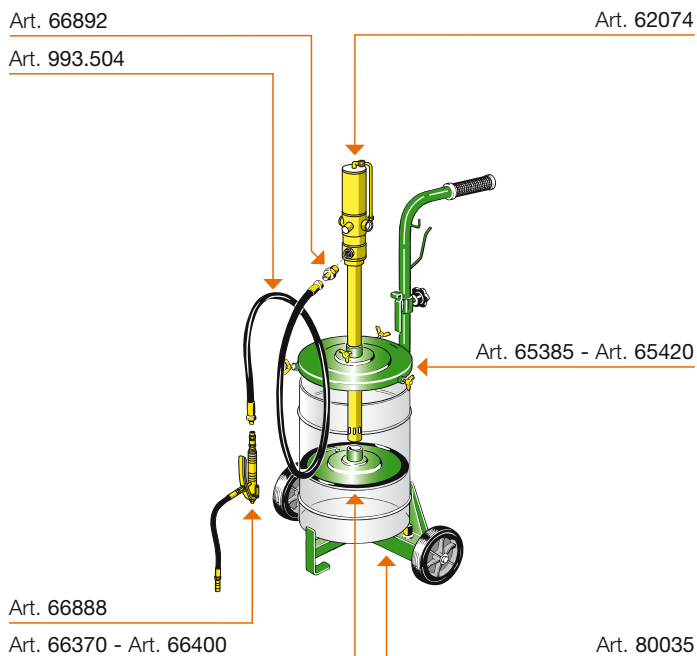


Article	64145	64146	64063	64064
Ratio	50:1	65:1	50:1	50:1
Flow rate g/min	1500	1900	1500	1500
For drums with internal ø	from 370 to 420 		from 370 to 420 	
Pump Art.	62074	63074	62074	62074
Trolley Art.	-	-	80050	80050
Delivery hose Art.	993.504	993.504	993.504	993.504
Air connecting hose Art.	993.202	993.202	-	-
Gun Art.	66888	66888	66888	66888
Drum cover Art.	65420	65420	65420	65420
Follower plate Art.	66400	66400	-	66400
Nipple Art.	66892	66892	66892	66892
Air regulator Art.	37801	37801	-	-
Air quick coupler Art.	37805	37805	-	-
Packing  N° - m ³	2 - 0,040	2 - 0,040	3 - 0,059	3 - 0,059
Weight  kg	17	18	19,5	22,4
Dimensions (A - B - C) cm	43 - 43 - 99	43 - 43 - 106	46 - 50 - 107,5	46 - 50 - 114,5





64040	64041	64037	64038	64042	64042/65	64039	64039/65
50:1	50:1	50:1	50:1	50:1	65:1	50:1	65:1
1500	1500	1500	1500	1500	1900	1500	1900
from 370 to 420		from 340 to 385		from 370 to 420		from 340 to 385	
62074	62074	62074	62074	62074	63074	62074	63074
80035	80035	80035	80035	80040	80040	80040	80040
993.504	993.504	993.504	993.504	993.504	993.504	993.504	993.504
-	-	-	-	-	-	-	-
66888	66888	66888	66888	66888	66888	66888	66888
65420	65420	65385	65385	65420	65420	65385	65385
-	66400	-	66370	66400	66400	66370	66370
66892	66892	66892	66892	66892	66892	66892	66892
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048	3 - 0,048
19	22	18	20	22	23,5	21	22,5
44 - 39,5 - 106	44 - 39,5 - 106	44 - 39,5 - 106	44 - 39,5 - 106	43 - 47,5 - 107,5	43 - 47,5 - 114,5	43 - 47,5 - 107,5	43 - 47,5 - 114,5





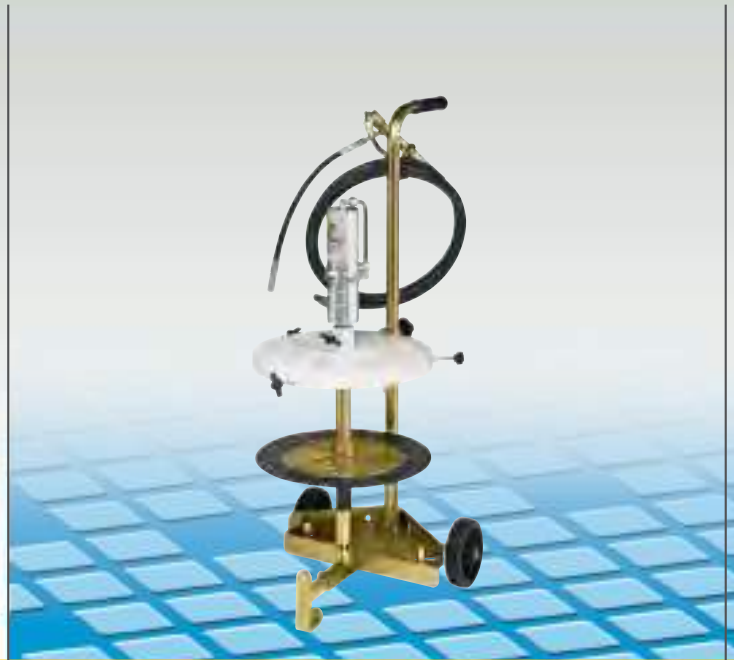
Mobile or fixed grease dispensing kits suitable for drums 12 - 30 kg

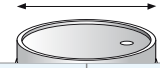
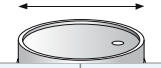


Mobile grease dispenser kits.

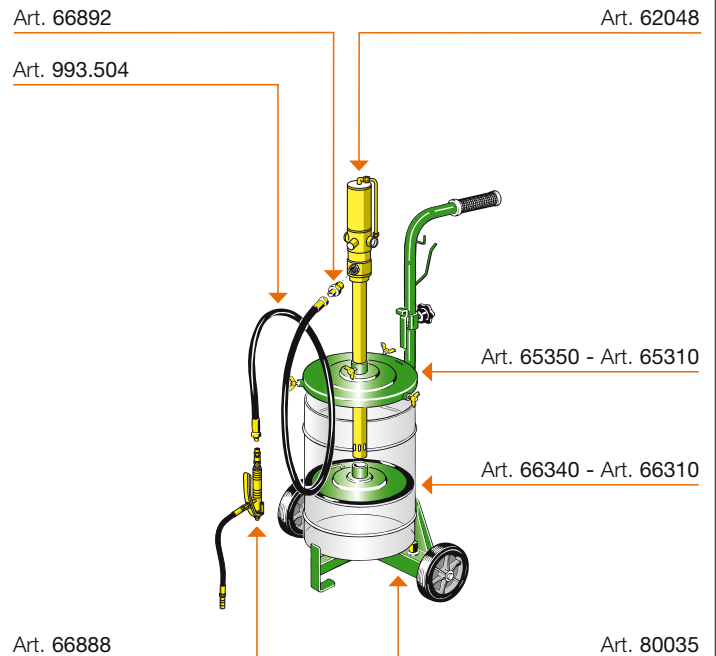
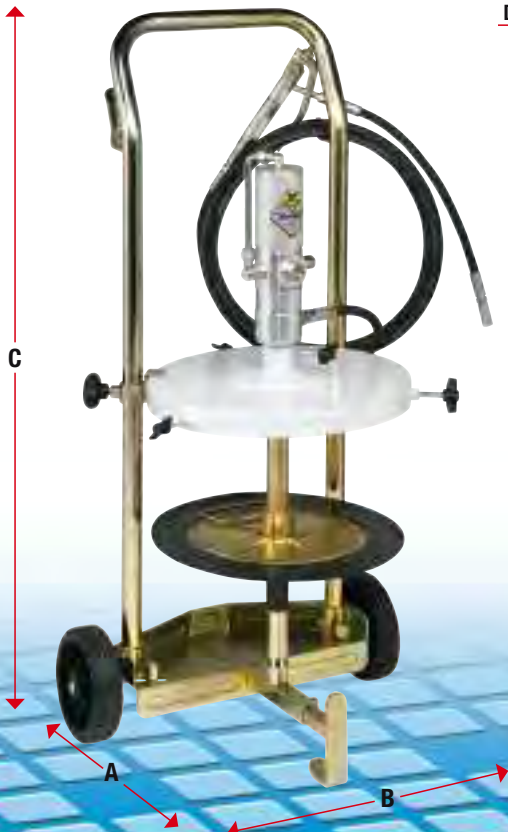
The ideal combination for dispensing grease in any workplace.

The compact trolley (Art. 80040 and Art. 80035) has 2 fixed wheels that make it very easy to handle.






It is equipped with a pump support and is suitable for small-medium size containers.

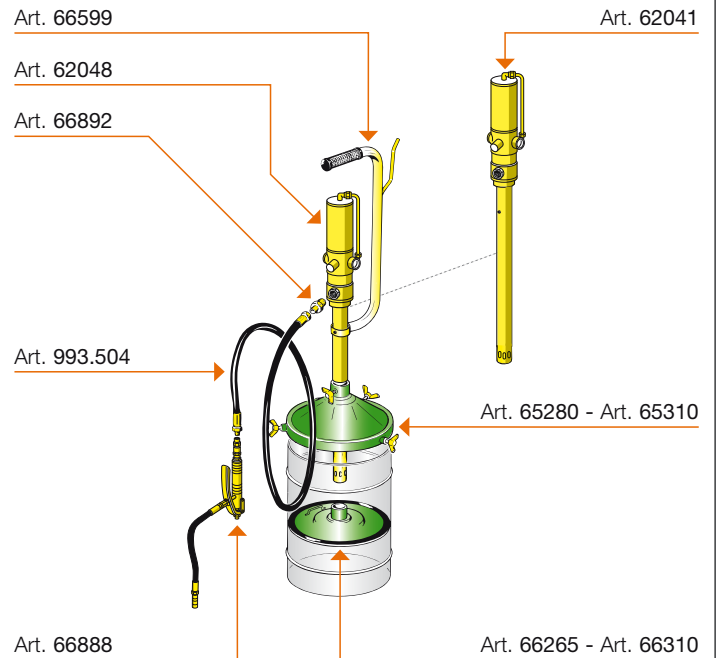
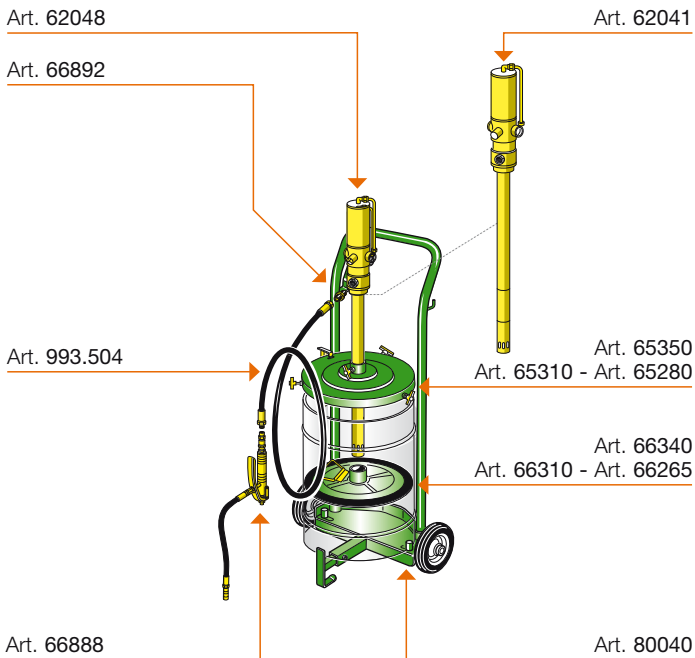


Article		64034	64035	64032	64033
Ratio		50:1	50:1	50:1	50:1
Flow rate	g/min	1500	1500	1500	1500
For drums with internal ø	mm	from 300 to 350 		from 260 to 300 	
Pump	Art.	62048	62048	62048	62048
Trolley	Art.	80035	80035	80035	80035
Delivery hose	Art.	993.504	993.504	993.504	993.504
Gun	Art.	66888	66888	66888	66888
Drum cover	Art.	65350	65350	65310	65310
Follower plate	Art.	-	66340	-	66310
Nipple	Art.	66892	66892	66892	66892
Kit carrying handle	Art.	-	-	-	-
Packing	 N° - m ³	3 - 0,040	3 - 0,040	3 - 0,040	3 - 0,040
Weight	 kg	15,9	17,5	15	17
Dimensions (A - B - C)	cm	44 - 39,5 - 99,5	44 - 39,5 - 99,5	44 - 39,5 - 99,5	44 - 39,5 - 99,5





64036	64033/40	64025	64031	64021
50:1	50:1	50:1	50:1	50:1
1500	1500	1500	1500	1500
from 300 to 350	from 260 to 300	from 240 to 280	from 260 to 300	from 240 to 280
				
62048	62048	62041	62048	62041
80040	80040	80040	-	-
993.504	993.504	993.504	993.504	993.504
66888	66888	66888	66888	66888
65350	65310	65280	65310	65280
66340	66310	66265	66310	66265
66892	66892	66892	66892	66892
-	-	-	66599	66599
3 - 0,040	3 - 0,040	3 - 0,040	2 - 0,025	2 - 0,030
18,5	18	17	11,4	11
43 - 47,5 - 99	43 - 47,5 - 99	43 - 47,5 - 99	33 - 33 - 74,5	30 - 30 - 67,5





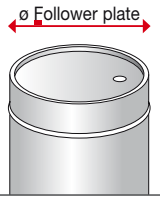
Accessories for grease pumps

Union \varnothing 30 mm



Follower plate for pumps series 600 - 700 with suction tube \varnothing 30

- Art. 66265 Follower plate \varnothing 265 mm (drum internal \varnothing 240 - 260 mm)
- Art. 66310 Follower plate \varnothing 310 mm (drum internal \varnothing 255 - 300 mm)
- Art. 66340 Follower plate \varnothing 340 mm (drum internal \varnothing 300 - 330 mm)
- Art. 66370 Follower plate \varnothing 370 mm (drum internal \varnothing 335 - 360 mm)
- Art. 66400 Follower plate \varnothing 400 mm (drum internal \varnothing 360 - 400 mm)
- Art. 66590 Follower plate \varnothing 585 mm (drum internal \varnothing 540 - 580 mm)

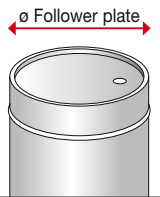


Union \varnothing 45 mm



Follower plate for pumps series 900 - 1200 with suction tube \varnothing 45

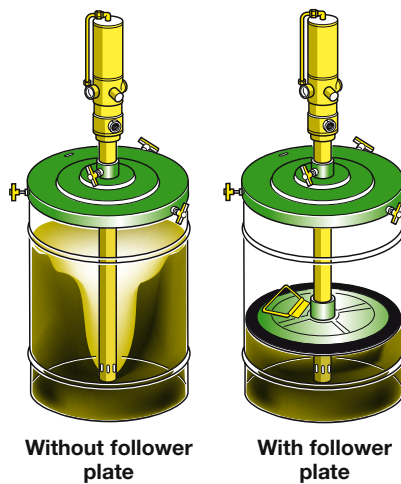
- Art. 10/60 Follower plate \varnothing 585 mm (drum internal \varnothing 540 - 580 mm)
- Art. 10/61 Follower plate \varnothing 400 mm (drum internal \varnothing 360 - 400 mm)
- Art. 10/62 Follower plate \varnothing 370 mm (drum internal \varnothing 335 - 360 mm)



The **follower plate** is always recommended but becomes indispensable when using particularly hard greases. The follower plate is pulled towards the bottom of the drum by the vacuum created by the pump and always ensures the following advantages:

- it compresses the grease, preventing air pockets from forming and possible cavitation of the pump
- it keeps the grease clean, as well as preserving its characteristics
- it enables collection of all the grease from the bottom of the drum, that would otherwise remain stuck to the sides

Details and advantages



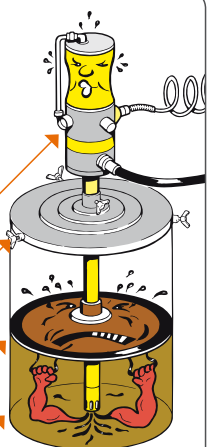
The atmospheric pressure at sea-level is 1 bar, equivalent to approx. 1 kg per cm^2 . When the pump sucks the grease from the container, a vacuum is created under the follower plate and, at the same time, depending on the width of its surface, a pressure from 370 kg to 2000 kg is created above it.

Pump

Drum cover

Follower plate

Vacuum created by pump sucking the grease



Union \varnothing 30 mm



Drum cover for pumps series 600 - 700 with suction tube \varnothing 30

- Art. 65280 Drum cover \varnothing 280 mm (drums external \varnothing 240 - 280 mm)
- Art. 65310 Drum cover \varnothing 310 mm (drums external \varnothing 260 - 300 mm)
- Art. 65350 Drum cover \varnothing 350 mm (drums external \varnothing 300 - 350 mm)
- Art. 65385 Drum cover \varnothing 385 mm (drums external \varnothing 340 - 385 mm)
- Art. 65420 Drum cover \varnothing 420 mm (drums external \varnothing 370 - 420 mm)
- Art. 65600 Drum cover \varnothing 600 mm (drums external \varnothing 550 - 600 mm)

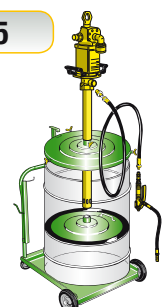


Union \varnothing 45 mm



Drum cover for pumps series 900 - 1200 with suction tube \varnothing 45

- Art. 10/50 Drum cover \varnothing 600 mm (drums external \varnothing 550 - 600 mm)
- Art. 10/51 Drum cover \varnothing 420 mm (drums external \varnothing 370 - 420 mm)
- Art. 10/52 Drum cover \varnothing 385 mm (drums external \varnothing 340 - 385 mm)





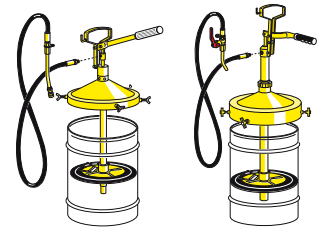
Accessories for grease pumps

Union \varnothing 25 - 30 - 38 mm



Drum cover for manual pumps with suction tube \varnothing 25 - 30 - 38

- Art. **65309** Drum cover \varnothing 337 mm
(drums external \varnothing 270 - 330 mm) for Art. 60311 (suction tube \varnothing 25 mm)
- Art. **65311** Drum cover \varnothing 337 mm
(drums external \varnothing 270 - 330 mm) for Art. 60411 (suction tube \varnothing 38 mm)
- Art. **65312** Drum cover \varnothing 337 mm
(drums external \varnothing 270 - 330 mm) for pumps with \varnothing 30 mm suction tube



- Art. **66891** Nipple M 1/4"G x
M 1/4"G tapered/cylindrical thread
- Art. **66892** Nipple M 1/4"G x
M 3/8"G cylindrical/cylindrical thread
- Art. **66893** Nipple M 1/4"G x
M 1/2"G cylindrical/cylindrical thread



- Art. **66739** 4-jaw grease coupler
with antisplash valve fitted standard
on manual grease pumps. Inlet M10x1
- Art. **66740** Special 4-jaw grease
coupler with antisplash valve fitted
standard on all grease guns. Inlet M10x1



- Art. **66895**
Nipple M 3/8"G x F 1/4"NPT
- Art. **66896**
Nipple M 1/4"G x F 1/4"NPT
- Art. **66897**
Nipple F 1/4"G x M 1/4"NPT



- Art. **66741**
90° grease coupler.
Inlet thread M10x1



- Art. **60450**
Female quick connector
complete with check valve -
F 1/4"G max pressure 350 bar

* articles not manufactured by us



- Art. **66742**
Hooking grease coupler.
Inlet thread M10x1



- Art. **60451**
Male quick connector
complete with check valve -
F 1/4"G max pressure 350 bar

* articles not manufactured by us



- Art. **66743**
Push-on grease coupler.
Inlet thread M10x1



- Art. **66661**
Straight single swivel joint
M/F 1/4" G supplied with grease
guns Art. 66888 - Art. 66881



- Art. **66663**
Triple swivel joint
M/F 1/4" G supplied with grease
guns Art. 66889 - Art. 66882



- Art. **66599**
Handle for portable grease kit
supplied with grease kits Art. 64020 -
Art. 64021 - Art. 64030 - Art. 64031



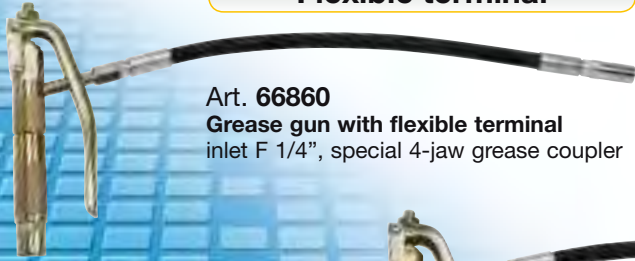
- Art. **993.201**
Hose M/F 1/4" - 1 m - 20 bar
- Art. **993.202**
Hose M/F 1/4" - 2 m - 20 bar
- Art. **993.504**
Hose M/F 1/4" - 4 m - 600 bar
- Art. **993.512**
Hose M/F 1/4" - 12 m - 600 bar
- Art. **993.518**
Hose M/F 1/4" - 18 m - 600 bar
- Art. **995.701**
Hose M/F 3/8" - 1 m - 600 bar
- Art. **995.702**
Hose M/F 3/8" - 2 m - 600 bar
- Art. **995.710**
Hose M/F 3/8" - 10 m - 600 bar
- Art. **995.715**
Hose M/F 3/8" - 15 m - 600 bar



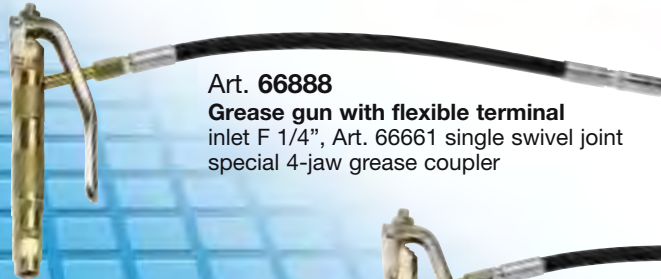
Grease guns



Flexible terminal



Art. 66860
Grease gun with flexible terminal
inlet F 1/4", special 4-jaw grease coupler



Art. 66888
Grease gun with flexible terminal
inlet F 1/4", Art. 66661 single swivel joint
special 4-jaw grease coupler



Art. 66889
Grease gun with flexible terminal
inlet F 1/4", Art. 66663 triple swivel joint
special 4-jaw grease coupler

Without terminal



Art. 66855
Grease gun
valve inlet F 1/4"

Rigid terminal



Art. 66880
Grease gun with rigid terminal
inlet F 1/4", with special 4-jaw
grease coupler



Art. 66881
Grease gun with rigid terminal
inlet F 1/4", Art. 66661 single swivel joint
with special 4-jaw grease coupler



Art. 66882
Grease gun with rigid terminal
inlet F 1/4", Art. 66663 triple swivel joint
with special 4-jaw grease coupler



Art. 66856
Flexible terminal with special 4-jaw grease coupler



Art. 66857
Rigid terminal with special 4-jaw grease coupler



Accessories for grease pumps

*

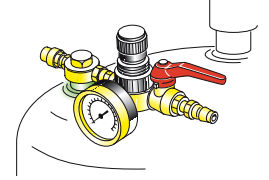


Art. 37801

Pressure regulator with pressure gauge, connections M/F 1/4"G. Applied on a pump or on the tank of a suction/drainer, for regulating the compressed air inlet pressure

Art. 37814

Pressure regulator with pressure gauge, connections M/F 1/2"G. Applied on a pump or on the tank of a suction/drainer, for regulating the compressed air inlet pressure



* articles not manufactured by us

*

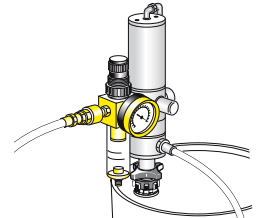


Art. 37810

Pressure regulator with condensate discharge filter and pressure gauge, connections F/F 1/4"G for application at the start of the compressed air line feeding the pump

Art. 37815

Pressure regulator with condensate discharge filter and pressure gauge, connections F/F 1/2"G for application at the start of the compressed air line feeding the pump



* articles not manufactured by us

*

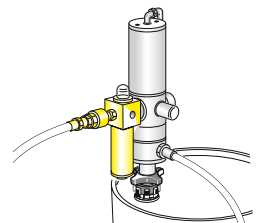


Art. 37811

Air lubricator, connections F/F 1/4"G. Its application guarantees better efficiency of the pump over time

Art. 37816

Air lubricator, connections F/F 1/2"G. Its application guarantees better efficiency of the pump over time



* articles not manufactured by us

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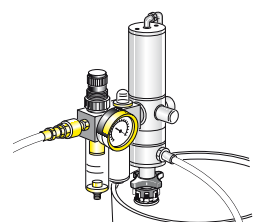


Art. 37812

Pressure regulator with condensate discharge filter, air lubricator and pressure gauge. Connections F/F 1/4"G the system guarantees that the pump feed air is free of condensate

Art. 37817

Pressure regulator with condensate discharge filter, air lubricator and pressure gauge. Connections F/F 1/2"G the system guarantees that the pump feed air is free of condensate



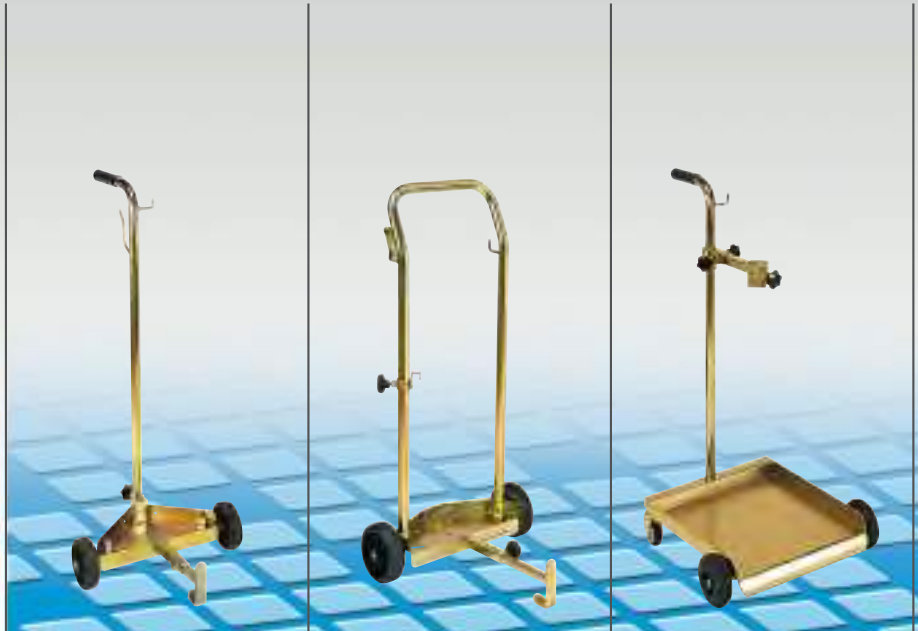
* articles not manufactured by us



MODULAR Trolleys

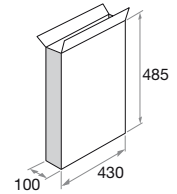
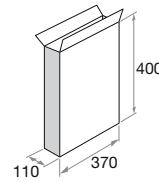
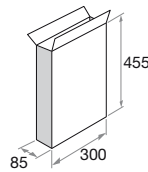
for drums 20 - 60 kg

Modular trolleys, entirely galvanised, suitable for handling 20 - 220 kg drums. Equipped with 2 or 4 high fluency wheels that make them very easy to handle. Their compact size ensures perfect integration in the workplace and their modularity enables compact packing for easy storage.

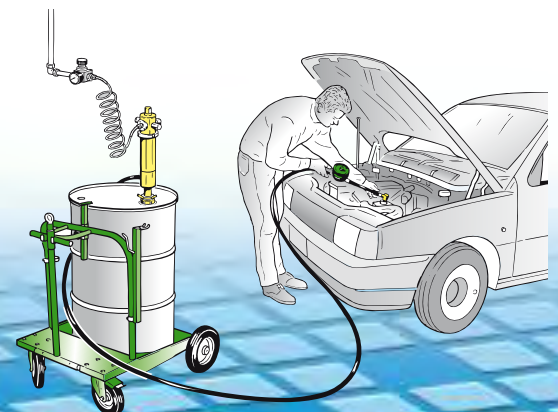
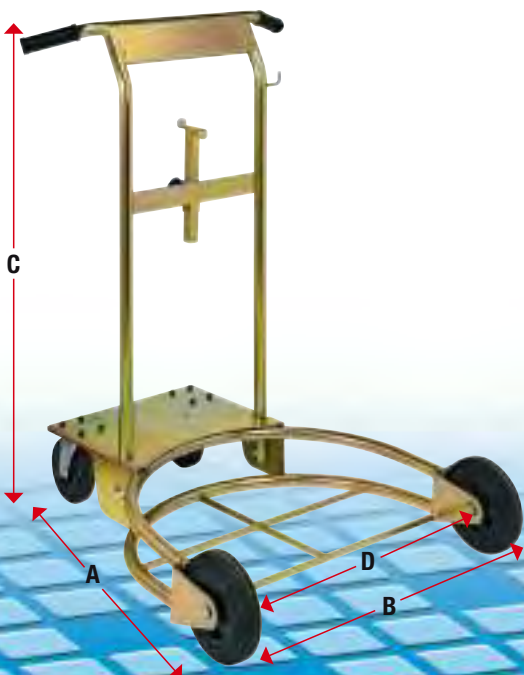
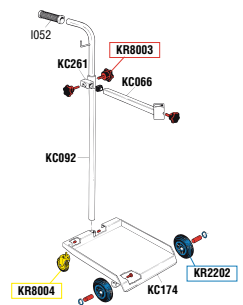
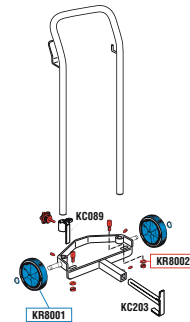
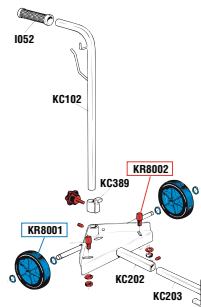


Article	80035	80040	80050
Suitable for drums	20 - 60	20 - 60	20 - 60
Packing N° - m ³	1 - 0,010	1 - 0,010	2 - 0,020
Weight Kg	5	6	9,2
For drums with max external (D) cm	39	44	39,5
Dimensions (A - B - C) cm	44 - 39,5 - 99,5	43 - 47,5 - 99	46 - 50 - 99

Packing dimensions



Modular structure





FLUIDS AND LUBRICATION EQUIPMENT



Service columns



FRONTAL SERVICE COLUMNS page 134



BILATERAL SERVICE COLUMNS page 136

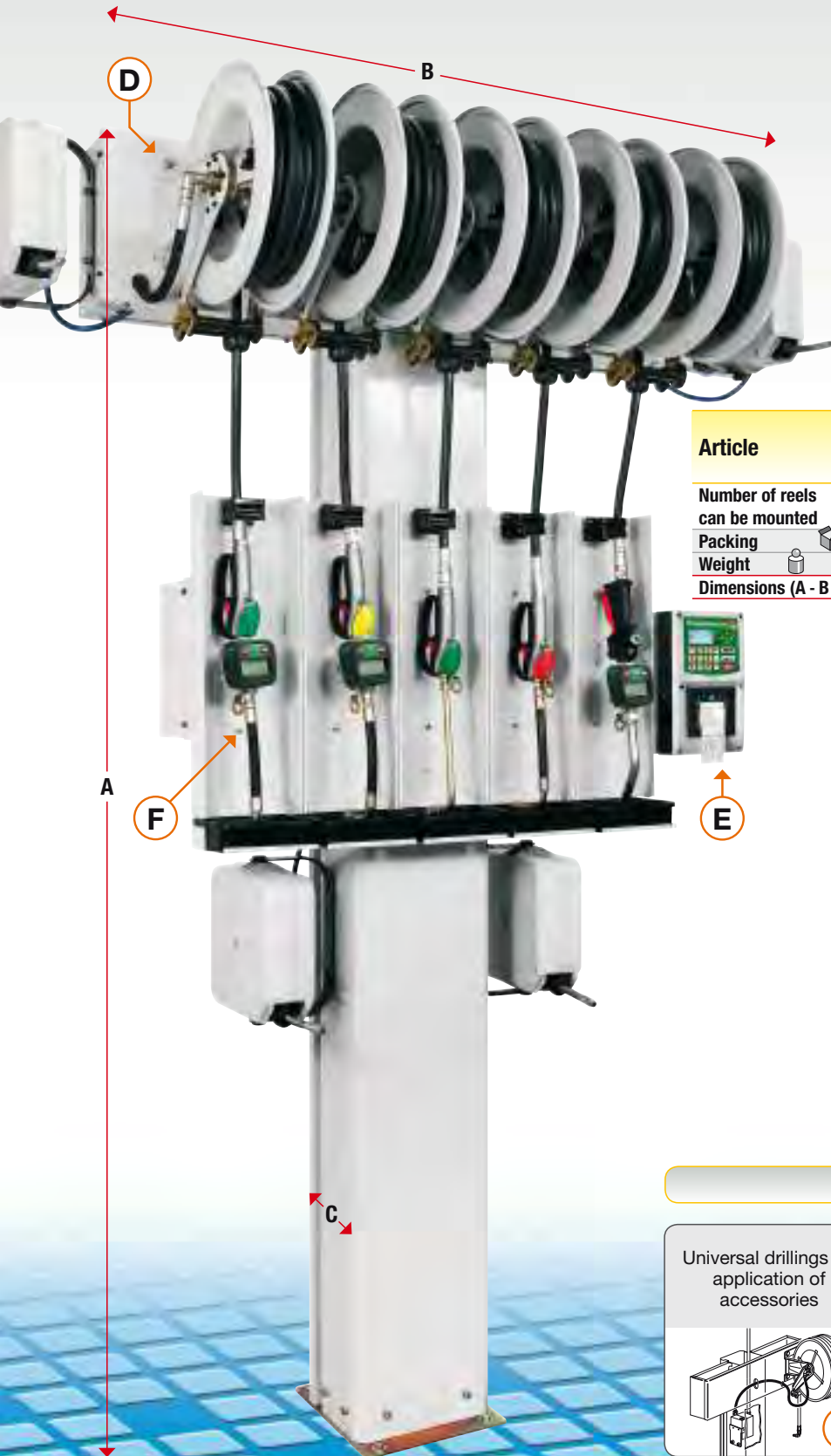




FRONTAL/BILATERAL SERVICE COLUMNS page 138



FRONTAL service columns

Frontal service columns. Ideal service stations for rationalising the areas dedicated to delivery. Installable on walls, connected to the centralised distribution system, they are real independent operational stations. Made from top quality materials, with scratchproof painting.



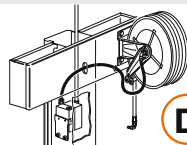
Article	39323	39334	39335
Number of reels can be mounted	3	4	5
Packing  N° - m ³	1 - 0,265	1 - 0,460	1 - 0,460
Weight  kg	54,5	84,5	91
Dimensions (A - B - C) cm	245 - 86 - 13	251 - 110 - 24	251 - 134 - 24

**Art. 88630
Modular drip-tray.**
Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace.



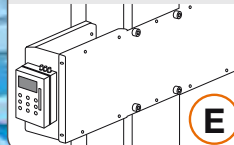
Details and advantages

Universal drillings for application of accessories



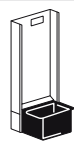
D

Arrangement for fixing the fluids control system



E

Holes for drip tray

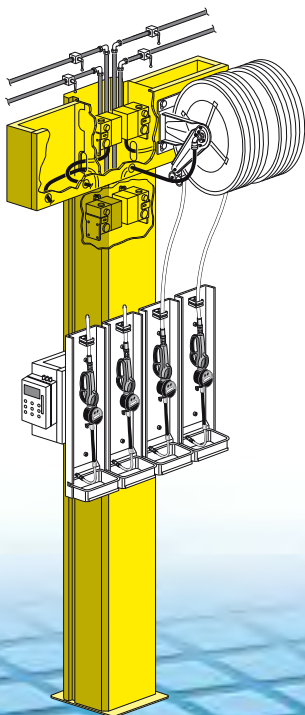


F

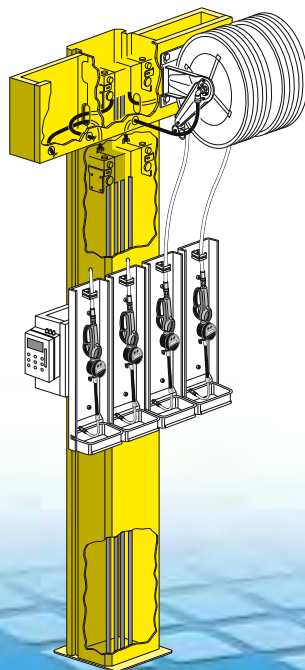


39322	39422 AISI 304 S. Steel	39320 for suction	39321	39421 AISI 304 S. Steel
2	2	1	1	1
1 - 0,265	1 - 0,265	1 - 0,265	1 - 0,265	1 - 0,265
48,5	44	41	42	37
245 - 62 - 13	245 - 62 - 13	245 - 29 - 12,5	245 - 29 - 12,5	245 - 29 - 12,5

The upper part of the support is arranged with holes for the application of hose reels series 330 - 390 - 430 - 450 - 530 and solenoid valves for stopping the fluid. The drip-tray can be applied frontally.



Ceiling installation



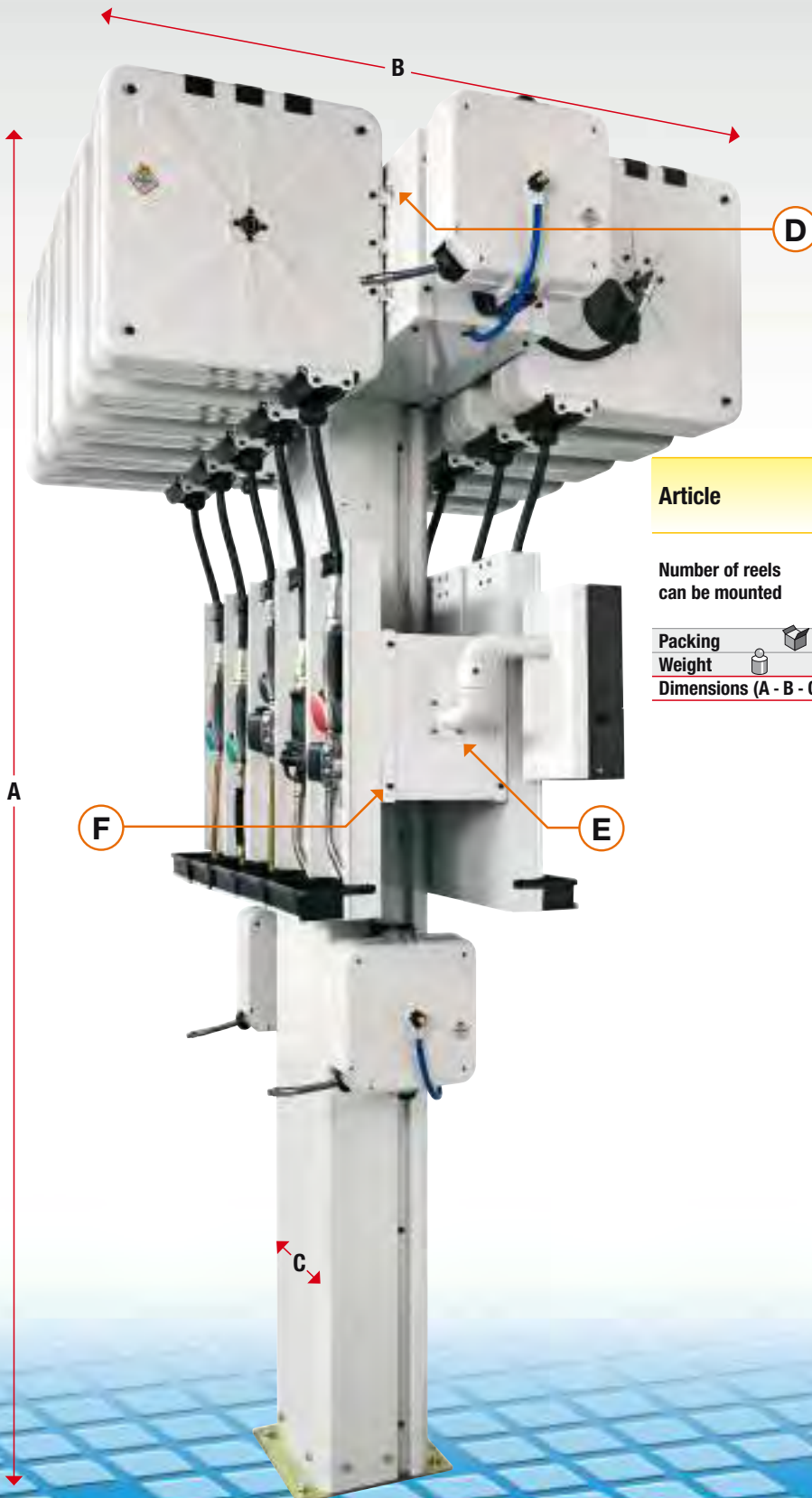
Floor installation







BILATERAL service columns

Bilateral service columns, usable from both sides for access. Installable anywhere in the workplace, connected to the centralised distribution system, they are real independent operational stations. Made from top quality materials, with scratchproof painting, and full width drip trays.

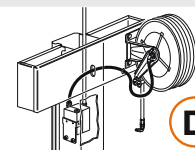


Article	39336	39338	39340
Number of reels can be mounted	3 + 3 + (2 hose reel S. 260)	4 + 4 + (2 hose reel S. 260)	5 + 5 + (2 hose reel S. 260)
Packing  N° - m ³	1 - 0,460	1 - 0,460	1 - 0,460
Weight  kg	86	94	101
Dimensions (A - B - C) cm	251 - 86 - 24	251 - 110 - 24	251 - 134 - 24

The upper part of the support is arranged with holes for the application of hose reels series 330 - 390 - 430 - 450 - 530 and solenoid valves for stopping the fluid. The drip-tray can be applied frontally.

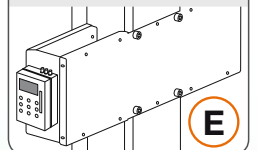
Details and advantages

Universal drillings for application of accessories



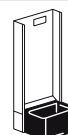
D

Arrangement for fixing the fluids control system



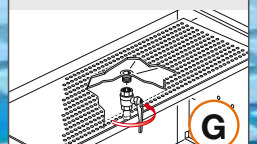
E

Holes for drip tray



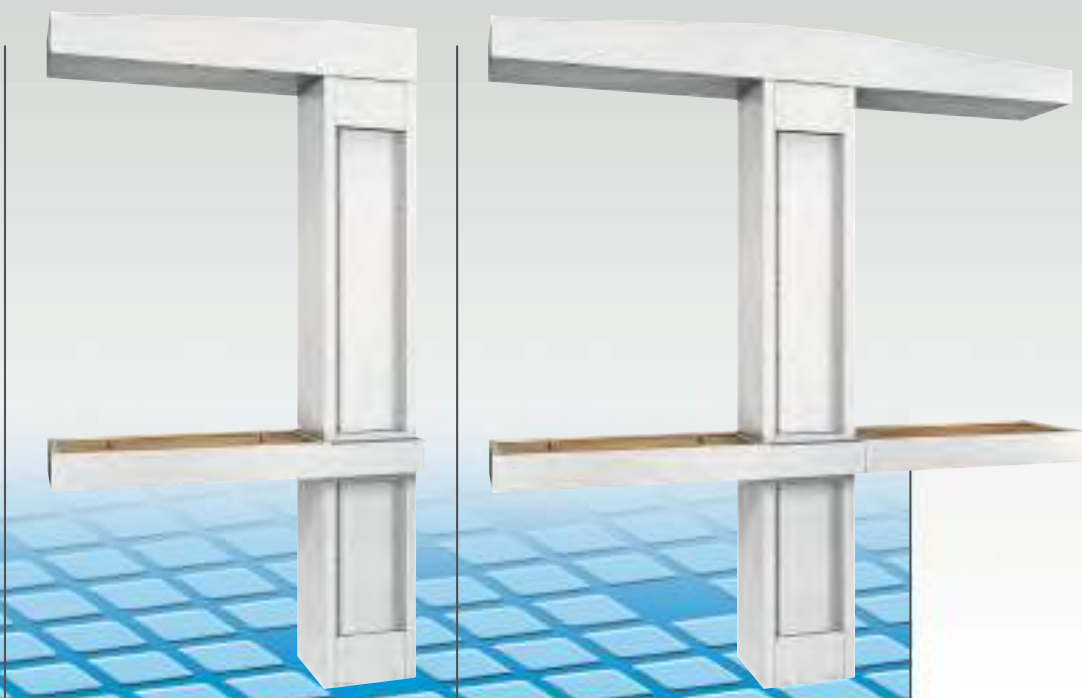
F

Drip-tray

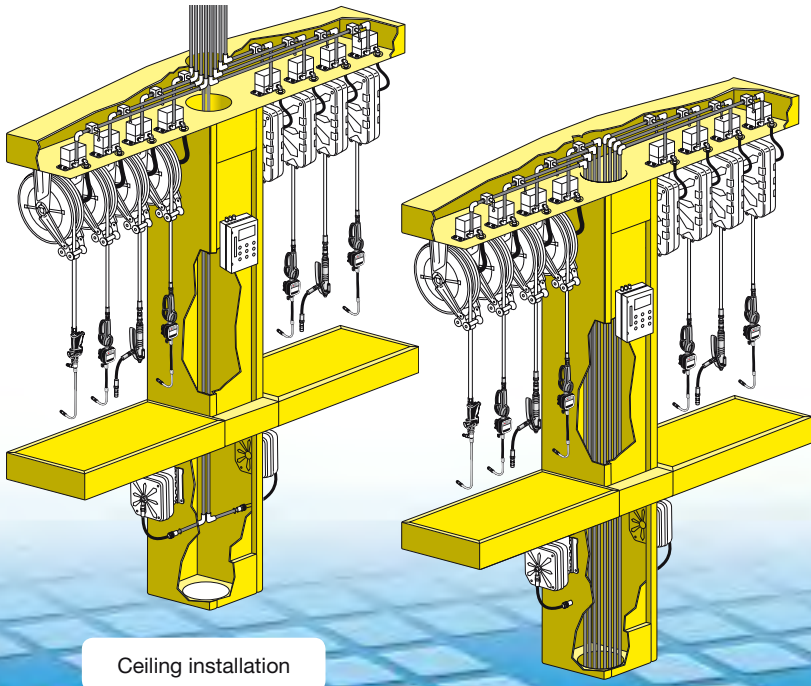


G

Art. 88630
Modular drip-tray.
 Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace.

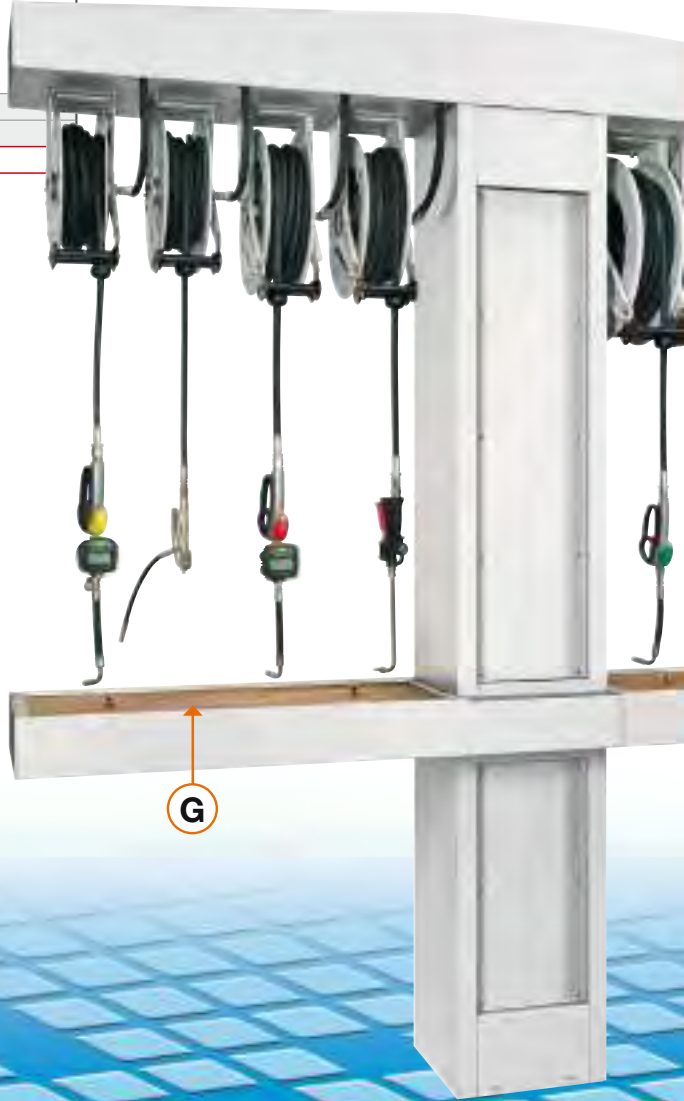


39324	39328
4 + (2 hose reel S. 260)	8 + (2 hose reel S. 260)
1 - 1,035 228	1 - 1,035 276
268,5 - 145,2 - 50,5	268,5 - 250,3 - 50,5



Ceiling installation

Floor installation

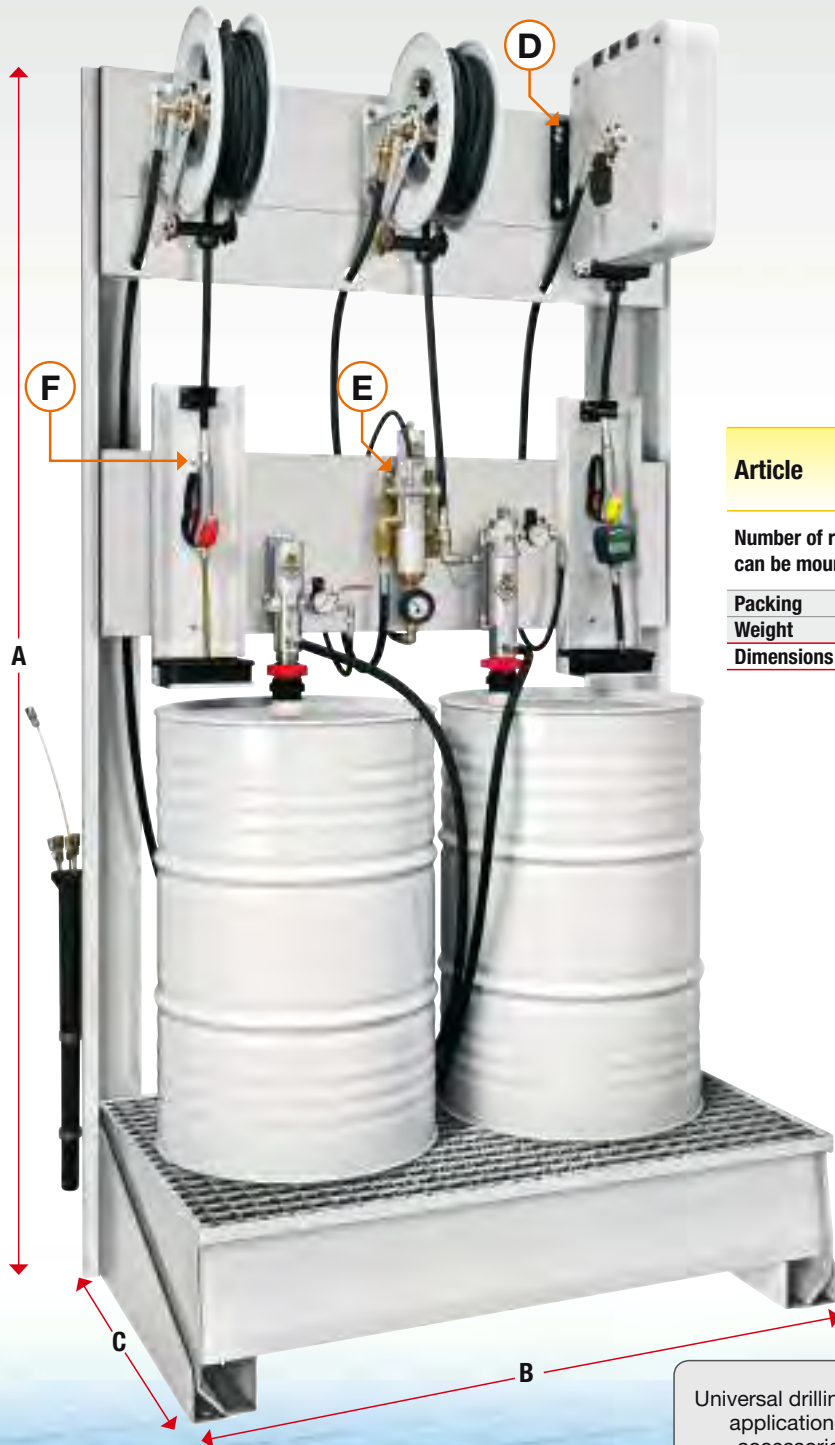






FRONTAL/BILATERAL service columns

Frontal, bilateral service column or with containment tank.



Ideal service stations for rationalising the areas dedicated to delivery. Able to collect any leaks or accidental spills, by means of the containment tanks, in compliance with the new regulations. Installable on walls, they are real independent operational stations. Made from top quality materials, with scratchproof painting.



Article	39351	39352
Number of reels can be mounted	2 hose reel + 1 drum 180-220 kg	3 hose reel + 2 drums 180-220 kg
Packing  N° - m ³	2 - 1,080	2 - 1,120
Weight  kg	161	183,5
Dimensions (A - B - C) cm	260 - 110 - 89,5	260 - 145 - 89,5



Art. 39901

Containment tank 1 drum 180 - 220 Kg (capacity 197 litre)

 N°1 packing m³ 0,525  Kg 51

Art. 39902

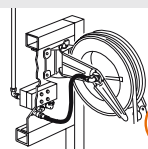
Containment tank 2 drum 180 - 220 Kg (capacity 266 litre)

 N°1 packing m³ 0,670  Kg 64,5



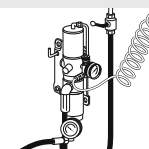
Details and advantages

Universal drillings for application of accessories



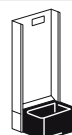
D

Holes for application of alternative pump



E

Holes for drip tray



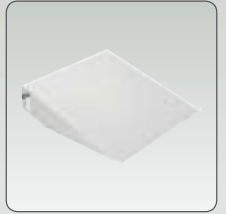
F

Accessories for Art. 39314 - 39317



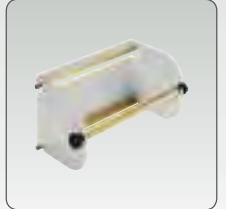
Art. 39405
PC holder for service columns

📦 N°1 packing m³ 0,019
🏋️ Kg 3,6



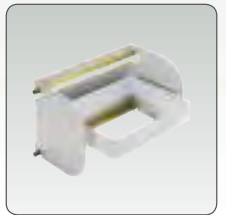
Art. 39406
Paper holder for service columns

📦 N°1 packing m³ 0,044
🏋️ Kg 3,3



Art. 39407
Basket for service columns

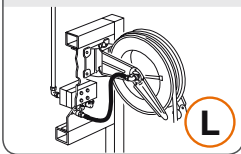
📦 N°1 packing m³ 0,044
🏋️ Kg 3,9



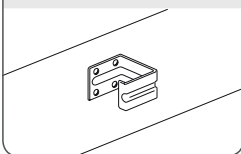
39304	39307	39314	39317
4	6	4 + (2 hose reel S. 260)	6 + (2 hose reel S. 260)
1 - 0,520	1 - 0,650	1 - 0,090	1 - 1,245
136	166	265	305
234 - 107 - 48,5	234 - 155 - 48,5	264 - 129 - 60	264 - 177 - 60

Details and advantages

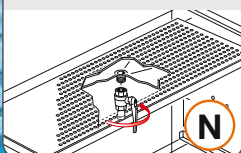
Universal drillings for application of accessories



Delivery gun-hose hook

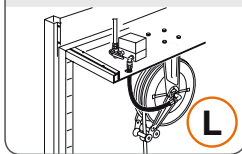


Drip-tray

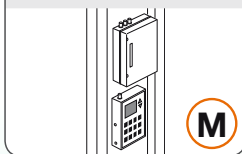


Details and advantages

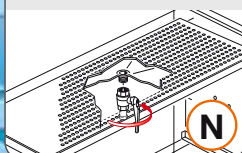
Universal drillings for application of accessories



Arrangement for fixing the fluids control system



Drip-tray





RAASM HOSE REEL

FLUIDS AND LUBRICATION EQUIPMENT



INDUSTRIAL HOSE REELS



Index hose reels

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ENCLOSED IN SHOCK RESISTANT TECHNOPOLIMER SERIES 260



AIR-WATER 20 BAR page 148

OPEN - HOSE POLYURETHANE



AIR-WATER 20 BAR page 149

ENCLOSED IN PAINTED STEEL SERIES 450 - 440

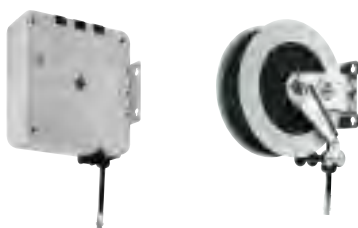


AIR-WATER 20 BAR page 150

OIL AND SIMILAR PRODUCTS 150 BAR page 150

GREASE 600 BAR page 150

ENCLOSED AND OPEN WITH DRUM IN ABS SHOCK PROOF



AIR-WATER 20 BAR page 151

WATER MAX 130°C 100 BAR page 151

WATER MAX 130°C 200 BAR page 151

OIL AND SIMILAR PRODUCTS 150 BAR page 151

GREASE 600 BAR page 151

OPEN - AIR-WATER - PAINTED OR STAINLESS STEEL



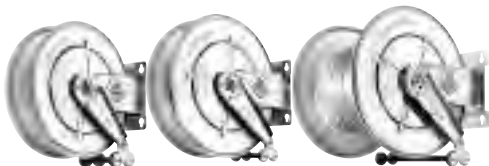
AIR-WATER 20 BAR page 154

WATER MAX 130°C 100 BAR page 156

WATER MAX 130°C 200 BAR page 158

WATER MAX 130°C 400 BAR page 160

OPEN - STAINLESS STEEL AISI 304



WATER MAX 130°C 100 BAR page 162

WATER MAX 130°C 200 BAR page 162

WATER MAX 130°C 400 BAR page 162

OPEN - STAINLESS STEEL AISI 316



WATER MAX 130°C 100 BAR page 163

OPEN - OIL, GREASE AND ALLIED PRODUCTS - PAINTED OR STAINLESS STEEL



OIL AND SIMILAR PRODUCTS 150 BAR page 164

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OPEN - DIESEL FUEL AND ADBLUE IN PAINTED OR STAINLESS STEEL



DIESEL FUEL 10 BAR page 168

ADBLUE 10 BAR page 170

OPEN - DOUBLE INLET AND OUTLET - PAINTED STEEL



AIR-WATER 20 BAR page 171

OIL-WATER 200 BAR page 171

OIL-PAINT 200 BAR page 171

OIL 400 BAR page 171

OPEN - WELDING OXYGEN-ACETYLENE AND LPG-METHANE - PAINTED STEEL



WELDING 20 BAR page 172

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PNEUMATIC OR HYDRAULIC MOTOR OPERATED INDUSTRIAL SERIES - PAINTED STEEL



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SERIES 500 - MANUAL - PAINTED STEEL



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WATER MAX 130°C 400 BAR page 176

OIL AND SIMILAR PRODUCTS 150 BAR page 176

DIESEL FUEL 10 BAR page 176

GROUNDING CABLE REEL - PAINTED STEEL



GROUNDING CABLE REEL page 177

SERIES 700 MOTOR DRIVEN AND MANUAL OPERATED - PAINTED STEEL



SERIES 700 page 178

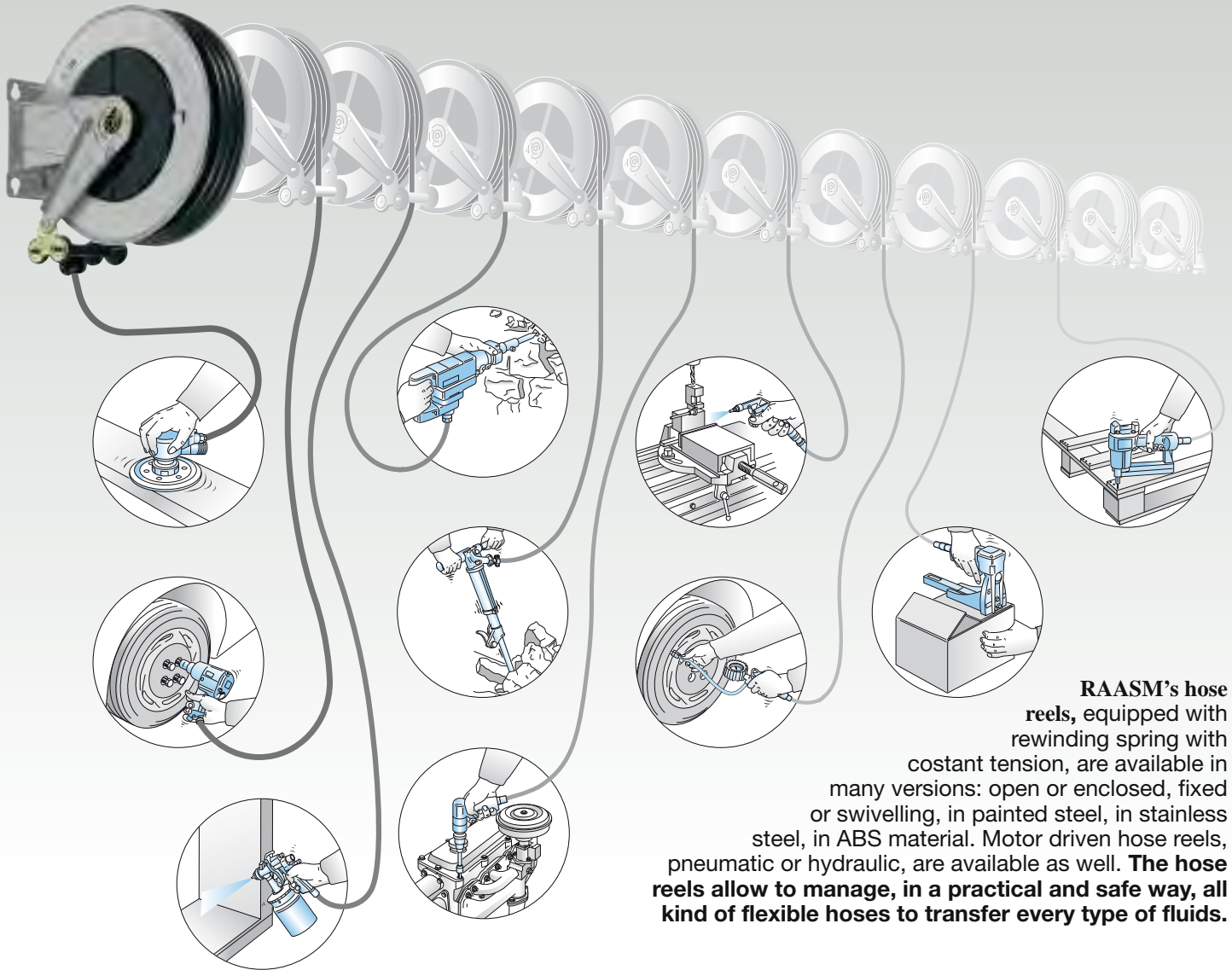


ACCESSORIES - HOSES page 180

7



RAASM introduces his wide range of hose reels



RAASM's hose reels, equipped with rewinding spring with constant tension, are available in many versions: open or enclosed, fixed or swivelling, in painted steel, in stainless steel, in ABS material. Motor driven hose reels, pneumatic or hydraulic, are available as well. **The hose reels allow to manage, in a practical and safe way, all kind of flexible hoses to transfer every type of fluids.**

HOSE REEL ADVANTAGES



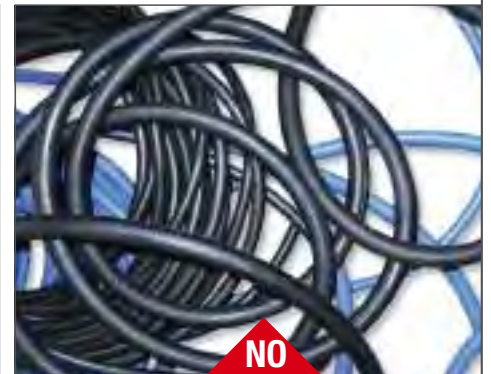
ACCIDENT

The hose reel **allow workers to operate in a safe workplace, using equipment always ready for use.**



BREAK

The hose reel **safeguards against wear and possible breakage of the hoses themselves.**



DISORDER

With the hose reel, hose rewinding is quick and safe, for an **orderly workplace.**

Choosing a hose reel

When choosing a hose reel, it is important to consider the following aspects:

TYPE OF FLUID TO BE DELIVERED	FLOWRATE IN L/MIN TO BE DELIVERED	LENGTH AND DIAMETER OF HOSE TO BE USED	PRESSURE OF FLUID
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TYPE OF FLUID TO BE DELIVERED AND PRESSURE OF FLUID

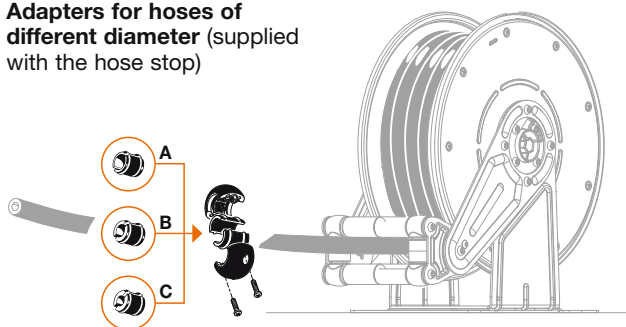
Air - Water 20 bar	AdBlue 10 bar
Water max 130° C 100 bar	Air - Water 20 bar
Water max 130° C 200 bar	Oil - Water 200 bar
Water max 130° C 400 bar	Oil - Paint 200 bar
Oil and similar products 150 bar	Oil 400 bar
Grease 600 bar	Welding 20 bar
Diesel fuel 10 bar	LPG - methane 20 bar

HOSE LENGTH AND DIAMETER

external diameter of hose	HOSE REELS SERIES									
	290	330	380 - 390	420 - 430	440 - 450	520 - 530	540 - 550	560	617 - 618	637 - 638
ø 12 mm	max. length 16 m	max. length 18 m	max. length 22 m	-	-	-	-	-	-	-
ø 14 mm	max. length 14 m	max. length 16 m	max. length 20 m	-	-	-	-	-	-	-
ø 17 mm	max. length 10 m	max. length 12 m	max. length 18 m	max. length 21 m	max. length 21 m	max. length 28 m	-	-	-	-
ø 19,5 mm	-	-	-	max. length 16 m	max. length 16 m	max. length 26 m	-	-	-	-
ø 22 mm	-	-	-	max. length 14 m	max. length 14 m	max. length 24 m	max. length 30 m	max. length 60 m	max. length 50 m	max. length 100 m
ø 28 mm	-	-	-	-	-	-	max. length 22 m	max. length 40 m	max. length 30 m	max. length 60 m
ø 34 mm	-	-	-	-	-	-	max. length 17 m	max. length 30 m	max. length 20 m	max. length 40 m
ø 44 mm	-	-	-	-	-	-	-	-	max. length 15 m	max. length 30 m
ø 50 mm	-	-	-	-	-	-	-	-	max. length 10 m	max. length 20 m
ø 13 + 13 mm	-	-	-	max. length 13 m	-	max. length 22 m	max. length 37 m	-	-	-
ø 15 + 15 mm	-	-	-	max. length 12 m	-	max. length 20 m	max. length 35 m	-	-	-
ø 16 + 16 mm	-	-	-	max. length 10 m	-	max. length 15 m	max. length 27 m	-	-	-

HOSE STOP

Adapters for hoses of different diameter (supplied with the hose stop)



Universal hose stop comes with all hose reels supplied without hose, complete with adapters for using hoses of different diameter.

Article	Hose reels series		ø Reductions
KR7201	290 - 330 380 - 390	Painted - S. steel	12 - 14 - 16 mm
KR8104	420 - 430 - 440 450 - 520 - 530	Painted - S. steel	14 - 17 - 19 mm
KR8705	540 - 550 - 560	Painted - S. steel	14 - 17,5 - 21 28,5 - 30 - 34 mm
KR8907	420 - 520 - 540	Double hose	12 - 14 - 15 - 16 mm



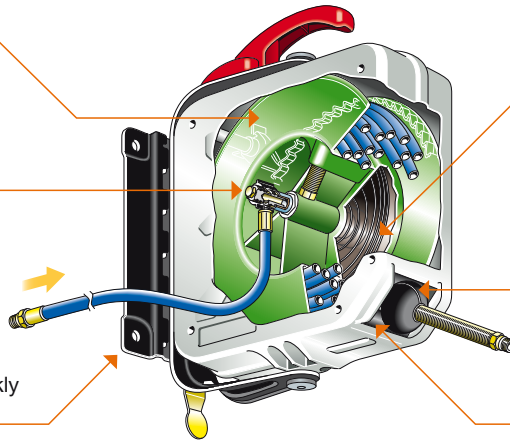
Technical characteristics

Corrosion proof: all the components are treated or painted for external use.
Easy to install anywhere: on wall, floor, ceiling, vehicles, etc.

Automatic stopping system: allows hose to be locked at the required length

Fluid conveyance joint

The wall bracket with bayonet hooking is easy to mount and allows to remove quickly the hose reel when necessary



Rewinding spring

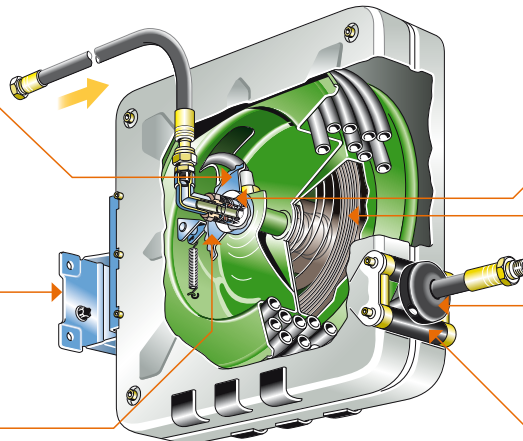
Adjustable hose stop

Self-lubricating hose guide rollers

Drum support bushings in self-lubricating material

The easy to install adjustable bracket allows the hose reel to be removed for any maintenance

The trip enables automatic stopping at the required length



Fluid conveyance joint

Rewinding spring

Adjustable hose stop

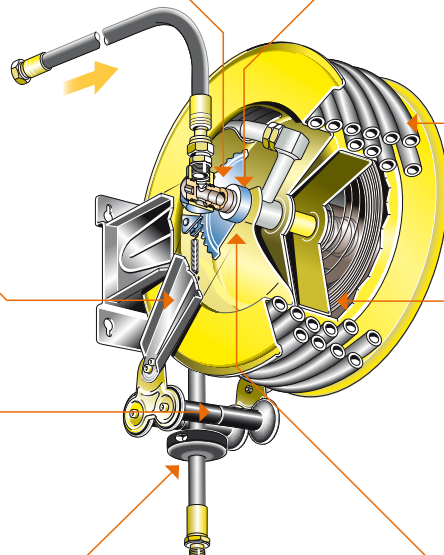
Self-lubricating hose guide rollers

Automatic stopping system: allows the hose to be locked at the required length

Adjustable arm: to favour hose extraction according to hose reel installation

Self-lubricating hose guide rollers: wide multi-way opening

Adjustable hose stop



Drum support bushings in brass alloy, self-lubricating, effective and corrosion resistant

Hose reel drum: sturdy and practical with ribbing and rounded edges

Fully enclosed and protected constant-force automatic rewinding spring

Fluid passage swivel joint in brass / carbon steel / s/steel / AISI 304 s/steel with polyurethane / viton / teflon seals



Guide to reading the catalogue

1 Type of fluid to be delivered (water, air, oil, grease, other)

2 Pressure of fluid to be delivered linked to the feed pressure

3 Hose length the distance between the hose reel and the places where the fluid is to be delivered

4 Hose diameter on which the capacity of the hose itself depends

AIR / WATER - 20 bar PAINTED STEEL

FIXED



SWIVELLING



Supplied with:
- hoses in black synthetic
- galvanised steel fitting
- swivel in brass
- seals in "viton"

Hose supplied

Article	Article	Hose supplied
8290.100	-	without hose
8290.101	-	10m - 3/8" (995.210)
8290.104	-	15m - 1/4" (993.215)
8330.100	-	without hose
8330.101	-	12m - 3/8" (995.211)

S. 290

S. 330

A Stainless steel or painted this depends on the workplace (closed or open) and the type of hose reel use (protected or exposed to water sprays)

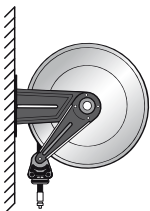
B Fixed or swivelling if the hose reel is used in a battery its operating range will be limited, therefore the fixed version is preferable. For uses requiring a greater operating range the swivelling version is recommended

C Open or enclosed the enclosed version is available only for the following fluids: air, oil and grease. The choice is up to the customer

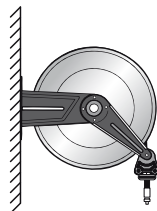
HOSE REEL INSTALLATION

Example of installation: the adjustable arms can be easily repositioned according to needs

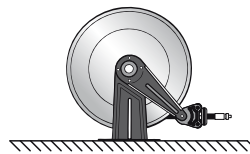
Standard installation



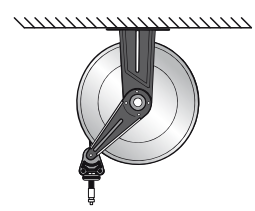
Wall installation



Bench installation



Ceiling installation



ACCESSORIES FOR HOSE REEL

Art. 88650

Latch mechanism protective cover
rack side for hose reels series 420 - 430



Art. 88651

Latch mechanism protective cover
rack side for hose reels series 520 - 530
540 - 550 - 560



Art. 88630

Modular drip-tray.
Equipped with hook for gun and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery gun. Essential for a clean and orderly workplace.





AIR / WATER - 20 bar

Series 260

Series 260



SWIVELLING wall support with BAYONET hooking

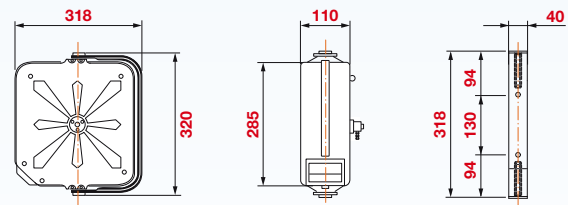
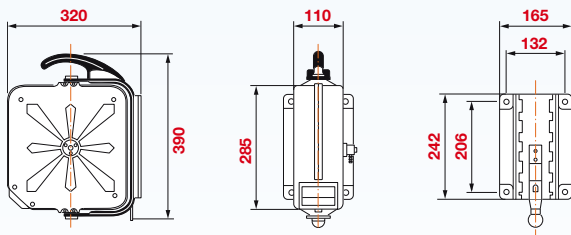
SWIVELLING SIMPLE wall support

Article	Hose supplied	Connection	
		inlet	outlet
89010	11m - 8x12 (971.111)	M1/4"G	M1/4"G
89011	11m - 6x10 (971.011)	M1/4"G	M1/4"G

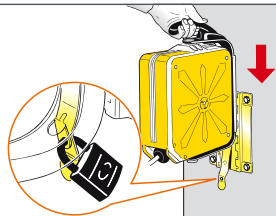
Article	Hose supplied	Connection	
		inlet	outlet
89109	11m - 8x12 (971.111)	M1/4"G	M1/4"G
89110	11m - 6x10 (971.011)	M1/4"G	M1/4"G

OVERALL DIMENSIONS

OVERALL DIMENSIONS



To prevent removal or theft of the hose reel, it can be secured with a bolt or padlock.

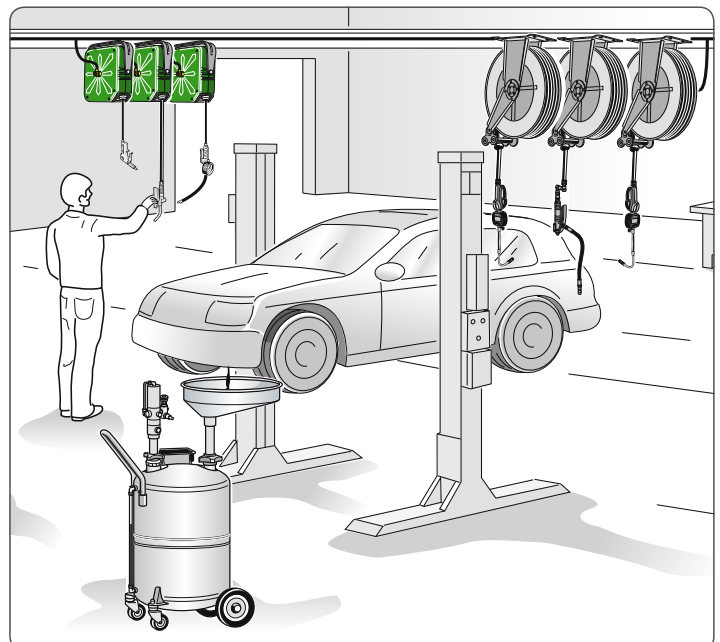
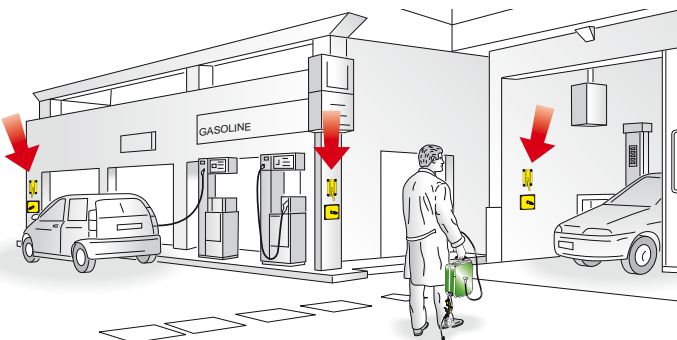


- Supplied with
- polyurethane hose
 - zinc plated steel couplings
 - brass swivel joint
 - "viton" seals



Art. 89001

Series 260 hose reels are equipped with a **wall bracket with bayonet hooking**. The placing of several brackets in the service points allows the hose reel to be easily moved to the various workstations.





AIR / WATER - 20 bar PAINTED STEEL



In accordance with directive
AteX 94/9 II 3 GD c X



FIXED



- Supplied with:
- polyurethane hose
 - brass fitting
 - brass swivel joint
 - "viton" seals



S. 288

Article	Hose supplied	Connection	
		inlet	outlet
8288.100	without hose	M3/8"G	F3/8"G
8288.102	13m - 10x14,5 (972.113)	M3/8"G	M3/8"G
8288.103	15m - 8x12 (971.115)	M3/8"G	M1/4"G
8288.104	10m - 6x10 (971.010)	M3/8"G	M1/4"G
8288.105	15m - 6x10 (971.015)	M3/8"G	M1/4"G

S. 328

8328.100	without hose	M3/8"G	F3/8"G
8328.102	15m - 10x14,5 (972.115)	M3/8"G	M3/8"G
8328.103	18m - 8x12 (971.118)	M3/8"G	M1/4"G
8328.104	8m - 13x19 (976.108)	M1/2"G	M1/2"G
8328.105	12m - 13x19 (976.112)	M1/2"G	M1/2"G

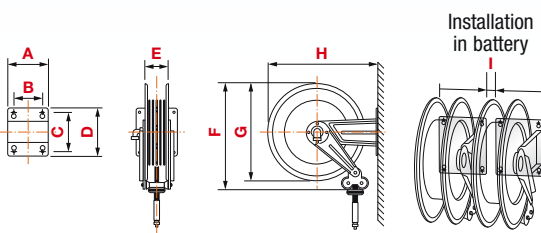
S. 378

8378.100	without hose	M3/8"G	F3/8"G
8378.102	20m - 10x14,5 (972.120)	M3/8"G	M3/8"G
8378.103	20m - 8x12 (971.120)	M3/8"G	M1/4"G
8378.104	10m - 13x19 (976.110)	M1/2"G	M1/2"G
8378.105	15m - 13x19 (976.114)	M1/2"G	M1/2"G

S. 438

8430.100	without hose	F1/2"G	F1/2"G
8438.101	10m - 13x19 (976.111)	F1/2"G	M1/2"G
8438.102	15m - 13x19 (976.115)	F1/2"G	M1/2"G

FIXED OVERALL DIMENSIONS

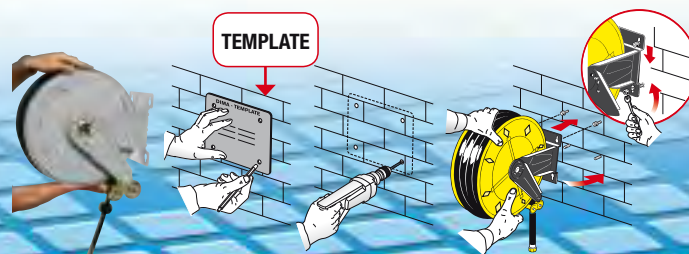


Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg *
S. 288	186	140	196	226	110	310	300	320	-	0,037	from 7 to 12
S. 328	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 378	186	140	196	226	110	400	390	410	20	0,068	from 10 to 17
S. 438	186	140	196	226	115	450	420	460	20	0,098	from 14 to 21

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.
The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.





ENCLOSED IN PAINTED STEEL

Series 450

Series 440



In accordance with directive
Atex 94/9
IIB 2 GD c T4 T135 °C X

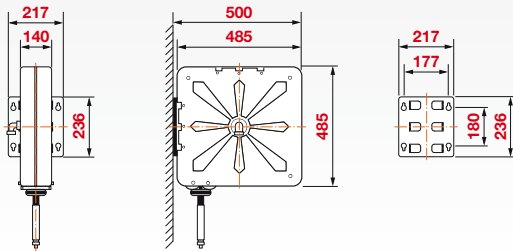


Supplied with:
- hoses in black synthetic rubber
- zinc plated steel couplings



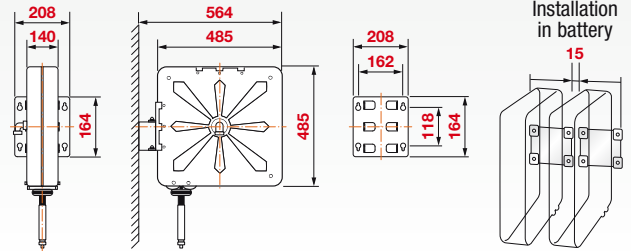
	FIXED support		SWIVELLING support		Hose supplied	Connection	
	Article	Article	Article	Article		inlet	outlet
Air - Water 20 bar - bras swivel joint - "viton" seals	8450.100	8440.100	8450.101	8440.101	without hose	F1/2"G	F1/2"G
	8450.102	8440.102	8450.103	8440.103	12m - 3/8" (995.212)	F1/2"G	M3/8"G
	8450.103	8440.103	8450.104	8440.104	18m - 3/8" (995.218)	F1/2"G	M3/8"G
	8450.104	8440.104			10m - 1/2" (996.210)	F1/2"G	M1/2"G
					15m - 1/2" (996.215)	F1/2"G	M1/2"G
Oil and similar products 150 bar - carbon steel swivel joint - "polyurethane" seals	8450.400	8440.400	8450.401	8440.401	without hose	F1/2"G	F1/2"G
	8450.402	8440.402			10m - 1/2" (996.310)	F1/2"G	M1/2"G
					15m - 1/2" (996.315)	F1/2"G	M1/2"G
Grease 600 bar - carbon steel swivel joint - "polyurethane" seals	8450.500	8440.500	8450.501	8440.501	without hose	F3/8"G	F1/2"G
	8450.501	8440.501	8450.502	8440.502	12m - 1/4" (993.512)	F3/8"G	M1/4"G
	8450.502	8440.502	8450.505	8440.505	18m - 1/4" (993.518)	F3/8"G	M1/4"G
	8450.505	8440.505			10m - 3/8" (995.710)	F3/8"G	M1/4"G
	8450.506	8440.506			15m - 3/8" (995.715)	F3/8"G	M1/4"G

FIXED OVERALL DIMENSIONS



N°1 packing m³ 0,111 from kg 21 to 29

SWIVELLING OVERALL DIMENSIONS



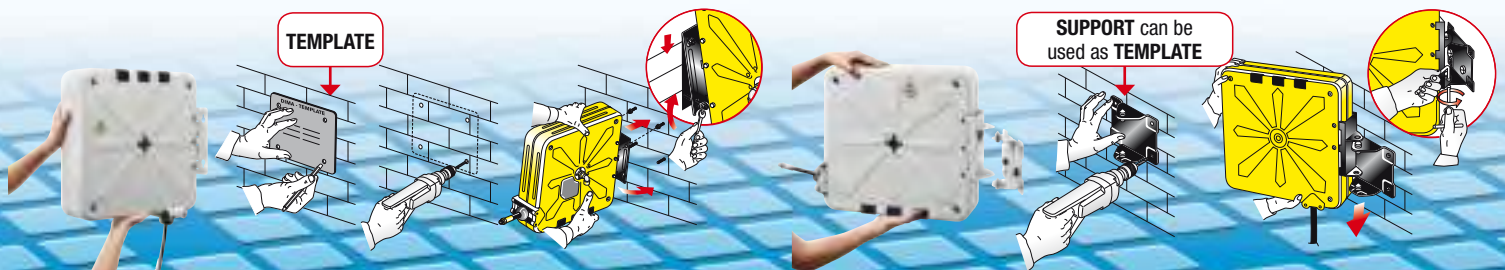
N°1 packing m³ 0,111 from kg 22 to 30

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel. The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables **55° rotation** to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





ENCLOSED IN PAINTED STEEL with **ABS** spool

Series 450

cover in painted steel

ABS shock proof drum



In accordance with directive Atex 94/9 II 3 GD c X



Supplied with:
- hoses in black synthetic rubber
- zinc plated steel couplings



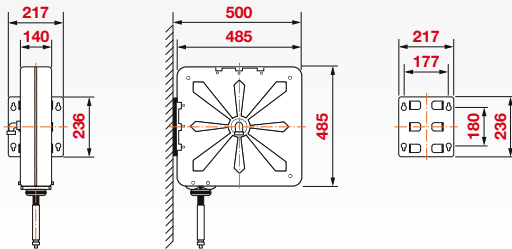
Article	FIXED support	Connection		
		inlet	outlet	
9450.100		without hose	F1/2" G	F1/2" G
9450.101		12m - 3/8" (995.212)	F1/2" G	M3/8" G
9450.102		18m - 3/8" (995.218)	F1/2" G	M3/8" G
9450.103		10m - 1/2" (996.210)	F1/2" G	M1/2" G
9450.104		15m - 1/2" (996.215)	F1/2" G	M1/2" G
9450.400		without hose	F1/2" G	F1/2" G
9450.401		10m - 1/2" (996.310)	F1/2" G	M1/2" G
9450.402		15m - 1/2" (996.315)	F1/2" G	M1/2" G
9450.500		without hose	F3/8" G	F1/2" G
9450.501		12m - 1/4" (993.512)	F3/8" G	M1/4" G
9450.502		18m - 1/4" (993.518)	F3/8" G	M1/4" G
9450.505		10m - 3/8" (995.710)	F3/8" G	M1/4" G
9450.506		15m - 3/8" (995.715)	F3/8" G	M1/4" G

Air - Water 20 bar
- bras swivel joint
- "viton" seals

Oil and similar products 150 bar
- carbon steel swivel joint
- "polyurethane" seals

Grease 600 bar
- carbon steel swivel joint
- "polyurethane" seals

FIXED OVERALL DIMENSIONS

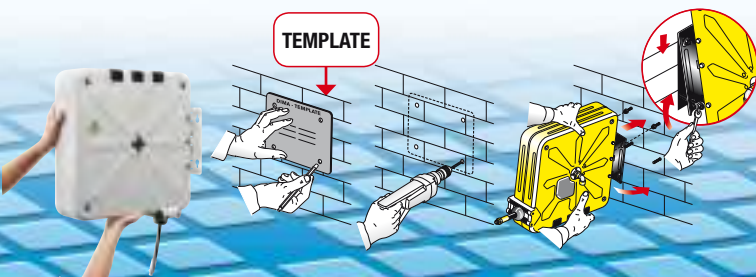


N°1 packing m³ 0,111 from kg 20 to 29

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.
The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.

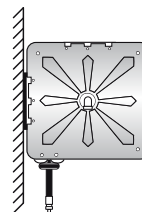
TEMPLATE



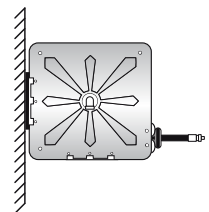
HOSE REEL INSTALLATION

Example of installation: the hose reel can be easily repositioned according to needs

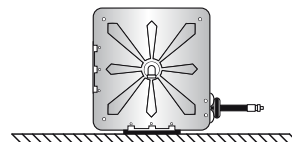
Standard installation



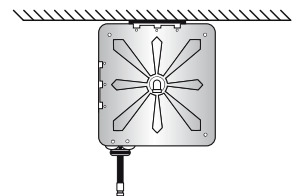
Wall installation



Bench installation



Ceiling installation





PAINTED STEEL with ABS spool

Series 430

Painted steel bracket



In accordance with directive
Atex 94/9 II 3 GD c X



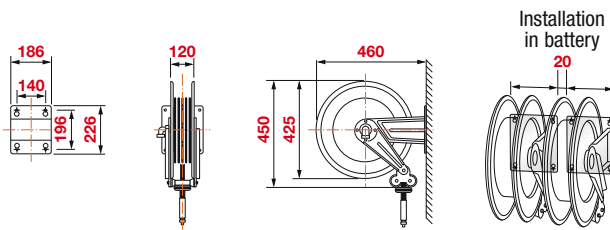
ABS shock proof drum

Supplied with:
- hoses in black synthetic rubber
- zinc plated steel couplings



	FIXED support		Connection	
	Article		inlet	outlet
Air - Water 20 bar - bras swivel joint - "viton" seals		9430.100	without hose	F1/2"G F1/2"G
		9430.101	12m - 3/8" (995.212)	F1/2"G M3/8"G
		9430.102	18m - 3/8" (995.218)	F1/2"G M3/8"G
		9430.103	10m - 1/2" (996.210)	F1/2"G M1/2"G
		9430.104	15m - 1/2" (996.215)	F1/2"G M1/2"G
Water max 130° C 100 bar - AISI 304 stainless steel swivel joint - "viton" seals		9430.200	without hose	F1/2"G F1/2"G
		9430.201	10m - 1/2" (996.311)	F1/2"G M1/2"G
		9430.202	15m - 1/2" (996.316)	F1/2"G M1/2"G
	hygieninc hose	9431.202	15m - 1/2" (996.415)	F1/2"G M1/2"G
Water max 130° C 200 bar - AISI 304 stainless steel swivel joint - "viton" seals		9430.300	without hose	F3/8"G F1/2"G
		9430.301	12m - 3/8" (995.512)	F3/8"G F3/8"G
		9430.302	18m - 3/8" (995.518)	F3/8"G F3/8"G
	hygieninc hose	9431.302	18m - 3/8" (995.618)	F3/8"G F3/8"G
Oil and similar products 150 bar - carbon steel swivel joint - "polyurethane" seals		9430.400	without hose	F1/2"G F1/2"G
		9430.401	10m - 1/2" (996.310)	F1/2"G M1/2"G
		9430.402	15m - 1/2" (996.315)	F1/2"G M1/2"G
Grease 600 bar - carbon steel swivel joint - "polyurethane" seals		9430.500	without hose	F3/8"G F1/2"G
		9430.501	12m - 1/4" (993.512)	F3/8"G M1/4"G
		9430.502	18m - 1/4" (993.518)	F3/8"G M1/4"G
		9430.505	10m - 3/8" (995.710)	F3/8"G M1/4"G
		9430.506	15m - 3/8" (995.715)	F3/8"G M1/4"G

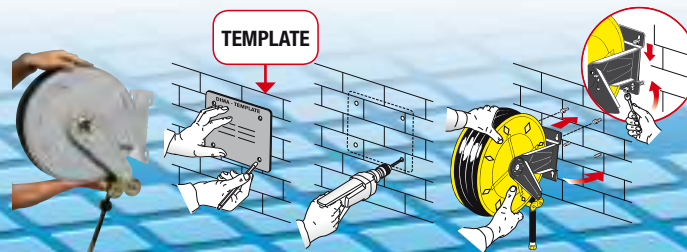
FIXED OVERALL DIMENSIONS



N°1 packing m³ 0,098 from kg 14 to 24

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.
The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.



TEMPLATE



STAINLESS STEEL with ABS spool

Series 430

AISI 304 stainless steel bracket



In accordance with directive
Atex 94/9 II 3 GD c X



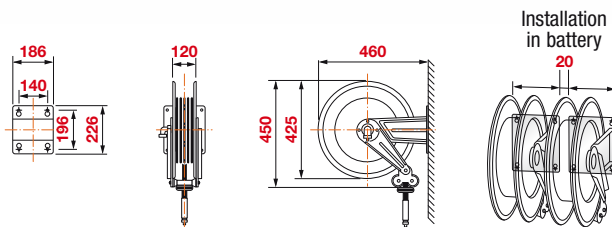
ABS shock proof drum

Supplied with:
- hoses in black synthetic rubber
- zinc plated steel couplings



	FIXED support		Connection		
	Article		Hose supplied	inlet	outlet
Air - Water 20 bar - bras swivel joint - "viton" seals		9432.100	without hose	F1/2"G	F1/2"G
		9432.101	12m - 3/8" (995.212)	F1/2"G	M3/8"G
		9432.102	18m - 3/8" (995.218)	F1/2"G	M3/8"G
		9432.103	10m - 1/2" (996.210)	F1/2"G	M1/2"G
		9432.104	15m - 1/2" (996.215)	F1/2"G	M1/2"G
Water max 130° C 100 bar - AISI 304 stainless steel swivel joint - "viton" seals		9434.200	without hose	F1/2"G	F1/2"G
		9432.201	10m - 1/2" (996.311)	F1/2"G	M1/2"G
		9432.202	15m - 1/2" (996.316)	F1/2"G	M1/2"G
	hygieninc hose	9433.202	15m - 1/2" (996.415)	F1/2"G	M1/2"G
Water max 130° C 200 bar - AISI 304 stainless steel swivel joint - "viton" seals		9434.300	without hose	F3/8"G	F1/2"G
		9432.301	12m - 3/8" (995.512)	F3/8"G	F3/8"G
		9432.302	18m - 3/8" (995.518)	F3/8"G	F3/8"G
	hygieninc hose	9433.302	18m - 3/8" (995.618)	F3/8"G	F3/8"G
Oil and similar products 150 bar - AISI 304 stainless steel swivel joint - "viton" seals		9434.200	without hose	F1/2"G	F1/2"G
		9432.401	10m - 1/2" (996.310)	F1/2"G	M1/2"G
		9432.402	15m - 1/2" (996.315)	F1/2"G	M1/2"G
Grease 600 bar - carbon steel swivel joint - "polyurethane" seals		9432.500	without hose	F3/8"G	F1/2"G
		9432.501	12m - 1/4" (993.512)	F3/8"G	M1/4"G
		9432.502	18m - 1/4" (993.518)	F3/8"G	M1/4"G
		9432.505	10m - 3/8" (995.710)	F3/8"G	M1/4"G
		9432.506	15m - 3/8" (995.715)	F3/8"G	M1/4"G

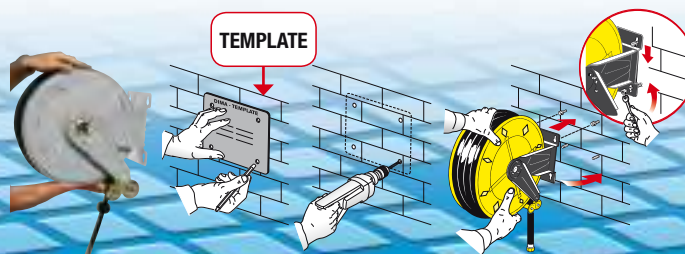
FIXED OVERALL DIMENSIONS



N°1 packing m³ 0,098 from kg 14 to 24

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.
The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.





AIR / WATER - 20 bar PAINTED STEEL



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X



FIXED



SWIVELLING

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- brass swivel joint
- "viton" seals



	Article	Article	Hose supplied	Connection	
				inlet	outlet
S. 290	8290.100	-	without hose	F3/8"G	F3/8"G
	8290.101	-	10m - 3/8" (995.210)	F3/8"G	M3/8"G
	8290.104	-	15m - 1/4" (993.215)	F3/8"G	M1/4"G
S. 330	8330.100	-	without hose	F3/8"G	F3/8"G
	8330.101	-	12m - 3/8" (995.211)	F3/8"G	M3/8"G
S. 390	8390.100	8380.100	without hose	F3/8"G	F3/8"G
	8390.102	8380.102	18m - 3/8" (995.217)	F3/8"G	M3/8"G
S. 430	8430.100	8420.100	without hose	F1/2"G	F1/2"G
	8430.101	8420.101	12m - 3/8" (995.212)	F1/2"G	M3/8"G
	8430.102	8420.102	18m - 3/8" (995.218)	F1/2"G	M3/8"G
	8430.103	8420.103	10m - 1/2" (996.210)	F1/2"G	M1/2"G
	8430.104	8420.104	15m - 1/2" (996.215)	F1/2"G	M1/2"G
for ABS hose reels Series 430 see page 152					
S. 530	8530.100	8520.100	without hose	F1/2"G	F1/2"G
	8530.101	8520.101	20m - 1/2" (996.220)	F1/2"G	M1/2"G
	8530.102	8520.102	25m - 1/2" (996.225)	F1/2"G	M1/2"G
S. 540	8540.100	8550.100	without hose	F1"G	F1"G
	8540.101	8550.101	15m - 3/4" (997.215)	F1"G	M3/4"G
	8540.102	8550.102	20m - 3/4" (997.220)	F1"G	M3/4"G
	8540.103	8550.103	15m - 1" (998.215)	F1"G	M1"G
	8540.105	8550.105	without hose	F1/2"G	F1/2"G
	8540.106	8550.106	30m - 1/2" (996.230)	F1/2"G	M1/2"G
S. 560	8560.100	-	without hose	F1"G	F1"G
	8560.101	-	30m - 3/4" (997.230)	F1"G	M3/4"G
	8560.103	-	40m - 3/4" (997.240)	F1"G	M3/4"G
	8560.104	-	20m - 1" (998.220)	F1"G	M1"G
	8560.105	-	30m - 1" (998.230)	F1"G	M1"G
	8560.106	-	without hose	F1/2"G	F1/2"G

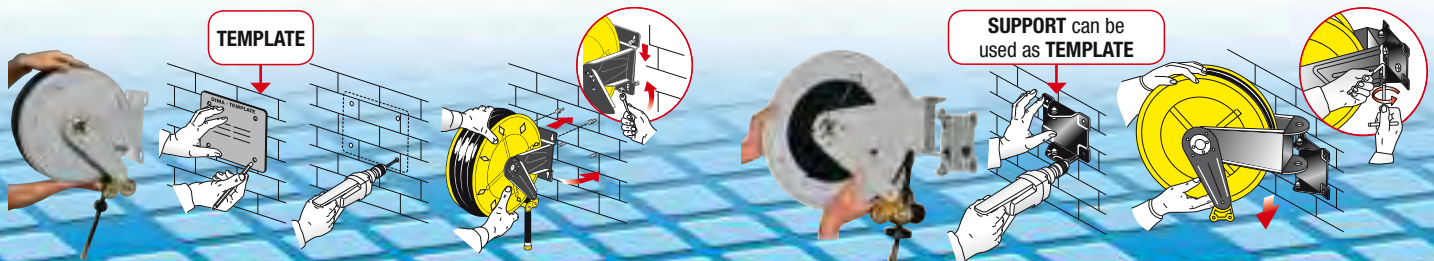
FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.

The **template** supplied facilitates drilling of the holes and therefore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





AIR / WATER - 20 bar STAINLESS STEEL



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X



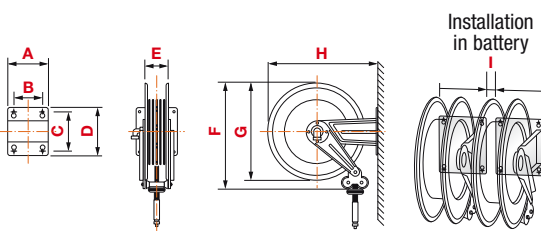
FIXED	SWIVELLING
Article	Article

- Supplied with:
- hoses in black synthetic rubber
 - zinc plated steel couplings
 - brass swivel joint
 - "viton" seals



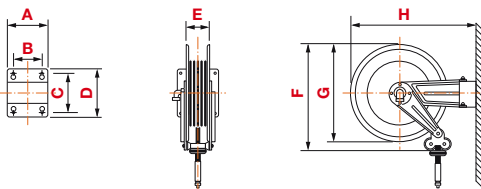
	Article	Article	Hose supplied	Connection	
				inlet	outlet
S. 290	8292.100	-	without hose	F3/8"G	F3/8"G
	8292.101	-	10m - 3/8" (995.210)	F3/8"G	M3/8"G
	8292.104	-	15m - 1/4" (993.215)	F3/8"G	M1/4"G
S. 330	8332.100	-	without hose	F3/8"G	F3/8"G
	8332.101	-	12m - 3/8" (995.211)	F3/8"G	M3/8"G
S. 390	8392.100	8382.100	without hose	F3/8"G	F3/8"G
	8392.102	8382.102	18m - 3/8" (995.217)	F3/8"G	M3/8"G
S. 430	8432.100	8422.100	without hose	F1/2"G	F1/2"G
	8432.101	8422.101	12m - 3/8" (995.212)	F1/2"G	M3/8"G
	8432.102	8422.102	18m - 3/8" (995.218)	F1/2"G	M3/8"G
	8432.103	8422.103	10m - 1/2" (996.210)	F1/2"G	M1/2"G
	8432.104	8422.104	15m - 1/2" (996.215)	F1/2"G	M1/2"G
for ABS hose reels Series 430 see page 153					
S. 530	8532.100	8522.100	without hose	F1/2"G	F1/2"G
	8532.101	8522.101	20m - 1/2" (996.220)	F1/2"G	M1/2"G
	8532.102	8522.102	25m - 1/2" (996.225)	F1/2"G	M1/2"G
S. 540	8542.100	8552.100	without hose	F1"G	F1"G
	8542.101	8552.101	15m - 3/4" (997.215)	F1"G	M3/4"G
	8542.102	8552.102	20m - 3/4" (997.220)	F1"G	M3/4"G
	8542.103	8552.103	15m - 1" (998.215)	F1"G	M1"G
	8542.105	8552.105	without hose	F1/2"G	F1/2"G
	8542.106	8552.106	30m - 1/2" (996.230)	F1/2"G	M1/2"G
S. 560	8562.100	-	without hose	F1"G	F1"G
	8562.101	-	30m - 3/4" (997.230)	F1"G	M3/4"G
	8562.103	-	40m - 3/4" (997.240)	F1"G	M3/4"G
	8562.104	-	20m - 1" (998.220)	F1"G	M1"G
	8562.105	-	30m - 1" (998.230)	F1"G	M1"G
	8562.106	-	without hose	F1/2"G	F1/2"G

FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg*
S. 290	186	140	196	226	110	310	300	320	-	0,037	from 7 to 12
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43
S. 550	300	218	226	268	190	560	510	702	0,175	from 25 to 41

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



WATER MAX 130°C - 100 bar

PAINTED STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

FIXED

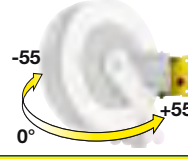


Article

8330.200
8330.201

S. 330

SWIVELLING



Article

-
-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "viton" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F 3/8"-1/2"G
12m - 3/8" (995.313)	F1/2"G	M3/8"G



S. 390

8390.200
8390.202

8380.200
8380.202

without hose
17m - 3/8" (995.318)

F1/2"G
F1/2"G

F3/8"-1/2"G
M3/8"G

S. 430

8430.200
8430.201
8430.202

8420.200
8420.201
8420.202

without hose
10m - 1/2" (996.311)
15m - 1/2" (996.316)

F1/2"G
F1/2"G
F1/2"G

F1/2"G
M1/2"G
M1/2"G

for ABS hose reels Series 430 see page 152

S. 530

8530.200
8530.201

8520.200
8520.201

without hose
20m - 1/2" (996.321)

F1/2"G
F1/2"G

F1/2"G
M1/2"G

S. 540

8540.200
8540.202
8540.203

8550.200
8550.202
8550.203

without hose
20m - 3/4" (997.320)
15m - 1" (998.315)

F1"G
F1"G
F1"G

F1"G
M3/4"G
M1"G

S. 560

8560.200
8560.205

-
-

without hose
30m - 1" (998.330)

F1"G
F1"G

F1"G
M1"G

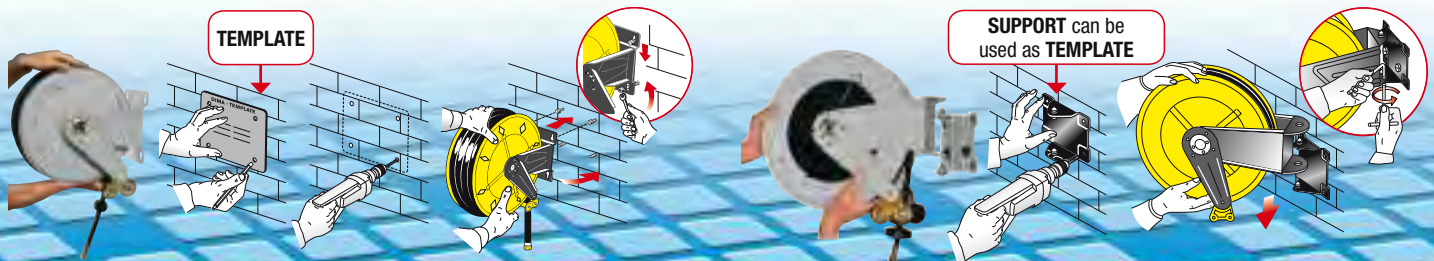
FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.

The **template** supplied facilitates drilling of the holes and therefore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





WATER MAX 130°C - 100 bar

STAINLESS STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X



Article
8332.400
8332.201
8333.202



Article
-
-
-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "viton" seals



S. 330
hygienic hose

S. 390
hygienic hose

S. 430
hygienic hose

S. 530
hygienic hose

S. 540
hygienic hose

S. 560

Hose supplied	Connection	
	inlet	outlet
without hose	F1/2"G	F 3/8"-1/2"G
12m - 3/8" (995.313)	F1/2"G	M3/8"G
12m - 3/8" (995.412)	F1/2"G	M3/8"G

without hose	F1/2"G	F3/8"-1/2"G
17m - 3/8" (995.318)	F1/2"G	M3/8"G
12m - 3/8" (995.412)	F1/2"G	M3/8"G

without hose	F1/2"G	F1/2"G
10m - 1/2" (996.311)	F1/2"G	M1/2"G
15m - 1/2" (996.316)	F1/2"G	M1/2"G
15m - 1/2" (996.415)	F1/2"G	M1/2"G

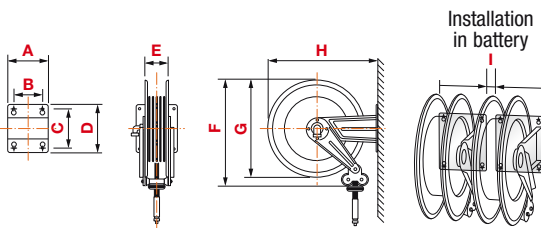
for ABS hose reels Series 430 see page 153

without hose	F1/2"G	F1/2"G
20m - 1/2" (996.321)	F1/2"G	M1/2"G
25m - 1/2" (996.425)	F1/2"G	M1/2"G

without hose	F1"G	F1"G
20m - 3/4" (997.320)	F1"G	M3/4"G
15m - 1" (998.315)	F1"G	M1"G
20m - 3/4" (997.420)	F1"G	M3/4"G

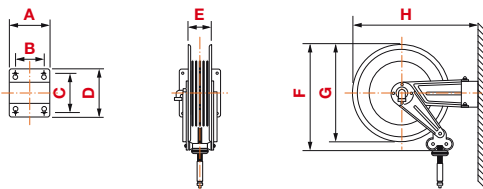
without hose	F1"G	F1"G
30m - 1" (998.330)	F1"G	M1"G

FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg*
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43
S. 550	300	218	226	268	190	560	510	702	0,175	from 25 to 41

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



WATER MAX 130°C - 200 bar

PAINTED STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

FIXED

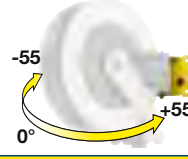


Article

8330.300
8330.301

S. 330

SWIVELLING



Article

-
-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "viton" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G
12m - 5/16" (994.512)	F3/8"G	F3/8"G



S. 390

8390.300
8390.302

8380.300
8380.302

without hose
17m - 5/16" (994.517)

F3/8"G
F3/8"G

S. 430

8430.300
8430.301
8430.302

8420.300
8420.301
8420.302

without hose
12m - 3/8" (995.512)
18m - 3/8" (995.518)

F3/8"G
F3/8"G
F3/8"G

for ABS hose reels Series 430 see page 152

S. 530

8530.300
8530.301
8530.302

8520.300
8520.301
8520.302

without hose
20m - 3/8" (995.520)
25m - 3/8" (995.525)

F3/8"G
F3/8"G
F3/8"G

S. 540

8540.300
8540.301

8550.300
8550.301

without hose
30m - 3/8" (995.530)

F3/8"G
F3/8"G

S. 560

8560.300
8560.301
8560.302

-
-
-

without hose
40m - 3/8" (995.540)
50m - 3/8" (995.550)

F3/8"G
F3/8"G
F3/8"G

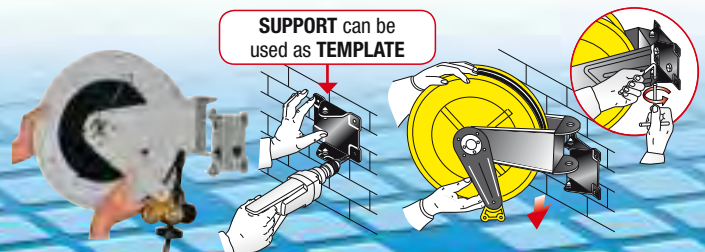
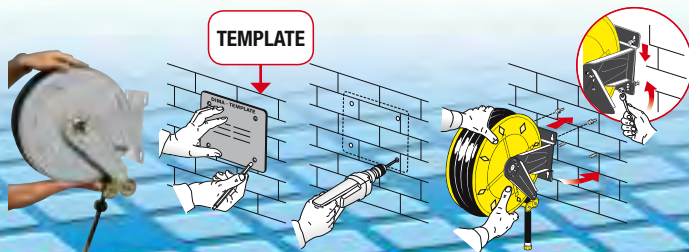
FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.

The **template** supplied facilitates drilling of the holes and therefore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables **55° rotation** to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





WATER MAX 130°C - 200 bar

STAINLESS STEEL

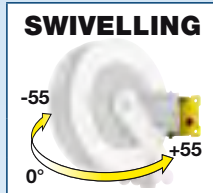


In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X



FIXED

Article
8332.300
8332.301
8333.301



SWIVELLING

Article
-
-
-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "viton" seals



S. 330
hygieninc hose

S. 390
hygieninc hose

S. 430
hygieninc hose

S. 530
hygieninc hose

S. 540
hygieninc hose

S. 560

Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F 3/8"G
12m - 5/16" (994.512)	F3/8"G	F3/8"G
12m - 5/16" (994.612)	F3/8"G	F3/8"G

without hose	F3/8"G	F 3/8"G
17m - 5/16" (994.517)	F3/8"G	F3/8"G
12m - 5/16" (994.612)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
12m - 3/8" (995.512)	F3/8"G	F3/8"G
18m - 3/8" (995.518)	F3/8"G	F3/8"G
18m - 3/8" (995.618)	F3/8"G	F3/8"G

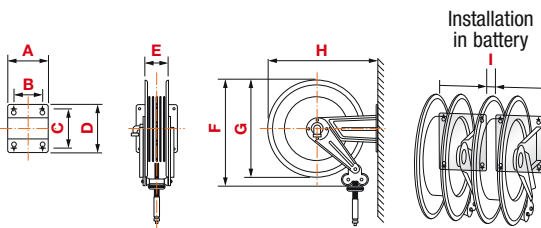
for ABS hose reels Series 430 see page 153

without hose	F3/8"G	F1/2"G
20m - 3/8" (995.520)	F3/8"G	F3/8"G
25m - 3/8" (995.525)	F3/8"G	F3/8"G
25m - 3/8" (995.625)	F3/8"G	F3/8"G

without hose	F3/8"G	F1/2"G
30m - 3/8" (995.530)	F3/8"G	F3/8"G
30m - 3/8" (995.630)	F3/8"G	F3/8"G

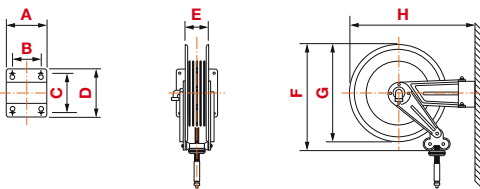
without hose	F3/8"G	F1/2"G
40m - 3/8" (995.540)	F3/8"G	F3/8"G
50m - 3/8" (995.550)	F3/8"G	F3/8"G

FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg*
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43
S. 550	300	218	226	268	190	560	510	702	0,175	from 25 to 41

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



WATER MAX 130°C - 400 bar

PAINTED STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

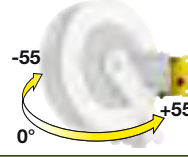
FIXED



Article

8330.350

SWIVELLING



Article

-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "teflon" seals



S. 330

S. 390

S. 430

S. 530

S. 540

S. 560

Hose supplied	Connection	
	inlet	outlet
without hose	F3/8" G	F3/8" G

8390.350	8380.350	without hose	F3/8" G	F3/8" G
8390.352	8380.352	17m - 5/16" (994.717)	F3/8" G	F3/8" G

8430.350	8420.350	without hose	F3/8" G	F1/2" G
8430.352	8420.352	18m - 3/8" (995.818)	F3/8" G	F3/8" G

8530.350	8520.350	without hose	F3/8" G	F1/2" G
8530.352	8520.352	25m - 3/8" (995.825)	F3/8" G	F3/8" G

8540.350	8550.350	without hose	F3/8" G	F1/2" G
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8560.350	-	without hose	F3/8" G	F1/2" G
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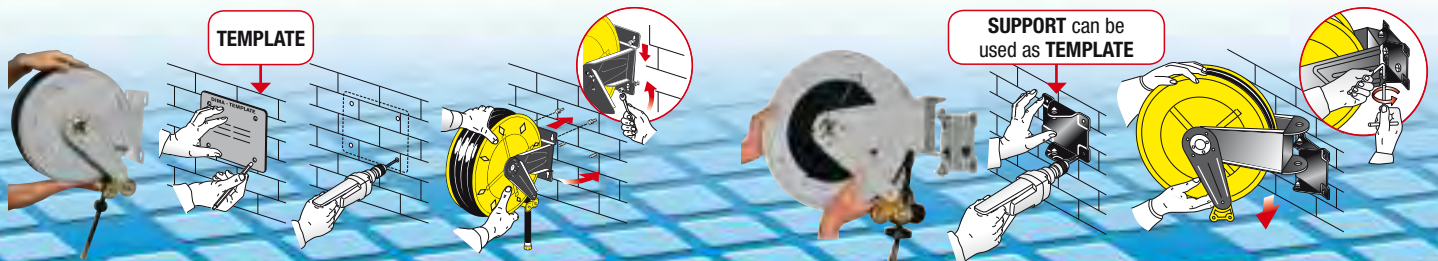
FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.

The **template** supplied facilitates drilling of the holes and therefore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





WATER MAX 130°C - 400 bar

STAINLESS STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

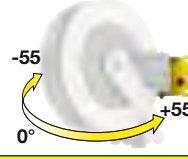
FIXED



Article

8332.350

SWIVELLING



Article

-

Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "teflon" seals



S. 330

S. 390

S. 430

S. 530

S. 540

S. 560

Hose supplied	Connection	
	inlet	outlet
without hose	F3/8"G	F3/8"G

8392.350	8382.350	without hose	F3/8"G	F3/8"G
8392.352	8382.352	17m - 5/16" (994.717)	F3/8"G	F3/8"G

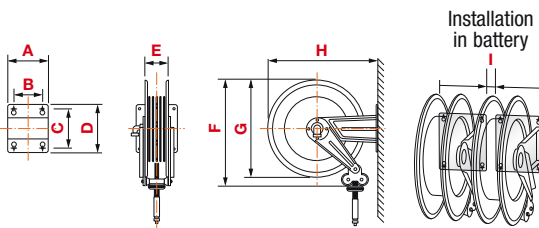
8434.350	8424.350	without hose	F3/8"G	F1/2"G
8432.352	8422.352	18m - 3/8" (995.818)	F3/8"G	F3/8"G
hygienic hose 8433.352	8423.352	18m - 3/8" (995.918)	F3/8"G	F3/8"G

8534.350	8524.350	without hose	F3/8"G	F1/2"G
8532.352	8522.352	25m - 3/8" (995.825)	F3/8"G	F3/8"G
hygienic hose 8533.352	8523.352	25m - 3/8" (995.925)	F3/8"G	F3/8"G

8544.350	8554.350	without hose	F3/8"G	F1/2"G
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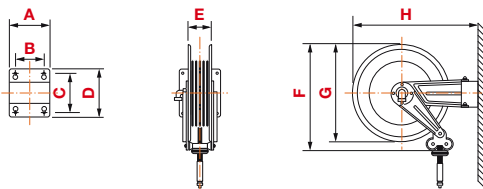
8564.350	-	without hose	F3/8"G	F1/2"G
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FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg*
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43
S. 550	300	218	226	268	190	560	510	702	0,175	from 25 to 41

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



WATER MAX 130°C - 100-200-400 bar





AISI 304 STAINLESS STEEL

Supplied with:

- AISI 304 stainless steel couplings
- AISI 304 stainless steel swivel joint
- "viton" seals (100-200 bar)
- "teflon" seals (400 bar)



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

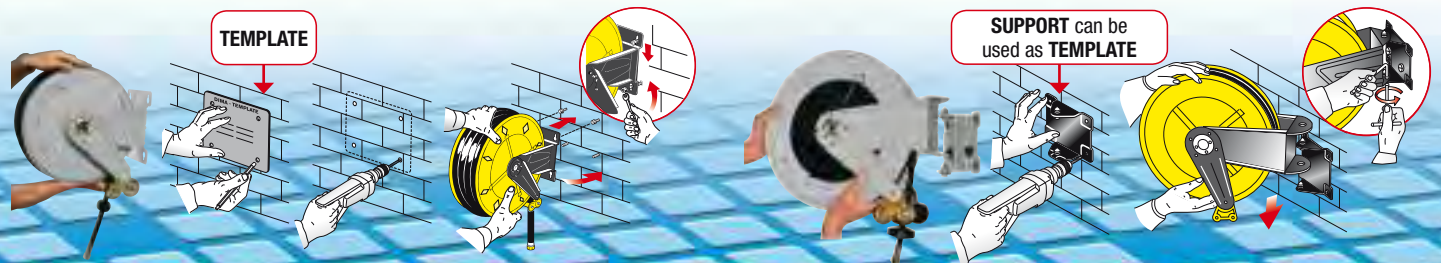
	FIXED		SWIVELLING		Connection		
	Article	Article	inlet	outlet	inlet	outlet	
 S. 430	Water 130° C 100 bar	8434.200	8424.200	F1/2"G	F1/2"G	F1/2"G	F1/2"G
	Water 130° C 200 bar	8434.300	8424.300	F3/8"G	F1/2"G	F3/8"G	F1/2"G
	Water 130° C 400 bar	8434.350	8424.350	F3/8"G	F1/2"G	F3/8"G	F1/2"G
 S. 530	Water 130° C 100 bar	8534.200	8524.200	F1/2"G	F1/2"G	F1/2"G	F1/2"G
	Water 130° C 200 bar	8534.300	8524.300	F3/8"G	F1/2"G	F3/8"G	F1/2"G
	Water 130° C 400 bar	8534.350	8524.350	F3/8"G	F1/2"G	F3/8"G	F1/2"G
 S. 540	Water 130° C 100 bar	8544.200	8554.200	F1"G	F1"G	F1"G	F1"G
		8544.205	8554.205	F1/2"G	F1/2"G	F1/2"G	F1/2"G
	Water 130° C 200 bar	8544.300	8554.300	F3/8"G	F1/2"G	F3/8"G	F1/2"G
	Water 130° C 400 bar	8544.350	8554.350	F3/8"G	F1/2"G	F3/8"G	F1/2"G
 S. 560	Water 130° C 100 bar	8564.200	-	F1"G	F1"G	F1"G	F1"G
		8564.206	-	F1/2"G	F1/2"G	F1/2"G	F1/2"G
	Water 130° C 200 bar	8564.300	-	F3/8"G	F1/2"G	F3/8"G	F1/2"G
	Water 130° C 400 bar	8564.350	-	F3/8"G	F1/2"G	F3/8"G	F1/2"G

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel. The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





WATER MAX 130°C - 100 bar

AISI 316 STAINLESS STEEL

Supplied with:

- AISI 316 stainless steel couplings
- AISI 316 stainless steel swivel joint
- "viton" seals

FIXED



Article

8545.200

Connection

inlet

outlet

F1" G

F1" G

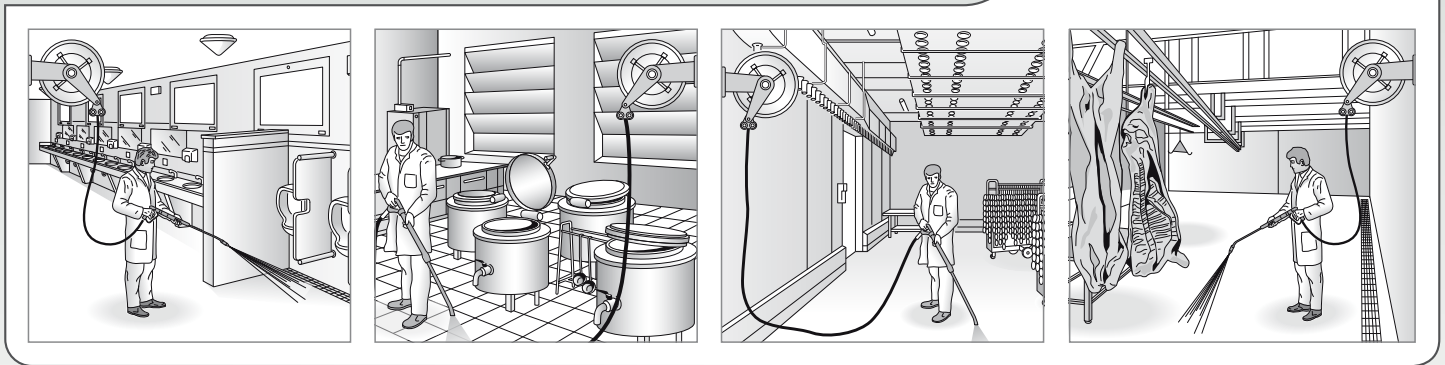
Water 130° c 100 bar

S. 540



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X

EXAMPLE OF USE



Hose reel capacity

To establish the **capacity of a hose reel** (max length of hose to be wound) it is necessary to know the following data:

- **hose reel spring rewinding capacity**
- **external diameter of hose to be used**

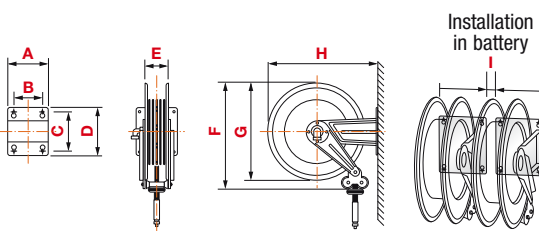
	ø 17 mm	max. 21 m	Series 430
	ø 19,5 mm	max. 16 m	
	ø 22 mm	max. 14 m	

	ø 18,5 mm	max. 28 m	Series 530
	ø 20 mm	max. 26 m	
	ø 22 mm	max. 24 m	

	ø 22 mm	max. 30 m	Series 540 outlet 1/2"
	ø 28 mm	max. 22 m	Series 540 outlet 1"
	ø 34 mm	max. 17 m	

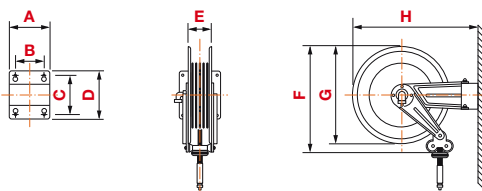
	ø 22 mm	max. 60 m	Series 560 outlet 1/2"
	ø 30 mm	max. 40 m	Series 560 outlet 1"
	ø 35 mm	max. 30 m	

FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg
S. 430	186	140	196	226	115	460	420	460	20	0,098	16
S. 530	203	153	220	258	115	550	510	560	20	0,120	21
S. 540	300	218	228	268	190	550	510	573	0	0,175	28,5
S. 560	488	399	238	272	368	550	510	578	0	0,310	48

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 420	208	162	118	164	115	460	420	541	0,098	16,5
S. 520	228	182	154	200	115	560	510	642	0,120	21,5
S. 550	300	218	226	268	190	560	510	702	0,175	34



OIL AND SIMILAR PRODUCTS - 150 bar

PAINTED STEEL

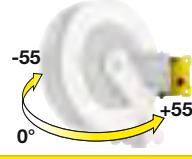


In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

FIXED



SWIVELLING



Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- carbon steel swivel joint
- "polyurethane" seals



	Article	Article	Hose supplied	Connection	
				inlet	outlet
S. 330	8330.400	-	without hose	F1/2"G	F 3/8"-1/2"G
	8330.402	-	12m - 3/8" (995.312)	F1/2"G	M1/2"G
S. 390	8390.400	8380.400	without hose	F1/2"G	F 3/8"-1/2"G
	8390.401	8380.401	12m - 3/8" (995.312)	F1/2"G	M1/2"G
	8390.402	8380.402	17m - 3/8" (995.317)	F1/2"G	M1/2"G
S. 430	8430.400	8420.400	without hose	F1/2"G	F1/2"G
	8430.401	8420.401	10m - 1/2" (996.310)	F1/2"G	M1/2"G
	8430.402	8420.402	15m - 1/2" (996.315)	F1/2"G	M1/2"G
for ABS hose reels Series 430 see page 152					
S. 530	8530.400	8520.400	without hose	F1/2"G	F1/2"G
	8530.401	8520.401	20m - 1/2" (996.320)	F1/2"G	M1/2"G
	8530.402	8520.402	25m - 1/2" (996.325)	F1/2"G	M1/2"G
S. 540	8540.400	8550.400	without hose	F1"G	F1"G
	8540.401	8550.401	15m - 3/4" (997.515)	F1"G	M3/4"G
	8540.402	8550.402	20m - 3/4" (997.520)	F1"G	M3/4"G
	8540.403	8550.403	15m - 1" (998.515)	F1"G	M1"G
	8540.405	8550.405	without hose	F1/2"G	F1/2"G
	8540.406	8550.406	30m - 1/2" (996.330)	F1/2"G	M1/2"G
S. 560	8560.400	-	without hose	F1"G	F1"G
	8560.405	-	30m - 1" (998.530)	F1"G	M1"G

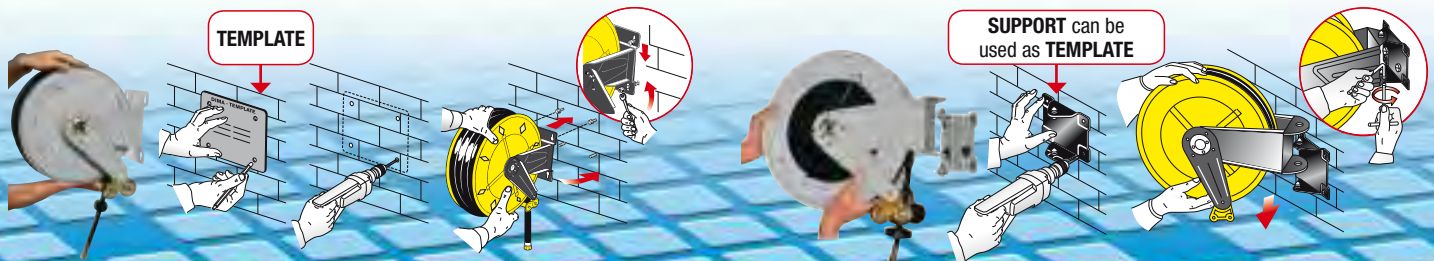
FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.

The **template** supplied facilitates drilling of the holes and therefore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables 55° rotation to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.



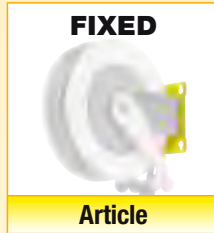


OIL AND SIMILAR PRODUCTS - 150 bar

STAINLESS STEEL



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X



Article



Article

Supplied with:

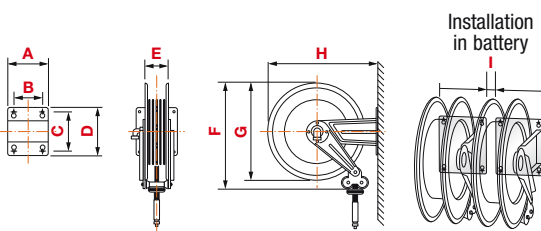
- zinc plated steel couplings
- AISI 304 stainless steel swivel joint
- "viton" seals

Hose supplied	Connection	
	inlet	outlet



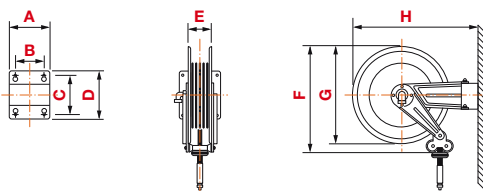
Article	Article	Hose supplied	Connection inlet	Connection outlet
S. 390	8392.200	8382.200	without hose	F1/2"G F 3/8"-1/2"G
S. 430	8434.200	8424.200	without hose	F1/2"G F1/2"G
for ABS hose reels Series 430 see page 153				
S. 530	8534.200	8524.200	without hose	F1/2"G F1/2"G
S. 540	8544.200	8554.200	without hose	F1"G F1"G

FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg*
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43
S. 550	300	218	226	268	190	560	510	702	0,175	from 25 to 41

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



GREASE - 600 bar

PAINTED STEEL

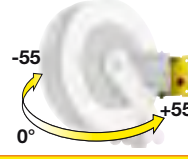


In accordance with directive ATEX
94/9 IIB 2 GD c T4 T135 °C X

FIXED



SWIVELLING



Supplied with:

- hoses in black synthetic rubber
- zinc plated steel couplings
- carbon steel swivel joint
- "polyurethane" seals



	Article	Article	Hose supplied	Connection	
				inlet	outlet
S. 330	8330.500	-	without hose	F3/8"G	F3/8"
	8330.501	-	12m - 1/4" (993.511)	F3/8"G	M1/4"G
S. 390	8390.500	8380.500	without hose	F3/8"G	F3/8"G
	8390.501	8380.501	12m - 1/4" (993.511)	F3/8"G	M1/4"G
	8390.502	8380.502	16m - 1/4" (993.516)	F3/8"G	M1/4"G
S. 430	8430.500	8420.500	without hose	F3/8"G	F1/2"G
	8430.501	8420.501	12m - 1/4" (993.512)	F3/8"G	M1/4"G
	8430.502	8420.502	18m - 1/4" (993.518)	F3/8"G	M1/4"G
	8430.505	8420.505	10m - 3/8" (995.710)	F3/8"G	M1/4"G
	8430.506	8420.506	15m - 3/8" (995.715)	F3/8"G	M1/4"G
for ABS hose reels Series 430 see page 152					
S. 530	8530.500	8520.500	without hose	F3/8"G	F1/2"G
	8530.501	8520.501	20m - 3/8" (995.720)	F3/8"G	M1/4"G
	8530.502	8520.502	25m - 3/8" (995.725)	F3/8"G	M1/4"G
S. 540	8540.500	8550.500	without hose	F3/8"G	F1/2"G
	8540.501	8550.501	30m - 3/8" (995.730)	F3/8"G	M1/4"G

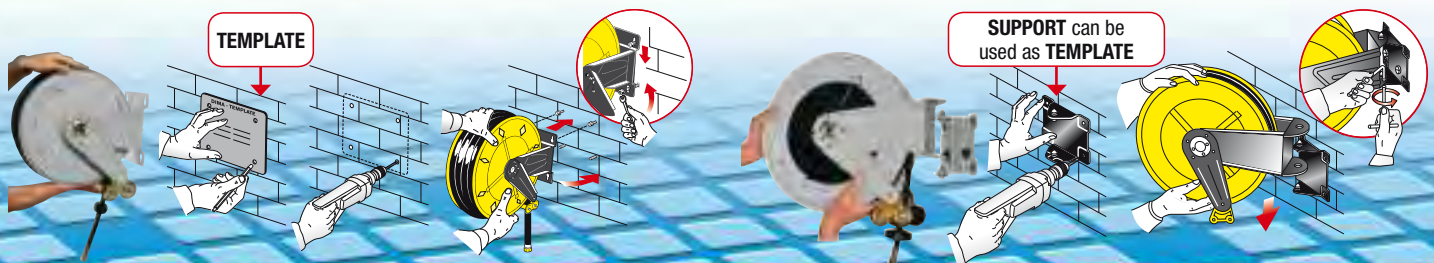
FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.

The **template** supplied facilitates drilling of the holes and therefore hose reel fixing.

SWIVELLING HOSE REELS INSTALLATION

The **quick coupling swivelling support** facilitates hose reel installation and enables **55° rotation** to the right or left or locking in **fixed positioned at 0°** by means of clamping with two screws.





GREASE - 600 bar STAINLESS STEEL



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X



FIXED

Article



SWIVELLING

Article

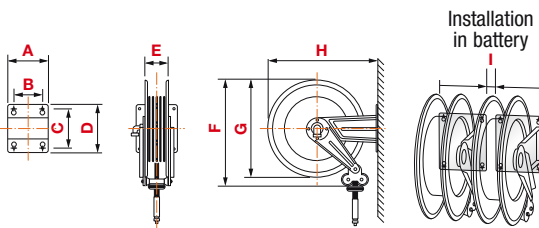
Supplied with:
- zinc plated steel couplings
- carbon steel swivel joint
- "polyurethane" seals

Hose supplied	Connection	
	inlet	outlet



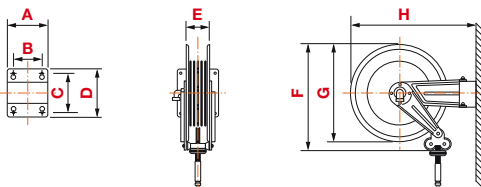
Article	Price	Price	Hose supplied	Connection inlet	Connection outlet
S. 390	8392.500	8382.500	without hose	F3/8"G	F 3/8"G
S. 430	8432.500	8422.500	without hose	F3/8"G	F1/2"G
for ABS hose reels Series 430 see page 153					
S. 530	8532.500	8522.500	without hose	F3/8"G	F1/2"G

FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg *
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40

SWIVELLING OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	1-m ³	Kg
S. 380	184	146	106	144	110	400	390	484	0,098	from 12 to 19
S. 420	208	162	118	164	115	460	420	541	0,098	from 15 to 25
S. 520	228	182	154	200	115	560	510	642	0,120	from 20 to 43

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.



DIESEL FUEL - 10 bar

PAINTED STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X

FIXED



Supplied with:

- hoses in antistatic black synthetic rubber
- zinc plated steel couplings
- brass swivel joint
- "viton" seals



S. 530

Article
8530.600
8530.603
8530.604

Hose supplied	Connection	
	inlet	outlet
without hose	F1"G	F1"G
12m - 3/4" (997.812)	F1"G	M3/4"G
8m - 1" (998.808)	F1"G	M1"G

S. 540

8540.100
8540.601
8540.602
8540.603

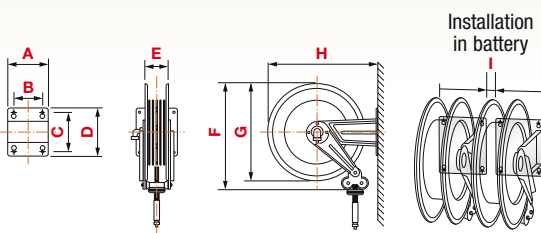
without hose	F1"G	F1"G
15m - 3/4" (997.815)	F1"G	M3/4"G
20m - 3/4" (997.820)	F1"G	M3/4"G
15m - 1" (998.815)	F1"G	M1"G

S. 560

8560.100
8560.603
8560.604
8560.605

without hose	F1"G	F1"G
40m - 3/4" (997.840)	F1"G	M3/4"G
20m - 1" (998.820)	F1"G	M1"G
30m - 1" (998.830)	F1"G	M1"G

FIXED OVERALL DIMENSIONS



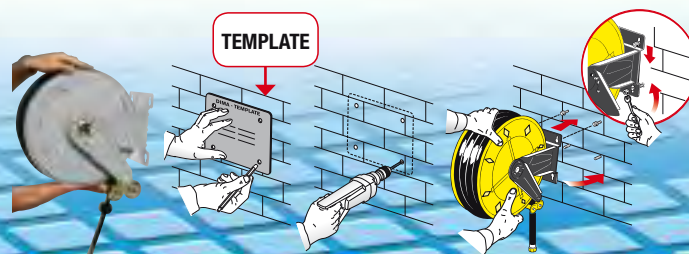
Installation in battery

Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg *
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40
S. 560	488	399	238	272	368	550	510	578	0	0,310	from 30 to 80

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel. The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.



TEMPLATE



DIESEL FUEL - 10 bar

STAINLESS STEEL



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X

FIXED



Article

Supplied with:

- hoses in antistatic black synthetic rubber
- zinc plated steel couplings
- brass swivel joint
- "viton" seals



Hose supplied	Connection	
	inlet	outlet

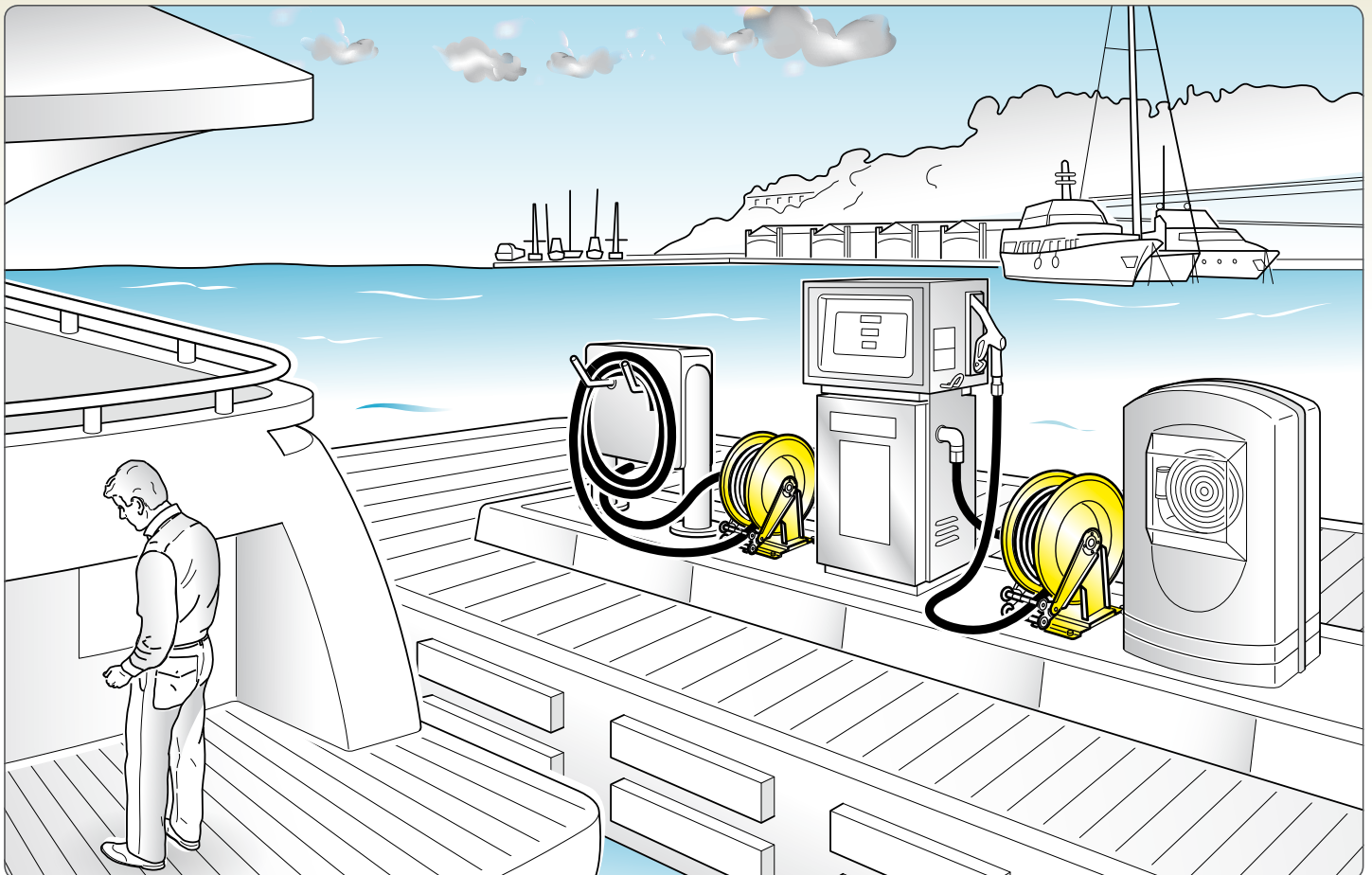


S. 540

8542.100	without hose	F1"G	F1"G
8542.601	15m - 3/4" (997.815)	F1"G	M3/4"G
8542.602	20m - 3/4" (997.820)	F1"G	M3/4"G
8542.603	15m - 1" (998.815)	F1"G	M1"G

S. 560

8562.100	without hose	F1"G	F1"G
8562.603	40m - 3/4" (997.840)	F1"G	M3/4"G
8562.604	20m - 1" (998.820)	F1"G	M1"G
8562.605	30m - 1" (998.830)	F1"G	M1"G





ADBLUE - 10 bar

PAINTED STEEL



In accordance with directive Atex 94/9 IIB 2 GD c T4 T135 °C X



S. 436

FIXED



Article

8436.200
8436.204
8436.205

Supplied with:

- hoses in antistatic EPDM rubber
- AISI 316L stainless steel couplings
- AISI 316L stainless steel swivel joint
- "viton" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1"G	F3/4"G
10m - 19x27 (967.210)	F3/4"G	M3/4"G
15m - 19x27 (967.215)	F3/4"G	M3/4"G

ADBLUE - 10 bar

INOX



S. 537

FIXED



Article

8537.200
8537.204
8537.205

Supplied with:

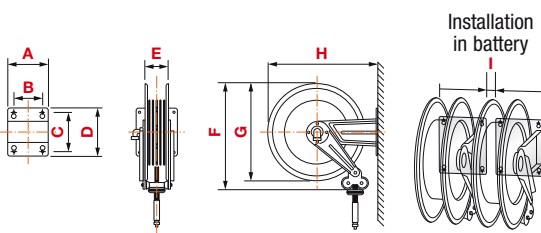
- hoses in antistatic EPDM rubber
- AISI 316L stainless steel couplings
- AISI 316L stainless steel swivel joint
- "viton" seals



Hose supplied	Connection	
	inlet	outlet
without hose	F1"G	F3/4"G
10m - 19x27 (967.210)	F3/4"G	M3/4"G
15m - 19x27 (967.215)	F3/4"G	M3/4"G

Hose reels for AdBlue, the fluid used in SCR systems which are present in Euro4 and Euro5 trucks, have been purposely designed by using **stainless steel AISI 316L** for those parts which get in contact with the fluid, avoiding in this way any contamination of the same fluid.

FIXED OVERALL DIMENSIONS

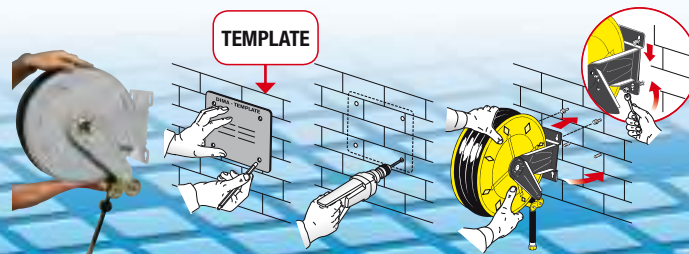


Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg
S. 436	337	302	160	203	168	450	420	460	20	0,122	from 19 to 42
S. 537	203	153	220	258	115	550	510	560	0	0,120	from 19 to 42

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel. The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.





SERIES WITH DOUBLE INLET AND OUTLET PAINTED STEEL



In accordance with directive Atex
94/9 IIB 2 GD c T4 T135 °C X



S. 430



	Article	Connection		Equipped with	
		inlet	outlet	2 swivels	seals
Air - Water 20 bar	8430.1000	F1/2"G	M3/8"G	brass	viton
Oil - Water 200 bar	8430.3000	F3/8"G	M3/8"G	AISI 304 stainless steel	viton
Oil - Paint 200 bar	8430.4000	F1/2"G	M3/8"G	steel	polyurethane
Oil 400 bar	8430.5000	F3/8"G	M3/8"G	steel	polyurethane

S. 530



Air - Water 20 bar	8530.1000	F1/2"G	M3/8"G	brass	viton
Oil - Water 200 bar	8530.3000	F3/8"G	M3/8"G	AISI 304 stainless steel	viton
Oil - Paint 200 bar	8530.4000	F1/2"G	M3/8"G	steel	polyurethane
Oil 400 bar	8530.5000	F3/8"G	M3/8"G	steel	polyurethane

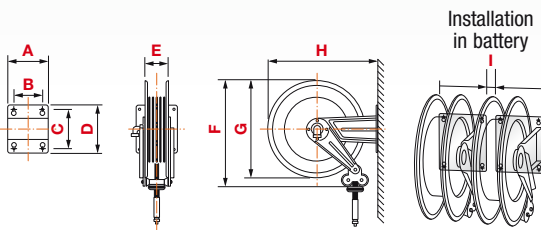
S. 540



Oil 400 bar	8540.5000	F3/8"G	M3/8"G	steel	polyurethane
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Hose reels for dual hoses can be used for the applications where it is requested **the distribution of two fluids simultaneously** (e.g. air and paint in painting systems) or the recycle of the same fluid (e.g. for hydraulic tools).

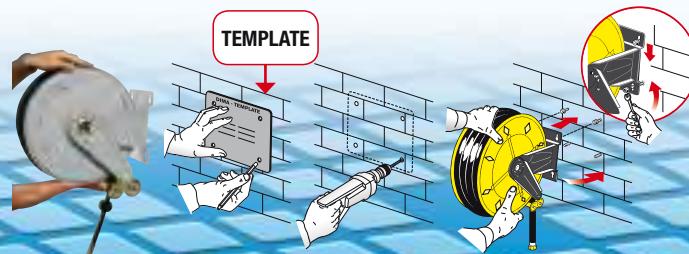
FIXED OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg
S. 430	186	140	196	226	115	460	420	460	20	0,098	17,5
S. 530	203	153	220	258	115	550	510	560	20	0,120	24,5
S. 540	300	218	228	268	190	550	510	573	0	0,175	30

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel.
The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.





WELDING - 20 bar

PAINTED STEEL



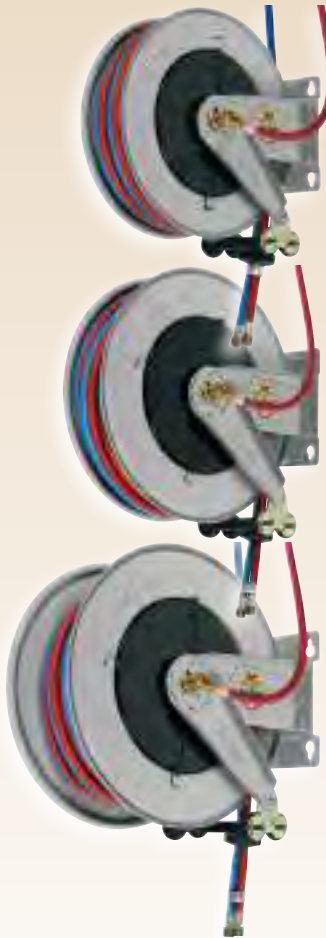
In accordance with directive ATEX 94/9 II 3 GD c (T5) 100 °C X

FIXED



Supplied with:

- double hose Standard EN559, hoses SBR/EPDM rubber
- brass fitting
- brass swivel joint
- "viton" seals



S. 430

Article
8430.700
8430.701
8430.702

Hose supplied	Connection	
	inlet	outlet
without hose	M3/8"G	M3/8"G
13m - 2x1/4" - 2x6 (973.913)	F3/8"G	F3/8"G
12m - 2x5/16" - 2x8 (974.912)	F3/8"G	F3/8"G

S. 530

8530.700
8530.701
8530.702
8530.703
8530.704
8530.705

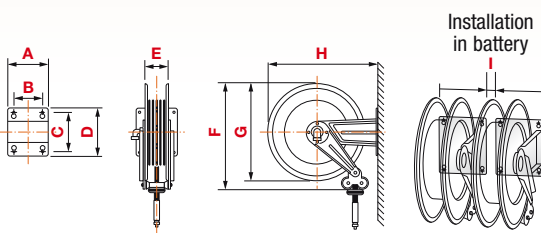
without hose	M3/8"G	M3/8"G
17m - 2x1/4" - 2x6 (973.917)	F3/8"G	F3/8"G
20m - 2x1/4" - 2x6 (973.920)	F3/8"G	F3/8"G
15m - 2x5/16" - 2x8 (974.915)	F3/8"G	F3/8"G
20m - 2x5/16" - 2x8 (974.920)	F3/8"G	F3/8"G
15m - 2x3/8" - 2x9 (975.915)	F3/8"G	F3/8"G

S. 540

8540.700
8540.701
8540.702
8540.704
8540.705
8540.707
8540.709

without hose	M3/8"G	M3/8"G
25m - 2x1/4" - 2x6 (973.925)	F3/8"G	F3/8"G
30m - 2x1/4" - 2x6 (973.930)	F3/8"G	F3/8"G
25m - 2x5/16" - 2x8 (974.925)	F3/8"G	F3/8"G
30m - 2x5/16" - 2x8 (974.930)	F3/8"G	F3/8"G
20m - 2x3/8" - 2x9 (975.920)	F3/8"G	F3/8"G
27m - 2x3/8" - 2x9 (975.927)	F3/8"G	F3/8"G

FIXED OVERALL DIMENSIONS

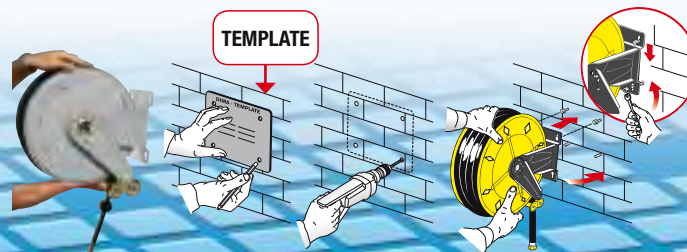


Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg *
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel. The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.





LPG / METHANE - 20 bar

PAINTED STEEL



In accordance with directive Atex 94/9 II 3 GD c (T5) 100 °C X



FIXED

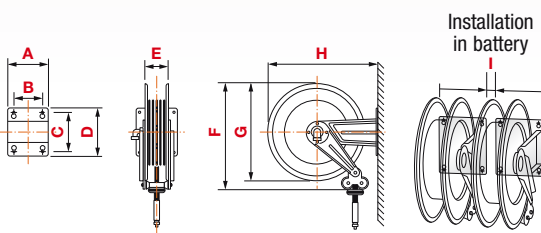


- Supplied with:
- orange hose Standard EN559
 - brass fitting
 - brass swivel joint
 - "viton" seals



	Article	Hose supplied	Connection	
			inlet	outlet
S. 330	8330.800	without hose	M3/8"G Sx	M3/8"G Sx
	8330.801	8m - 8x15 (974.1008)	F3/8"G Sx	F3/8"G Sx
	8330.802	10m - 10x17 (975.1010)	F3/8"G Sx	F3/8"G Sx
S. 390	8390.800	without hose	M3/8"G Sx	M3/8"G Sx
	8390.801	15m - 8x15 (974.1015)	F3/8"G Sx	F3/8"G Sx
	8390.802	15m - 10x17 (975.1015)	F3/8"G Sx	F3/8"G Sx
S. 430	8430.800	without hose	M3/8"G Sx	M3/8"G Sx
	8430.802	20m - 8x15 (974.1020)	F3/8"G Sx	F3/8"G Sx
	8430.804	18m - 10x17 (975.1018)	F3/8"G Sx	F3/8"G Sx
S. 530	8530.800	without hose	M3/8"G Sx	M3/8"G Sx
	8530.802	28m - 8x15 (974.1028)	F3/8"G Sx	F3/8"G Sx
	8530.804	27m - 10x17 (975.1027)	F3/8"G Sx	F3/8"G Sx
S. 540	8540.800	without hose	M3/8"G Sx	M3/8"G Sx
	8540.802	30m - 10x17 (975.1030)	F3/8"G Sx	F3/8"G Sx

FIXED OVERALL DIMENSIONS

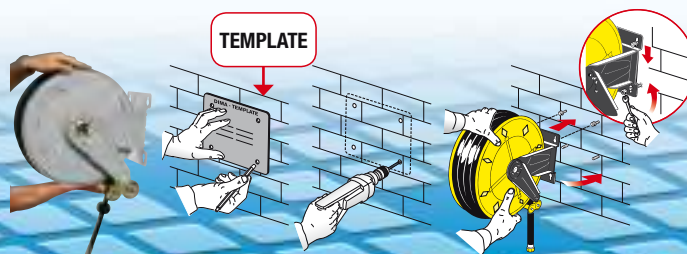


Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg *
S. 330	186	140	196	226	110	355	350	365	20	0,045	from 8 to 13
S. 390	186	140	196	226	110	400	390	410	20	0,068	from 11 to 18
S. 430	186	140	196	226	115	460	420	460	20	0,098	from 14 to 24
S. 530	203	153	220	258	115	550	510	560	20	0,120	from 19 to 42
S. 540	300	218	228	268	190	550	510	573	0	0,175	from 24 to 40

* The list shows min and max weight for each series: min weight refers to version without hose, max weight refers to heaviest version which depends on hose length and diameter.

FIXED HOSE REELS INSTALLATION

The quick coupling support is equipped with 4 slot holes that allow an easy and safe installation of the hose reel. The **template** supplied facilitates drilling of the holes and there fore hose reel fixing.



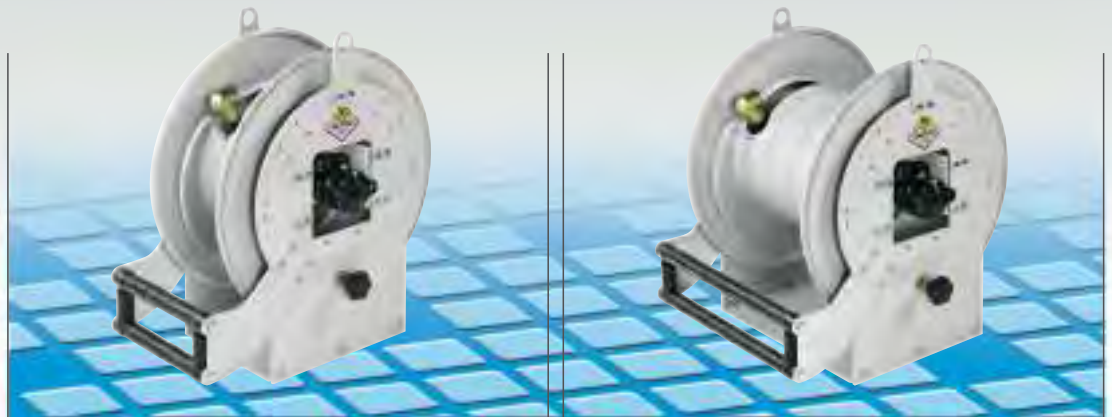
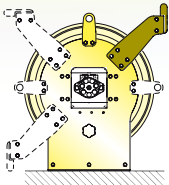


HYDRAULIC MOTOR-OPERATED SERIES

S. 617 HYDRAULIC

S. 637 HYDRAULIC

The adjustable arms can be easily repositioned according to needs.



HYDRAULIC Article	Connection		HYDRAULIC Article	Connection	
	inlet	outlet		inlet	outlet

Air - Water 20 bar - brass swivel joint - "viton" seals	8617.100	F1"G	F1"G	8637.100	F1"G	F1"G
Water max 130° C 100 bar - AISI 304 stainless steel swivel joint - "viton" seals	8617.200	F1"G	F1"G	8637.200	F1"G	F1"G
Oil and similar products 150 bar - carbon steel swivel joint - "polyurethane" seals	8617.400	F1"G	F1"G	8637.400	F1"G	F1"G
Grease 400 bar - carbon steel swivel joint - "polyurethane" seals	8617.500	F1"G	F1"G	8637.500	F1"G	F1"G
Diesel fuel 10 bar - carbon steel swivel joint - "viton" seals	8617.600	F1.1/2"G	F1.1/2"G	8637.600	F1.1/2"G	F1.1/2"G

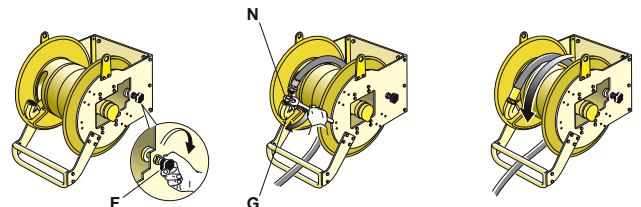
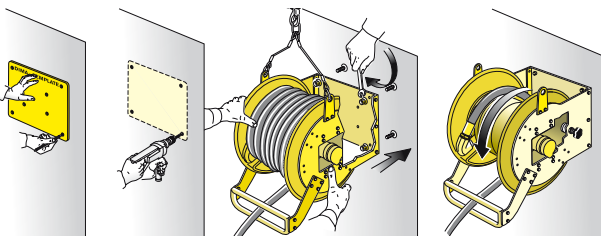
WALL MOUNTING

HOSE MOUNTING - 1" Connector

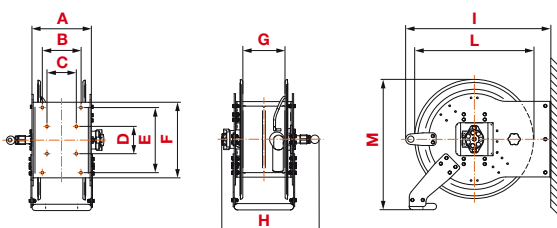
After choosing the ideal position, checking the consistency and thickness of the wall, marking the holes for the plugs (see template supplied with the hose reel) and making sure they do not interfere with hydraulic pipes or electrical wires, proceed with drilling. Fix the plugs in the wall and insert the hose reel in the special seats. Tighten the 4 fixing nuts.

Before carrying out the operation, make sure the hose reel drum is locked by means of the parking brake **F**.

Screw one Nipple **N** on the outlet elbow **G**.
Apply the hose on Nipple **N**.



HYDRAULIC OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	L	M	1-m ³	Kg
S. 617	283	185	140	130	310	360	220	463	692	570	621	0,310	from 55 to 86
S. 637	467	370	140	130	310	360	400	649	692	570	621	0,473	from 75 to 137

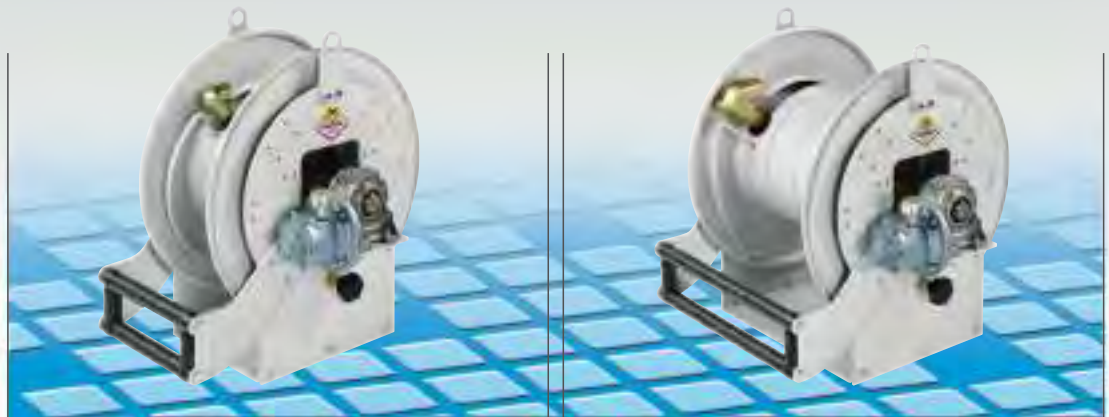
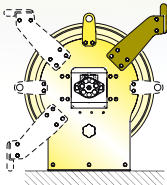


AIR MOTOR-OPERATED SERIES

S. 618 PNEUMATIC

S. 638 PNEUMATIC

The adjustable arms can be easily repositioned according to needs.

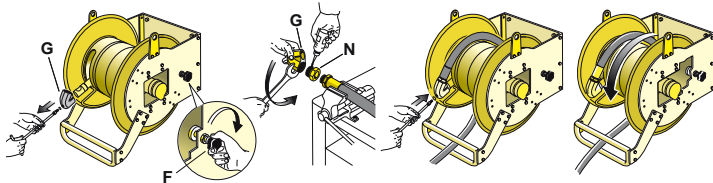


PNEUMATIC Article	Connection		PNEUMATIC Article	Connection	
	inlet	outlet		inlet	outlet

Air - Water 20 bar - bras swivel joint - "viton" seals	8618.100	F1"G	F1"G	8638.100	F1"G	F1"G
Water max 130° C 100 bar - AISI 304 stainless steel swivel joint - "viton" seals	8618.200	F1"G	F1"G	8638.200	F1"G	F1"G
Oil and similar products 150 bar - carbon steel swivel joint - "polyurethane" seals	8618.400	F1"G	F1"G	8638.400	F1"G	F1"G
Grease 400 bar - carbon steel swivel joint - "polyurethane" seals	8618.500	F1"G	F1"G	8638.500	F1"G	F1"G
Diesel fuel 10 bar - brass swivel joint - "viton" seals	8618.100	F1"G	F1"G	8638.100	F1"G	F1"G

HOSE MOUNTING - 1.1/2" Connector

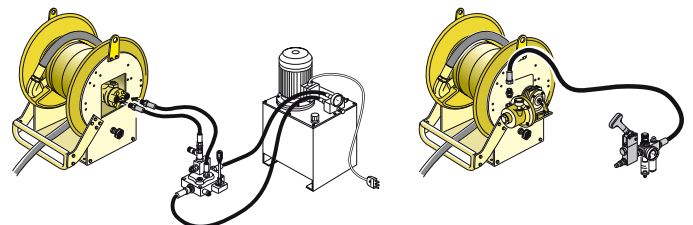
Before carrying out the operation, make sure the hose reel drum is locked by means of the brake **F**. Remove the outlet elbow **G**. Screw one Nipple **N** on the outlet elbow **G**. Screw the hose on nipple **N**. Hose with connections 1.1/2" must be connect directly to the elbow **G**. Refit the outlet elbow **G** with the assembled parts.



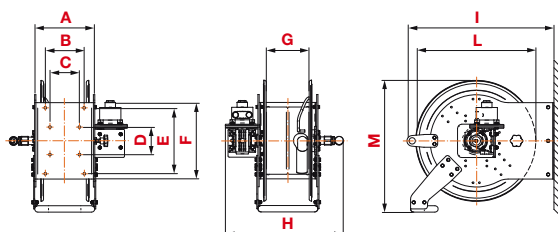
POWER SUPPLY

The hydraulic motor-operated hose reels are fed, by means of a control, by an electric control unit (control and control unit not supplied).

The air motor-operated hose reels are fed, by means of a control, with direct connection to the compressed air system (control not supplied).



PNEUMATIC OVERALL DIMENSIONS



HYDRAULIC MOTOR-OPERATED
Oil pressure max 170 bar at
5 l/min inlet feeding

AIR MOTOR-OPERATED HOSE REELS
Air pressure max 7 bar at
2000 l/min inlet feeding

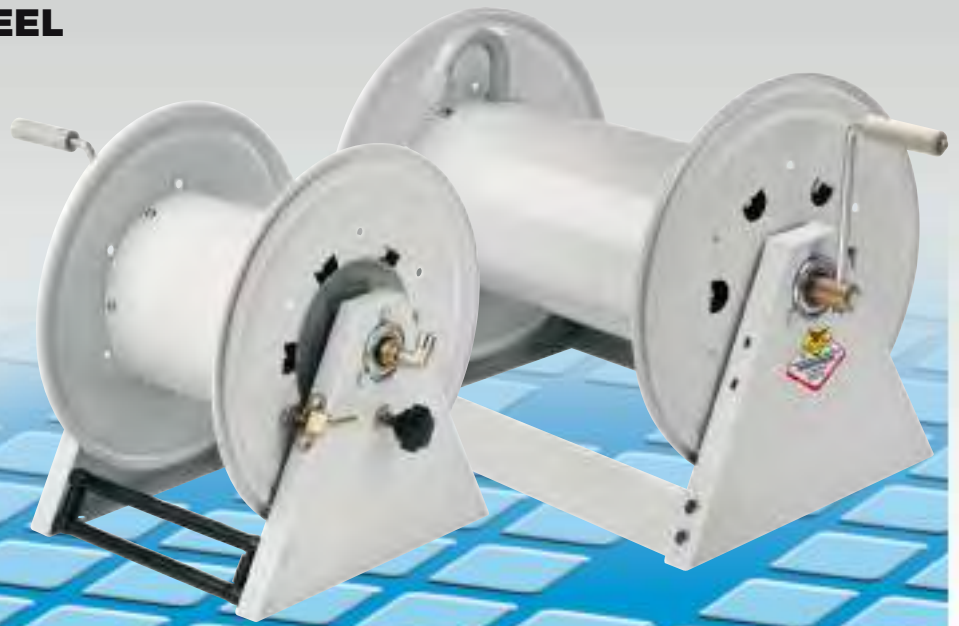
Art.	A	B	C	D	E	F	G	H	I	L	M	1-m ³	Kg
S. 618	283	185	140	130	310	360	220	555	692	570	621	0,310	from 51 to 82
S. 638	467	370	140	130	310	360	400	740	692	570	621	0,473	from 71 to 133



SERIES 500 MANUAL

PAINTED STEEL

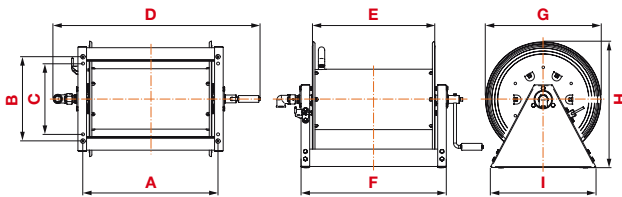
Manual rewinding hose reels are an easy and practical way to manage flexible hoses. Operation is extremely simple and needs very little maintenance. Made with high quality materials with a robust frame, manual rewinding hose reels are an inexpensive alternative to spring rewinding hose reels particularly for very long hoses.



	width 240 mm	width 320 mm	width 460 mm	width 600 mm	Connection	
					inlet	outlet
Air - Water 20 bar - brass swivel joint - "viton" seals	7522001.100	7532001.100	7552001.100	7562001.100	1"	1"1
	7522001.150	7532001.150	7552001.150	7562001.150	1/2"	1/2"
Water max 130° C 100 bar - AISI 304 stainless steel swivel joint - "viton" seals	7522001.200	7532001.200	7552001.200	7562001.200	1"	1"
	7522001.250	7532001.250	7552001.250	7562001.250	1/2"	1/2"
Water max 130° C 200 bar - AISI 304 stainless steel swivel joint - "viton" seals	7522001.300	7522001.300	7552001.300	7562001.300	3/8"	1/2"
Oil and similar products 150 bar - carbon steel swivel joint - "polyurethane" seals	7522001.400	7532001.400	7552001.400	7562001.400	1"	1"
	7522001.450	7532001.450	7552001.450	7562001.450	1/2"	1/2"
Oil and similar products 150 bar - carbon steel swivel joint - "polyurethane" seals	7522001.100	7532001.100	7552001.100	7562001.100	1"	1"

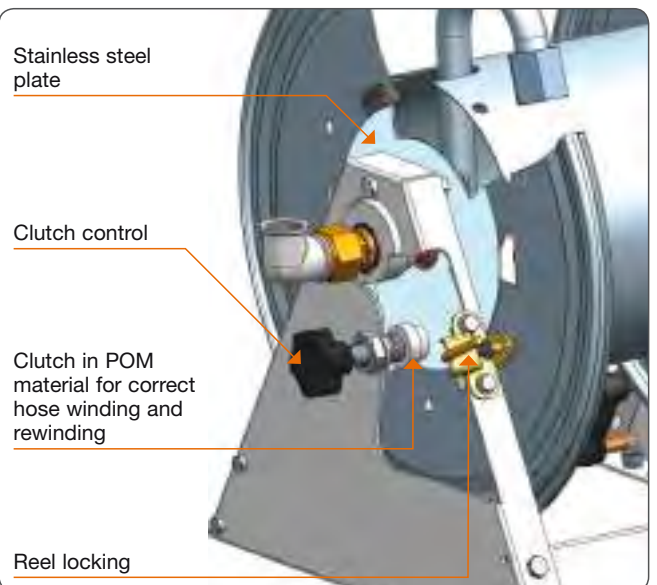
Hose reel capacity	L240	L320	L460	L600
ø 3/8"	50 m	80 m	120 m	160 m
ø 1/2"	40 m	70 m	105 m	140 m
ø 3/4"	25 m	40 m	60 m	80 m
ø 1"	20 m	30 m	45 m	60 m

OVERALL DIMENSIONS



Art.	A	B	C	D	E	F	G	H	I	1-m ³	Kg
L 240	297	373	313	631	242	342	510	555	468	0,208	25,2
L 320	377	373	313	711	322	422	510	555	468	0,243	26,8
L 460	517	373	313	851	462	562	510	555	468	0,304	29,3
L 600	657	373	313	991	602	702	510	555	468	0,365	31,9

Technical features





GROUNDING REEL

Grounding reel satisfies the need to ground fuel tanks during transferring operation in order to discharge electric charges.



APPLICATIONS:

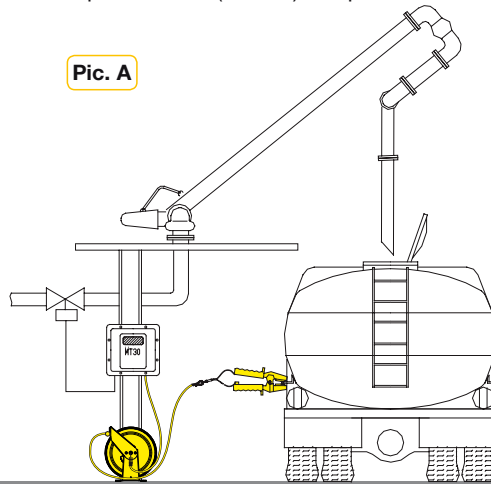
tanks and oil-refinery, aviation, tank truck, boating.



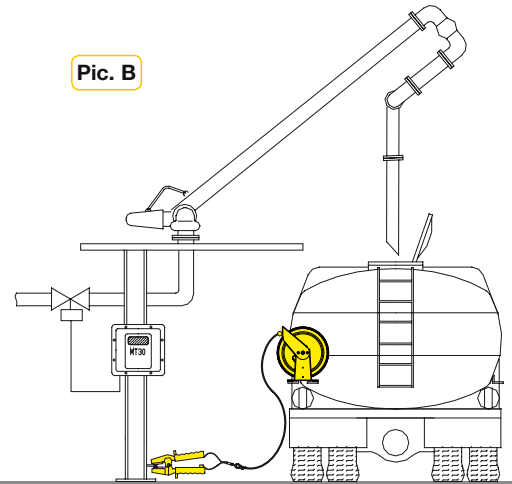
Operation:

Before begin fuel transfer operator must connect the grounding clamp, mounted at the end of the cable, to the grounding plate which is compulsory on every tank truck (Pic. A). As an alternative the grounding reel may be installed on the tank truck and the clamp connected to the grounding plate (Pic. B). Grounding reel must be installed in a safe zone (potentially not dangerous) since it is not provided with Atex Certification. Antiexplosive clamp, standard on some models below listed, may be installed in a potential explosive area (Zone 1) as specified in the CE declaration.

Pic. A

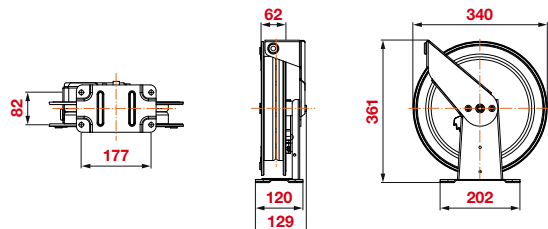


Pic. B



Article	Cable material	Insulation	Cable cross section	Cable length	Grounding clamp
735000	without cable	max cable capacity 30 m - cross section 16 mm ²			
735131.60141	copper	PUR	6 mm ²	14,5 m	antiexplosive 10A
735131.60261	copper	PUR	6 mm ²	26 m	antiexplosive 10A
735131.60152	copper	PUR	6 mm ²	15 m	standard 50A
735131.60252	copper	PUR	6 mm ²	25 m	standard 50A
735141.60152	steel	PVC	7x7 ø 5 mm	15 m	standard 50A
735141.60252	steel	PVC	7x7 ø 5 mm	25 m	standard 50A

OVERALL DIMENSIONS



☐ N°1 packing m³ 0,045 📦 from kg 10,3 to 11,5

Art. 735111 Standard grounding clamp 100A





SERIES 700 MOTOR-OPERATED AND MANUAL PAINTED STEEL



...for the complete range of
Industrial hose reels Series 700
please refer to specific brochure



Industrial hose reels series 700 have been designed for fluids delivering in all the heavy applications of industry, mining, building construction, shipyard etc.
They are available in 4 different sizes each of them may be equipped with the following motor: **electric (high or low voltage), pneumatic, hydraulic or manual.**
They can manage hoses with max 2" I D, max length 250 m (with 3/8" hose), suitable for max pressure of 70 bar.



wall bracket for fixed hose reels

quick fit wall brackets supplied on request



Art. 843001

Art. 843002

Art. 843001

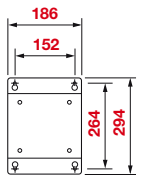
Fixed support in steel

for fixed hose reels in painted steel series 290 - 330 - 390 - 430

Art. 843002

Fixed support in AISI 304 stainless steel

for fixed hose reels in stainless steel and Aisi 304 series 290 - 330 - 390 - 430

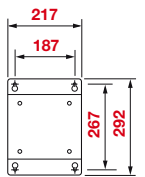


Art. 845001

Art. 845001

Fixed support in steel

for fixed enclosed hose reels in painted steel series 450



Art. 853001

Art. 853002

Art. 853001

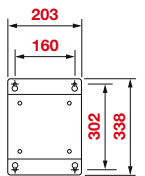
Fixed support in steel

for fixed hose reels in painted steel series 530

Art. 853002

Fixed support in AISI 304 stainless steel

for fixed hose reels in stainless steel and Aisi 304 series 530



Art. 854001

Art. 854002

Art. 854001

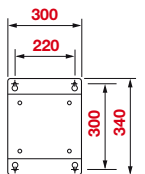
Fixed support in steel

for fixed hose reels in painted steel series 540

Art. 854002

Fixed support in AISI 304 stainless steel

for fixed hose reels in stainless steel and Aisi 304 series 540



Art. 856001

Art. 856002

Art. 856001

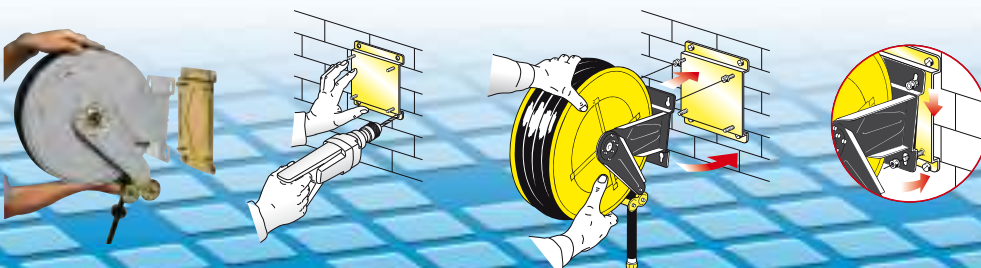
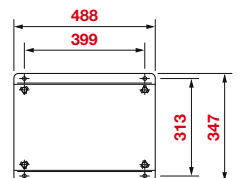
Fixed support in steel

for fixed hose reels in painted steel series 560

Art. 856002

Fixed support in AISI 304 stainless steel

for fixed hose reels in stainless steel and Aisi 304 series 560



The **quick coupling support** that facilitates hooking of the single hose reel and optimises its installation in battery (i.e. with several hose reels side by side) is available by request



swivelling support for fixed hose reels

quick fit swivel brackets supplied on request



Art. 843005



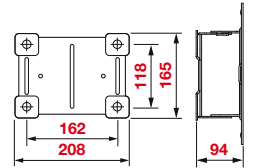
Art. 843006

Art. 843005

Swivelling support in steel
for fixed hose reels in painted steel
series 290 - 330 - 390 - 430

Art. 843006

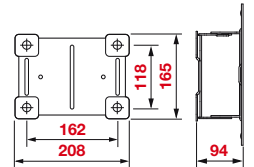
Swivelling support in AISI 304 stainless steel
for fixed hose reels in stainless steel and Aisi 304
series 290 - 330 - 390 - 430



Art. 845005

Art. 845005

Swivelling support in steel
for fixed enclosed hose reels in painted steel
series 450



Art. 853005



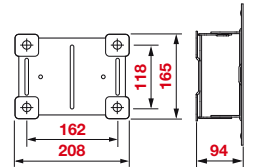
Art. 853006

Art. 853005

Swivelling support in steel
for fixed hose reels in painted steel
series 530

Art. 853006

Swivelling support in AISI 304 stainless steel
for fixed hose reels in stainless steel and Aisi 304
series 530



Art. 854005



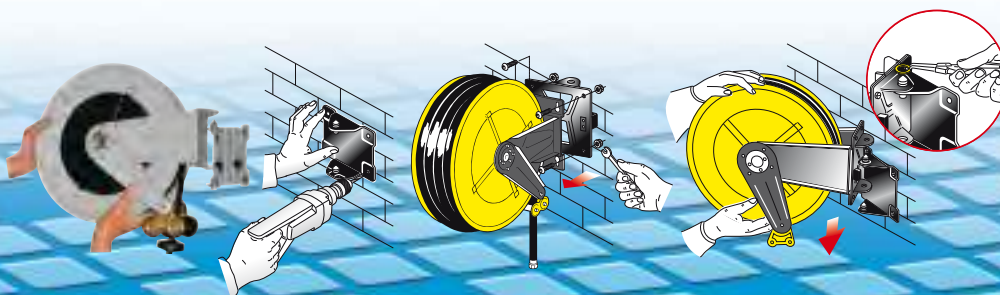
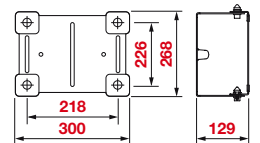
Art. 854006

Art. 854005

Swivelling support in steel
for fixed enclosed hose reels in painted steel
series 540

Art. 854006

Swivelling support in AISI 304 stainless steel
for fixed hose reels in stainless steel and Aisi 304
series 540



The quick coupling swivelling support facilitates hose reel installation and enables 40° rotation to the right or left or locking in fixed positioned at 0° by means of clamping with two screws is available by request



Hoses

technical data

Hose reel outlet hose connections fittings

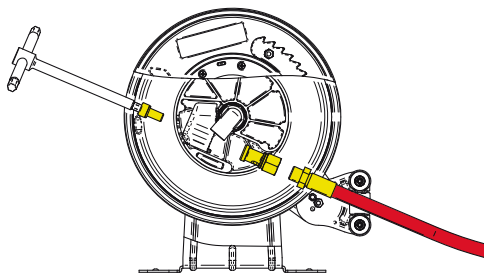


- Art. **66893** Nipple in carbon steel M 1/2"G x M 1/4"G cylindrical/cylindrical thread
- Art. **33114** Nipple in carbon steel M 1"G x M 1/2"G cylindrical/cylindrical thread
- Art. **33116** Nipple in carbon steel M 1"G x M 1"G cylindrical/cylindrical thread
- Art. **33117** Nipple in carbon steel M 3/4"G x M 3/4"G cylindrical/cylindrical thread
- Art. **33119** Nipple in carbon steel M 1"G x M 3/4"G cylindrical/cylindrical thread
- Art. **33270** Nipple in carbon steel M 1.1/2"G x M 3/4"G cylindrical/cylindrical thread
- Art. **33271** Nipple in carbon steel M 1.1/2"G x M 1"G cylindrical/cylindrical thread
- Art. **33272** Nipple in carbon steel M 1.1/2"G x M 1.1/4"G cylindrical/cylindrical thread
- Art. **33273** Nipple in carbon steel M 1.1/2"G x F 1.1/4"G cylindrical/cylindrical thread
- Art. **33274** Nipple in carbon steel M 1"G x F 1/2"G cylindrical/cylindrical thread
- Art. **38071** Nipple in carbon steel M 1/2"G x M 1/2"G tapered/cylindrical thread
- Art. **38072** Nipple in carbon steel M 1/2"G x M 3/8"G cylindrical/cylindrical thread

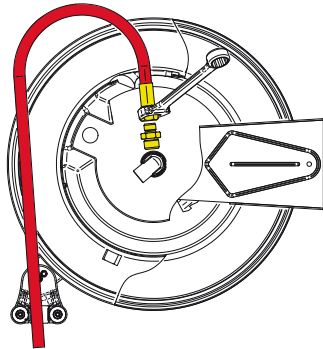


- Art. **33128** Nipple in AISI 304 stainless steel M 1"G x M 3/4"G cylindrical/cylindrical thread
- Art. **33129** Nipple in AISI 304 stainless steel M 1"G x M 1"G cylindrical/cylindrical thread
- Art. **33130** Nipple in AISI 304 stainless steel M 3/4"G x M 3/4"G cylindrical/cylindrical thread
- Art. **38120** Nipple in AISI 304 stainless steel M 1/2"G x M 3/8"G cylindrical/cylindrical thread
- Art. **38121** Nipple in AISI 304 stainless steel M 1/2"G x M 1/2"G tapered/cylindrical thread

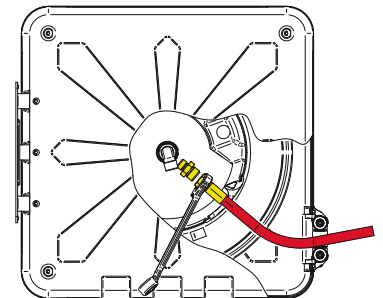
HOSE REEL OUTLET HOSE CONNECTION



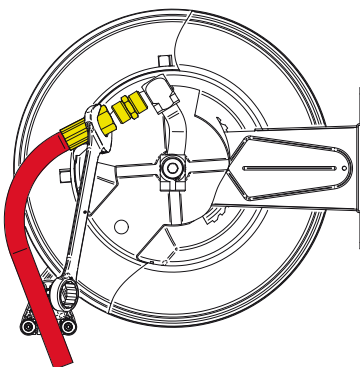
Series 290 - 330 - 380 - 390



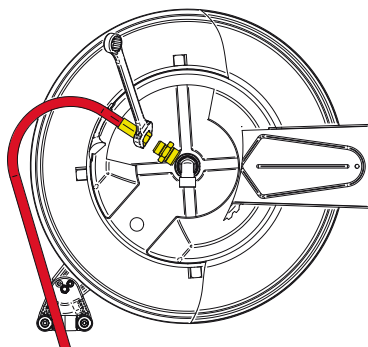
Series 420 - 430 - 520 - 530



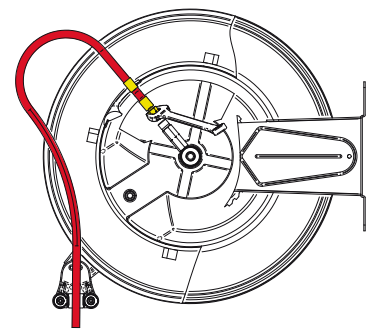
Series 440 - 450



Series 540-550-560
outlet 1"



Series 540-550-560
outlet 1/2"



Series Welding - Natural Gas

HOSES - TECHNICAL DATA

The range of hoses offered by RAASM for its hose reels is in line with company's quality standards and guarantees excellent performance in the applications with the pressures specified in the catalogue. For conditions different from those recommended, RAASM is available to appraise every aspect of the application context (compatibility of the materials used with the fluid, temperature of use, working pressure, etc.) together with the customer for identifying the right hose for each specific case.



The hoses to be assembled on the hose reels must be suitable for the **working pressures specified on the label**.

HOSE REEL - SYSTEMS EQUIPMENT CONNECTION HOSES TABLE

Article	Hose length	Hose characteristics	Ø Hose	Dimensions	Inlet	Outlet	Pressure	Unions
967.206	0,6m	rubber EPDM antistatic	3/4"	19 x 27	F 3/4"G	M 1"G	10 bar	s/steel AISI 316
971.102	1,5m	polyurethane	5/16"	8 x 12	M 1/4"G	SNODO	20 bar	brass
975.902	1,5m	SBR/EPDM	2 x 3/8"	9 + 9x16	F 3/8"G	F 3/8"G	20 bar	brass
975.1002	1,5m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx	20 bar	brass
972.102	1,5m	polyurethane	10 x 14,5	10 x 14,5	M 3/8"G	F 3/8"G	20 bar	brass
976.102	1,5m	polyurethane	13 x 19	13 x 19	F 1/2"G	M 1/2"G	20 bar	brass
993.201	1m	black rubber	1/4"	6,4 x 13	F 1/4"G	M 1/4"G	20 bar	galvanised steel
993.202	2m	black rubber	1/4"	6,4 x 13	F 1/4"G	M 1/4"G	20 bar	galvanised steel
995.206	0,6m	black rubber	3/8"	9,5 x 16	F 3/8"G	M 3/8"G	20 bar	galvanised steel
996.406	0,6m	hygienic cover	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G	100 bar	galvanised steel
998.406	0,6m	hygienic cover	1"	24,5 x 31,5	F 1"G	M 1"G	100 bar	galvanised steel
996.306	0,6m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G	150 bar	galvanised steel
996.301	1m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G	150 bar	galvanised steel
996.302	2m	black rubber	1/2"	12,7 x 19	F 1/2"G	F 1/2"G	150 bar	galvanised steel
996.304	4m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G	150 bar	galvanised steel
997.505	5m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G	150 bar	galvanised steel
998.506	0,6m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G	150 bar	galvanised steel
998.501	1m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G	150 bar	galvanised steel
998.502	2m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G	150 bar	galvanised steel
995.506	0,6m	black rubber	3/8"	9,5 x 17	F 3/8"G	M 3/8"G	200 bar	galvanised steel
995.606	0,6m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	M 3/8"G	200 bar	galvanised steel
995.806	0,6m	black rubber	3/8"	9,5 x 17,5	F 3/8"G	M 3/8"G	400 bar	galvanised steel
995.906	0,6m	hygienic cover	3/8"	9,5 x 17,5	F 3/8"G	M 3/8"G	400 bar	galvanised steel
993.504	4m	black rubber	1/4"	6,3 x 17,5	F 1/4"G	M 1/4"G	600 bar	galvanised steel
995.706	0,6m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 3/8"G	600 bar	galvanised steel
995.701	1m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 3/8"G	600 bar	galvanised steel
995.702	2m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 3/8"G	600 bar	galvanised steel



Hoses

technical data

Air
Water
20 bar

Fittings
Galvanised steel
for black rubber hoses

Brass
for polyurethane hoses

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
971.010	10m	polyurethane	1/4"	6 x 10	M 3/8"G	M 1/4"G
971.011	11m	polyurethane	1/4"	6 x 10	M 1/4"G	M 1/4"G
971.015	15m	polyurethane	1/4"	6 x 10	M 3/8"G	M 1/4"G
971.111	11m	polyurethane	5/16"	8 x 12	M 1/4"G	M 1/4"G
971.115	15m	polyurethane	5/16"	6 x 12	M 3/8"G	M 1/4"G
971.118	18m	polyurethane	5/16"	8 x 12	M 3/8"G	M 1/4"G
971.120	20m	polyurethane	5/16"	8 x 12	M 3/8"G	M 1/4"G
972.113	13m	polyurethane	3/8"	10 x 14,5	M 3/8"G	M 3/8"G
972.115	15m	polyurethane	3/8"	10 x 14,5	M 3/8"G	M 3/8"G
972.120	20m	polyurethane	3/8"	10 x 14,5	M 3/8"G	M 3/8"G
976.108	8m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
976.110	10m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
976.111	10m	polyurethane	1/2"	13 x 19	F 1/2"G	M 1/2"G
976.112	12m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
976.114	15m	polyurethane	1/2"	13 x 19	M 1/2"G	M 1/2"G
976.115	15m	polyurethane	1/2"	13 x 19	F 1/2"G	M 1/2"G
993.215	15m	black rubber	1/4"	6,5 x 12,6	M 3/8"G	M 1/4"G
995.210	10m	black rubber	3/8"	9,5 x 17	M 3/8"G	M 3/8"G
995.211	12m	black rubber	3/8"	9,5 x 16	M 3/8"G	M 3/8"G
995.212	12m	black rubber	3/8"	9,5 x 16	F 3/8"G	M 3/8"G
995.217	18m	black rubber	3/8"	9,5 x 16	M 3/8"G	M 3/8"G
995.218	18m	black rubber	3/8"	9,5 x 16	F 3/8"G	M 3/8"G
996.210	10m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
996.215	15m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
996.220	20m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
996.225	25m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
996.230	30m	black rubber	1/2"	12,7 x 20	F 1/2"G	M 1/2"G
997.215	15m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
997.220	20m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
997.230	30m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
997.240	40m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
998.215	15m	black rubber	1"	25,4 x 32,5	F 1"G	M 1"G
998.220	20m	black rubber	1"	25,4 x 32,5	F 1"G	M 1"G
998.230	30m	black rubber	1"	25,4 x 32,5	F 1"G	M 1"G

Water
max 130° C
100 bar

Fittings
Galvanised steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
995.313	12m	black rubber	3/8"	9,5 x15	M 3/8"G	M 3/8"G
995.318	17m	black rubber	3/8"	9,5 x15	M 3/8"G	M 3/8"G
995.412	12m	hygieninc cover	3/8"	9,5 x15	M 3/8"G	M 3/8"G
996.311	10m	black rubber	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
996.316	15m	black rubber	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
996.321	20m	black rubber	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
996.415	15m	hygienic cover	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
996.425	25m	hygienic cover	1/2"	12,7 x 18,5	F 1/2"G	M 1/2"G
997.320	20m	black rubber	3/4"	19 x 25	F 3/4"G	M 3/4"G
997.420	20m	hygienic cover	3/4"	19 x 25	F 3/4"G	M 3/4"G
998.315	15m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G
998.330	30m	black rubber	1"	25,4 x 31,5	F 1"G	M 1"G



Hoses

technical data

Water
max 130° C
200 bar

Fittings
Galvanised steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
994.512	12m	black rubber	5/16"	8 x 15	M 3/8"G	F 3/8"G
994.517	17m	black rubber	5/16"	8 x 15	M 3/8"G	F 3/8"G
994.612	12m	hygienic cover	5/16"	8 x 15	M 3/8"G	F 3/8"G
995.512	12m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.518	18m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.520	20m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.525	25m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.530	30m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.540	40m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.550	50m	black rubber	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.618	18m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.625	25m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	F 3/8"G
995.630	30m	hygienic cover	3/8"	9,5 x 17	F 3/8"G	F 3/8"G

Water
max 130° C
400 bar

Fittings
Galvanised steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
994.717	17m	black rubber	5/16"	8 x 16	M 3/8"G	F 3/8"G
995.818	18m	black rubber	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G
995.825	25m	black rubber	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G
995.918	18m	hygienic cover	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G
995.925	25m	hygienic cover	3/8"	9,5 x 17,5	F 3/8"G	F 3/8"G

Oil and similar
products
150 bar

Fittings
Galvanised steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
995.312	12m	black rubber	3/8"	9,5 x 17	M 3/8"G	M 1/2"G
995.317	17m	black rubber	3/8"	9,5 x 17	M 3/8"G	M 1/2"G
996.310	10m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
996.315	15m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
996.320	20m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
996.325	25m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
996.330	30m	black rubber	1/2"	12,7 x 19	F 1/2"G	M 1/2"G
997.515	15m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
997.520	20m	black rubber	3/4"	19 x 26,5	F 3/4"G	M 3/4"G
998.515	15m	black rubber	1"	25,4 x 35,5	F 1"G	M 1"G
998.530	30m	black rubber	1"	25,4 x 35,5	F 1"G	M 1"G

Grease
600 bar

Fittings
Galvanised steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
993.511	12m	black rubber	1/4"	6,3 x 17,5	M 3/8"G	M 1/4"G
993.512	12m	black rubber	1/4"	6,3 x 17,5	F 1/4"G	M 1/4"G
993.516	16m	black rubber	1/4"	6,3 x 17,5	M 3/8"G	M 1/4"G
993.518	18m	black rubber	1/4"	6,3 x 17,5	F 1/4"G	M 1/4"G
995.710	10m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
995.715	15m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
995.720	20m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
995.725	25m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G
995.730	30m	black rubber	3/8"	9,5 x 18	F 3/8"G	M 1/4"G



Hoses

technical data

Diesel fuel
10 bar

Fittings
Galvanised steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
997.812	12m	black rubber	3/4"	19 x 27	F 1/2"G	M 1/2"G
997.815	15m	black rubber	3/4"	19 x 27	F 3/4"G	M 3/4"G
997.820	20m	black rubber	3/4"	19 x 27	F 3/4"G	M 3/4"G
997.840	40m	black rubber	3/4"	19 x 27	F 3/4"G	M 3/4"G
998.808	8m	black rubber	1"	25 x 35	F 1"G	M 1"G
998.815	15m	black rubber	1"	25 x 35	F 1"G	M 1"G
998.820	20m	black rubber	1"	25 x 35	F 1"G	M 1"G
998.830	30m	black rubber	1"	25 x 35	F 1"G	M 1"G

AdBlue
10 bar

Fittings
AISI 316
Stainless steel

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
967.210	10m	rubber EPDM antistatic	3/4"	19 x 27	F 3/4"G	M 3/4"G
967.215	15m	rubber EPDM antistatic	3/4"	19 x 27	F 3/4"G	M 3/4"G

Welding
20 bar
EN 559

Fittings
Brass

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
973.913	13m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	M 3/8"G
973.917	17m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
973.920	20m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
973.925	25m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
973.930	30m	SBR/EPDM	2x1/4"	6,3 + 6,3x13	F 3/8"G	F 3/8"G
974.912	12m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
974.915	15m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
974.920	20m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
974.925	25m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
974.930	30m	SBR/EPDM	2x5/16"	8 + 8x15	F 3/8"G	F 3/8"G
975.915	15m	SBR/EPDM	2x3/8"	9 + 9x16	F 3/8"G	F 3/8"G
975.920	20m	SBR/EPDM	2x3/8"	9 + 9x16	F 3/8"G	F 3/8"G
975.927	27m	SBR/EPDM	2x3/8"	9 + 9x16	F 3/8"G	F 3/8"G

Lpg and
Natural gas
20 bar
EN 559

Fittings
Brass

Article	Hose length	Hose characteristics	ø Hose	Dimensions	Inlet	Outlet
974.1008	8m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
974.1015	15m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
974.1020	20m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
974.1028	28m	NBR/PVC	5/16"	8 x 15	F 3/8"G-Sx	F 3/8"G-Sx
975.1010	10m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
975.1015	15m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
975.1018	18m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
975.1027	27m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx
975.1030	30m	NBR/PVC	3/8"	10 x 17	F 3/8"G-Sx	F 3/8"G-Sx



INDUSTRIAL PUMPS

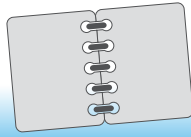




RAASM INDUSTRIAL

FLUIDS AND LUBRICATION EQUIPMENT

Industrial Pumps



INTRODUCTION

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PUMPS FOR OILS AND SIMILAR PRODUCTS

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HIGH FLOW PUMPS FOR OIL AND SIMILAR PRODUCTS

page **200**



GREASE PUMPS

page **202**



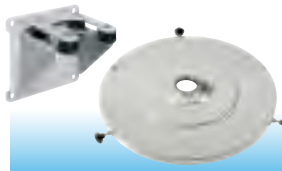
PUMPS FOR INDUSTRIAL FLUIDS

page **206**



AISI 304 STAINLESS STEEL PUMPS

page **208**



ACCESSORIES

page **210**



PUMP ELEVATORS AND RAM

page **212**



Total Quality



Innovative design for optimising the pump work cycle.
The result of years of research and development, during which numerous tests were carried out for thousands of work hours.

High quality materials used, cutting-edge processes, hardening and grinding for reducing internal friction and limiting wear.

Fewer moving parts for easy and occasional maintenance with savings in running costs.

The industrial pumps guarantee high efficiency in capacity and operating pressure.

Double action ensures a continuous and constant flow of the fluid delivered.

Versatility

INTEGRAL INDUSTRIAL PUMPS



Air motor and pumping unit form a single body. They are recommended for transferring non-corrosive fluids, oil and allied products.

FLANGED INDUSTRIAL PUMPS



Air motor and pumping unit form a single body. They are recommended for transferring non-corrosive fluids, oil and allied products. The motor base is flanged to enable application of the handles which are useful for easy moving and for simple fixing in various other applications.

DIVORCED INDUSTRIAL PUMPS

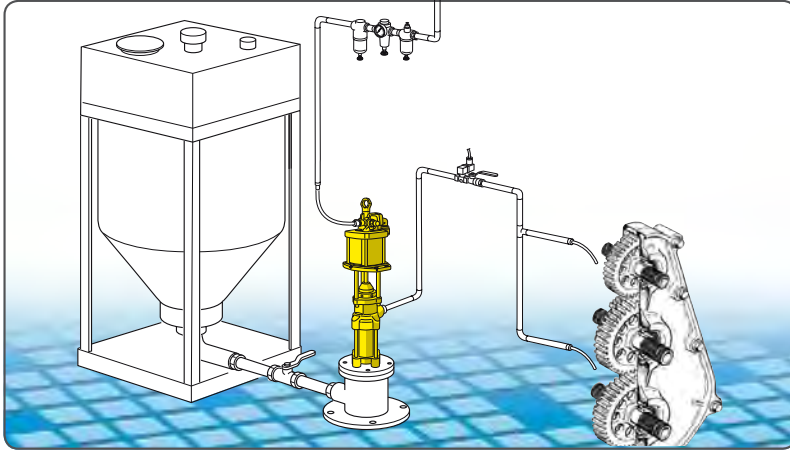


Air motor and pumping unit are separate so that the fluid cannot come into direct contact with the motor body. They are recommended for transferring non-aggressive industrial and chemical fluids. The motor base is flanged to enable application of the handles which are useful for easy moving and for simple fixing in various other applications.

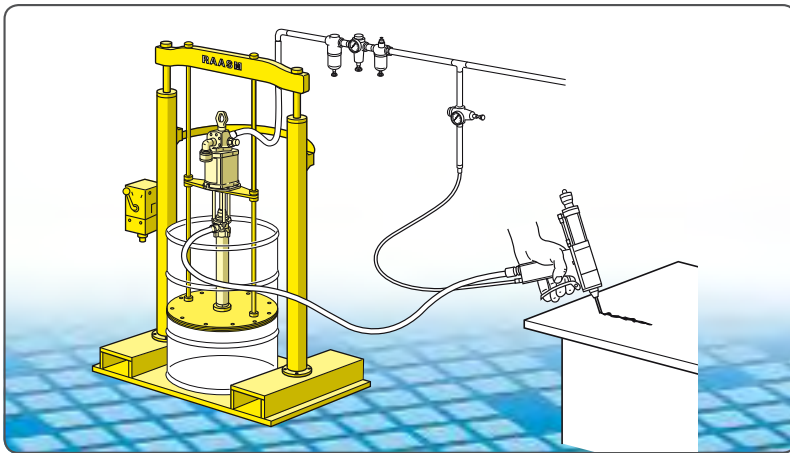
The **integral pumps** and **flanged pumps** are available in the drum version and modular version (modular = extendable with a rigid suction tube, or in the wall application with a flexible suction tube)



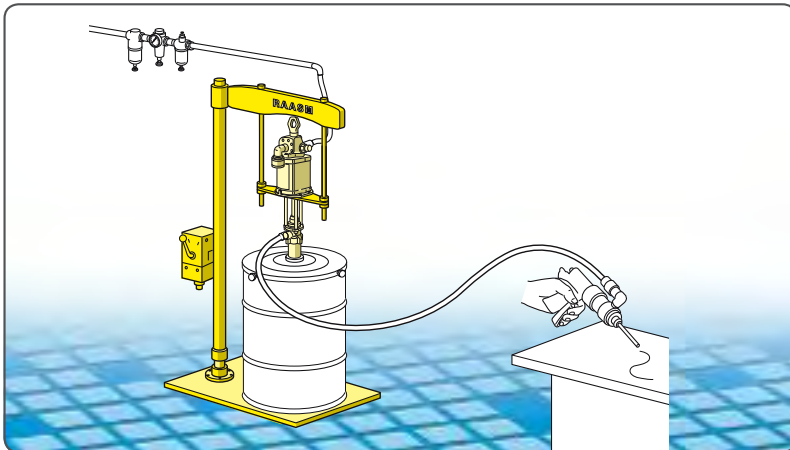
Examples of industrial pump applications



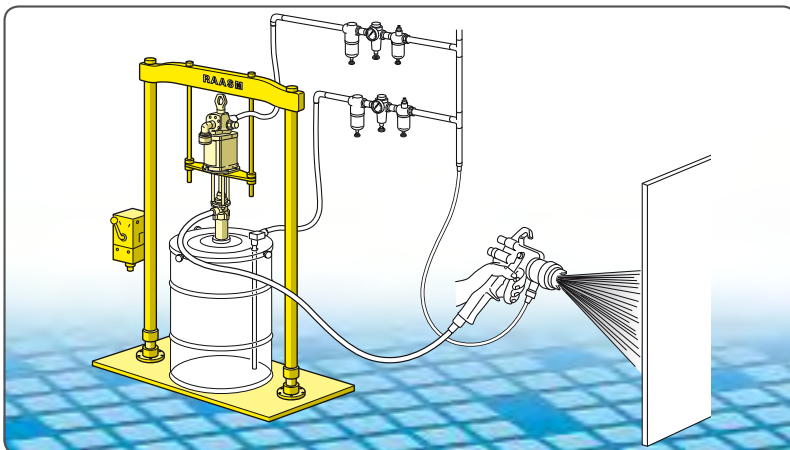
Stations for continuous feed of machinery by means of distribution of fluids in line (lubricants, inks, adhesives, etc.) with pump connected to the tank or fixed to the floor with bracket.



Automated system for the delivery of preselected quantities of fluids (inks, paints, greases, etc.), fed by pumps mounted on drum, with lift.



Application of sealants, adhesives, greases, etc., by means of special delivery gun fed by pump mounted on drum in fixed or mobile station.

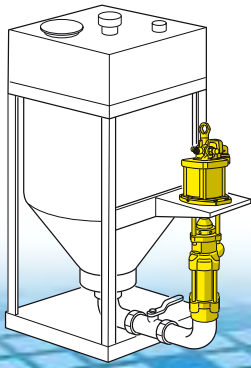


Fluid distribution system (for paints, lubricants, protective liquids, etc.) fed by pump mounted on drum in fixed station and delivery with spray gun.

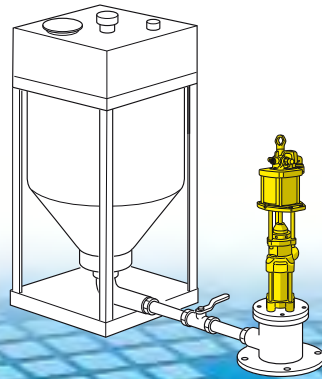


Industrial pump installations on tanks or drums

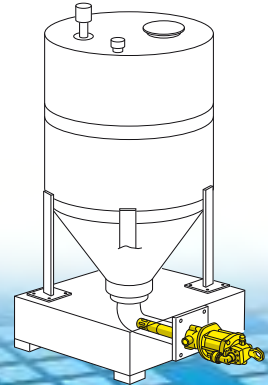
For tank with pump in vertical position mounted on bracket



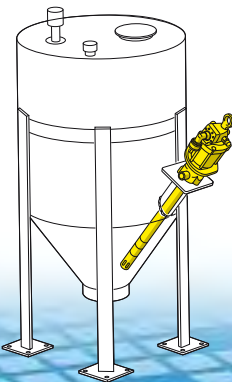
For tank with pump in vertical position mounted on floor with bracket



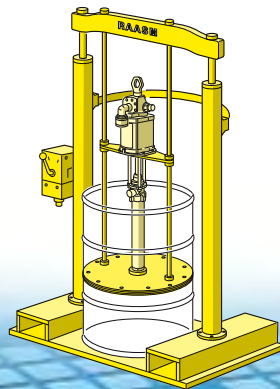
For tank with pump in horizontal position



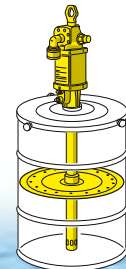
For tank with pump in inclined position



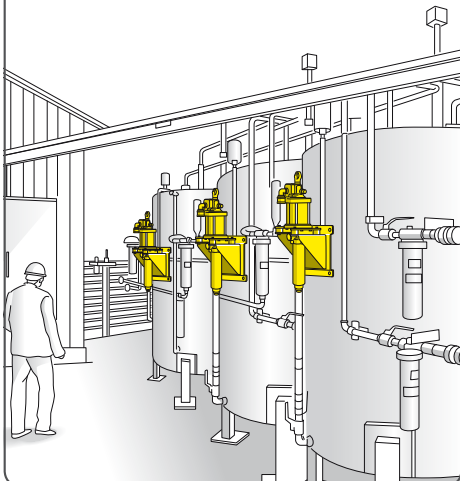
For 200 kg drum, with double ram hoist and follower



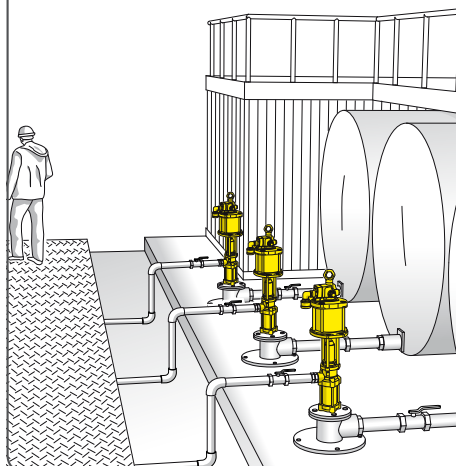
For 200 kg drums, standard application



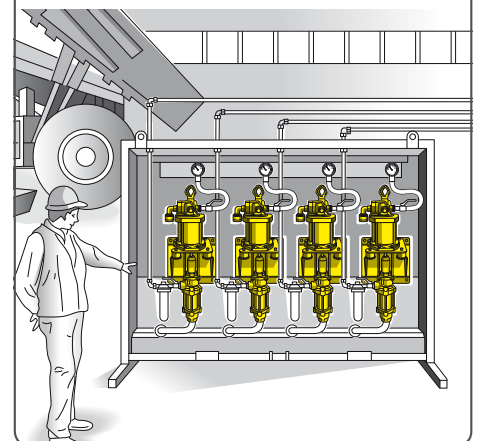
Industrial pumps installed on vertical bulk containers



Industrial pumps installed on pedestals connected to horizontal bulk containers

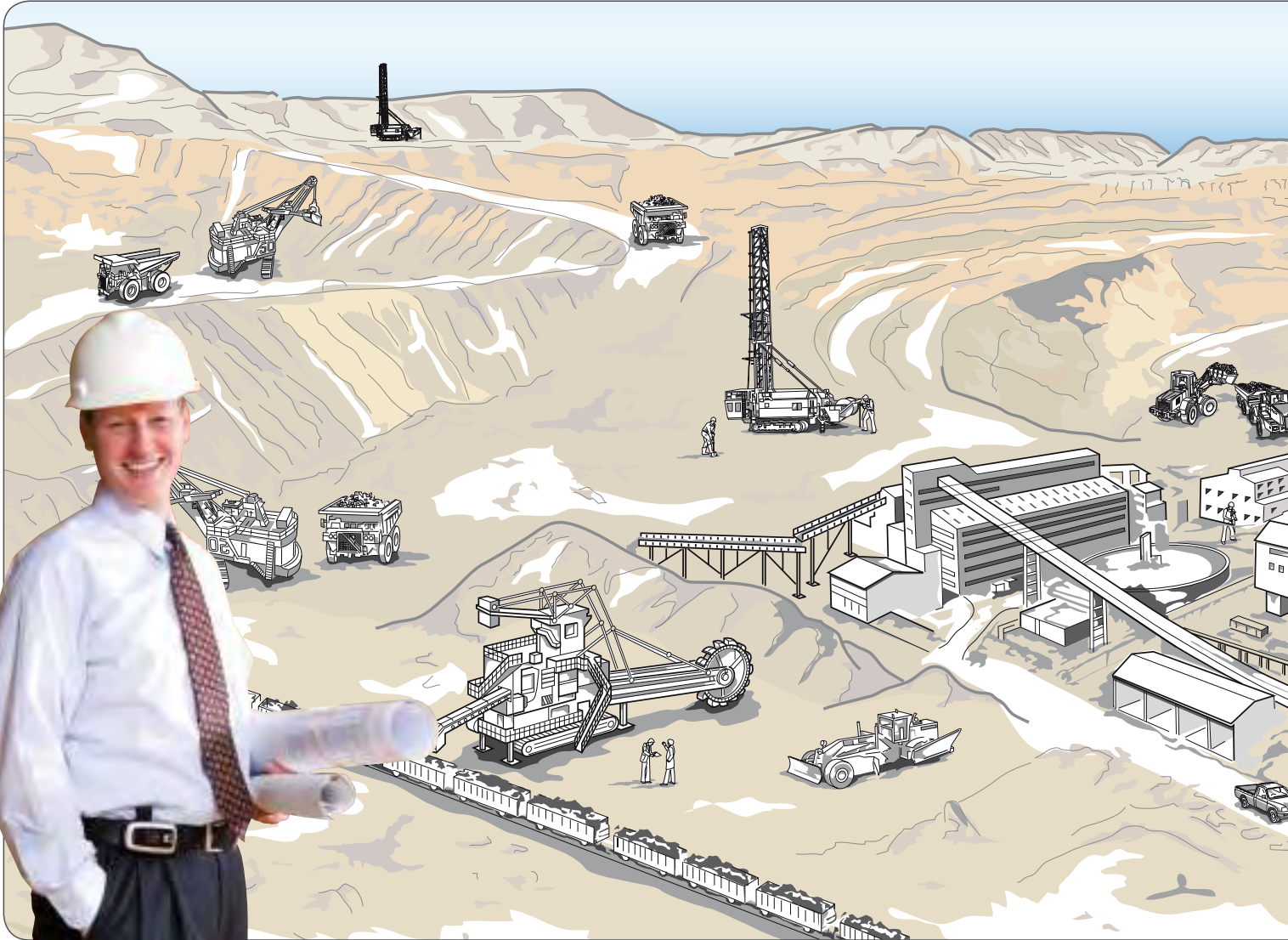


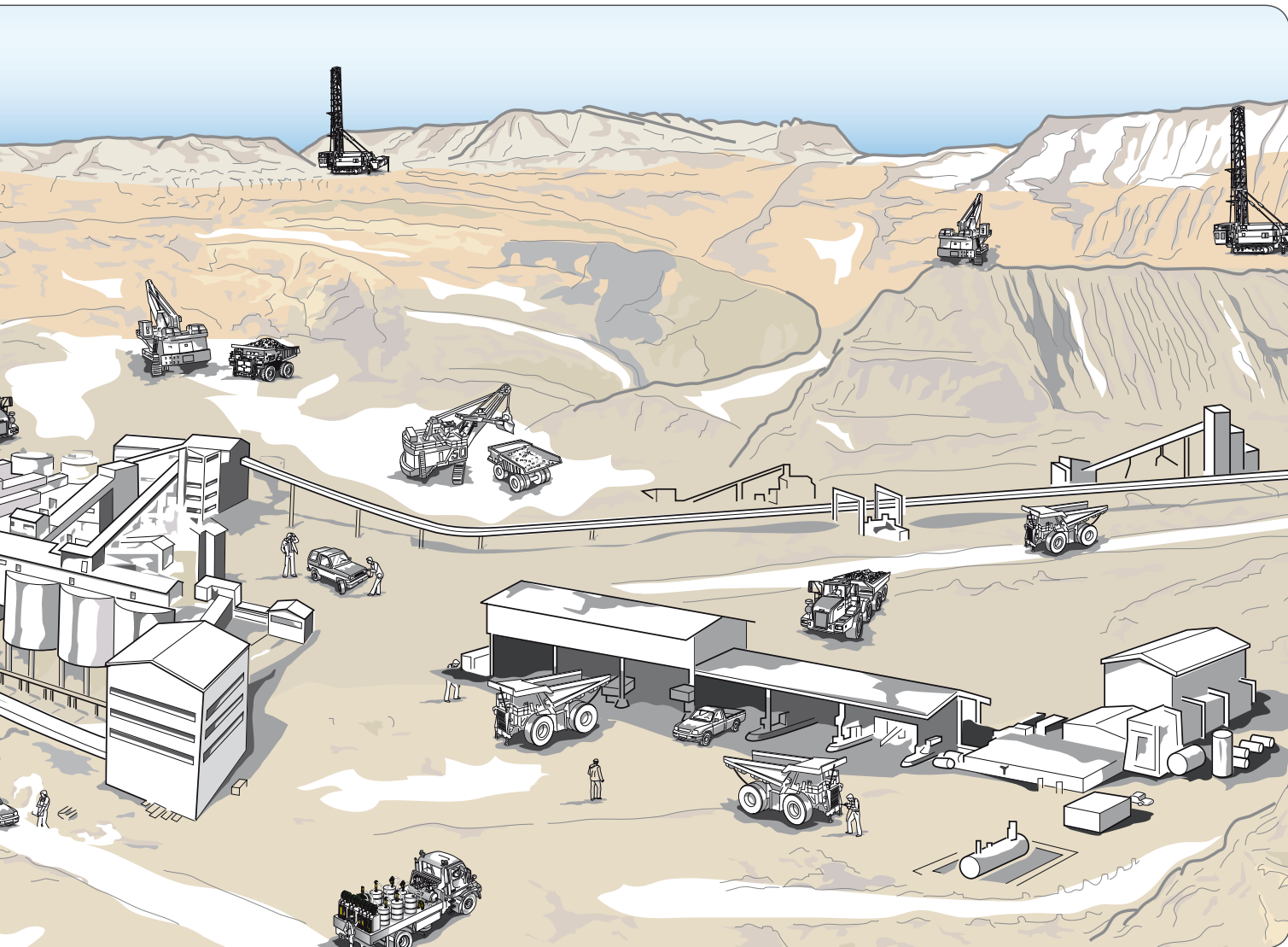
Bank of pumps connected with bulk containers





...everything for mining
technology, functionality, safety







Air-operated INDUSTRIAL PUMPS

oil and similar products

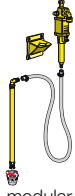

Ratio **5:1**
Flow rate **45 l/min**

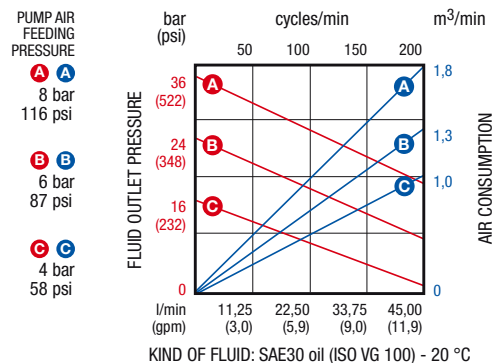
Double action series 900 air-operated industrial pumps for distribution.

Suitable for transferring oils, lubricants and similar products, also high viscosity. The double action guarantees the delivery of a continuous and constant flow. Ideal for every needs. Particularly effective in systems equipped with several dispensing points.

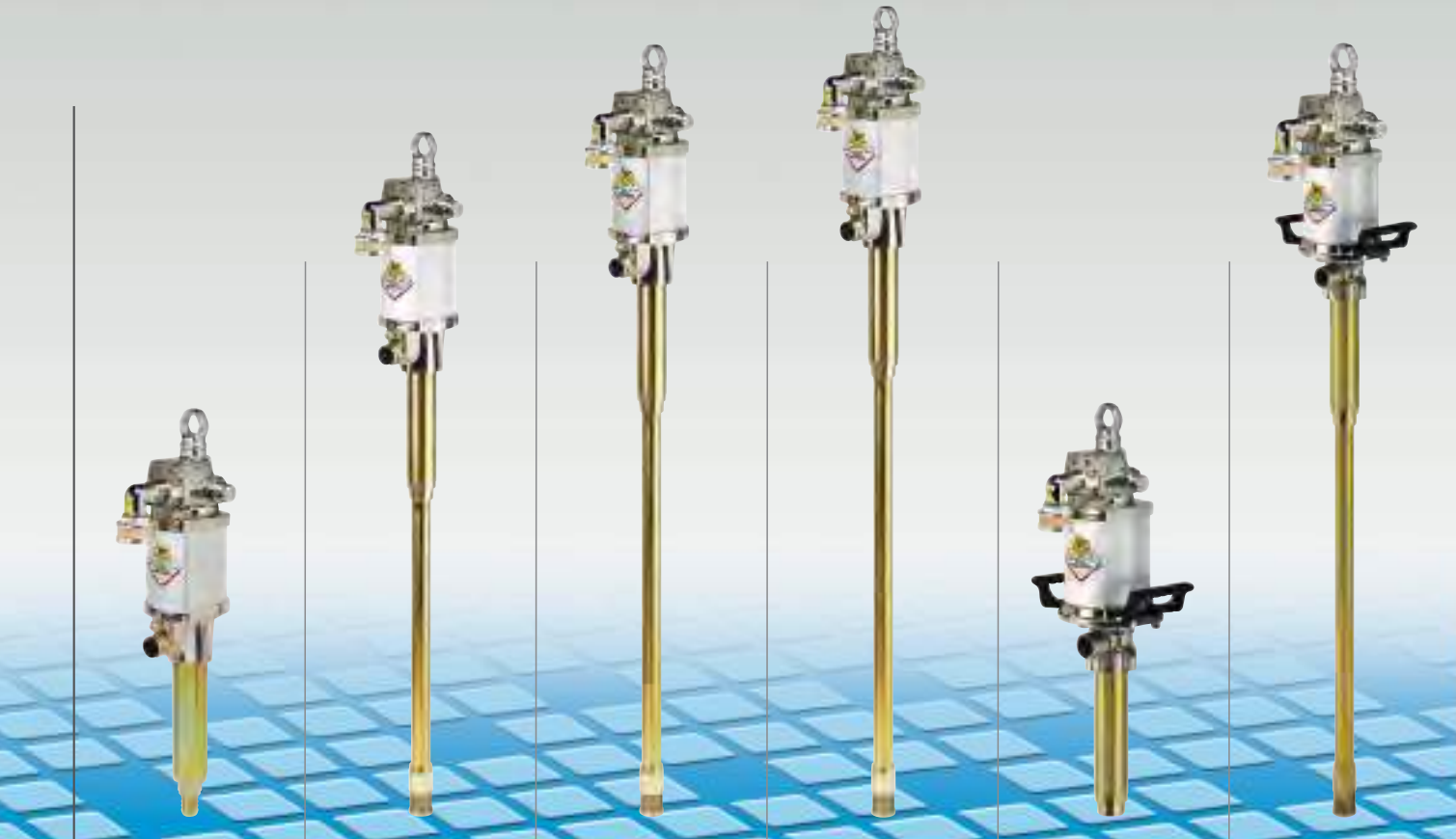


series **900**

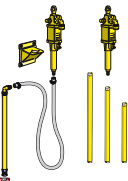
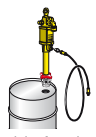

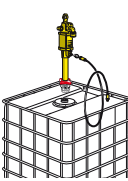
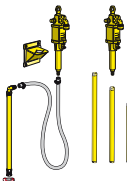
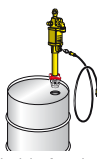
Article with seals in	PU	integral 90C/51	flanged 90F/51
Compatible fluids		Oils, lubricants and similar	
Suction tube upper body		Aluminium	
Suction tube		Carbon steel	
Air inlet connection	bsp	F 1/2"	F 1/2"
Fluid outlet connection	bsp	F 3/4"	F 3/4"
Max. air consumption 8 bar	m ³ /min	1,6	1,6
Noise level	dB	80	80
Air max. feed pressure	bar	8	8
Suitable for drums or tanks		 modular	 modular
Packing	N° - m ³	1 - 0,040	1 - 0,040
Weight	Kg	12	13
Dimensions (A - B - C)	cm	43 - 27 - 6,2	44,5 - 27 - 6,2



Ratio 7:1
Flow rate 30 l/min

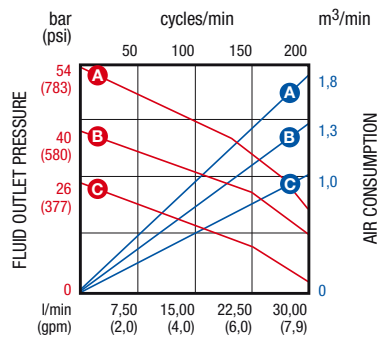


series 900

integral	integral	integral	integral	flanged	flanged
90C/71	93C/71	91C/71	92C/71	90F/71	91F/71
Oils, lubricants and similar				Oils, lubricants and grease	
Aluminium				Carbon steel	
Carbon steel				Carbon steel	
F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"
F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"
1,6	1,6	1,6	1,6	1,6	1,6
80	80	80	80	80	80
8	8	8	8	8	8
					
modular	suitable for drums 50-60 Kg	suitable for drums 180-220 Kg	tank	modular	suitable for drums 180-220 Kg
1 - 0,040	1 - 0,080	1 - 0,080	1 - 0,080	1 - 0,040	1 - 0,070
11	13,5	14,5	15	12	14
43 - 27 - 5,3	43 - 74 - 5,3	43 - 94 - 5,3	43 - 126 - 5,3	44,5 - 27 - 5,3	44,5 - 94 - 5,3

PUMP AIR FEEDING PRESSURE

- A** 8 bar 116 psi
- B** 6 bar 87 psi
- C** 4 bar 58 psi



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



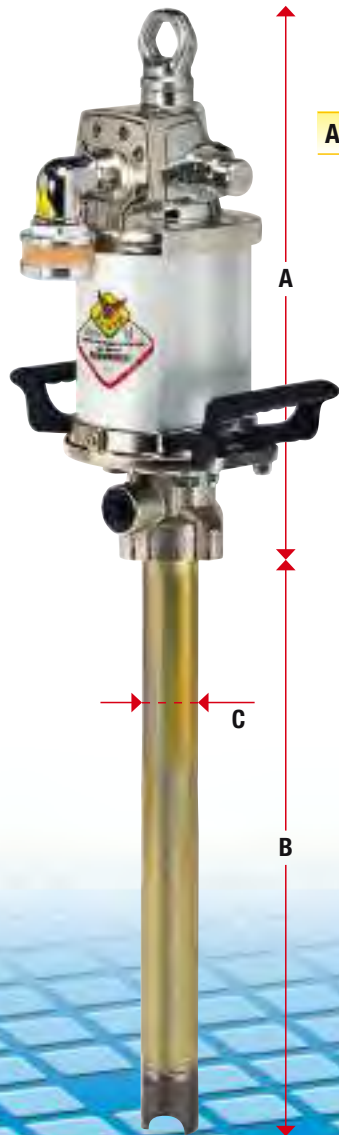
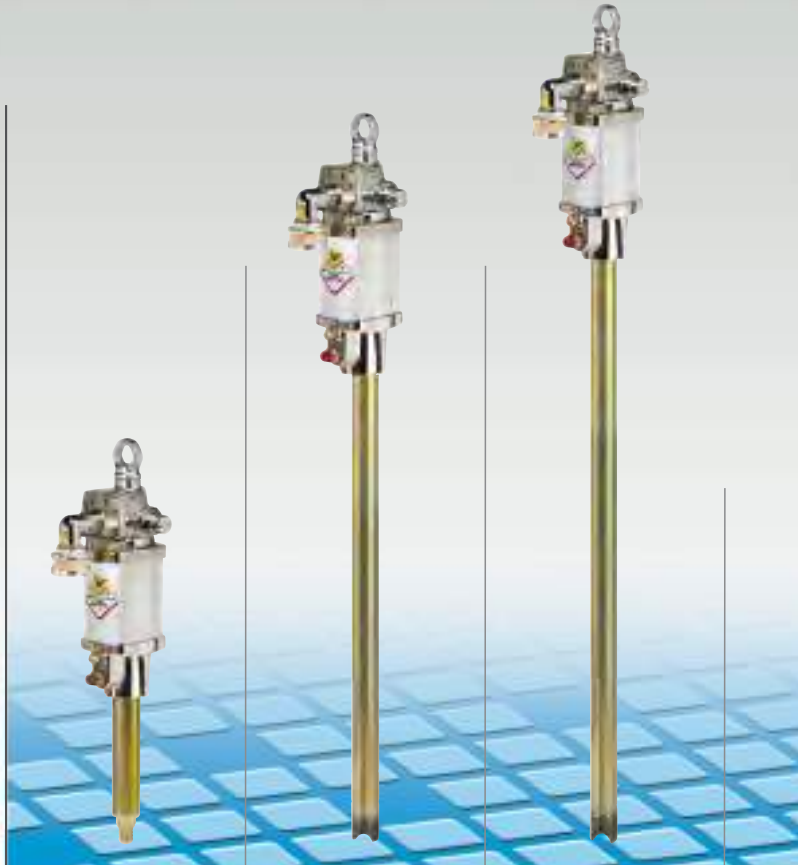
Air-operated INDUSTRIAL PUMPS

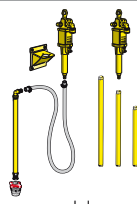


oil and similar products

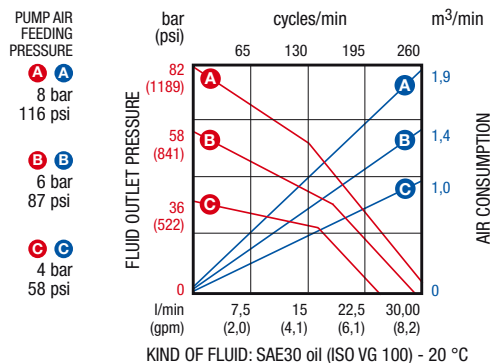
Ratio **11:1**
Flow rate **30 l/min**

Double action series 900 and 1200 air-operated industrial pumps for distribution.

Suitable for transferring oils, lubricants and similar products, also high viscosity. the double action guarantees the delivery of a continuous and constant flow. Ideal for every needs. Particularly effective in systems equipped with several dispensing points.



Article with seals in	PU	90C/111	92C/111	91C/111
Compatible fluids		Oils, lubricants and grease		
Suction tube upper body		Aluminium		
Suction tube		Carbon steel		
Air inlet connection	bsp	F 1/2"	F 1/2"	F 1/2"
Fluid outlet connection	bsp	F 3/4"	F 3/4"	F 3/4"
Max. air consumption 8 bar	m ³ /min	1,7	1,7	1,7
Noise level	dB	80	80	80
Air max. feed pressure	bar	8	8	8
Suitable for drums or tanks		 modular	 suitable for drums 50-60 Kg	 suitable for drums 180-220 Kg
Packing	N° - m ³	1 - 0,040	1 - 0,070	1 - 0,070
Weight	Kg	11	15	16
Dimensions (A - B - C)	cm	43 - 27 - 4,5	43 - 74 - 4,5	43 - 94 - 4,5

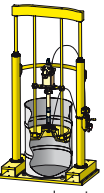


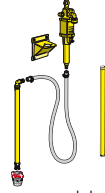

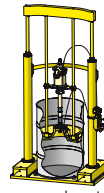




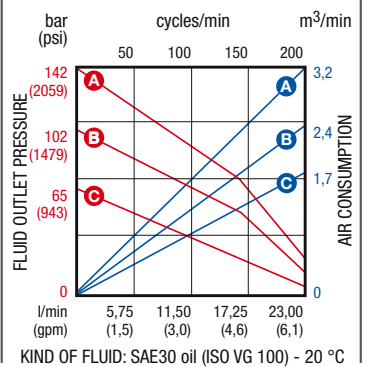
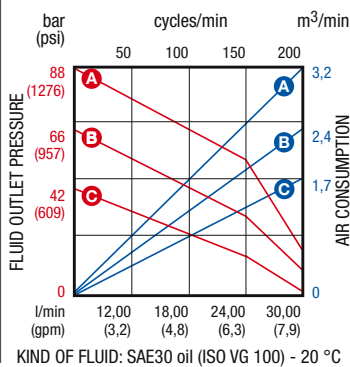
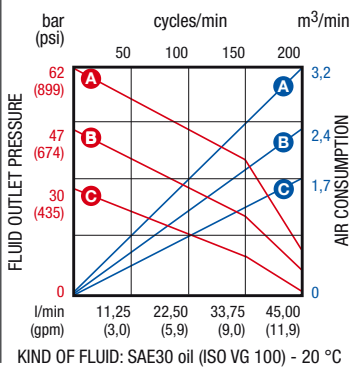
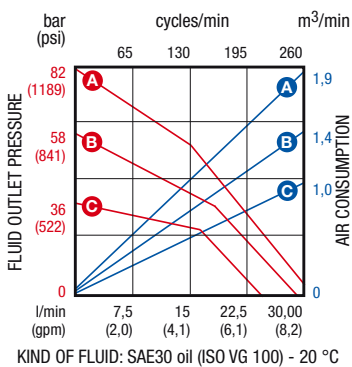
Ratio **9:1**
Flow rate **45 l/min**

Ratio **12:1**
Flow rate **30 l/min**

Ratio **18:1**
Flow rate **23 l/min**



series 900		series 1200		series 1200		series 1200	
flanged		flanged		flanged		flanged	
90F/111	91F/111	115F/91	115F/121	116F/121	115F/181	116F/181	116F/181
Oils, lubricants and grease		Oils, lubricants and similar		Oils, lubricants and similar		Oils, lubricants and grease	
Carbon steel Carbon steel		Carbon steel Carbon steel		Carbon steel Carbon steel		Carbon steel Carbon steel	
F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"
F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"	F 3/4"
1,7	1,7	2,8	2,8	2,8	2,8	2,8	2,8
80	80	80	80	80	80	80	80
8	8	8	8	8	8	8	8
							
1 - 0,045	1 - 0,070	1 - 0,40	1 - 0,040	1 - 0,070	1 - 0,045	1 - 0,070	1 - 0,070
13	17	14	13	15	15,5	18	18
44,5 - 48 - 4,5	44,5 - 94 - 4,5	44,5 - 23 - 6,2	44,5 - 23 - 5,3	44,5 - 94 - 5,3	44,5 - 48 - 4,5	44,5 - 94 - 4,5	44,5 - 94 - 4,5





Air-operated INDUSTRIAL PUMPS

oil and similar products

Series 900, 1200, 1500 and 1800 industrial air-operated pumps for medium-long distance distribution. Suitable for transferring oils, lubricants and similar products, they guarantee high performance in capacity (l/min) and operating pressure. The version with viton seals can also be used for the transfer of industrial and chemical fluids. The high quality of the components ensures lasting and reliable operation even in extreme conditions.

Ratio **2:1**
Flow rate **95 l/min**

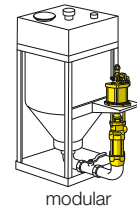
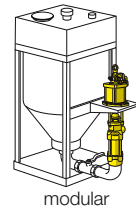
Ratio **3:1**
Flow rate **100 l/min**



series 900 divorced **series 1200** divorced

Article with seals in PU	90D/21		115D/31	
Article with seals in VITON		90DV/21		115DV/31
Compatible fluids	Oils, lubricants and similar	Chemical and industrial fluids	Oils, lubricants and similar	Chemical and industrial fluids
Suction tube upper body	Carbon steel		Carbon steel	
Suction tube	Carbon steel		Carbon steel	
Air inlet connection	bsp F 1/2"	F 1/2"	F 1/2"	F 1/2"
Fluid outlet connection	bsp F 1.1/2"	F 1.1/2"	F 1.1/2"	F 1.1/2"
Max. air consumption 8 bar	m ³ /min 1,6	1,6	2,8	2,8
Noise level	dB 80	80	80	80
Air max. feed pressure	bar 8	8	8	8

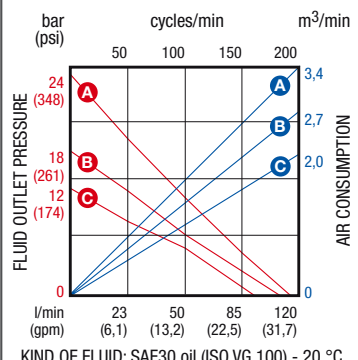
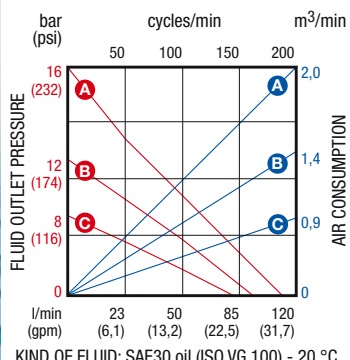
Suitable for drums or tanks



Packing	N° - m ³ 1 - 0,20	1 - 0,20	1 - 0,20	1 - 0,20
Weight	Kg 45	45	46	46
Dimensions (A - B - C)	cm 36 - 62,5 - 16,2	36 - 62,5 - 16,2	36 - 62,5 - 16,2	36 - 62,5 - 16,2



- A A**
8 bar
116 psi
- B B**
6 bar
87 psi
- C C**
4 bar
58 psi



Ratio 4:1
Flow rate **110 l/min**

Ratio 6:1
Flow rate **80 l/min**

Ratio 5:1
Flow rate **90 l/min**

Ratio 8:1
Flow rate **65 l/min**



series 1500

series 1500

series 1800

series 1800

divorced

divorced

divorced

divorced

150D/41

150D/61

180D/51

180D/81

150DV/61

180DV/81

Oils, lubricants and similar
Carbon steel
Carbon steel

Oils, lubricants and similar
Carbon steel
Carbon steel

Oils, lubricants and similar
Carbon steel
Carbon steel

Oils, lubricants and similar
Carbon steel
Carbon steel

F 1/2"

F 1.1/2"

3,4

80

8

F 1/2"

F 1.1/2"

3,4

80

8

F 1/2"

F 1.1/2"

3,4

80

8

F 1/2"

F 1.1/2"

4,2

80

8

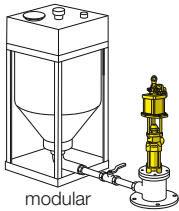
F 1/2"

F 1.1/2"

4,2

80

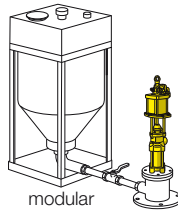
8



1 - 0,20

63

43 - 62,5 - 17,7



1 - 0,20

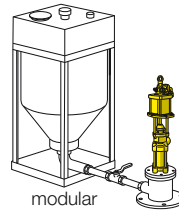
53

43 - 62,5 - 16,2

1 - 0,20

53

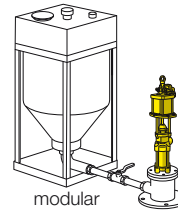
43 - 62,5 - 16,2



1 - 0,20

65

43 - 62,5 - 17,7



1 - 0,20

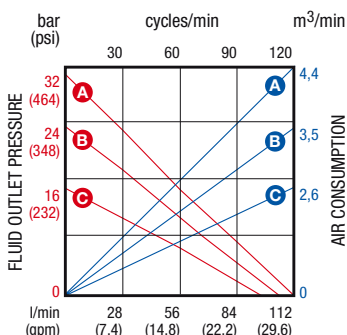
56

43 - 62,5 - 16,2

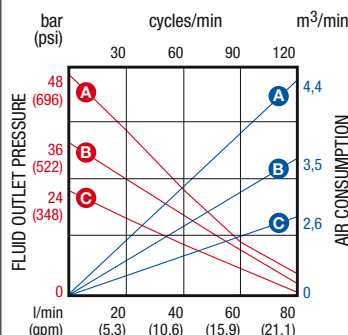
1 - 0,20

56

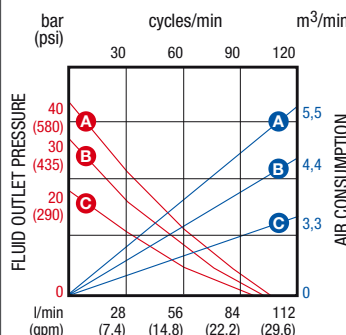
43 - 62,5 - 16,2



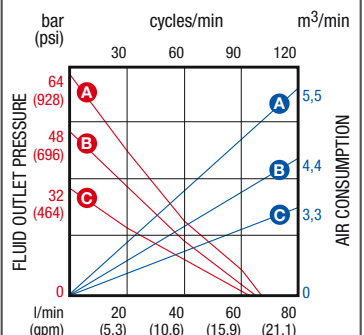
KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

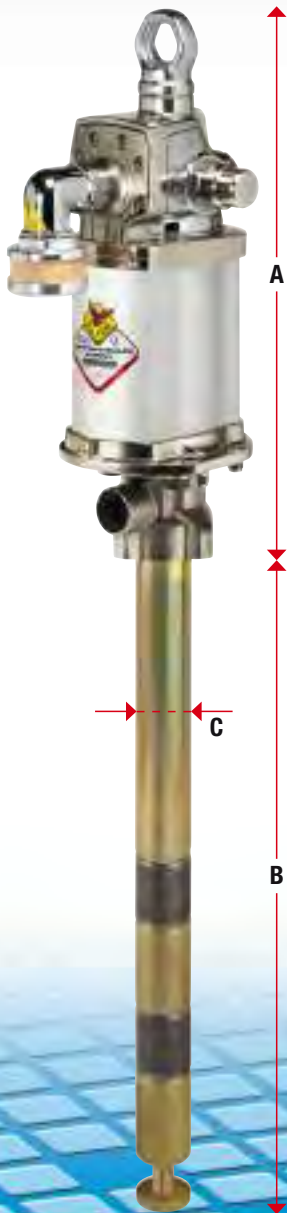


Air-operated INDUSTRIAL PUMPS

grease

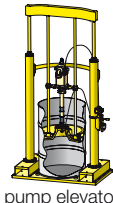
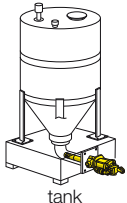


Ratio **45:1**
Flow rate **4400 g/min**

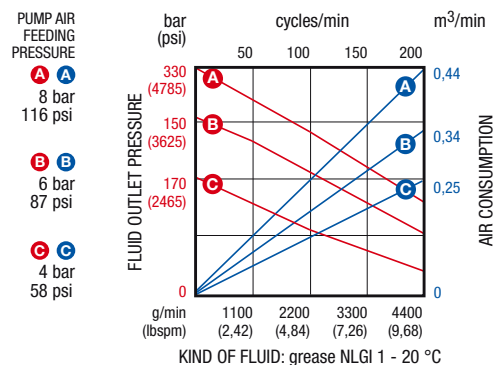
Series 900 - 1200 industrial air-operated pumps for medium-long distance distribution. Suitable for the transfer of medium-high viscosity oils and greases. The high quality of the components ensures lasting and reliable operation even in extreme conditions whereas the double action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with several dispensing points.



series **900**

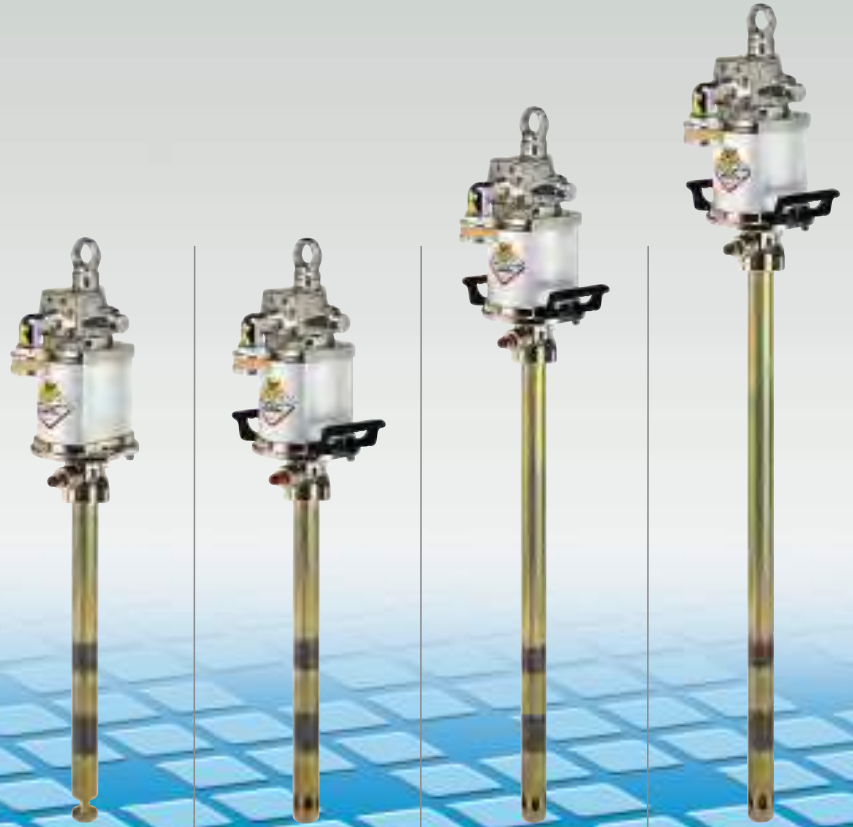
flanged

Article with seals in	PU	90FSP/451	90F/451	92F/451	91F/451
Compatible fluids		High viscosity oils and greases			
Suction tube upper body		Carbon steel			
Suction tube		Carbon steel			
Air inlet connection	bsp	F 1/2"	F 1/2"	F 1/2"	F 1/2"
Fluid outlet connection	bsp	F 1/2"	F 1/2"	F 1/2"	F 1/2"
Max. air consumption 8 bar	m ³ /min	1,6	1,6	1,6	1,6
Noise level	dB	80	80	80	80
Air max. feed pressure	bar	8	8	8	8
Suitable for drums or tanks		 pump elevator	 tank	 suitable for drums 50-60 Kg	 suitable for drums 180-220 Kg
Packing	N° - m ³	1 - 0,085	1 - 0,045	1 - 0,070	1 - 0,070
Weight	Kg	16	16	18	19
Dimensions (A - B - C)	cm	44,5 - 50 - 4,5	44,5 - 50 - 4,5	44,5 - 74 - 4,5	44,5 - 94 - 4,5



Ratio 70:1
Flow rate **3000 g/min**

Ratio 75:1
Flow rate **4400 g/min**



series 900

series 1200

integral

flanged

92C/701

91C/701

115FSP/751

115F/751

117F/751

116F/751

High viscosity oils and greases

High viscosity oils and greases

Aluminium

Carbon steel

Carbon steel

Carbon steel

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

F 1/2"

1,6

1,6

2,8

2,8

2,8

2,8

80

80

80

80

80

80

8

8

8

8

8

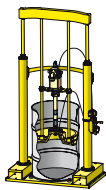
8



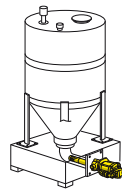
suitable for drums
50-60 Kg



suitable for drums
180-220 Kg



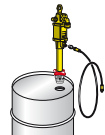
pump elevator



tank



suitable for drums
50-60 Kg



suitable for drums
180-220 Kg

1 - 0,070

1 - 0,070

1 - 0,045

1 - 0,045

1 - 0,070

1 - 0,070

18

19

18

18

20

21

43 - 74 - 4,5

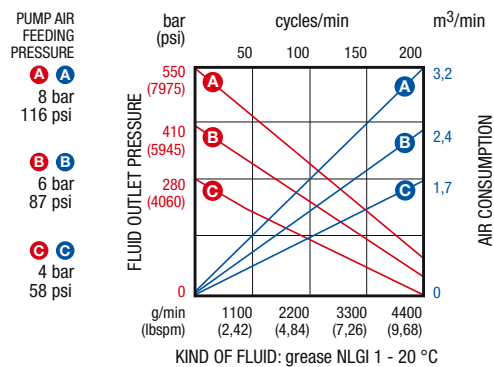
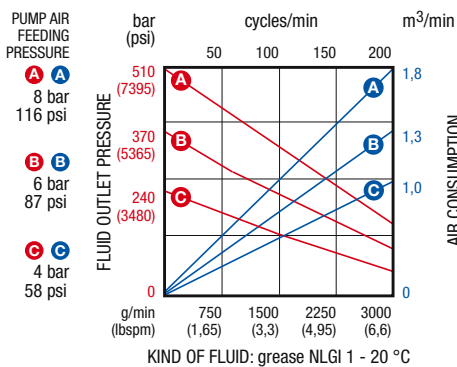
43 - 94 - 4,5

44,5 - 50 - 4,5

44,5 - 50 - 4,5

44,5 - 74 - 4,5

44,5 - 94 - 4,5





Air-operated INDUSTRIAL PUMPS

grease

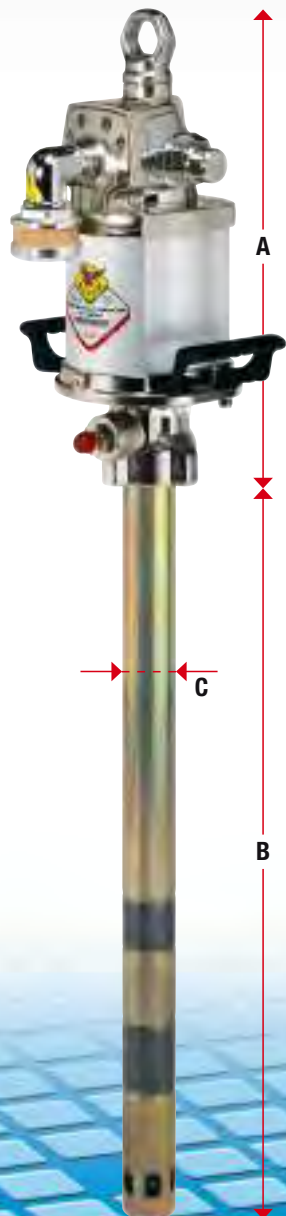
Ratio **40:1**
Flow rate **10000 g/min**

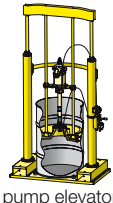
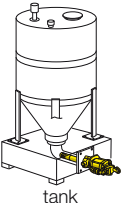
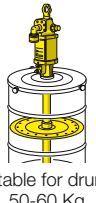
Series 1200 and 1500 industrial air-operated pumps for medium-long distance distribution.

Suitable for transferring oils, lubricants and allied products, they guarantee high performance in capacity (l/min) and operating pressure.

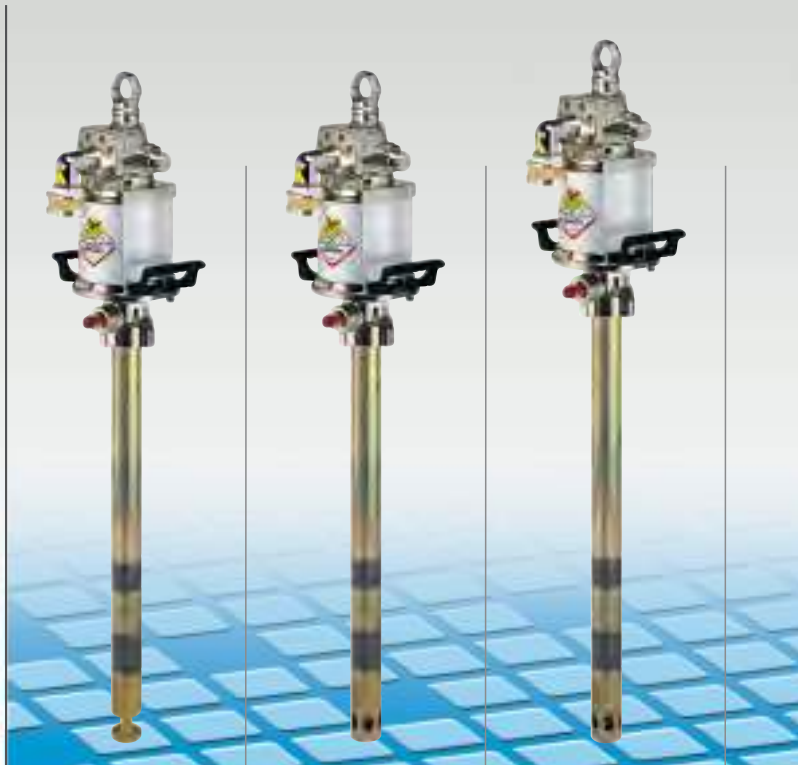
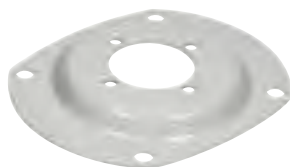
The version with viton seals can also be used for the transfer of industrial and chemical fluids.

The high quality of the components ensures lasting and reliable operation even in extreme conditions.



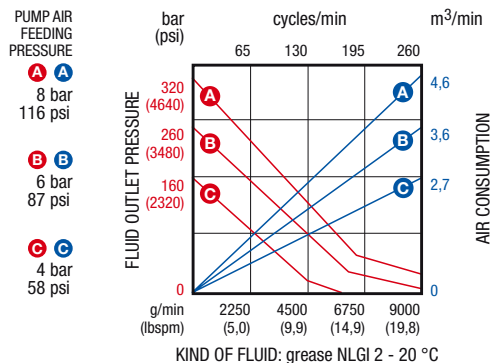
Article with seals in	PU	118FSP/401	118F/401	115F/401
Compatible fluids		High viscosity oils and greases		
Suction tube upper body		Carbon steel		
Suction tube		Carbon steel		
Air inlet connection	bsp	F 1/2"	F 1/2"	F 1/2"
Fluid outlet connection	bsp	F1/2"	F 1/2"	F1/2"
Max. air consumption 8 bar	m ³ /min	2,8	2,8	2,8
Noise level	dB	80	80	80
Air max. feed pressure	bar	8	8	8
Suitable for drums or tanks		 pump elevator	 tank	 suitable for drums 50-60 Kg
Packing	N° - m ³	1 - 0,090	1 - 0,090	1 - 0,090
Weight	Kg	21	21	23
Dimensions (A - B - C)	cm	44,5 - 60 - 5,08	44,5 - 60 - 5,08	44,5 - 74 - 5,08

Art. 10/09
Adaptor for integral and flanged pumps series 900 and 1200, for application with other brackets



series **1200**

flanged



Ratio **70:1**
Flow rate **7000 g/min**



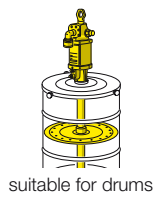
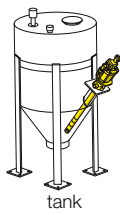
series 1200

flanged

117F/401 116F/401

High viscosity oils and greases
Carbon steel
Carbon steel

F 1/2"	F 1/2"
F 1/2"	F 1/2"
2,8	2,8
80	80
8	8



1 - 0,090 1 - 0,090
24 25

44,5 - 86 - 5,08 44,5 - 94 - 5,08

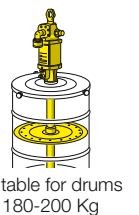
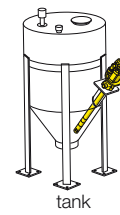
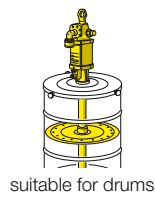
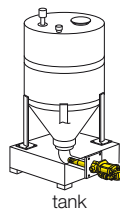
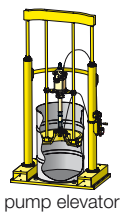
series 1500

flanged

153FSP/701 153F/701 150F/701 152F/701 151F/701

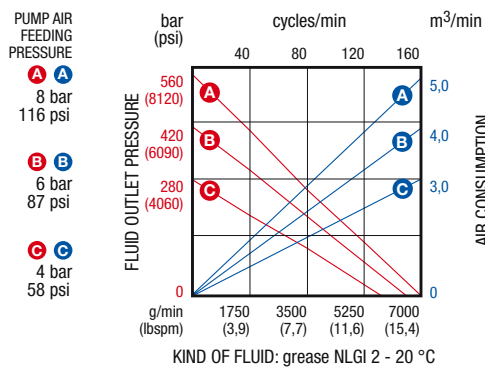
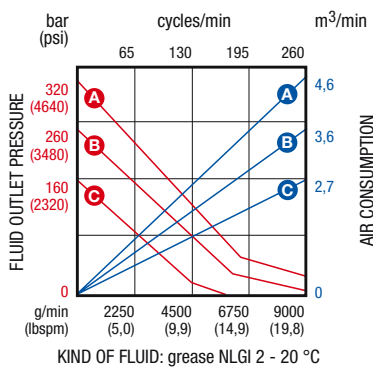
High viscosity oils and greases
Carbon steel
Carbon steel

F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"
F 1/2"	F 1/2"	F 1/2"	F 1/2"	F 1/2"
4,3	4,3	4,3	4,3	4,3
80	80	80	80	80
8	8	8	8	8



1 - 0,20 1 - 0,20 1 - 0,20 1 - 0,20 1 - 0,20
29 29 31 32 33

50 - 60 - 5,08 50 - 60 - 5,08 50 - 74 - 5,08 50 - 86 - 5,08 50 - 94 - 5,08





Air-operated INDUSTRIAL PUMPS

industrial fluids

Series 900 and 1200 divorced industrial air-operated pumps for medium-long distance distribution.

The divorced version, with teflon seals, can also be used for the transfer of industrial and chemical fluids. The high quality of the components ensures lasting and reliable operation even in extreme conditions.



Article with seals in **TEFLON**

Compatible fluids	
Suction tube upper body	
Suction tube	
Air inlet connection	bsp
Fluid outlet connection	bsp
Max. air consumption 8 bar	m ³ /min
Noise level	dB
Air max. feed pressure	bar

Suitable for drums or tanks

Packing	N° - m ³
Weight	Kg
Dimensions (A - B - C)	cm

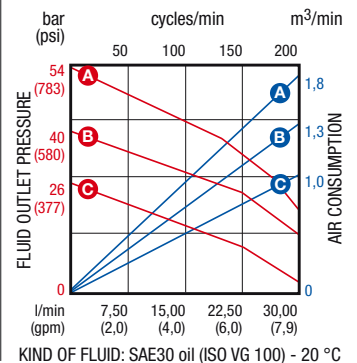
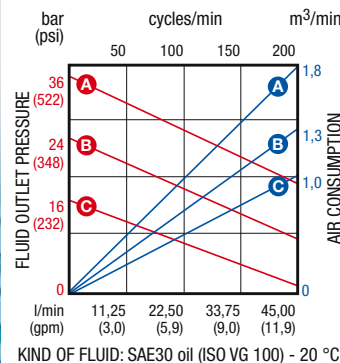
PUMP AIR FEEDING PRESSURE	
A	8 bar 116 psi
B	6 bar 87 psi
C	4 bar 58 psi

Ratio **5:1**
Flow rate **45 l/min**

Ratio **7:1**
Flow rate **30 l/min**



series 900	series 900
divorced	divorced
90D/51	90D/71
Compatible fluids	Chemical and industrial fluids
Suction tube upper body	Carbon steel
Suction tube	Carbon steel
Air inlet connection	F 1/2"
Fluid outlet connection	F 3/4"
Max. air consumption 8 bar	1,6
Noise level	80
Air max. feed pressure	8
modular	modular
Packing	1 - 0,045
Weight	14,5
Dimensions (A - B - C)	36 - 48 - 6,2







Ratio **11:1**
Flow rate **30 l/min**

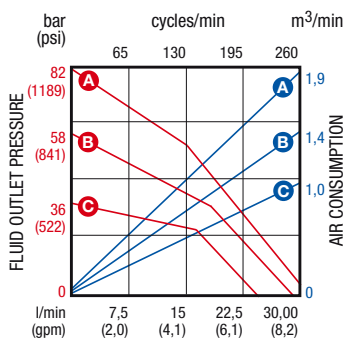
Ratio **9:1**
Flow rate **45 l/min**

Ratio **12:1**
Flow rate **30 l/min**

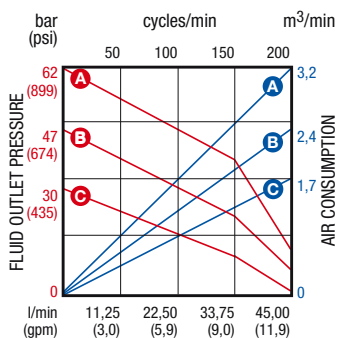
Ratio **18:1**
Flow rate **23 l/min**



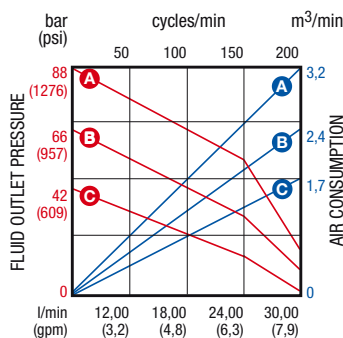
series 900	series 1200	series 1200	series 1200
divorced	divorced	divorced	divorced
90D/111	115D/91	115D/121	115D/181
Chemical and industrial fluids	Chemical and industrial fluids	Chemical and industrial fluids	Chemical and industrial fluids
Carbon steel	Carbon steel	Carbon steel	Carbon steel
Carbon steel	Carbon steel	Carbon steel	Carbon steel
F 1/2"	F 1/2"	F 1/2"	F 1/2"
F 3/4"	F 3/4"	F 3/4"	F 3/4"
1,7	2,8	2,8	2,8
80	80	80	80
8	8	8	8
			
modular	modular	modular	modular
1 - 0,045	1 - 0,045	1 - 0,045	1 - 0,045
13	15,5	14,5	14
36 - 48 - 4,5	36 - 48 - 6,2	36 - 48 - 5,3	36 - 48 - 4,5



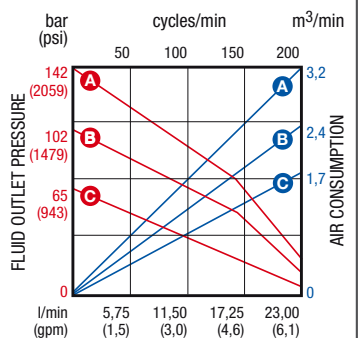
KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

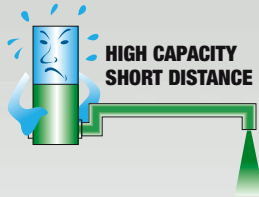


KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C

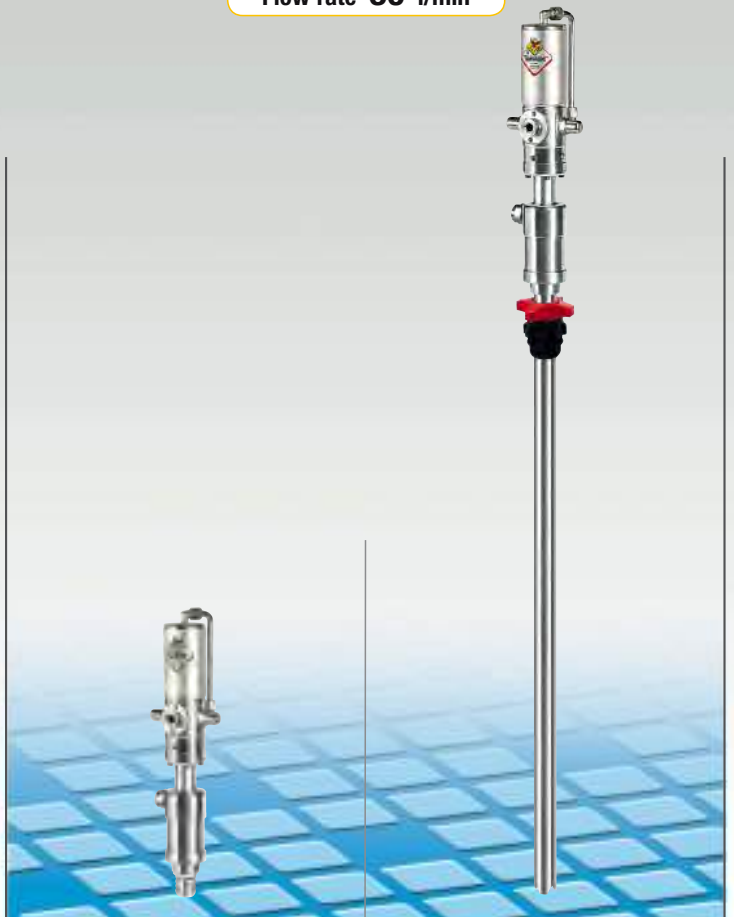
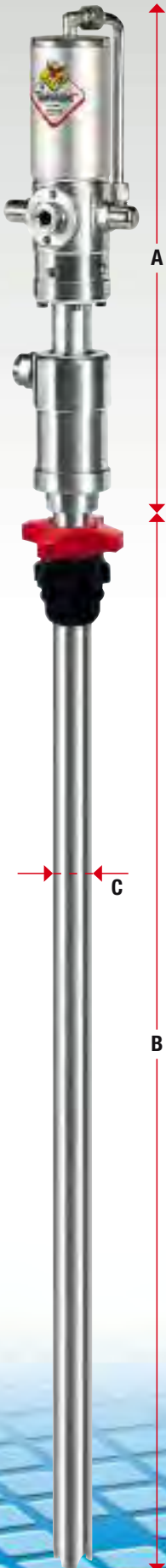


S/Steel AISI 304 pumps for short-medium distance TRANSFER

Ratio **1:1**
Flow rate **30 l/min**



Ideal for transferring low-medium viscosity fluids such as: antifreeze liquid, windshield washing liquid and chemical products.



series **600 INOX**

Article with seals in **VITON**

Compatible fluids	
Suction tube upper body	
Suction tube	
Air inlet connection	bsp
Fluid outlet connection	bsp
Max. air consumption 8 bar	m ³ /min
Noise level	dB
Air max. feed pressure	bar

divorced

33360

divorced

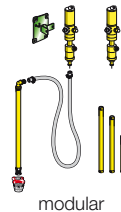
33396

Suitable for antifreeze and windshield washing liquid

Stainless steel AISI 304

Stainless steel AISI 304

Suitable for drums or tanks



modular



suitable for drums 180-220 Kg

Packing N° - m³

Weight Kg

Dimensions (A - B - C) cm

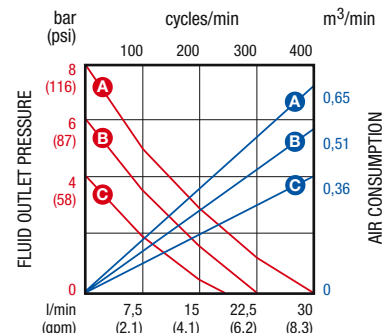
1 - 0,10
5,3
41 - 0 - 0

1 - 0,020
7,4
41 - 94 - 3,4

Art. 33440
Gun for antifreeze and windshield liquid with stainless steel rigid terminal



PUMP AIR FEEDING PRESSURE
A A 8 bar 116 psi
B B 6 bar 87 psi
C C 4 bar 58 psi



KIND OF FLUID: windshield washing fluid with water



Air-operated INDUSTRIAL PUMPS S/STEEL AISI 304

industrial fluids

Series 900 - 1200 divorced stainless steel AISI 304 industrial air-operated pumps for medium-long distance distribution. They are suitable to transfer aggressive fluids compatible with the wet parts of the pump (stainless steel and teflon). The high quality of the components ensures lasting and reliable operation even in extreme conditions.



Article with seals in	TEFLON	
	TEFLON+UHMW-PE	
Compatible fluids	Chemical and industrial fluids	
Suction tube upper body	Stainless steel AISI 304	
Suction tube	Stainless steel AISI 304	
Air inlet connection	bsp	F 1/2"
Fluid inlet connection	bsp	F 1.1/4"
Fluid outlet connection	bsp	F 3/4"
Max. air consumption 8 bar	m ³ /min	1,6
Noise level	dB	80
Air max. feed pressure	bar	8

Suitable for drums or tanks

Packing	N° - m ³	1 - 0,045
Weight	Kg	14,5
Dimensions (A - B - C)	cm	36 - 48 - 6,0

PUMP AIR FEEDING PRESSURE	
A	8 bar / 116 psi
B	6 bar / 87 psi
C	4 bar / 58 psi

Ratio **6:1**
Flow rate **42 l/min**

Ratio **9:1**
Flow rate **42 l/min**



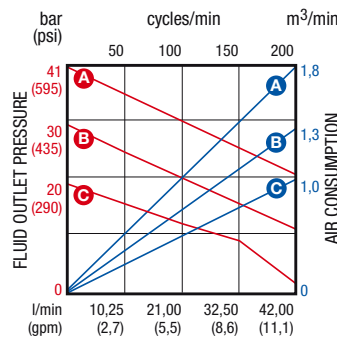
series **900**

series **1200**

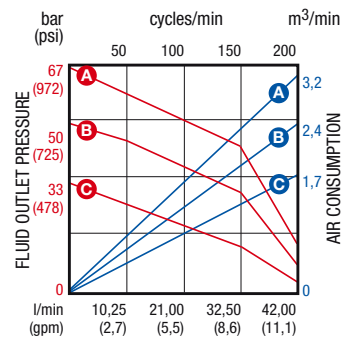
divorced

divorced

	94D/61	95D/61	120D/91
Compatible fluids	Chemical and industrial fluids		Chemical and industrial fluids
Suction tube upper body	Stainless steel AISI 304		Stainless steel AISI 304
Suction tube	Stainless steel AISI 304		Stainless steel AISI 304
Air inlet connection	bsp	F 1/2"	F 1/2"
Fluid inlet connection	bsp	F 1.1/4"	F 1"
Fluid outlet connection	bsp	F 3/4"	F 3/4"
Max. air consumption 8 bar	m ³ /min	1,6	2,8
Noise level	dB	80	80
Air max. feed pressure	bar	8	8
	modular	modular	modular
Packing	N° - m ³	1 - 0,045	1 - 0,045
Weight	Kg	14,5	15,5
Dimensions (A - B - C)	cm	36 - 48 - 6,0	36 - 48 - 6,0



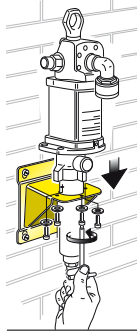
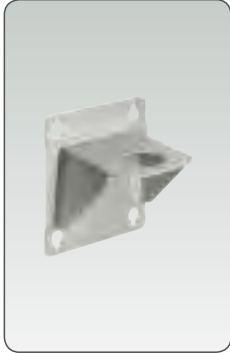
KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



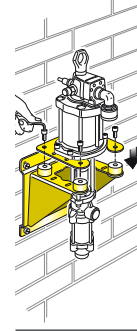
KIND OF FLUID: SAE30 oil (ISO VG 100) - 20 °C



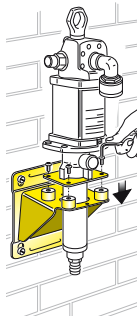
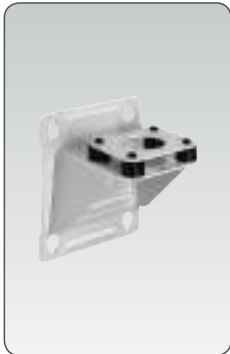
Accessories for industrial pumps



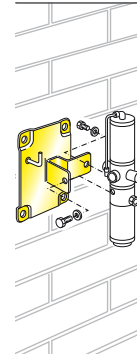
Art. 10/10
Wall bracket in painted steel for wall-mounting of integral and flanged industrial pumps, series 900 and 1200



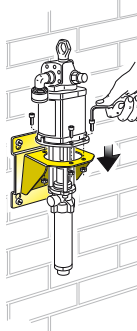
Art. 10/18
Wall bracket in painted steel with dampers for wall-mounting of divorced industrial pumps, with suction tube \varnothing 100 mm, series 900 and 1200



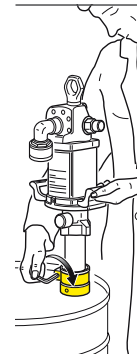
Art. 10/11
Wall bracket in painted steel with dampers for wall-mounting of integral and flanged industrial pumps, series 900 and 1200



Art. 33115
Wall bracket in steel for wall-mounting of transfer pumps, series 600 and 650

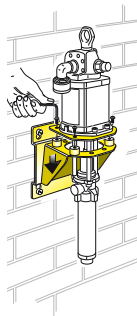
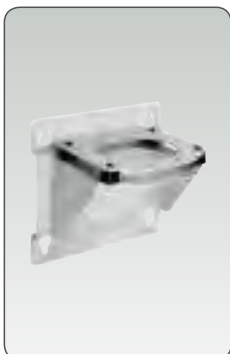


Art. 10/12
Wall bracket in painted steel for wall-mounting of divorced industrial pumps, series 900 and 1200

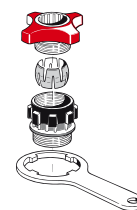
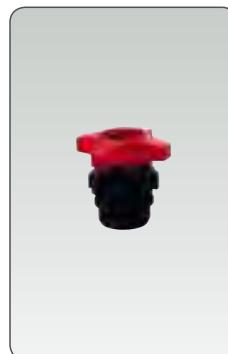


Art. 10/14
Bung adaptor, for industrial pumps with suction tube, \varnothing 45 mm series 900 and 1200

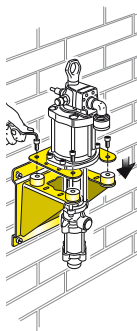
Art. 10/15
Bung adaptor, for industrial pumps with suction tube, \varnothing 53 mm series 900 and 1200



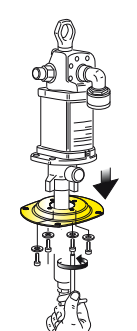
Art. 10/13
Wall bracket in painted steel with dampers for wall-mounting of divorced industrial pumps, series 900 and 1200



Art. 33434
Bung adaptor \varnothing 34 mm, with double body for pumps with suction tube, series 600



Art. 10/17
Wall bracket in painted steel with dampers for wall-mounting of flanged industrial pumps, series 1500 and 1800

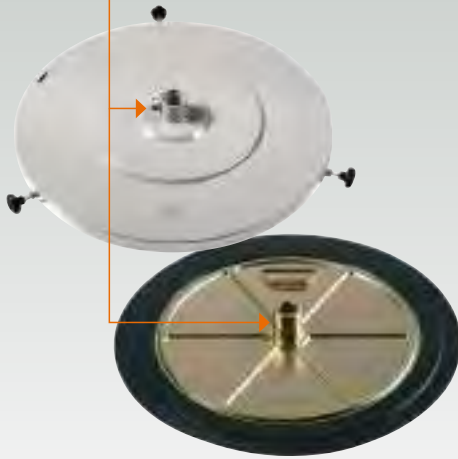


Art. 10/09
Adaptor for integral and flanged pumps series 900 e 1200, for application with other brackets



Accessories for industrial pumps

Union ø 45 mm



Drum cover for pumps with suction tube ø 45

Art. 10/50 Drum cover ø 600 mm for drums 180 - 220 Kg
(drums external ø 550 - 600 mm)

Art. 10/51 Drum cover ø 420 mm for drums 50 - 60 Kg
(drums external ø 370 - 420 mm)

Art. 10/52 Drum cover ø 385 mm for drums 30 - 50 Kg
(drums external ø 340 - 385 mm)



Follower plate for pumps S. 900 - 1200 with suction tube ø 45

Art. 10/60 Follower plate ø 585 mm for drums 180 - 220 Kg
(drums internal ø 540 - 580 mm)

Art. 10/61 Follower plate Ø 400 mm for drums 50 - 60 Kg
(drums internal ø 360 - 400 mm)

Art. 10/62 Follower plate Ø 370 mm for drums 30 - 50 Kg
(drums internal ø 335 - 360 mm)



Union ø 50,8 mm

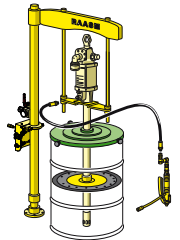


Drum cover for pumps with suction tube ø 50,8

Art. 10/55 Drum cover ø 600 mm for drums 180 - 220 Kg
(drums external ø 550 - 600 mm)

Art. 10/56 Drum cover ø 420 mm for drums 50 - 60 Kg
(drums external ø 370 - 420 mm)

Art. 10/57 Drum cover ø 385 mm for drums 30 - 50 Kg
(drums external ø 340 - 385 mm)



Follower plate for pumps S. 1200 - 1500 with suction tube ø 50,8

Art. 10/65 Follower plate ø 585 mm for drums 180 - 220 Kg
(drums internal ø 540 - 580 mm)

Art. 10/66 Follower plate ø 400 mm for drums 50 - 60 Kg
(drums internal ø 360 - 400 mm)

Art. 10/67 Follower plate ø 370 mm for drums 30 - 50 Kg
(drums internal ø 335 - 360 mm)



Union 2" F

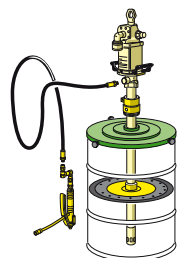


Drum cover with threaded bushing 2" f

Art. 65160 Follower plate ø 600 mm for drums 180 - 220 kg
(drums external ø 550 - 600 mm)
suitable to fit pump bung adaptor

Art. 65142 Follower plate ø 420 mm for drums 50 - 60 kg
(drums external ø 370 - 420 mm)
suitable to fit pump bung adaptor

Art. 65138 Follower plate ø 385 mm for drums 30 - 50 kg
(drums external ø 340 - 385 mm)
suitable to fit pump bung adaptor





Air-operated pump elevator

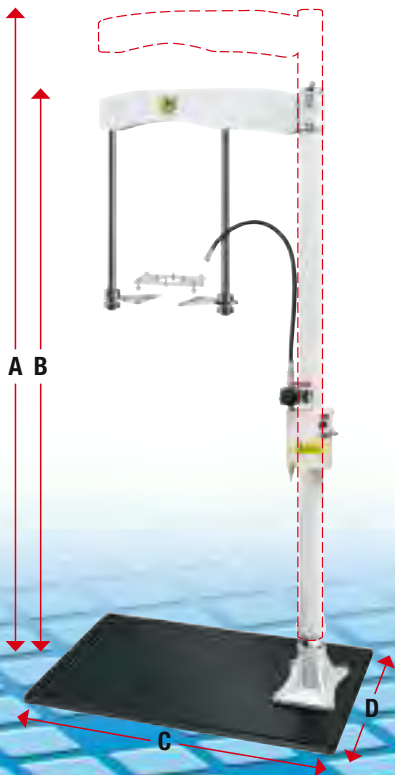
1 column

The Pump elevators are available in single column (with or without basement) or twin column version. It is raised by compressed air, via the side mounted 3-way valve allowing to change the drum easily and quickly. A special version of the twin columns elevator is equipped with 2 rods which connected to a special follower plate (available on request) may push it downward making easier suction of the fluid and increasing the performance of the pump. They are available for 180-220 Kg drums.



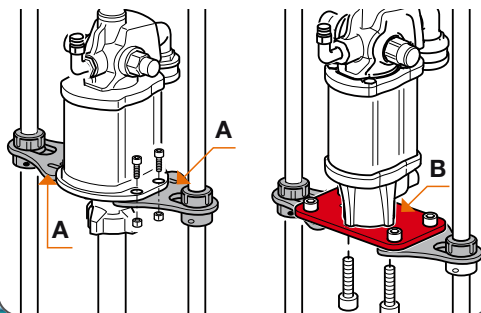
Article	10/81	10/80
Column	1	1
Suitable for drums	180 - 220	180 - 220
Working temperature	+ 2 °C + 40 °C	+ 2 °C + 40 °C
Pressione max	8	8
Usable pumps	S. 600 - 700 grease pump - 900 - 1200 - 1500 - 1800	
Noise level	negligible (< 70)	
Pushing force upwards at:	* 4 bar 113 kg - 6 bar 170 kg - 8 bar 226 kg	4 bar 113 kg - 6 bar 170 kg - 8 bar 226 kg
Pushing force downwards at:	-	-
Packing	1 - 0,679	1 - 1,165
Gross weight	75	97
Height max/min (A - B)	271,5 - 171,5	275 - 175
Dimensions (C - D)	14 - 25,5	86,6 - 63

Nota: *theoretical values, the coefficients of friction are not calculated.



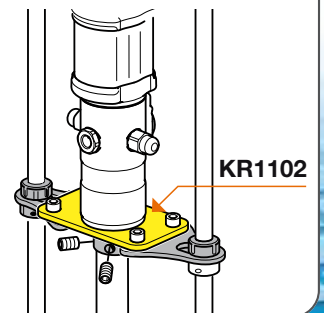
STANDARD BRACKETS

All the elevators are equipped with 2 standard brackets (A - B) suitable for mounting all our industrial pumps.



BRACKETS ON REQUEST

KR1102: Special support suitable to mount pump with ø 30 mm suction tube.



2 column



10/82

2

180 - 220
+ 2 °C + 40 °C

8

S. 600 - 700 grease pump - 900 - 1200 - 1500 - 1800
negligible (< 70)

*

4 bar 226 kg - 6 bar 339 kg - 8 bar 452 kg

-

1 - 1,406

128

275 - 175

108,6 - 63

2 column + fluid press



10/85

2

180 - 220
+ 2 °C + 40 °C

8

S. 600 - 700 grease pump - 900 - 1200 - 1500 - 1800
negligible (< 70)

*

4 bar 509 Kg - 6 bar 763 Kg - 8 bar 1017 Kg

**

4 bar 432 Kg - 6 bar 648 Kg - 8 bar 864 Kg

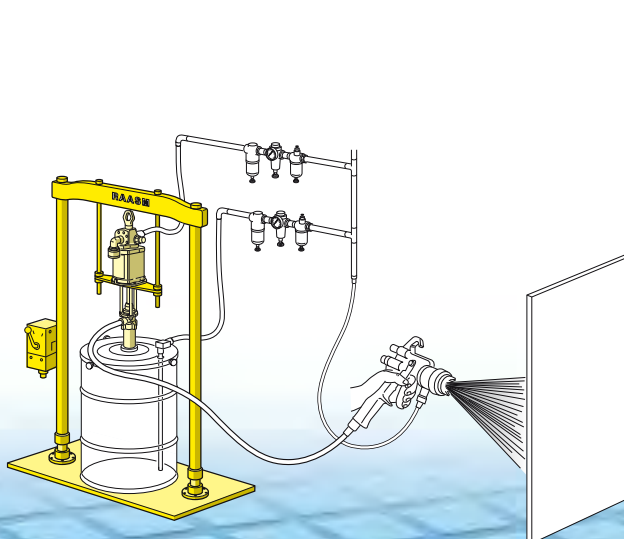
1 - 1,840

187

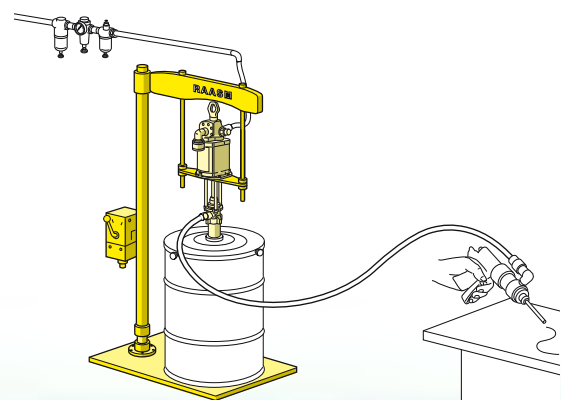
280 - 180

108,6 - 63

Nota: **theoretical figures: friction has not been considered. Furthermore depression's force created by the pump during suction (+2100 Kg) must be added to the listed figures.



Fluid distribution system (for paints, lubricants, protective liquids, etc.) fed by pump mounted on drum in fixed station and delivery with spray gun.



Automated system for the delivery of preselected quantities of fluids (inks, paints, greases, etc.), fed by pump mounted on drum, with twin column ram



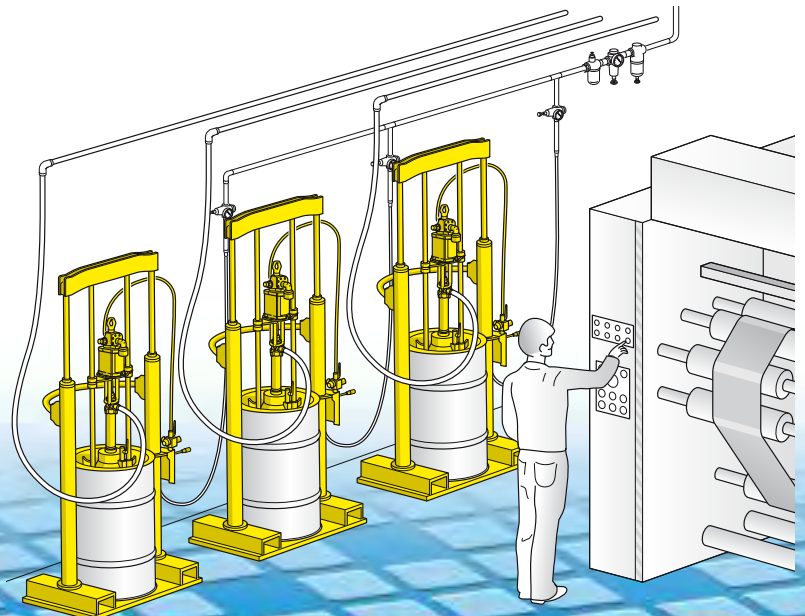
Air-operated twin column ram hoist

low pressure/high flow rate

Air-operated twin column ram hoist with industrial pump. It is raised and lowered by compressed air, via the side mounted 3-way valve. Essential when pumping high viscosity and heavy fluids since ram pushes down the follower plate helping pump working. It is suitable for 180- 220 Kg drums.



Article with follower plate with pump seals	NBR PU	10/1561P1N	10/1881P1N
Ratio		6:1	8:1
Flow rate		80 l/min	65 l/min
Pump	Art.	150D/61	180D/81
Suction tube		F 2" G	F 2" G
Twin column ram	Art.	10/85	10/85
Follower plate	Art.	11/60	11/60
Adaptors for follower plate	Art.	21/62	21/62
Pump connection hose	Art.	996.3015	996.3015
Follower plate connection hose	Art.	995.301	995.301
Suitable for drums	Kg	200	200
Packing	N° - m ³	1 - 1,80	1 - 1,80
Weight	Kg	263	266
Height max/min (A - B)	cm	280 - 180	280 - 180
Dimensions (C - D)	cm	108,6 - 63	108,6 - 63



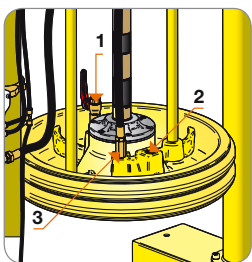
medium pressure/medium flow rate

high pressure/low flow rate

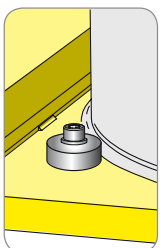


10/09111P1N	10/12181P1N	10/12401P1N	10/09451P1N	10/12751P1N	10/15701P1N
11:1	18:1	40:1	45:1	75:1	70:1
30 l/min	23 l/min	10 kg/min	4,4 kg/min	4,4 kg/min	7 kg/min
90F/111	115F/181	118FSP/401	90FSP/451	115FSP/751	153FSP/701
ø 45	ø 45	ø 50,8	ø 45	ø 45	ø 50,8
10/85	10/85	10/85	10/85	10/85	10/85
11/60	11/60	11/60	11/60	11/60	11/60
21/64	21/64	21/65	21/64	21/64	21/65
996.3015	996.3015	996.3015	996.3015	996.3015	996.3015
995.301	995.301	995.301	995.301	995.301	995.301
200	200	200	200	200	200
1 - 1,80	1 - 1,80	1 - 1,80	1 - 1,80	1 - 1,80	1 - 1,80
225	226	231	228	230	238
280 - 180	280 - 180	280 - 180	280 - 180	280 - 180	280 - 180
108,6 - 63	108,6 - 63	108,6 - 63	108,6 - 63	108,6 - 63	108,6 - 63

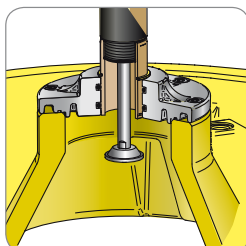
Technical features



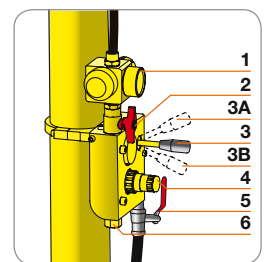
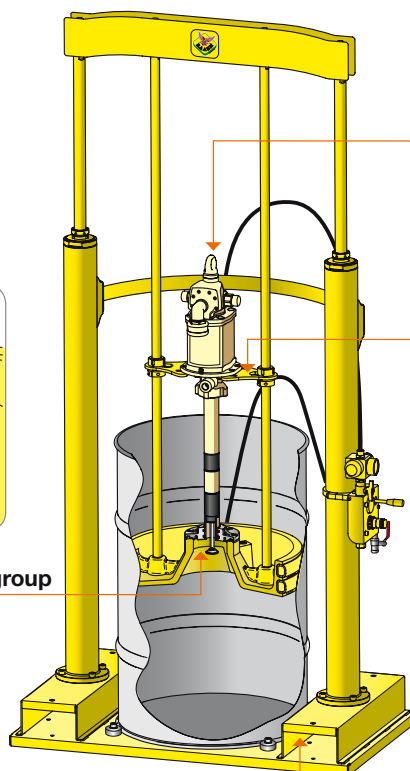
- 1 Ball cock for air bleeding during followerplate setting on new drum
- 2 Optional connection to pump outlet for pump starting and air bleeding when using a new drum
- 3 Air hose connection for follower plate lifting



References to centre the drum



Conical follower plate and bottom pumping group

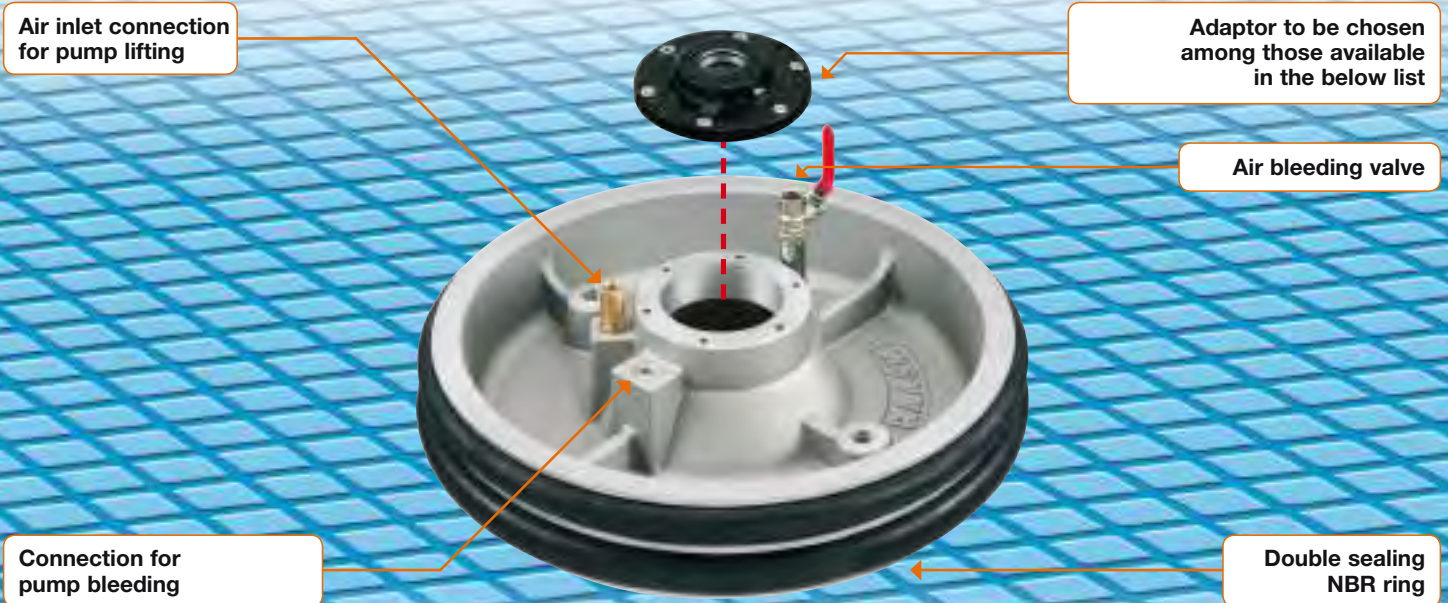


- 1 Pressure regulator with manometer for pump air feeding
- 2 Pump air feeding ball cock
- 3A Follower plate and pump lifting position
- 3 Off position
- 3B Follower plate descent position
- 4 Pressure regulator with manometer for twin column ram air feeding
- 5 Ball cock to put air under the follower plate for pump lifting
- 6 Air inlet connection



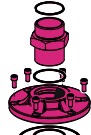


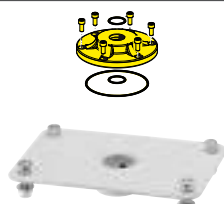


Technical features

Follower plate ø 585 mm with double sealing **NBR** ring, to be used with air operated twin column ram for drums 180 - 220 Kg, for grease or high viscosity fluid.



The follower plate can be used with different kind of pumps thanks to special adaptors shown in the below list and available on request.

Article		Description
Art. 11/60		Follower plate ø 585 mm with double o-ring in NBR
Art. 21/61		Adaptor suitable for pumps with F 1" G suction tube
Art. 21/62		Adaptor suitable for pumps with F 2" G suction tube
Art. 21/64		Adaptor suitable for pumps with ø 45 mm suction tube
Art. 21/65		Adaptor suitable for pumps with ø 50,8 mm suction tube
Art. 21/63		Adaptor + Support (KR1102) suitable for pumps with ø 30 mm suction tube Grease pumps Series 600 - 700



Twin column ram: PERSONALIZED KIT

In order to satisfy any particular need it is possible to create one's personalized kit choosing pump, follower plate, adaptors and support. We suggest you to look at the information explained in the following pattern.

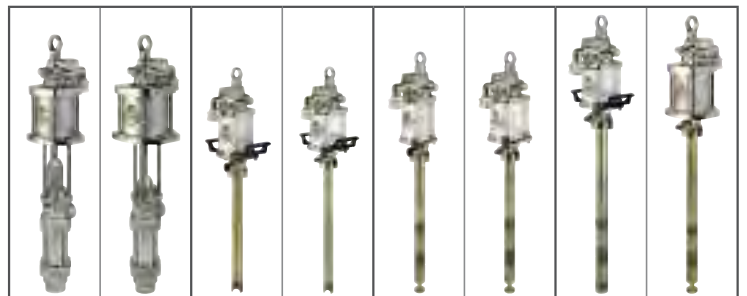
1 Twin column ram



Art. 10/85

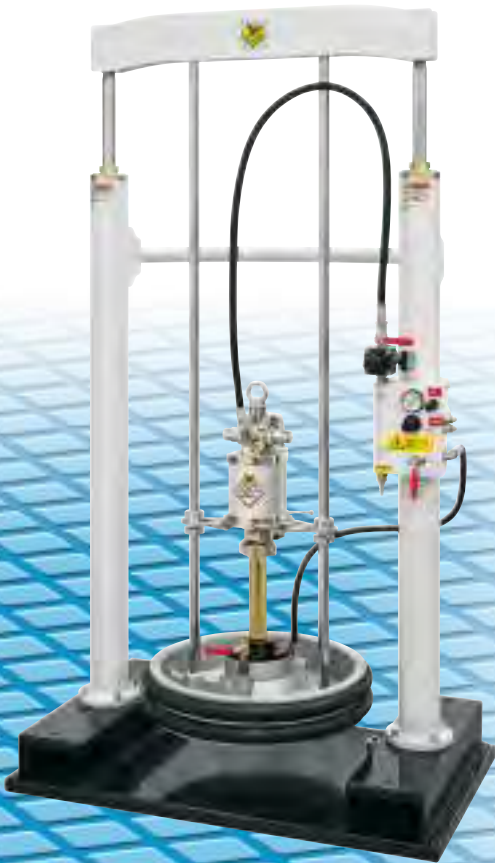
2 Pumps

Choose the industrial pump with technical features (pressure ratio, flow rate, etc.) suitable for one's needs.



Article	150D/61	180D/81	90F/111	115F/181	90FSP/451	115FSP/751	118FSP/401	153FSP/701
Series	1500	1800	900	1200	900	1200	1200	1500
Ratio	6:1	8:1	11:1	18:1	45:1	75:1	40:1	70:1
Flow rate	80 l/min	65 l/min	30 l/min	23 l/min	4400 g/min	4400 g/min	10000 g/min	7000 g/min
Seals	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Suct. tube	-	-	-	480 mm	500 mm	500 mm	600 mm	600 mm

3 Follower plate

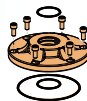


Art. 11/60

4 Adaptors

Choose the adaptor to be mounted on follower plate 0AZ1160 which must fit pump's suction tube diameter.

Art.
21/61



Art.
21/62



Art.
21/63



Art.
21/64



Art.
21/65





Product customisation



RAASM offers its customers the opportunity of ordering the products included in its range in different colours among the 6 made available.

They can be requested by customers **without minimum quantity requirements, or extra costs, choosing from the 5 additional colours to the standard colour** (RAASM green).

Customisation is characterised exclusively by the colour and **does not include:** instruction handbooks, labels, brands, etc.

Delivery times can vary with respect to standard colour products (RAASM green).

The above-mentioned customisation does not include the brake bleeders, pit and floor drainers, air-operated pumps, trolleys, service columns and accessories.

Requests for different colours, in addition to those made available, or other types of customisation, must be appraised from time to time and will be tied to minimum quantities and additional costs

STANDARD COLOURS

Products for which a customised colour is not specified, are understood to be supplied with the standard colour as per the catalogue.

STANDARD



RAL 7035



To order an article with a colour **different from standard**, among the six made available, it is necessary to add the following to the article number

the suffix:	/GREEN	for green
	/C1	for neutral
	/C2	for yellow
	/C4	for red
	/C5	for blue

RAASM
Ral 7035
Ral 1004
Ral 3020
Ral 5002

OPPORTUNITY

RAASM offers its customers the opportunity of ordering articles in 4 different colours besides the standard one.

STANDARD



RAL 7035



RAL 1004



RAL 3020



RAL 5002



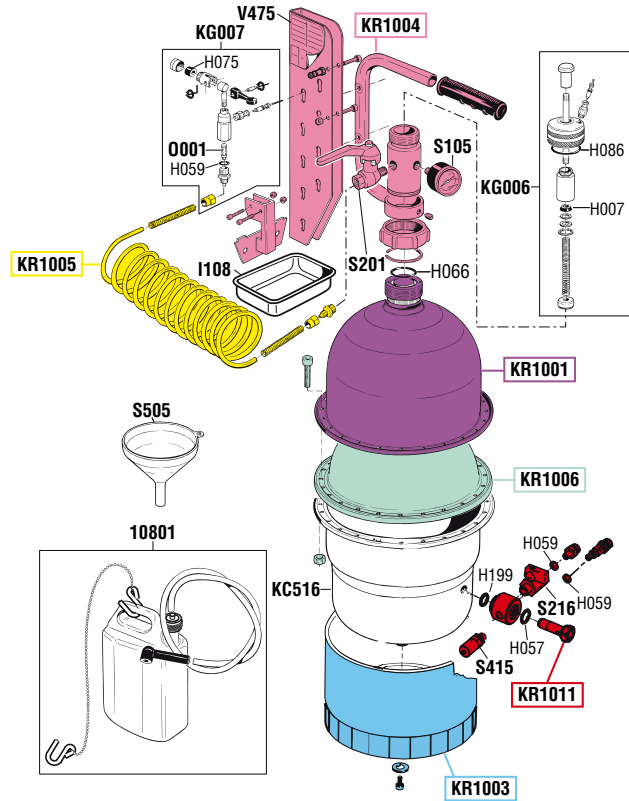


Guide to reading the SPARE PARTS CATALOGUE

↓ Exploded view



APPARECCHIO SPURGOFRENI E FRIZIONI A 2 CAMERE
TWO-CHAMBER BRAKE-CLUTCH BLEEDING DEVICE



↓ List of KR's (spare part kits) into which the article is divided. Every KR (e.g. KR1003) includes a distinct and homogeneous set of parts. A KR kit can be common to several articles.

↓ List of parts of the article supplyable individually

↓ The seal kit (e.g. KR1050) includes all the seals used in the article. This kit is not mentioned or shown in the exploded view.

KIT RICAMBI		
OGNI KIT SOTTO RIPORTATO COMPRENDE I RICAMBI EVIDENZIATI CON LO STESSO COLORE E LE RELATIVE GUARNIZIONI. QUESTI RICAMBI NON SONO FORNIBILI SEPARATAMENTE TRANNE QUELLI CODIFICATI.		
SPARE PARTS KITS		
EACH KIT SHOWN WITH THE SAME COLOR INCLUDES ALSO THE GASKETS. THE SPARE PARTS INCLUDED IN THE KIT CAN'T BE SUPPLIED SEPARATELY EXCEPT THOSE SHOWN WITH A PROPER CODE.		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
KR1001	CALOTTA SUPERIORE UPPER CAP	1
KR1003	PIEDISTALLO FOOT-STALL	1
KR1004	GRUPPO SUPERIORE COMPLETO COMPLETE UPPER GROUP	1
KR1005	TUBO COLLEGAMENTO CONNECTION HOSE	1
KR1006	MEMBRANA CON SET VITI MEMBRANE WITH SET OF SCREWS	1
KR1011	GRUPPO INFERIORE COMPLETO COMPLETE LOWER GROUP	1

ELENCO RICAMBI FORNIBILI SINGOLARMENTE			
LIST OF SPARE PARTS WHICH CAN BE SUPPLIED SEPARATELY			
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY	
10801	TANICHETTA DI RECUPERO BRAKE FLUID COLLECTION CONTAINER	1	
I108	VASCHETTA PORTA OGGETTI TOOL TRAY	1	
KC516	SERBATOIO INFERIORE LOWER RESERVOIR	1	
KG006	TAPPO CARICA OLIO OIL LEVEL INDICATOR	1	
KG007	ATTACCO RAPIDO QUICK COUPLER	1	
S105	MANOMETRO ø 50 mm GAUGE ø 50 mm	1	
S201	RUBINETTO A SFERA 1/4" BALL VALVE 1/4"	1	
S216	RUBINETTO A SFERA 1/4" BALL VALVE 1/4"	1	
S415	VALVOLA DI SICUREZZA 3 bar SAFETY VALVE 3 bar	1	
S505	IMBUTO RECUPERO OLIO FUNNEL	1	
V475	ETICHETTA ELENCO TAPPI LABEL	1	

Art. KR1050		
KIT GUARNIZIONI COMPLETO		
COMPOSTO DALLE GUARNIZIONI SOTTO ELENcate		
JOINTS GASKETS LIST		
INCLUDING ALL THE GASKETS SHOWN HERE UNDER		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
H007	GUARNIZIONE GASKET	1
H057	O-RING 2062 O-RING 2062	1
H059	O-RING 2037 O-RING 2037	1
H066	O-RING 3118 O-RING 3118	1
H068	O-RING 112 O-RING 112	1
H075	GUARNIZIONE ATTACCO RAPIDO QUICK CONNECTOR GASKET	1
H086	O-RING 4118 O-RING 4118	1
H199	O-RING 119 O-RING 119	1
0001	FILTRO ATTACCO RAPIDO QUICK CONNECTOR FILTER	1

A KS (e.g. KS1080) groups the spare parts (KR or single parts) given in the other tables. These are the spare parts recommended by the manufacturer, at the sales points and service centres, above all for first deliveries. Clearly, a KS cannot be shown in the exploded view

Art. KS1081		
SET RICAMBI CONSIGLIATI		
AI PUNTI VENDITA E ASSISTENZA,		
COMPOSTO DAI RICAMBI SOTTO ELENcati		
SPARE PARTS KIT ADVISED		
TO THE REPAIR CENTERS. THIS KIT INCLUDES		
ALL THE SPARE PARTS SHOWN HERE UNDER		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TÀ QTY
KR1006	MEMBRANA CON SET DI VITI MEMBRANE WITH SET OF SCREWS	1
KR1050	KIT GUARNIZIONI COMPLETO COMPLETE GASKETS KIT	1
S105	MANOMETRO ø 50 mm GAUGE ø 50 mm	1



General sales terms



Reserved exclusively for the foreign market

Art. 1 : DELIVERY OF GOODS

The goods are only forwarded ex factory, by means of the carrier specified by the customer and, in any case, travel at the customer's risk and hazard.

Art. 2 : ORDERS

Orders for amounts of less than Eur 1500,00 (one thousand five hundred Euro) are not accepted. Whenever the execution of orders for amounts of less than Eur 1500,00 becomes essential, Eur 155,00 shall be charged for partial refund of our administrative costs.

Art. 3 : ACCESSORIES

All the accessories given in the price list (plugs, oil bar taps, oil guns, grease guns, probes, etc.) are supplied exclusively for fitting to or combining with the articles we produce.

Art. 4 : COMPLAINTS

Any complaint for shortages, errors or defects, noticed by a first exam of the goods, must be sent in writing to our Head office within 8 days of receiving the goods. Any defect of the product that is possible to notice only by using must be sent in writing to our Head office within 8 days from its discovering.

Art. 5 : DELIVERY TERMS

The delivery dates are always approximate. Possible delays in delivery do not give the customer any right to cancel the order or to claim ensuing damages. Urgent cases are subject acceptance by the Firm. The Firm has the right not to execute the order and to execute it fully or partially, without any claims or claims for damage being made towards the Firm.

Art. 6 : PACKS AND PACKAGING

Packaging costs are included in the price, except for special packing, which shall be charged at cost.

Art. 7 : PRICES

The current Price list cancels the previous price list. In the event of changes to our price list and/or individual articles, the goods shall be forwarded at the price in force on the day of delivery. The price-list and/or the prices of individual articles can be changed even without notice, according to the changes in market conditions or technical innovations/modifications made to the product. The prices are understood to be ex our Factory.

Art. 8 : PAYMENTS

Payments must be made exclusively to RAASM S.p.a. at the agreed conditions. Deductions or rounding off shall in no case be accepted. In the event of late payment with respect to the agreed conditions, the firm reserves the right to charge interest at the current rate and additional costs, starting from the day after that agreed on for payment. Discounts subject to payment already credited shall be re-charged.

Art. 9 : WARRANTY

RAASM S.p.a. provides every product with its manual, giving installation and maintenance instructions and indications about the controls that should be made. The warranty shall cover any defect due to material or manufacture procedure within validity and prescription terms fixed by the law, and, in this case, the only charge shall be of Eur 10,00. The guarantee will lapse in case of incorrect installation, operation or maintenance of the products. The articles must be returned free to our Factory for checking and acceptance. All technical information, drawings, illustrations etc. are supplied for guidance only. The company reserves the right to amend any design or specification without prior notice.

Art. 10 : RESPONSABILITY

RAASM S.p.a. is relieved of all responsibility and obligations for any accident to persons and things that can occur due to or during use of the equipment, or caused by and in connection with the equipment.

Art. 11 : COMPETENT LAW COURT

These conditions of sale shall be governed by and construed with Italian law, and any disputes shall be settled by the law-court of Bassano del Grappa (VI), Italy.



How to reach RAASM



by plane

With regular flights, the nearest airports are those Venice Tessera, Verona Villafranca and Treviso.

- **FROM VENICE TESSERA**
Bassano can be reached by train:
Venice - Padova - Cittadella
Bassano del Grappa.
- **FROM VERONA VILAFRANCA**
Bassano can be reached by train:
Dossobuono - Verona - Vicenza
Cittadella - Bassano del Grappa.
- **FROM TREVISO**
Bassano can be reached by train:
Treviso - Castelfranco - Cassola.



by train

RAASM can be reached also by train, getting off at Bassano del Grappa station.

- **BOLZANO:** Bolzano - Verona
Vicenza - Cittadella - Bassano del
Grappa.
- **MILAN:** Milan - Verona - Vicenza
Cittadella - Bassano del Grappa.
- **BOLOGNA:** Bologna - Padova
Cittadella - Bassano del Grappa.
- **TRIESTE - UDINE:** Trieste - Udine
Codroipo - Treviso - Castelfranco
Bassano del Grappa.

**RAASM is approx. 3 km
from the Train Station.**



by own transport

Arriving by car from the north or west, with Verona as the reference point take the A4 Motorway towards Vicenza - Valdagno. At the Dueville exit head for Bassano del Grappa.

If arriving from the south, with Padova as the reference point take State Road 47 towards Cittadella Bassano del Grappa.



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FLUIDS AND LUBRICATION EQUIPMENT

RAASM



THREE WORDS TO DESCRIBE RAASM

■ Technology

The starting point for the entire production cycle is the research and development of cutting-edge new solutions which lead to the development of **high quality products, fully produced in Italy.**



■ Quality

The quality of our product manufacturing has always been our absolute priority. To reach this goal rigorous testing accompanies every phase of the manufacturing process.



■ Functionality

RAASM offers the most complete range of lubrication products suited to many sectors. Our aim is to always be available to provide solutions to our customers.



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RAASM S.p.A.
36022 S. ZENO DI CASSOLA (VI)
Via Marangoni, 33 - ITALY

Export department
Tel. +39 0424 571 130 - Fax 0424 571 135
Technical department
Tel. +39 0424 571 150 - Fax 0424 571 155

info@raasm.com
www.raasm.com