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DESIGNED AND MANUFACTURED  
AT RAASM - ITALY

## FLUIDS AND LUBRICATION EQUIPMENT

### Automotive Lubrication



### Industrial Hose reels



### Industrial Pumps



technology, quality, functionality

Catalogue No 219

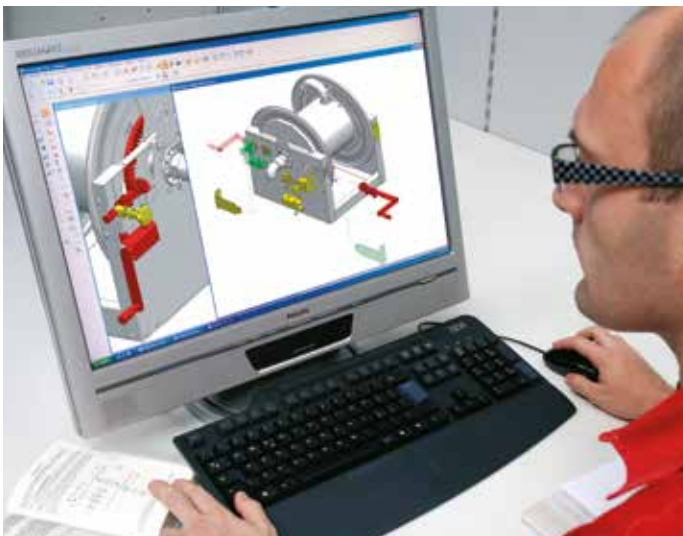
1st January 2011



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



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**



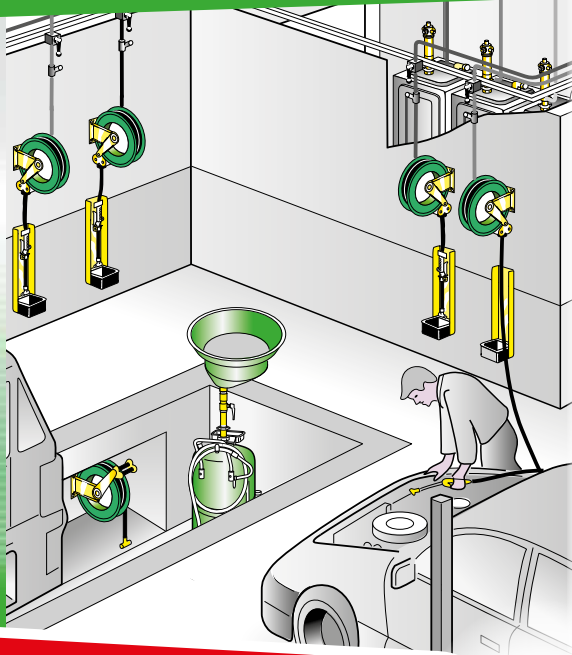


Pumps assembling with final control using a special software to verify pump's functionality.

## EFFICIENT AND WELL ORGANIZED ASSEMBLY LINES

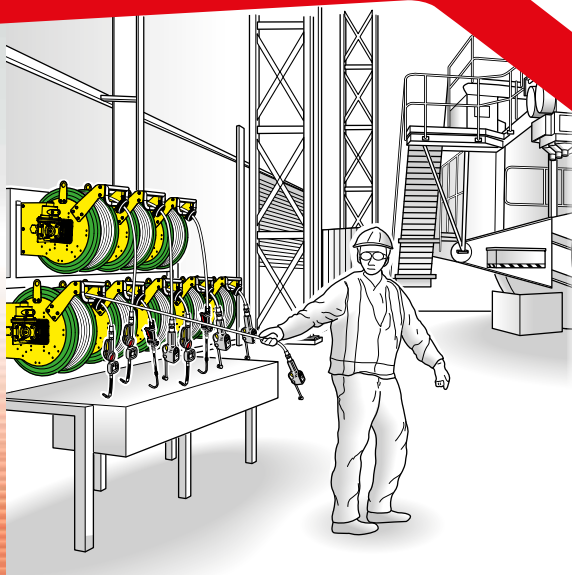


## Automotive lubrication



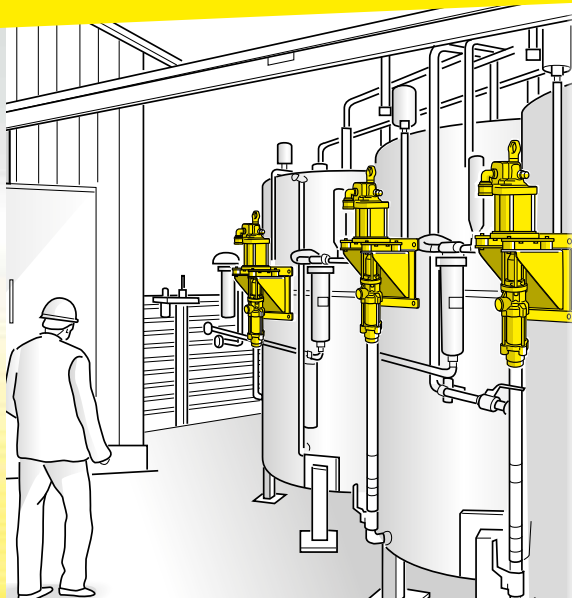
A wide variety of products for lubrication in the automotive, industrial, agricultural, marine and other sectors. Our products are designed to make work easier and quicker, according to the needs of our customers.

## 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.

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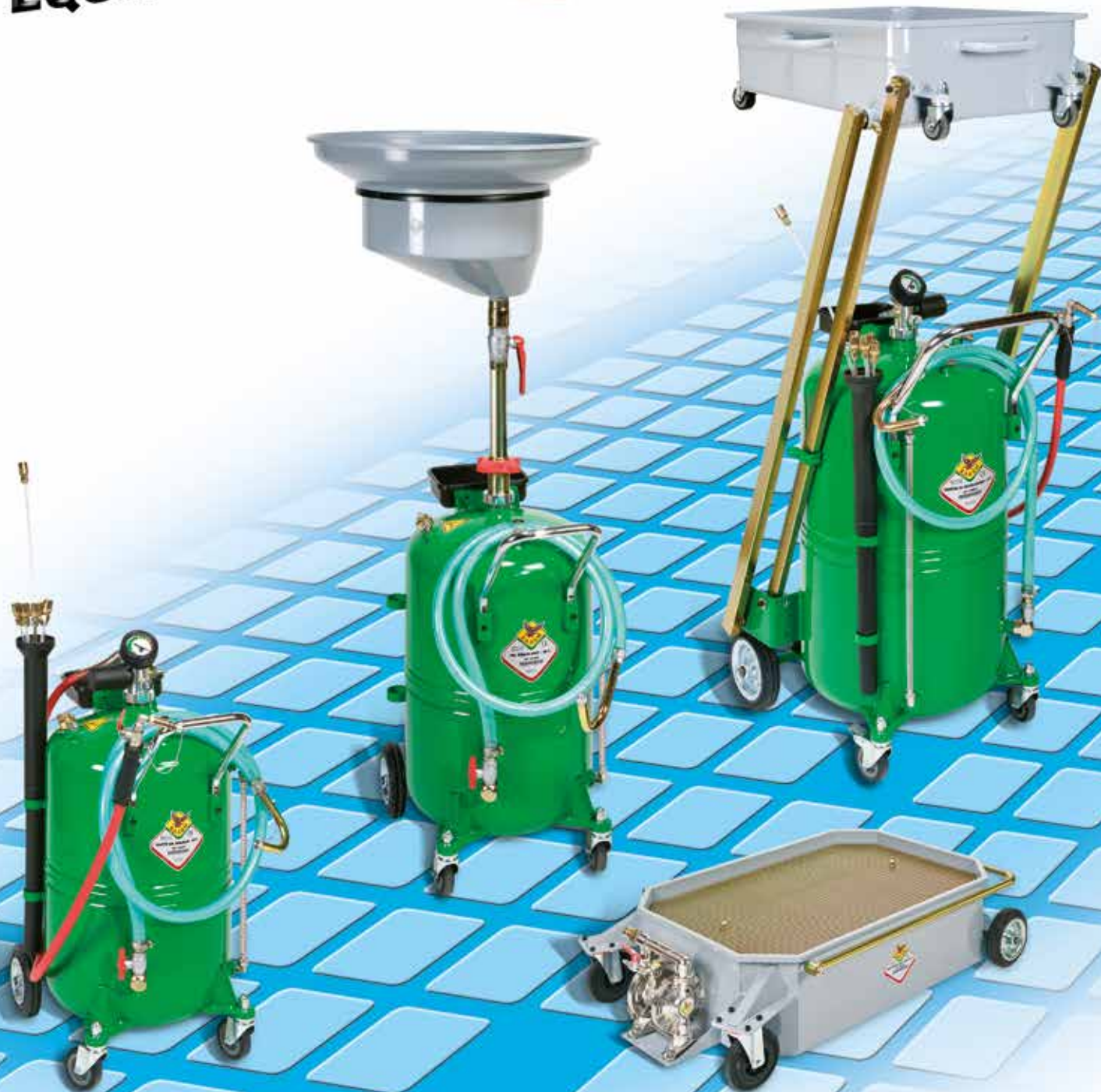
# AUTOMOTIVE LUBRICATION



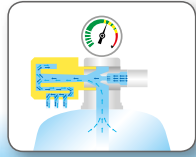




# FLUIDS AND LUBRICATION EQUIPMENT



# Waste oil suction-drainers



**SUCTION POWER**

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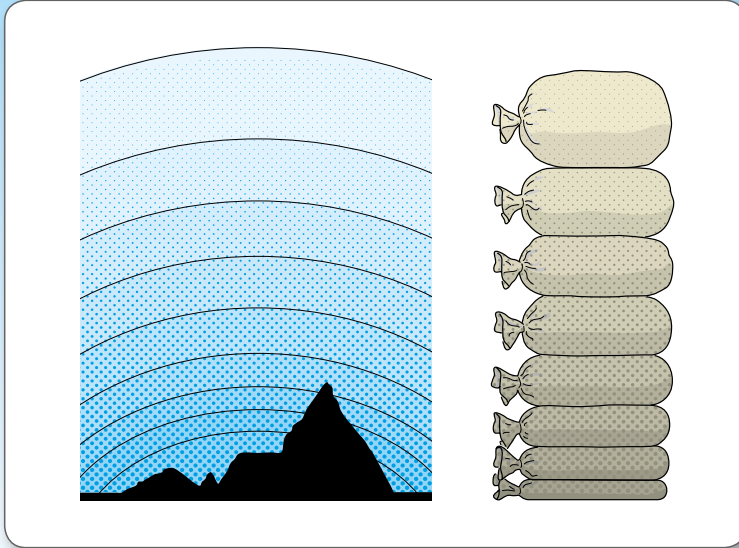
**SUCTION DRAINER-DISPENSERS WITH AIR-OPERATED PUMP** page 54



# Suction power

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

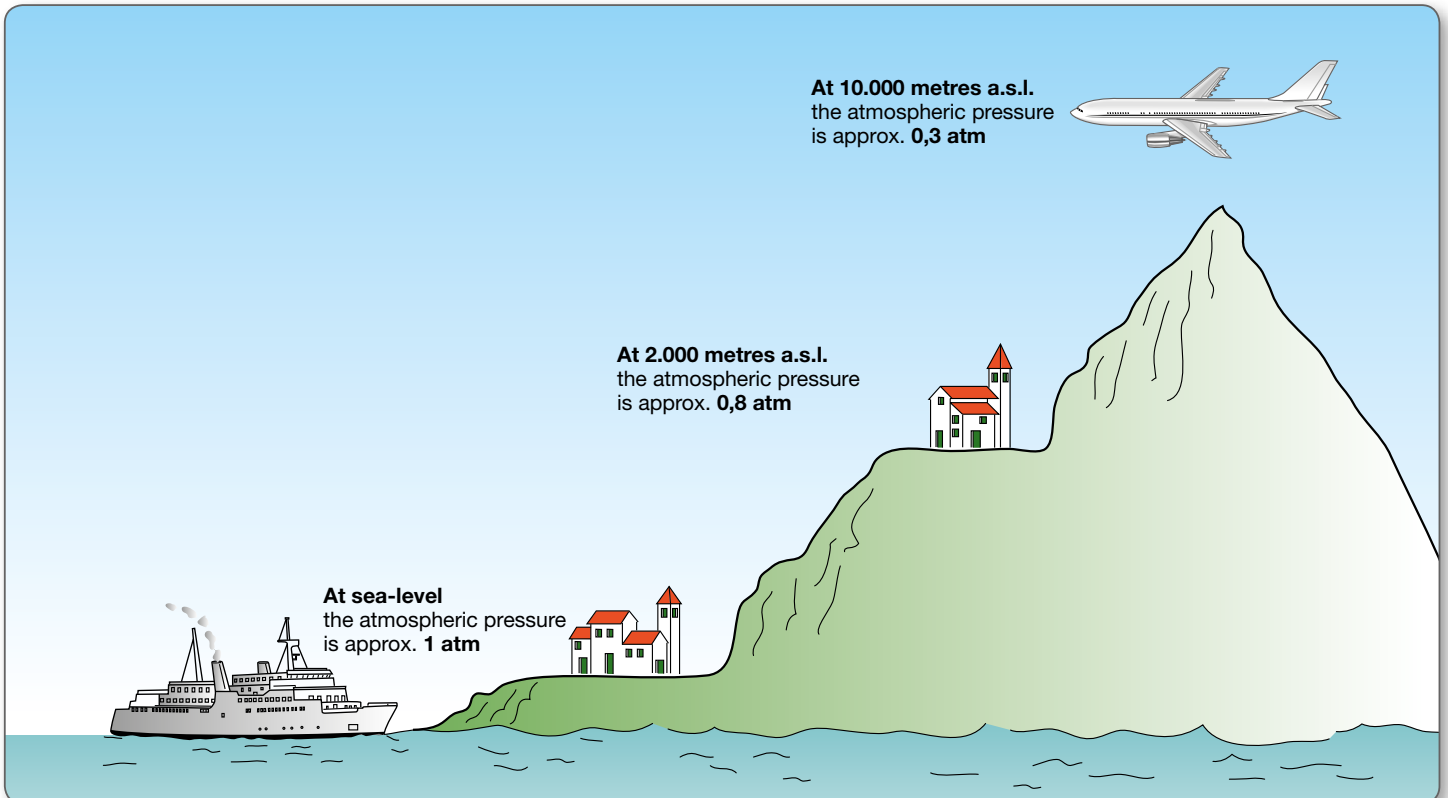
In this way the characteristics and advantages offered by the **oil drainer** will be clearly understood.



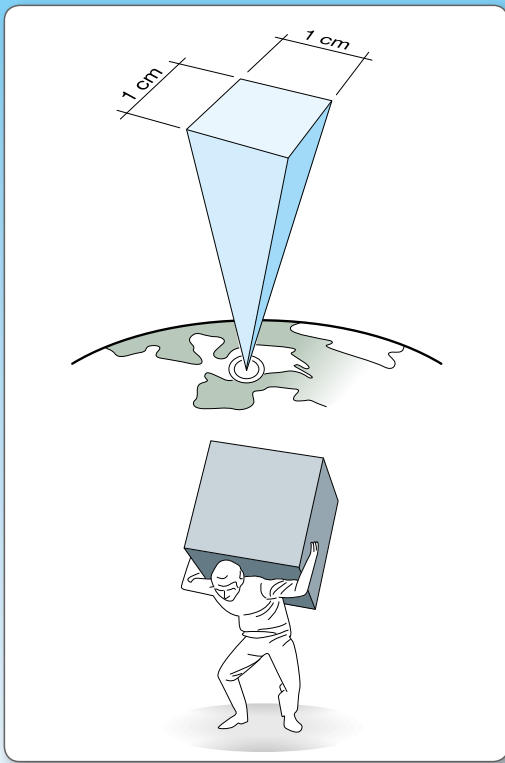
Pic. 1

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.

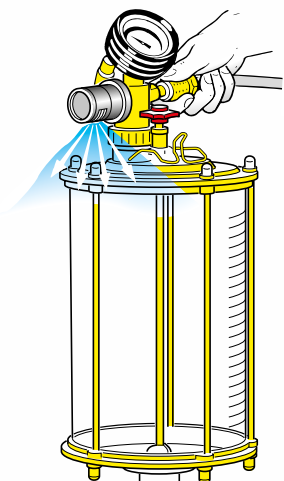
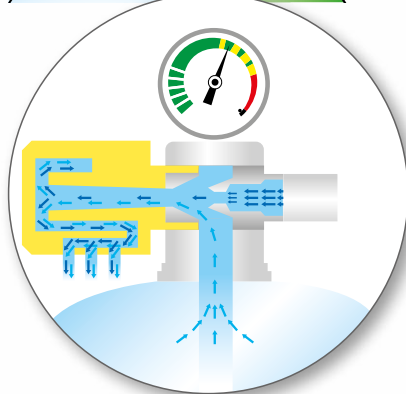
On the other hand, a **depression** or vacuum is obtained by removing all the air contained in a given recipient or tank, and the maximum value obtainable (vacuum or suction power) is independent of the pumping or suction system used. Whatever the pump used (**electric pump, air pump, Venturi principle,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



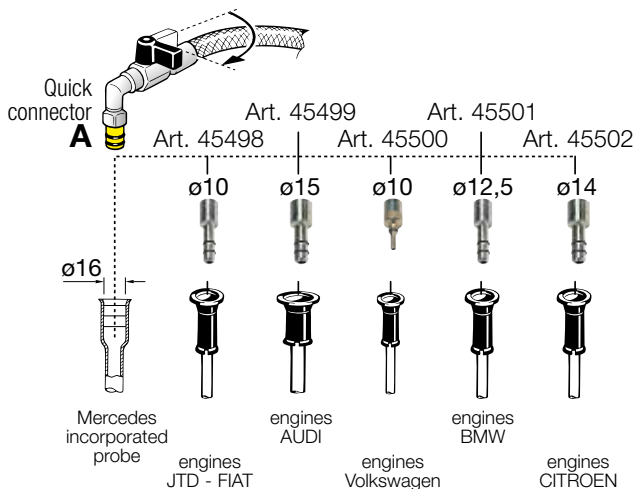
- Art. 45515
- Art. 45526
- Art. 45527
- Art. 45528
- Art. 45538
- Art. 45539
- Art. 45540

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

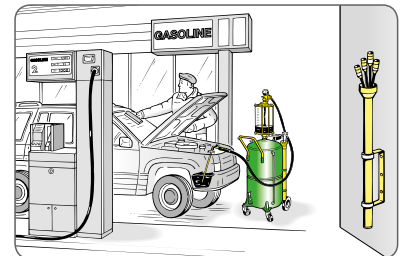
## Connectors for incorporated probes



- 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

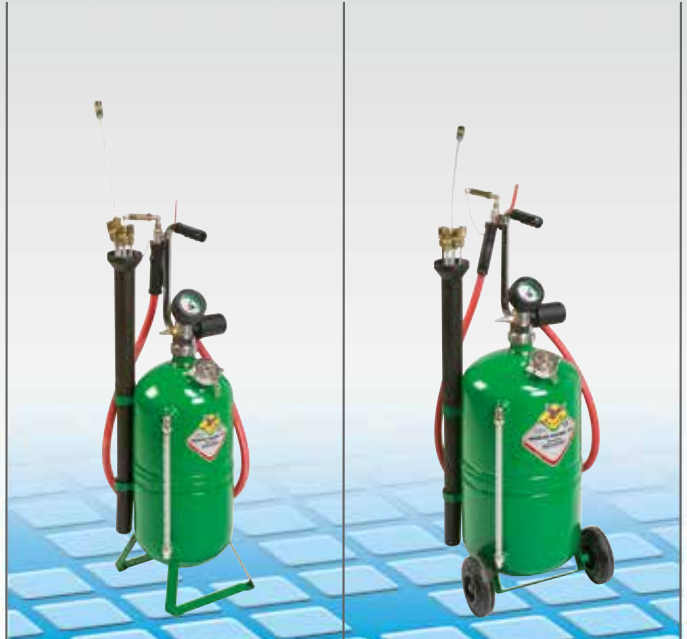
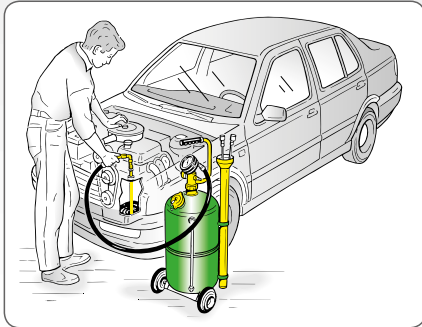


# PORTABLE waste oil drainers

manual emptying

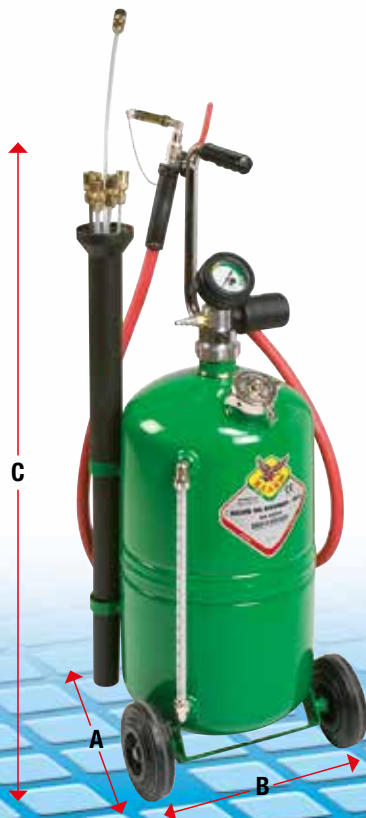
### Air-operated drainers.

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.**

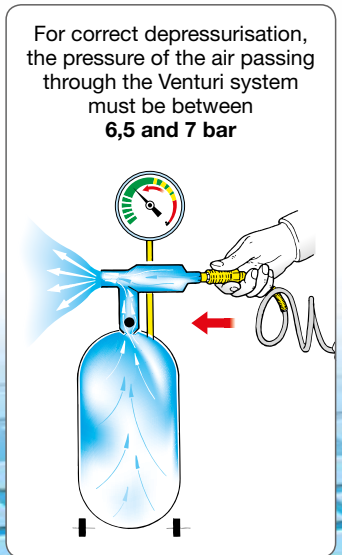
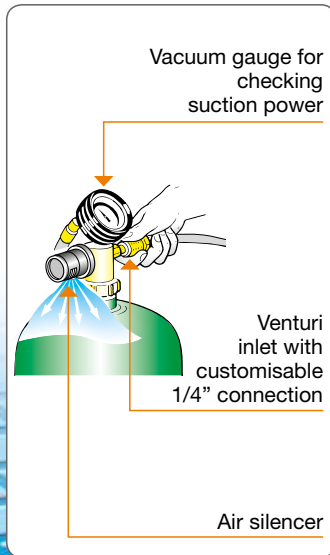


Article	portable	wheel-mounted
<b>43016</b>	<b>43016</b>	<b>43024</b>
<b>Tank capacity</b> litres	<b>16</b>	<b>24</b>
<b>Max draining capacity</b> litres	13	20
<b>Air pressure for depressurisation</b> bar	6,5 - 7	6,5 - 7
<b>Depressurisation time</b> min	1	1 - 1,5
<b>Noise level</b> dB	75	75
<b>Suction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

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



### Details and advantages

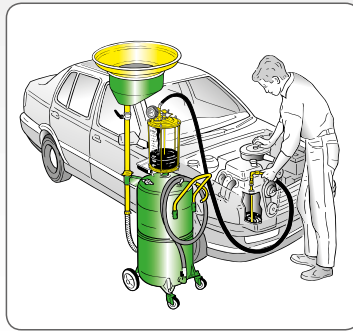
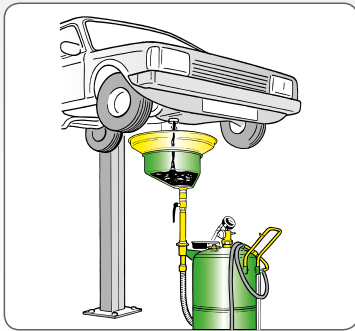




# PROFESSIONAL waste oil suction-drainers

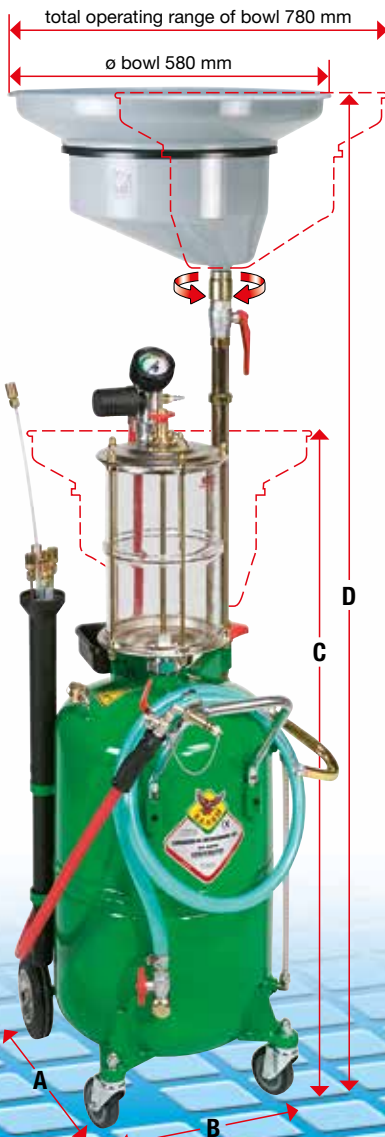
gravity-drainers

**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.**



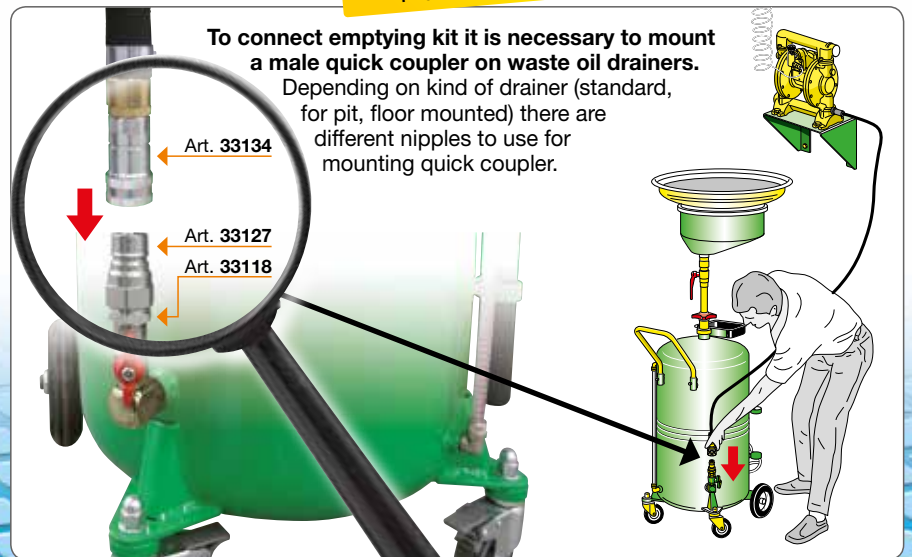
central bowl

side bowl



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

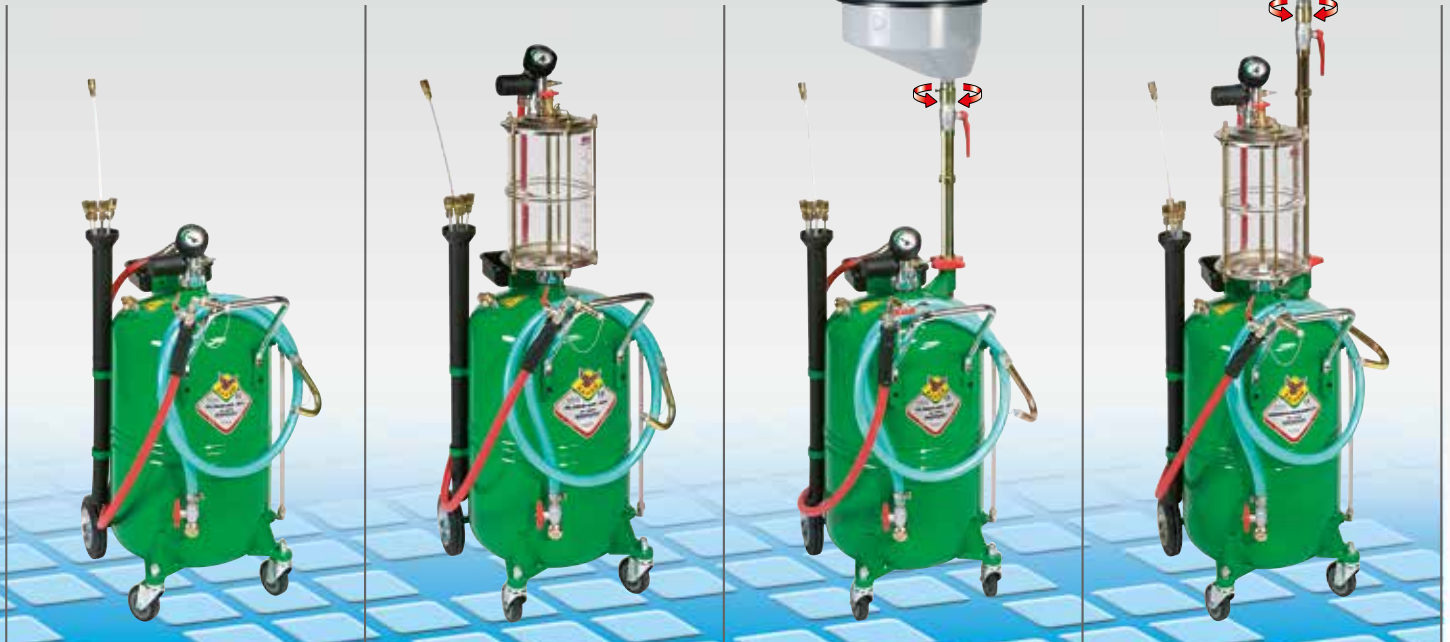
To connect waste oil gravity and suction drainers to emptying kit see page 50



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

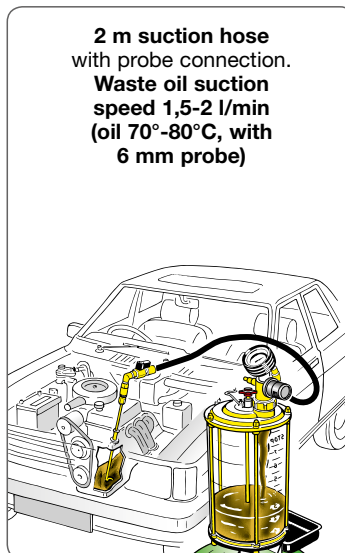
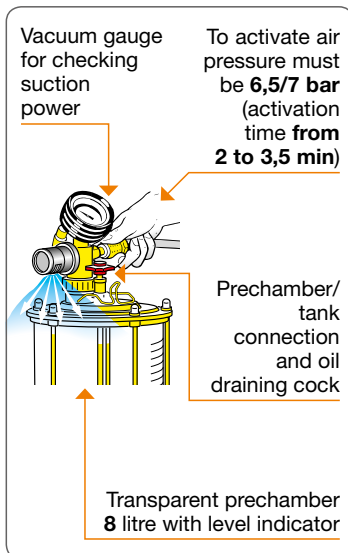
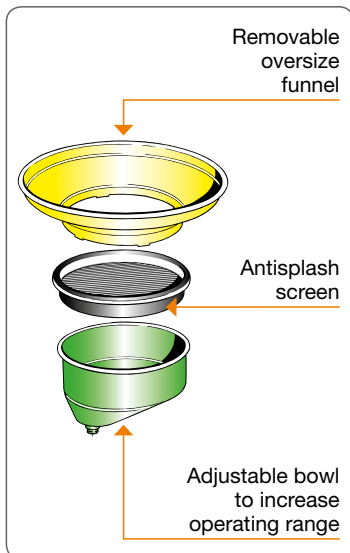
## combined drainers



standard			with prechamber			standard			with prechamber		
43060	43090	43114	43065	43091	43115	44060	44090	44115	44065	44091	44116
<b>65</b>	<b>90</b>	<b>115</b>	<b>65</b>	<b>90</b>	<b>115</b>	<b>65</b>	<b>90</b>	<b>115</b>	<b>65</b>	<b>90</b>	<b>115</b>
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



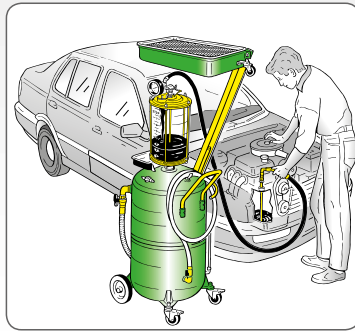
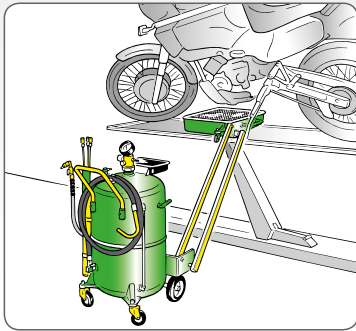




# PANTOGRAPH waste oil suction-drainers

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



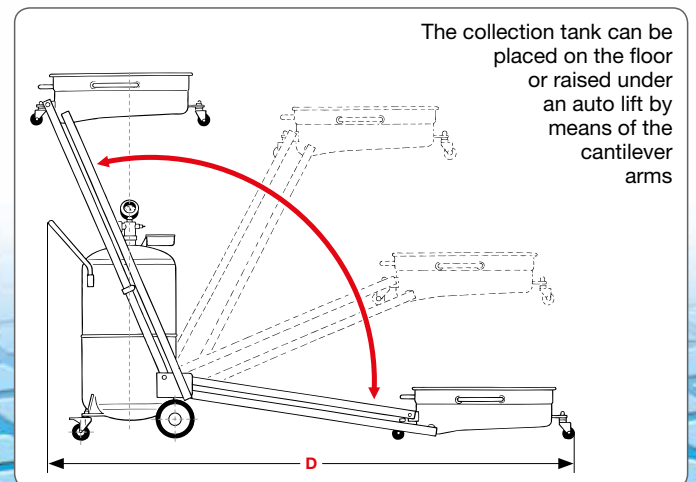
suction-drainers

combination

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



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



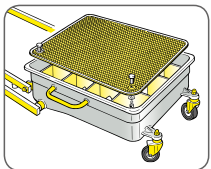
**cars**

**trucks**

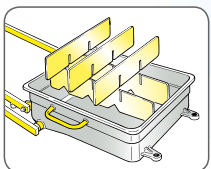


suction-drainers	combination	with prechamber	with collecting basin (50 litres)
<b>46114</b>	<b>46115</b>	<b>46116</b>	<b>46215</b>
<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>
97	97	97	97
-	-	8	-
14	14	14	50
-	6,5 - 7	6,5 - 7	6,5 - 7
-	3 - 3,5	3 - 3,5	3 - 3,5
-	75	75	75
-	1,5 - 2	1,5 - 2	1,5 - 2
-	85 - 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

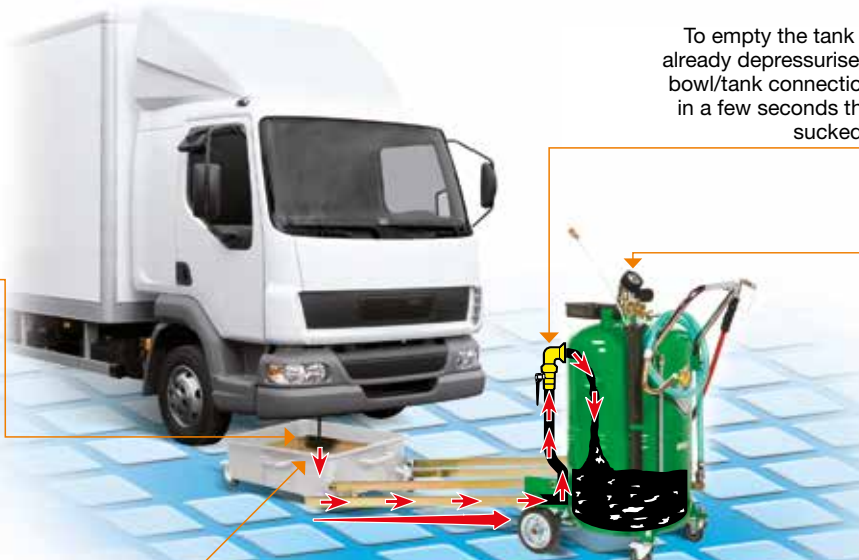
**Details and advantages**



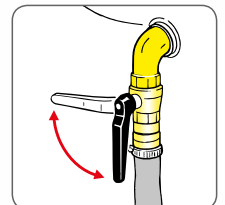
Protection screen/filter splash guard and support base for filter



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



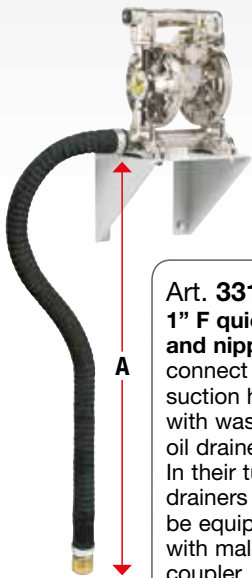
The air pressure for correct depressurisation is between **6,5 and 7 bar**



# Modular kit for TRANSFER or EMPTYING

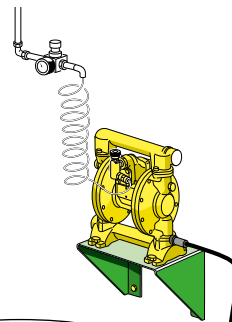
oil, waste oil and similar

**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.

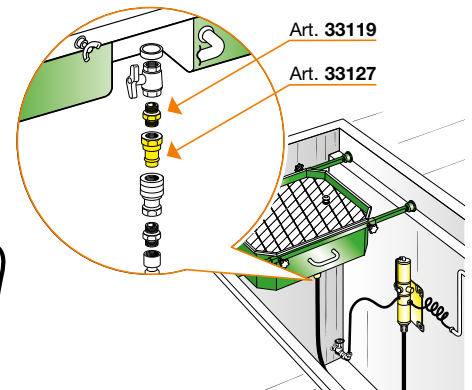


**Art. 33134**  
1" F quick coupler and nipple to connect pump suction hose with waste oil drainers. In their turn drainers must be equipped with male quick coupler.

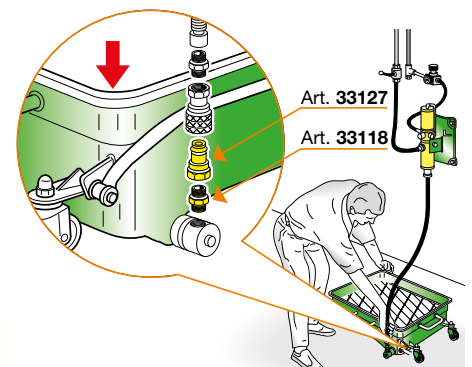
Aticle with seals in	<b>Viton®</b>		<b>33125</b>
Aticle with seals in	<b>NBR</b>	<b>33550</b>	
Ratio		<b>1:1</b>	<b>1:1</b>
Capacity	l/min	<b>70</b>	<b>23</b>
Pump	Art.	33/2011NHHV2	33070
Flexible suction tube 2 m	Art.	38026	38026
Air inlet flow regulator	Art.	37803	37803
Wall bracket	Art.	33590	33115
Packing	N° - m <sup>3</sup>	1 - 0,030	1 - 0,029
Weight	kg	14	8,4
Distance (A)	cm	150	150



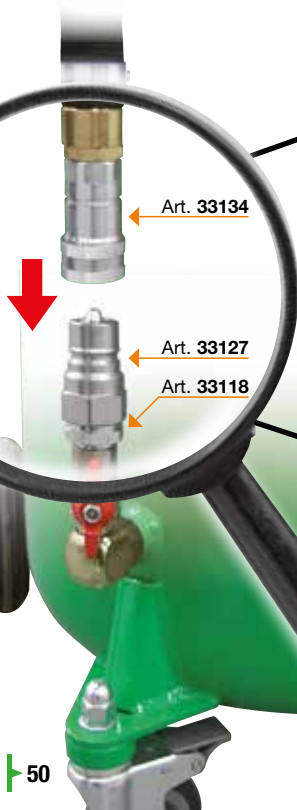
## 1 Pit waste oil drainer



## 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).



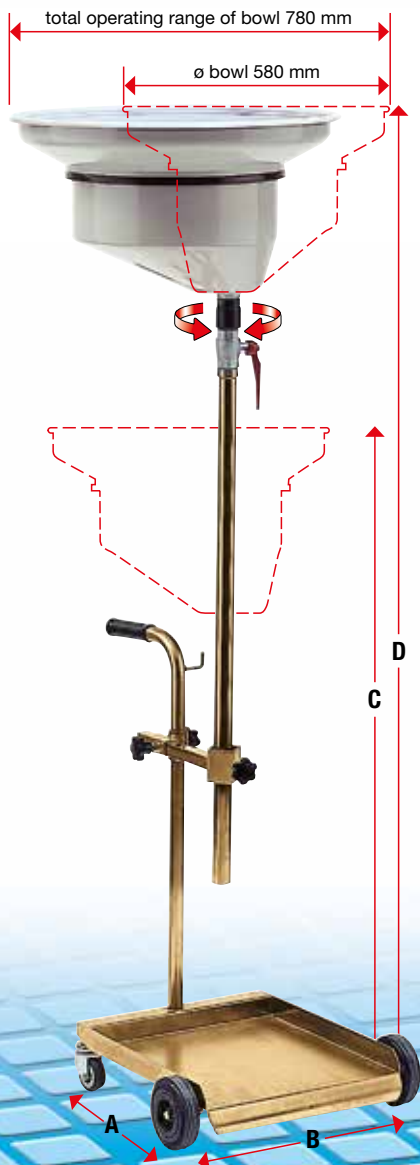
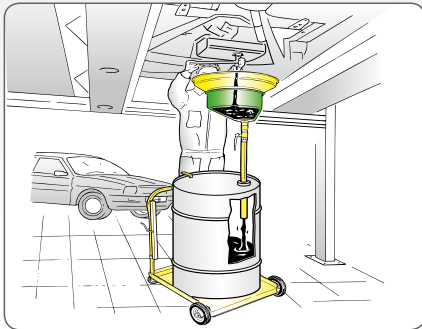
## 3 Standard waste oil drainer



# 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.



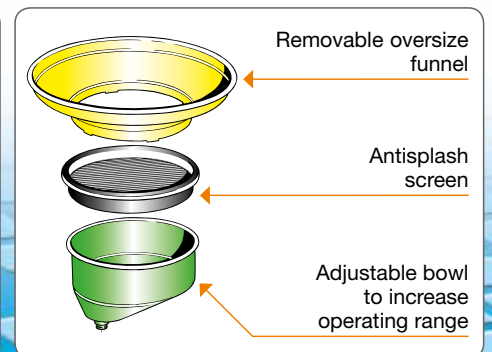
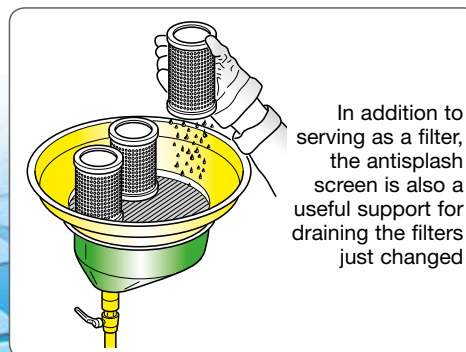
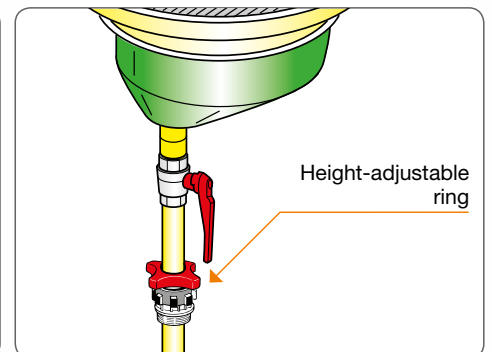
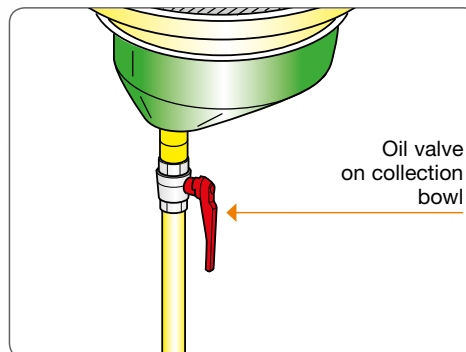
## 15 litre adjustable bowl



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

Caution: do not use with flammable or corrosive liquids

## Details and advantages

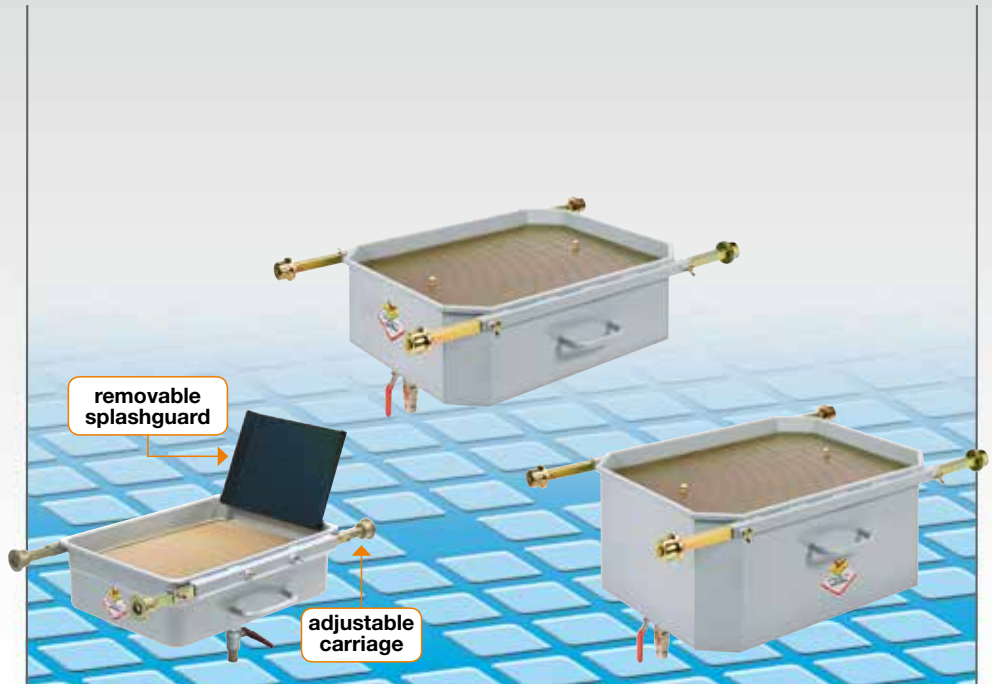
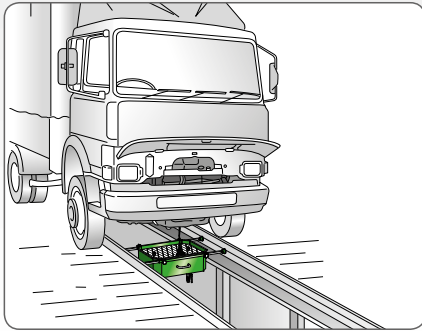




# Waste oil pit drainer

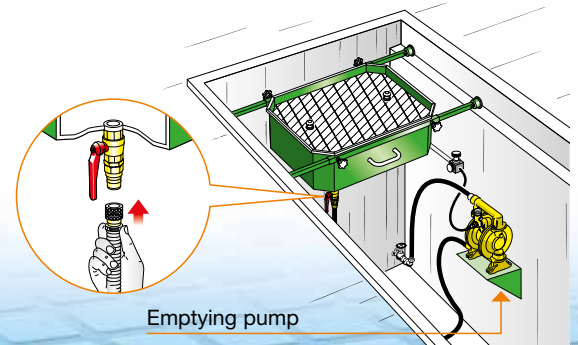
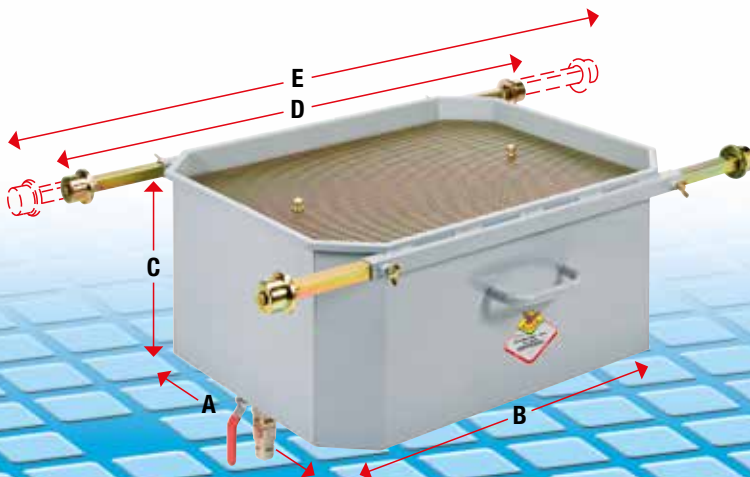
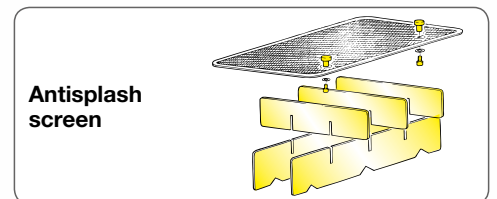
## Pit waste oil drainers.

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 <sup>3</sup>	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

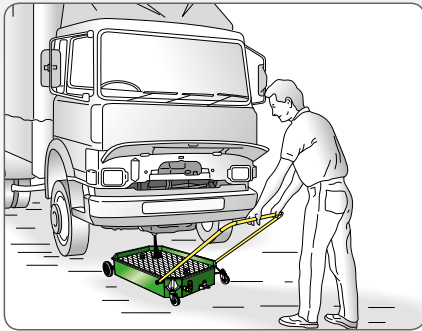


The drained oil can be transferred from the collection bowl to the storage tank by gravity or by using an emptying pump connected to the fixed system



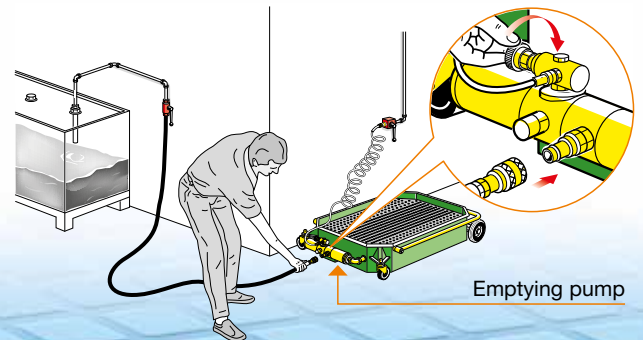
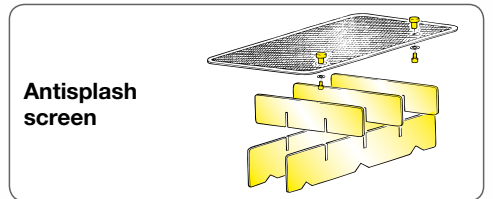
# Waste oil floor drainer

**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
<b>Tank capacity</b> litres	<b>50</b>	<b>50</b>	<b>95</b>	<b>95</b>	<b>150</b>	<b>150</b>
<b>Wheels</b>	4 castors	4 castors	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed
<b>Emptying</b>	by suction	by suction	by suction	pneumatic	by suction	pneumatic
<b>Equipped with</b>	quick-release connector	junction tube	quick-release connector	33070	quick-release connector	33/2011NHHV2
<b>Packing</b> N° - m <sup>3</sup>	1 - 0,140	1 - 0,140	1 - 0,200	1 - 0,200	1 - 0,330	1 - 0,330
<b>Weight</b> kg	20,5	21	37,5	40	53	61
<b>Dimensions (A - B - C) cm</b>	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
<b>Dimensions (D - E) cm</b>	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

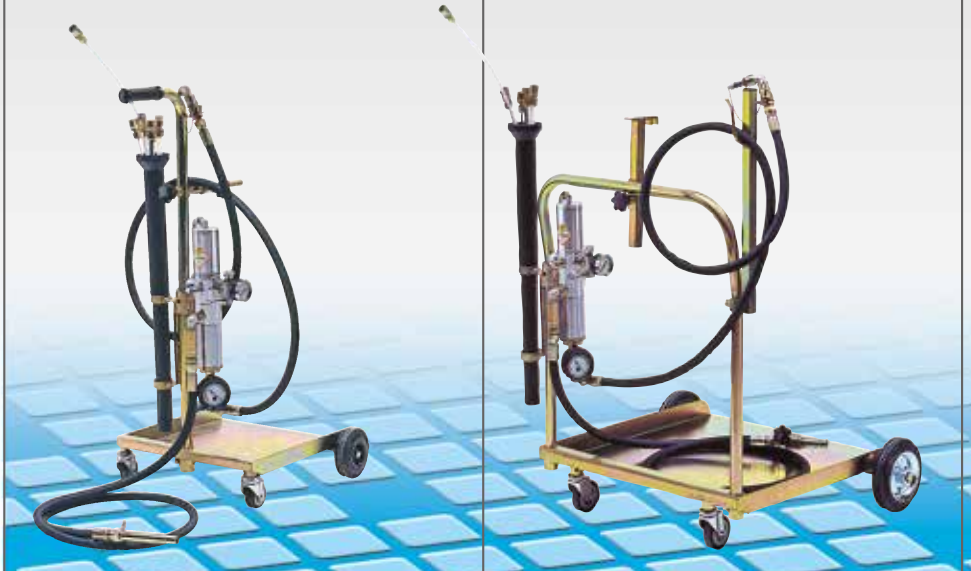
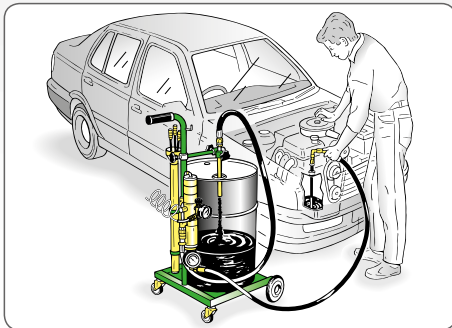
wheel-mounted

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.



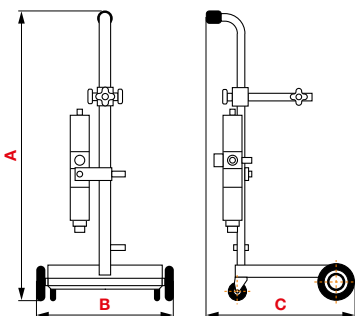
for drums **30 - 60 kg**

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 <sup>3</sup>	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

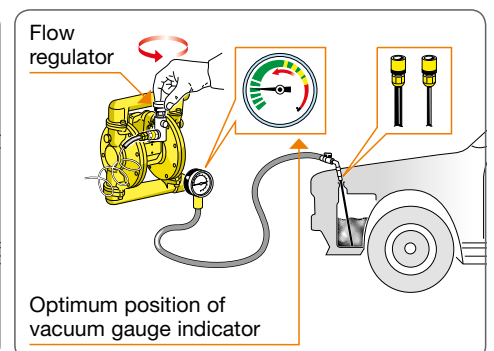
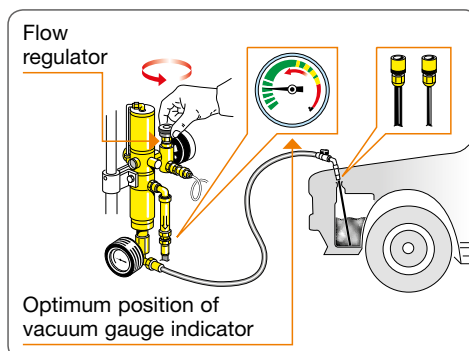
## Overall dimensions



## Details and advantages

**For correct draining, the pump must operate slowly.**

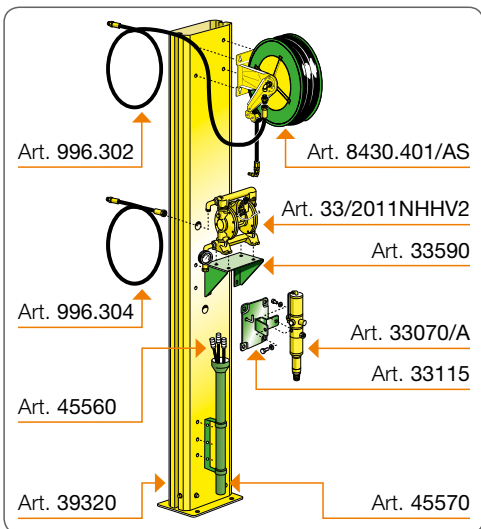
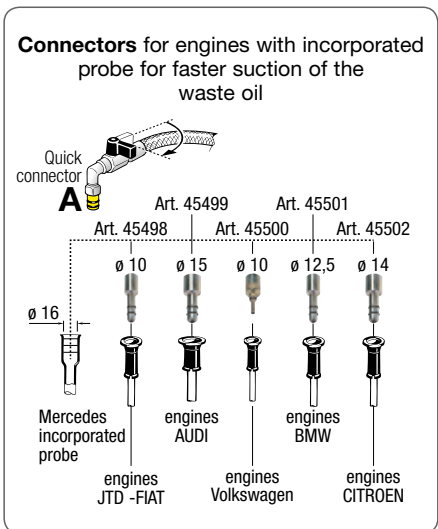
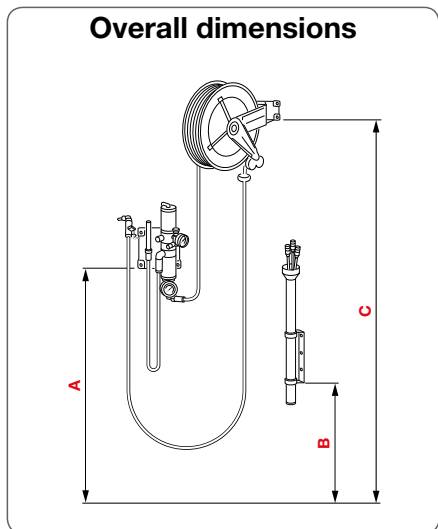
To adjust the working speed, operate the flow regulator, "metering" the inlet air feed. Make sure the vacuum gauge indicator is always in the optimum position



**wall-mounted**



wall-mounted - suction hose 4 m		wall-mounted - suction hose 10 m		column-mounted - suction hose 10 m	
<b>45100</b>	<b>45300</b>	<b>45110</b>	<b>45310</b>	<b>45111</b>	<b>45311</b>
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
-	-	8430.401/AS	8430.401/AS	8430.401/AS	8430.401/AS
45560	45560	45560	45560	45560	45560
45540 ø 12	45540 ø 12	45540 ø 12	45540 ø 12	45540 ø 12	45540 ø 12
1 - 0,056	2 - 0,070	2 - 0,116	3 - 0,130	3 - 0,250	4 - 0,260
12,2	14	29,1	31	75	77
130 - 60 - 220	130 - 60 - 220	130 - 60 - 220	130 - 60 - 220	245 - 29 - 59	245 - 29 - 59







# Suction drainer-dispensers for fuels



## 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

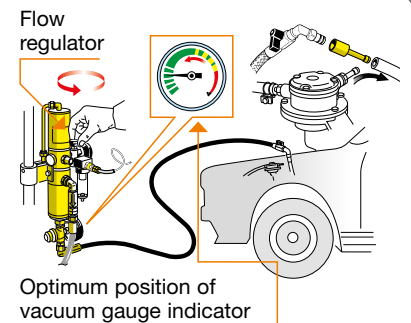
wheel mounted for drums 180 - 220 kg

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	-	30 - 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



Optimum position of vacuum gauge indicator

Art. 45290  
Connection for tube ø 6



Art. 45291  
Connection for tube ø 8

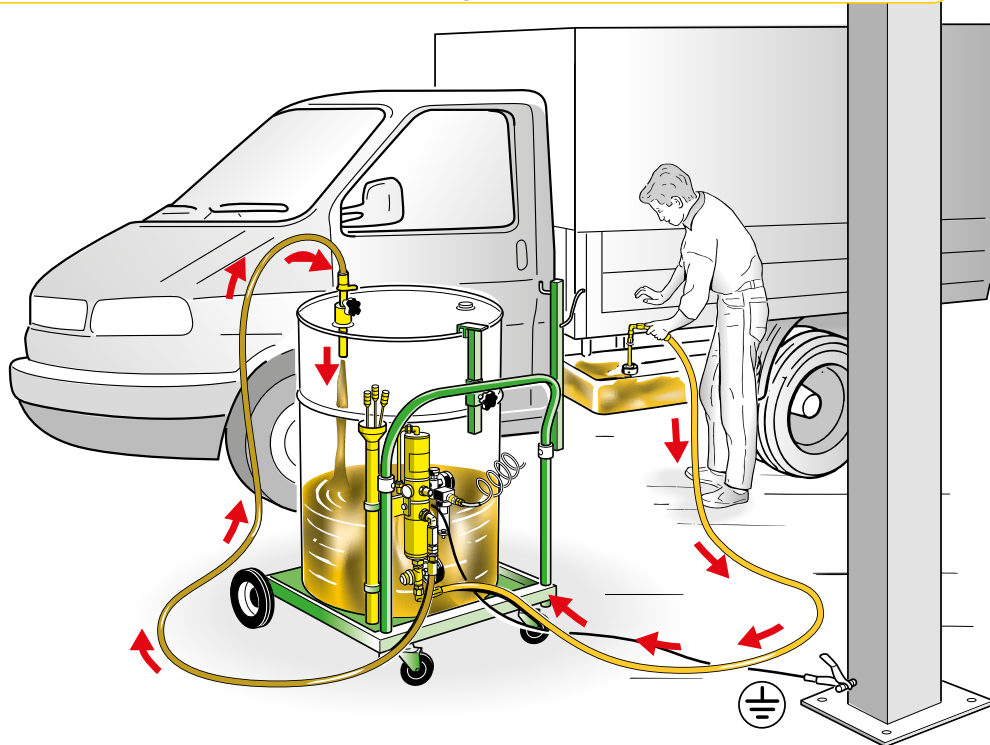


Art. 45292  
Connection for tube ø 10



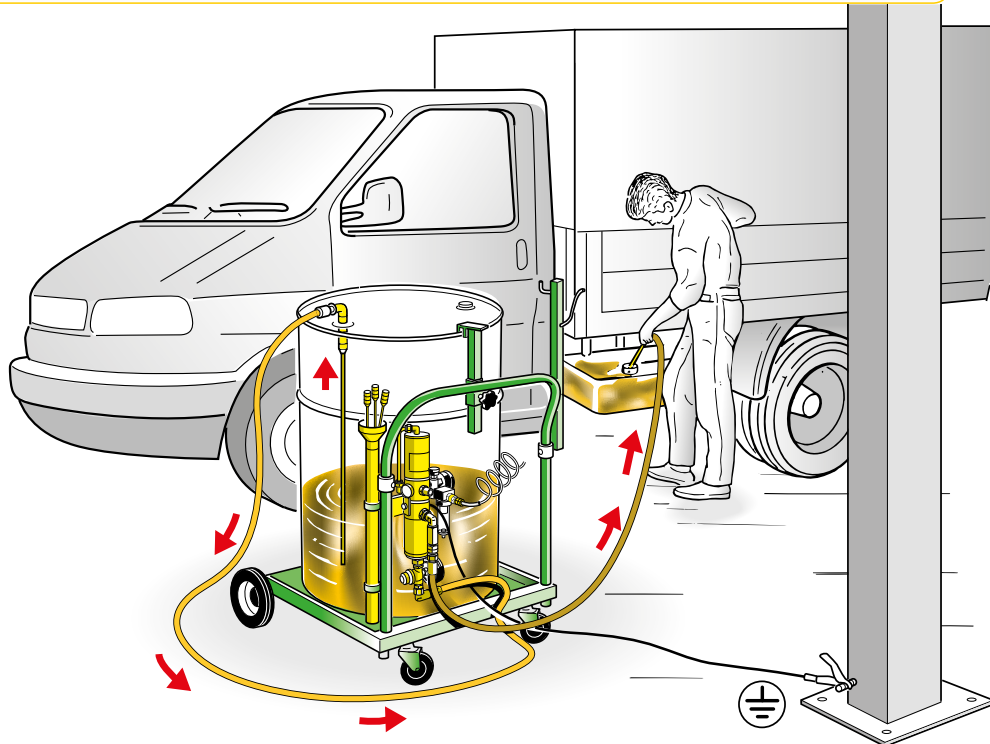
# Dual use

## 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



**AIR-OPERATED 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

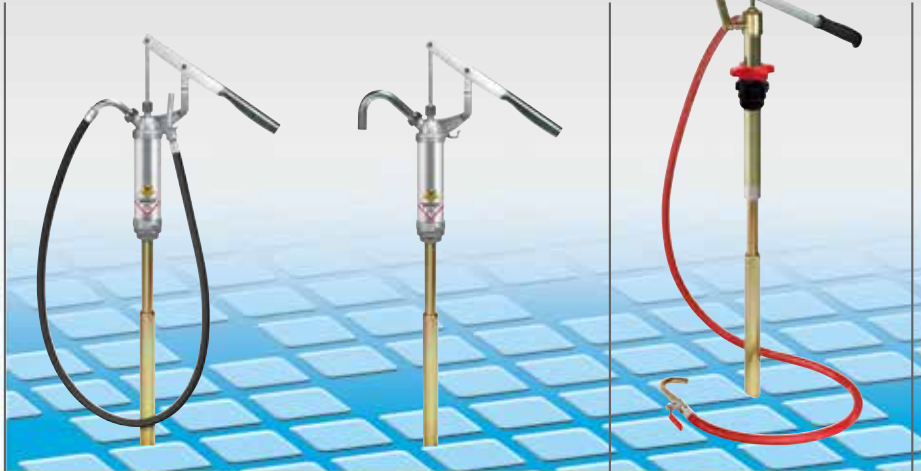


# Manual pumps oil and similar

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	<b>Viton®</b>	<b>31200</b>	<b>31201</b>	
Article with seals in	<b>NBR</b>			<b>30200</b>
Tank capacity	litres	-	-	-
Suitable for drums	kg	<b>50 - 220</b>	<b>50 - 220</b>	<b>50 - 220</b>
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° - m³	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

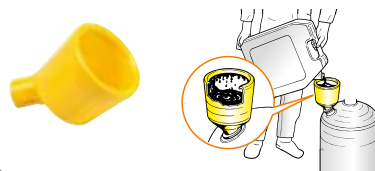
Caution: do not use with flammable or corrosive liquids



### Art. 24891

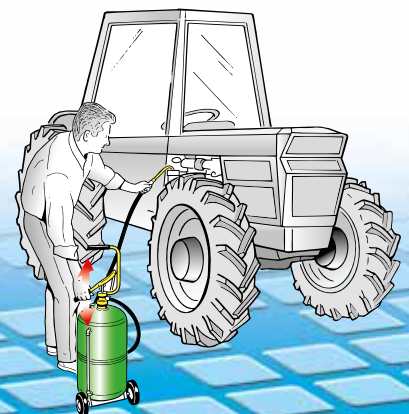
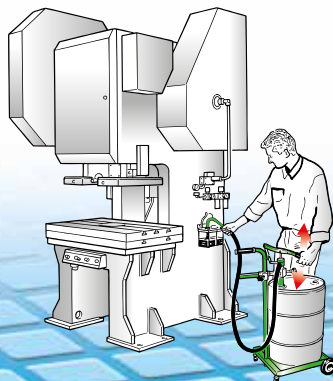
#### Antisplash funnel

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



### Art. 32713

**Digital litre-counter** complete with connection unions  
- not type-approved for public use



**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

1 - 0,185

13,6

10,6

13,7

24

46 - 50 - 123

25,5 - 22,5 - 86

28 - 33 - 89

60 - 42 - 88

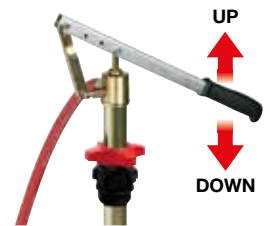
**Single-action** (Pic. 1) occurs when the pumping piston delivers the fluid only in the pumping lever downstroke

**Pic. 1**

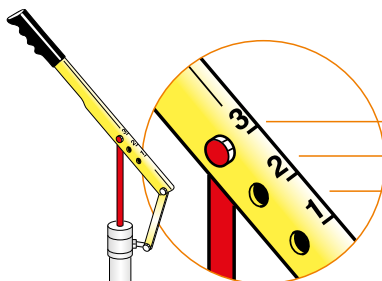


**Double-action** (Pic. 2) occurs when the pumping piston delivers the fluid in its upstroke and downstroke. Double-action delivers the fluid with a continuous and constant flow

**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

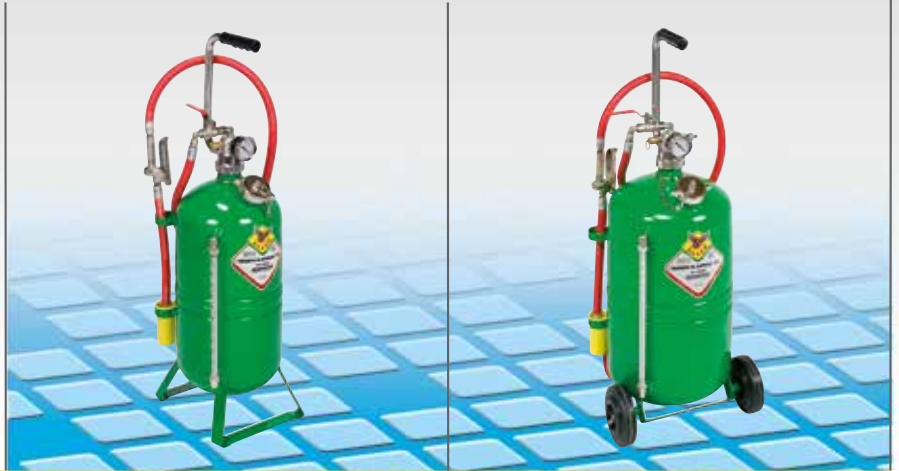
portable



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.



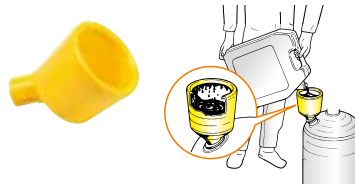
Article		33016	33024
<b>Tank capacity</b>	litres	<b>16</b>	<b>24</b>
<b>Working pressure</b>	bar	6 - 8	6 - 8
<b>Safety valve</b>	bar	10	8
<b>Delivery hose length</b>	m	2	2
<b>Gun hose length</b>	m	0,27	0,27
<b>Max oil density delivered</b>	SAE	130	130
<b>Antisplash funnel</b>	Art.	24891	24891
<b>Packing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

Caution: do not use with flammable or corrosive liquids

### Art. 24891

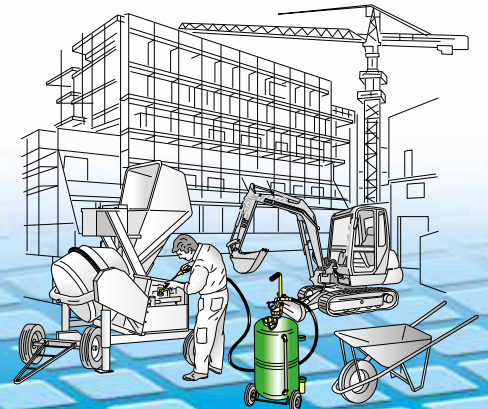
#### Antisplash funnel.

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



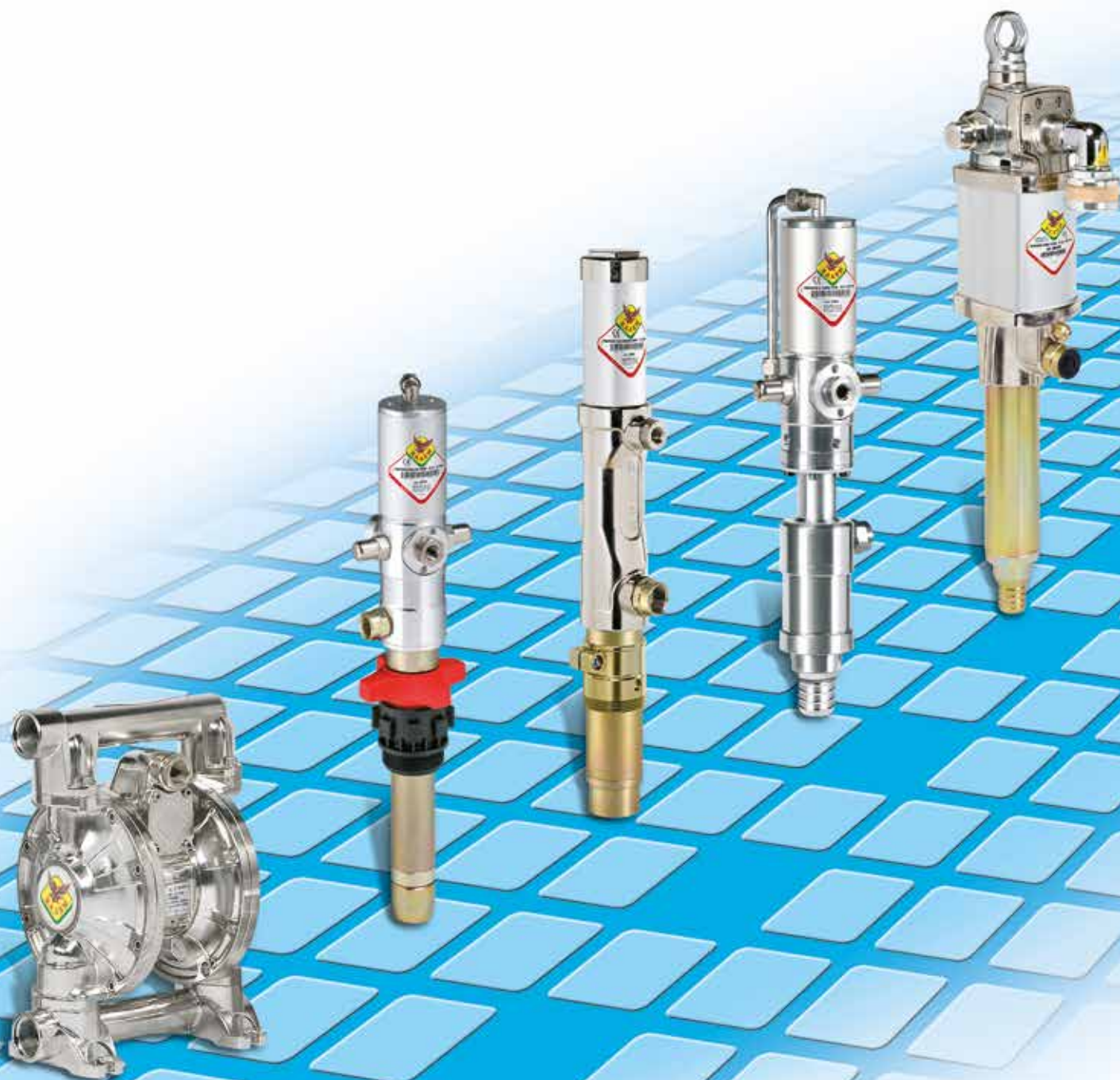
### Art. 32713

**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  
- not type-approved for public use





# FLUIDS AND LUBRICATION EQUIPMENT





# Oil pumps for transfer and distribution



EXAMPLE OF SYSTEM AND FCS

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

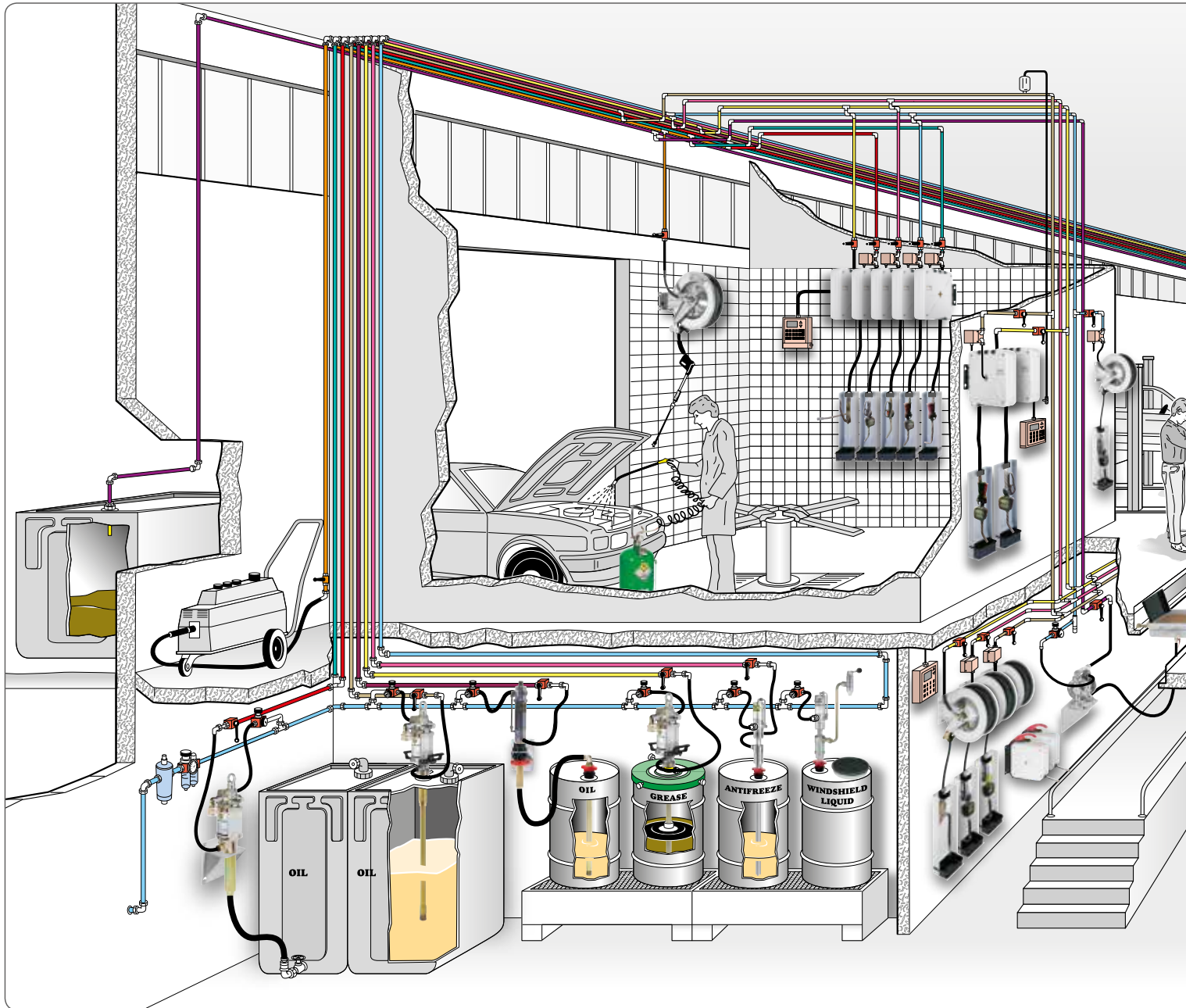
All distribution lines, for oil, grease and similar products, must be prepared with tubing (in steel, rubber ...) for high pressures, and must be smooth and seamless, with connections possibly having an inside diameter greater than the tube itself so as not to create any constrictions.

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)

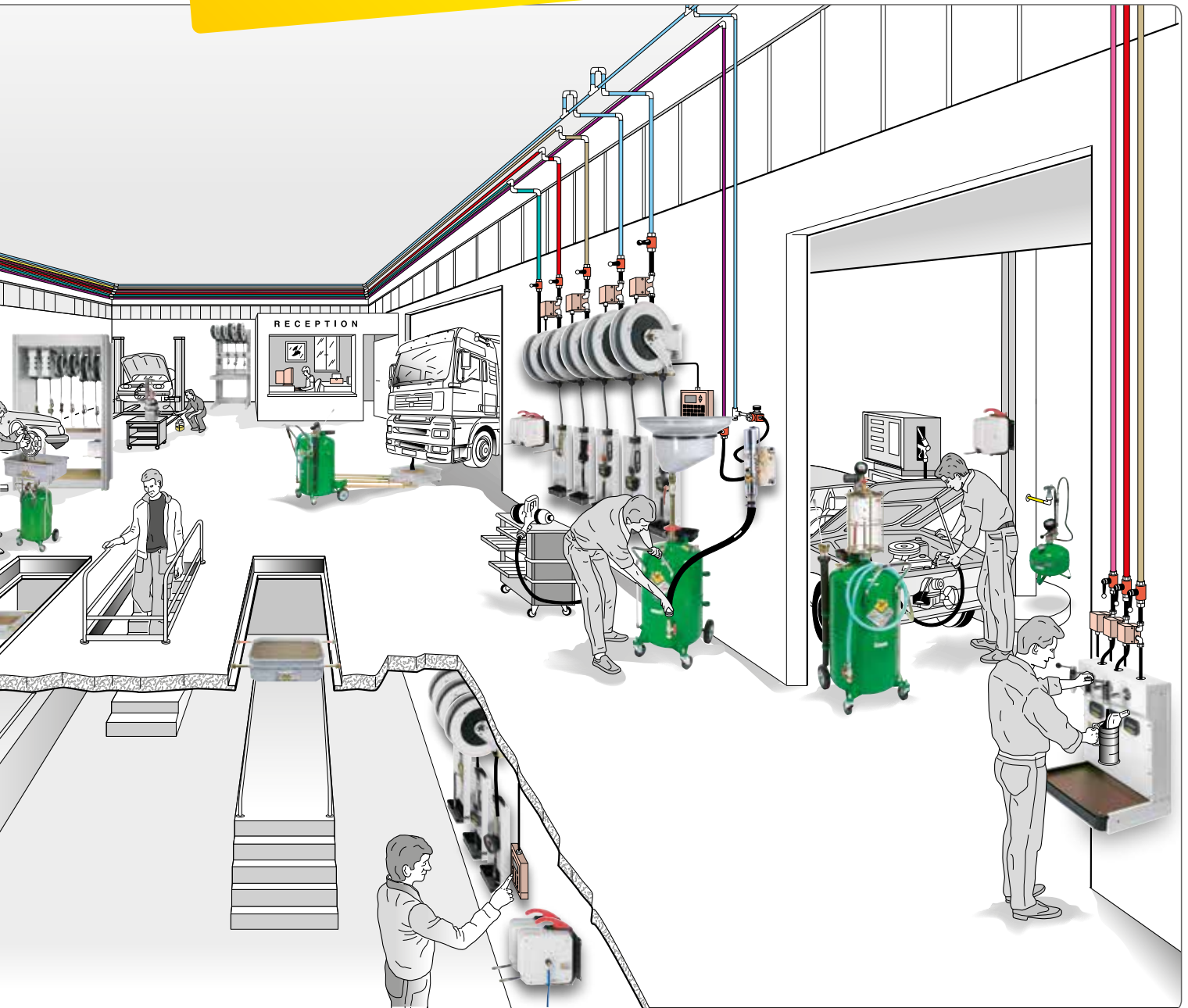
#### GEAR OIL MAIN LINE

Tube characteristics:

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

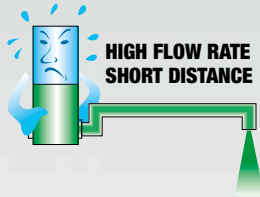
Tube characteristics:  
0 - 30 m minimum inside diameter 1" (ø 25 mm)  
31 - 300 m minimum inside diameter 1.1/2" (ø 38 mm)

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



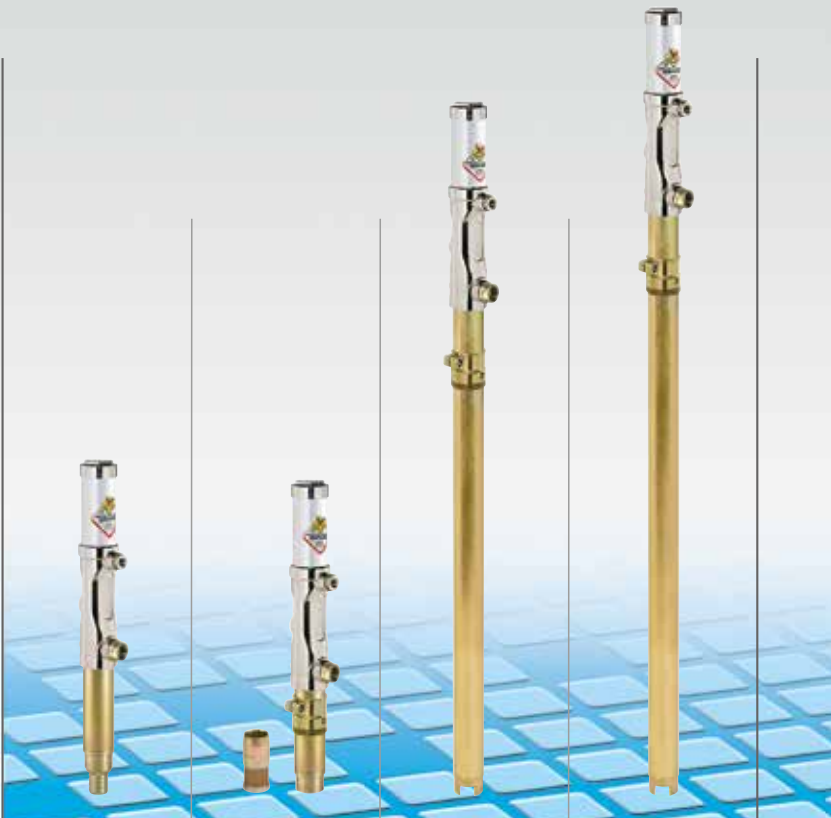
# Air-operated pumps for TRANSFER

Ratio 1:1 Flow rate 35 l/min

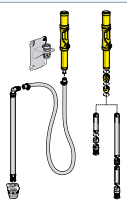
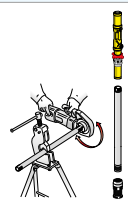
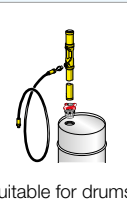
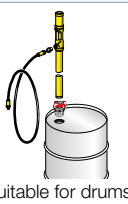


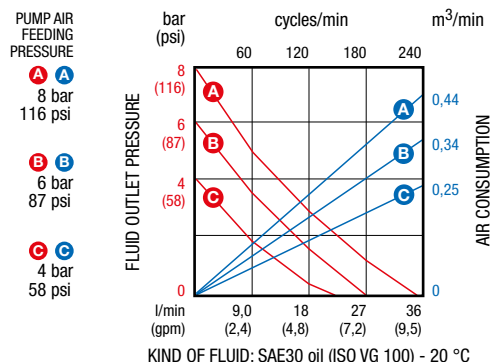
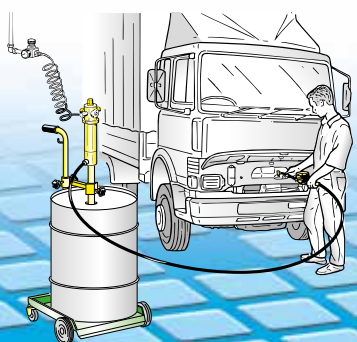
## Air-operated pumps for short and medium-distance transfer.

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).



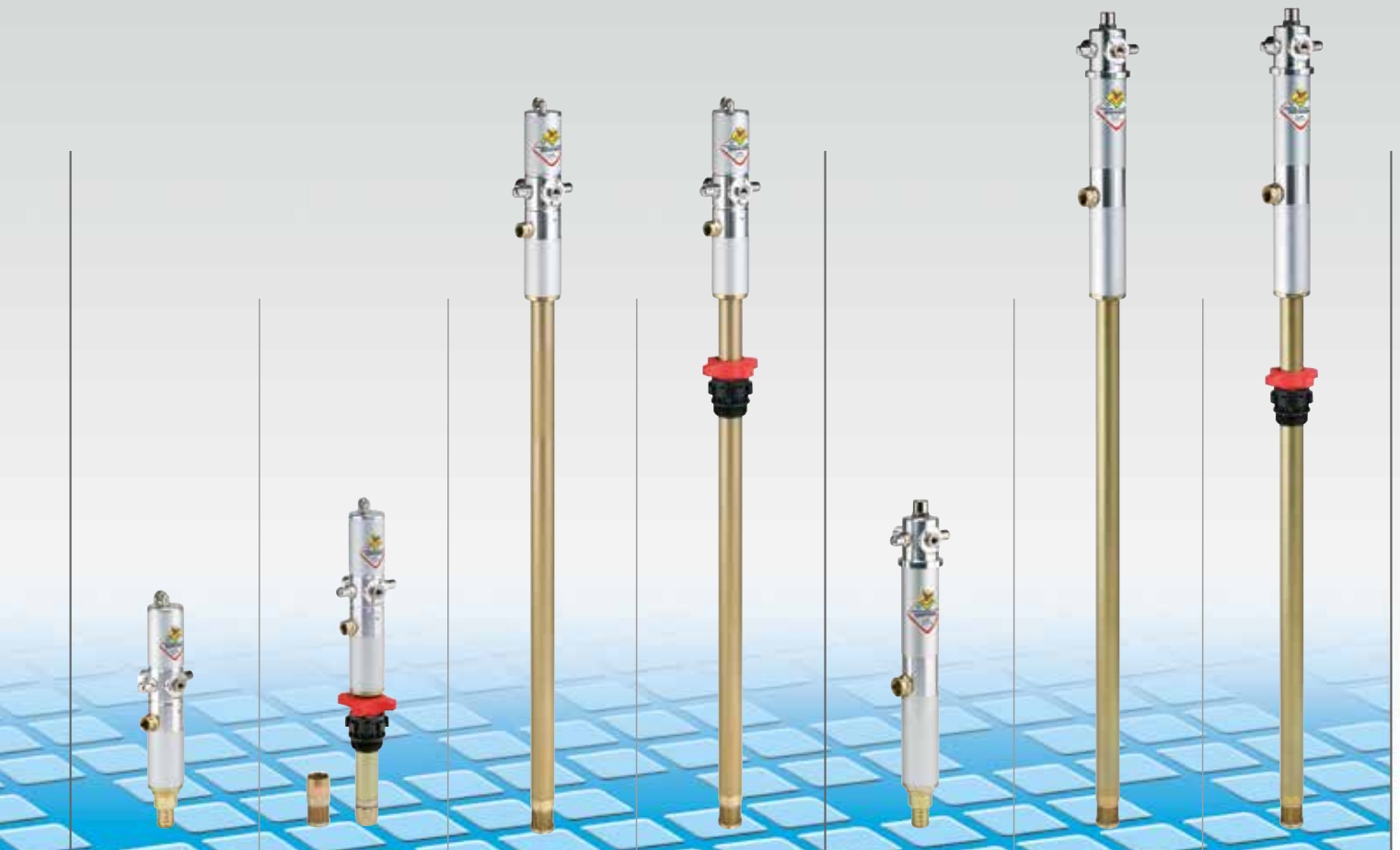
series 500

Article with seals in	<b>NBR</b>				
Article with seals in	<b>Viton®</b>	<b>26090</b>	<b>26091</b>	<b>26093</b>	<b>26094</b>
Article with seals in	<b>Teflon®</b>				
Compatible fluids		Oils, lubricants and similar			
Suction tube upper body		Aluminum			
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 <sup>3</sup>	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  
33070  
33060

33081  
33071  
33061

33082  
33072  
33094

33083  
33073  
33096

33170  
33160

33172  
33194

33173  
33196

Oils, lubricants and similar  
Aluminum  
Carbon steel

Oils, lubricants and similar  
Aluminum  
Carbon steel

F 1/4" G  
F 1/2" G  
6 - 8  
230  
81  
80  
-

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

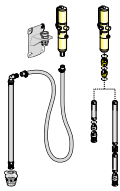
F 1/4" G  
F 1/2" G  
6 - 8  
230  
81  
80  
-

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

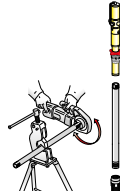
F 1/4" G  
F 3/4" G  
6 - 8  
370  
81  
130  
-

F 1/4" G  
F 3/4" G  
6 - 8  
370  
81  
130  
-

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



modular



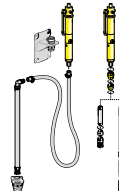
customisable 1"



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

35,5 - 0 - 0

35,5 - 22 - 4,2

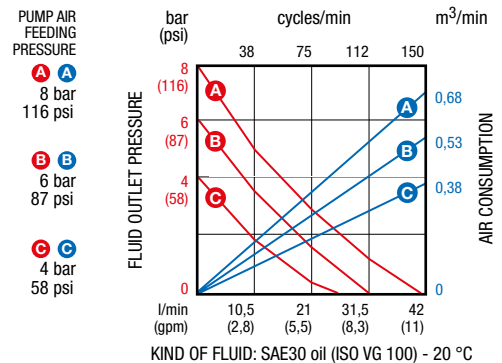
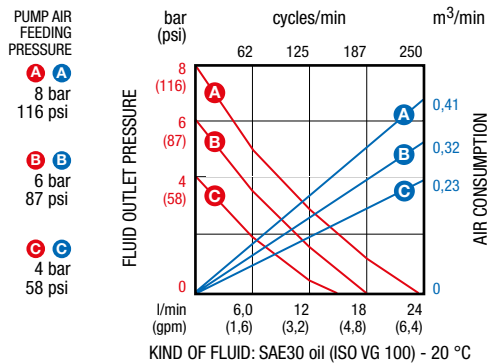
35,5 - 94 - 4,2

35,5 - 94 - 4,2

50,5 - 0 - 0

50,5 - 94 - 4,2

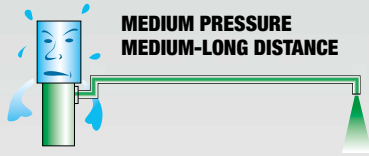
50,5 - 94 - 4,2





# Air-operated pumps for DISTRIBUTION

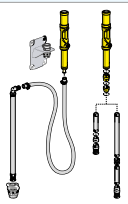
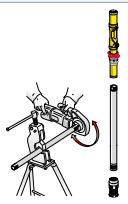
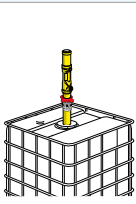
Ratio 3:1 Flow rate 20 l/min

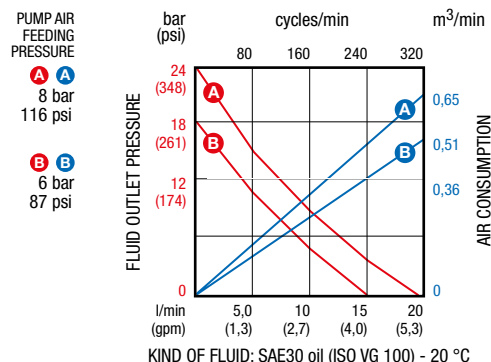


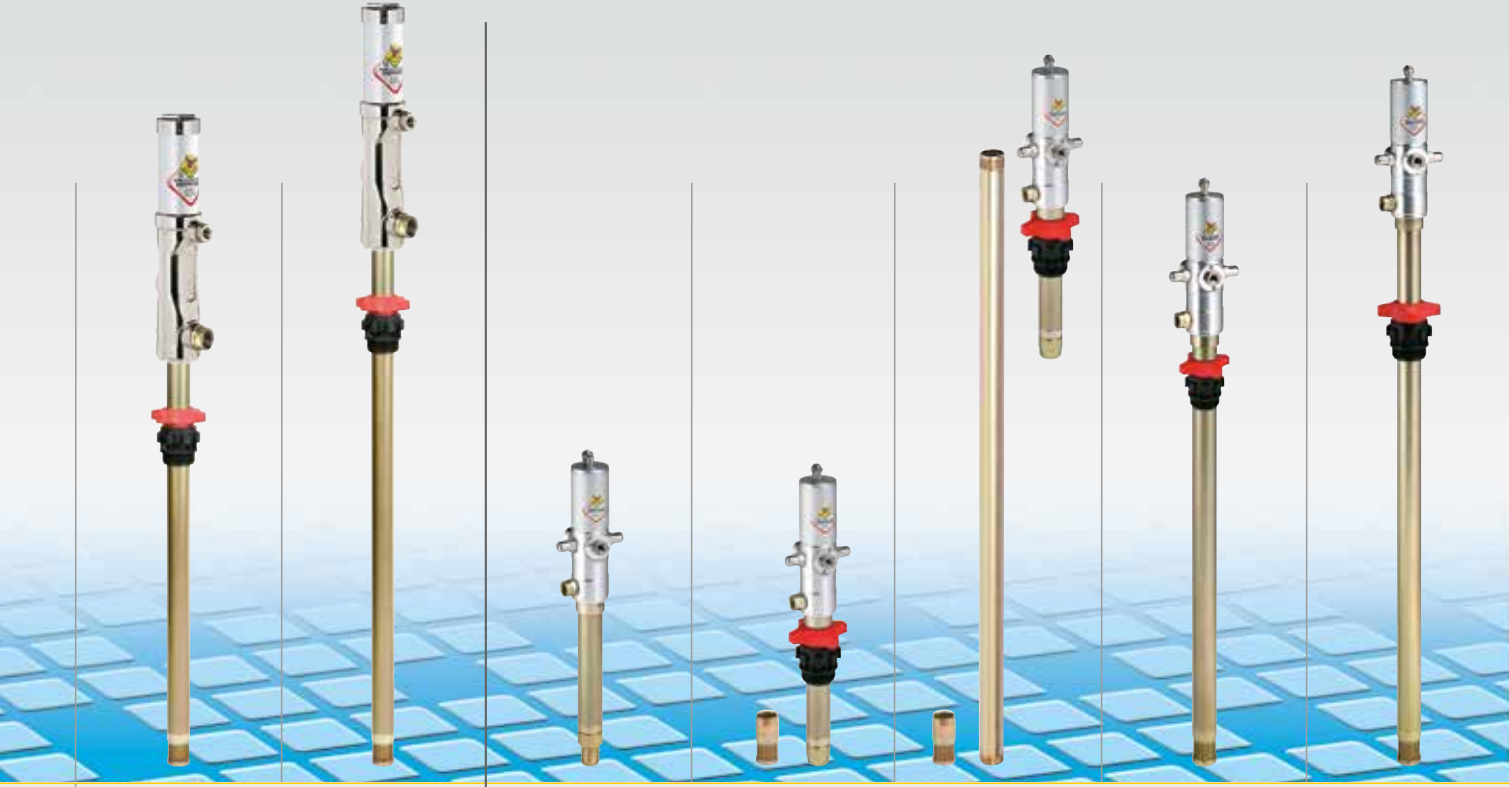
**Air-operated pumps series 500 and 600 for medium distance distribution.** Ideal for transferring low-medium viscosity fluids such as: oils, lubricants and similar products. Suitable for mobile unit or fixed installation. The wall-mounted version of these pumps, mounted on wall or in a fixed position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



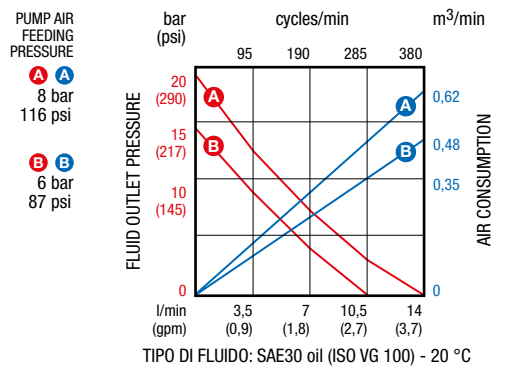
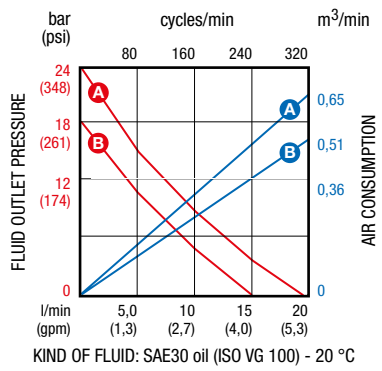
series 500

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		Aluminum		
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	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	130	130	130
Bung adaptor		-	standard	standard
Suitable for drums or tank		 modular	 customisable 1"	 tank
Packing	N° - m <sup>3</sup>	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





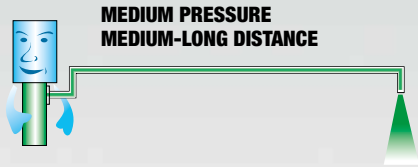
series 500		series 600				
		35160	35161	35163	35173	35194
					35176	35196
<b>35076</b>	<b>35094</b>					
Oils, lubricants and similar Aluminum Carbon steel		Oils, lubricants and similar Aluminum Carbon steel				
F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G	F 1/2" G
6 - 8	6 - 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**



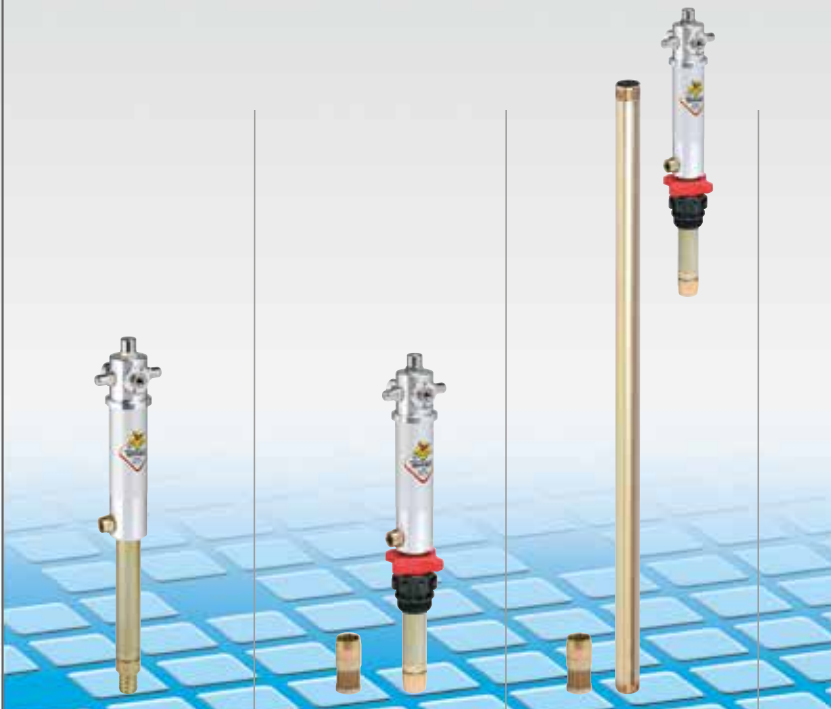
**Series 650 air-operated double-acting pumps for medium distance oil distribution.** Ideal for also distributing high viscosity oil. The double action guarantees the delivery of a continuous and constant flow, ideal for all installations, excellent for centralised distribution systems. The wall-mounted 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		Medium/high-viscosity oil		
Suction tube upper body		Aluminum		
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	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

Packing	N° - m <sup>3</sup>	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 - 125 - 4,2

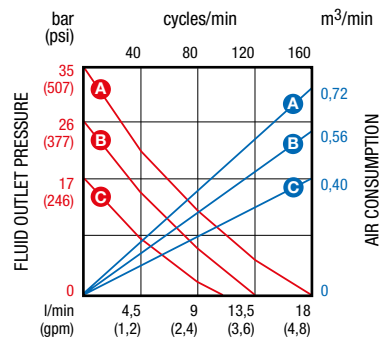


series 650

Article with seals in	NBR	36060	36061	36063
Compatible fluids		Medium/high-viscosity oil		
Suction tube upper body		Aluminum		
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	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 <sup>3</sup>	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 - 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



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



# 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

Aluminum

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

1 - 0,02

6,2

34,5 - 74 - 4,2

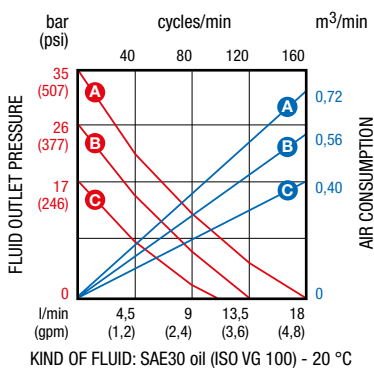
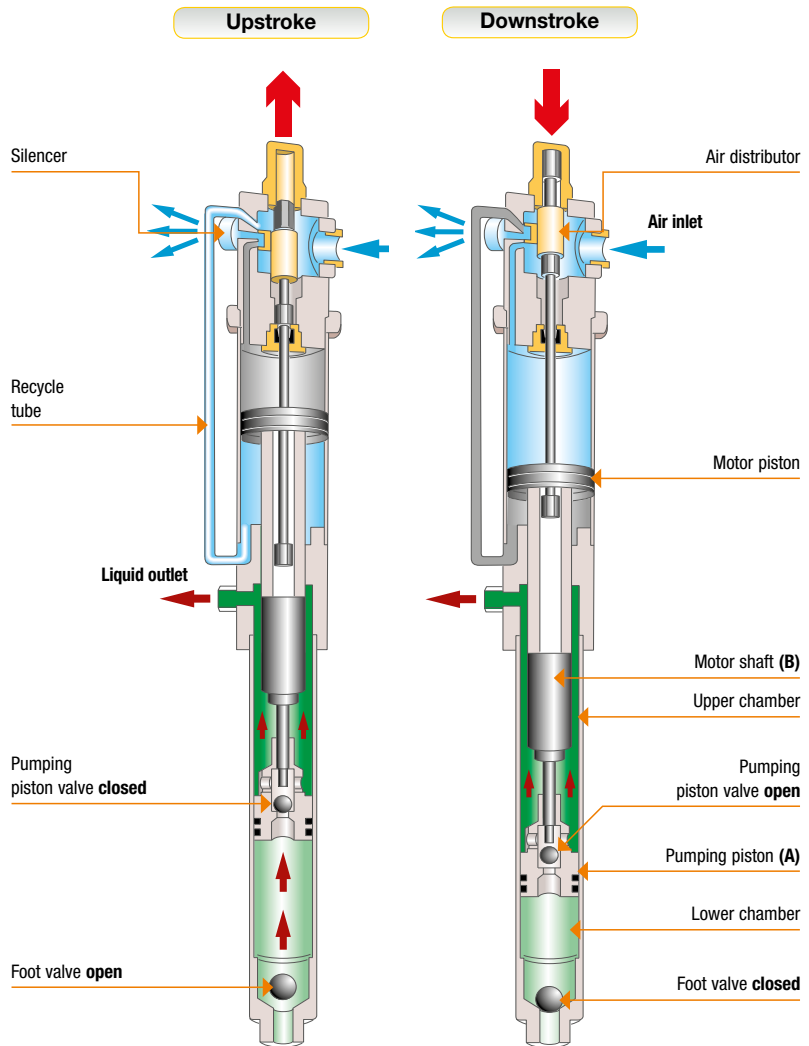


suitable for drums  
180-220 kg

1 - 0,02

6,8

34,5 - 94 - 4,2

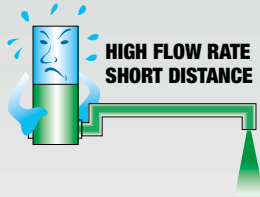


In addition to guaranteeing regular delivery of the fluid, this solution offers the further advantage of having fewer parts inside the pump. This means less wear plus greater and longer reliability.

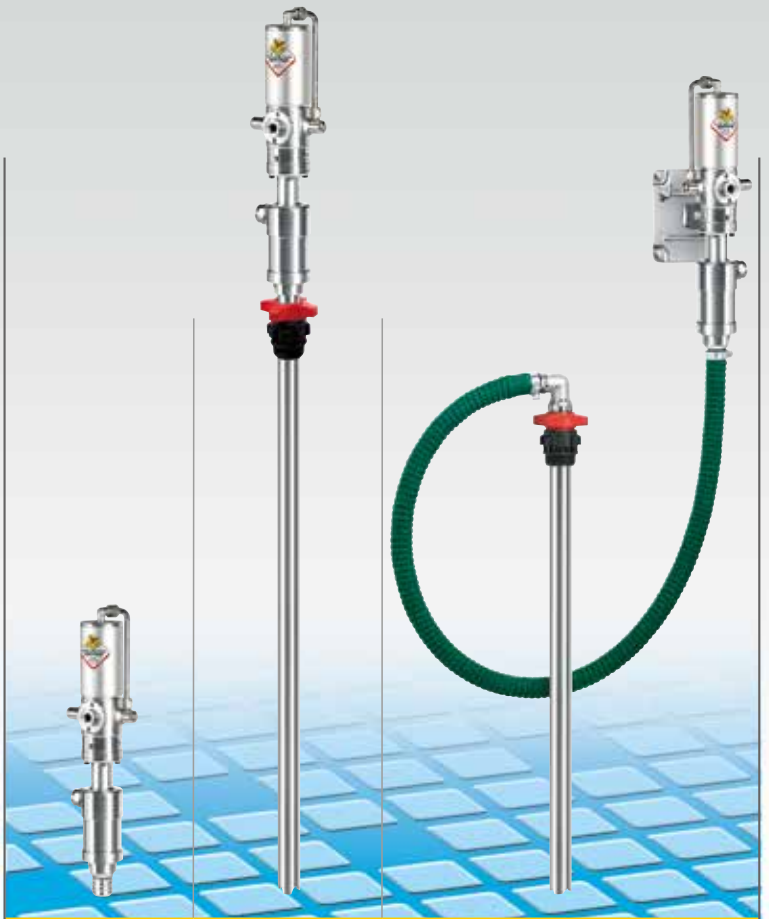
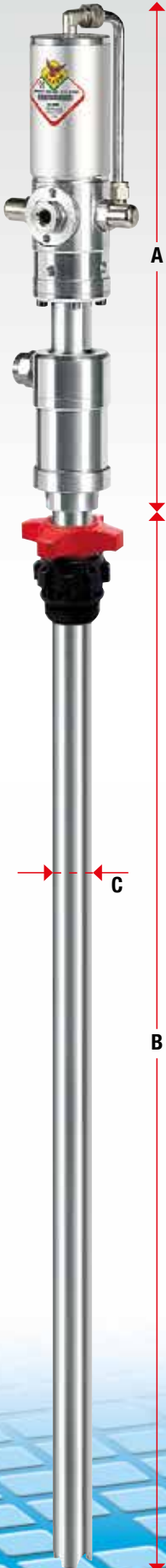


# Stainless steel AISI 304 pumps for TRANSFER

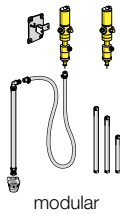

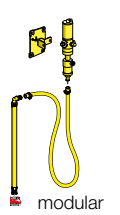
Ratio 1:1 Flow rate 30 l/min



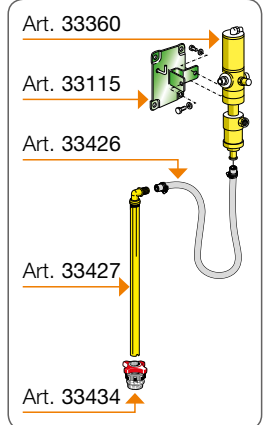
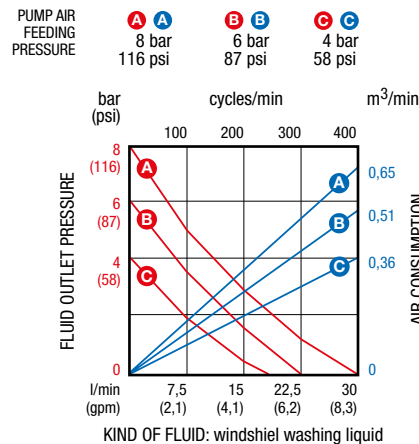
**Stainless steel AISI 304 air-operated pumps for short-medium distance transfer.** Ideal for transferring low-medium viscosity fluids such as: antifreeze liquid, windshield washing liquid and chemical products.



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 <sup>3</sup>	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. 33445**  
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

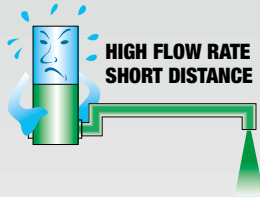




# DIAPHRAGM Pumps

## S. 340-AB

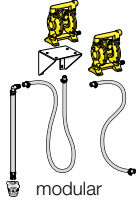

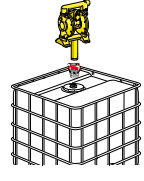



in aluminum

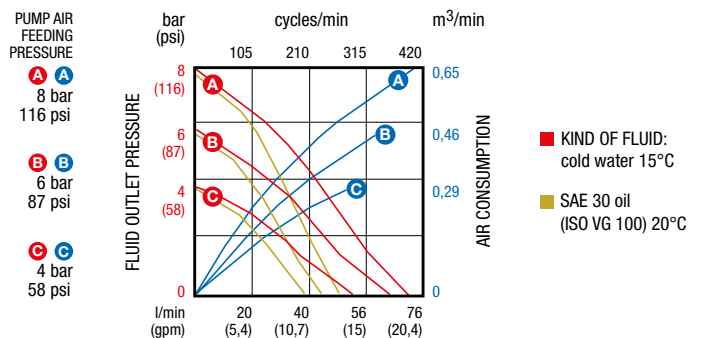
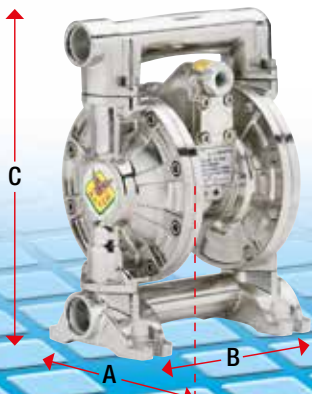


The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminum, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids.



series 340-AB

Article with membrane in <b>NBR High Nitrile</b>	33/2011NHHV2	33500	33505
Compatible fluids	Water, mineral-vegetable oils, diesel oil		
Pump material	Aluminum		
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 F 3/4" 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 <sup>3</sup> 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

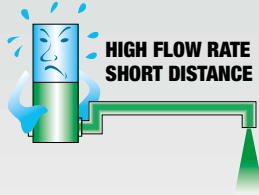




# DIAPHRAGM Pumps

## S. 1000-AB - 1140-AB

in aluminum



The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminum, 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**









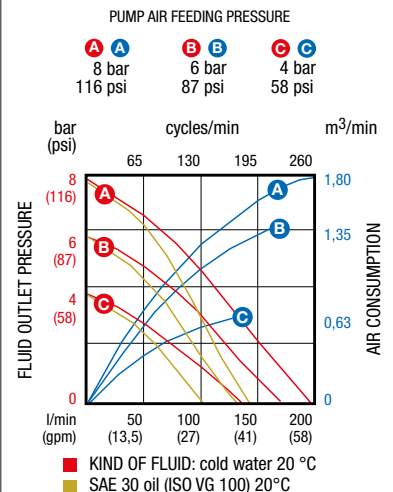
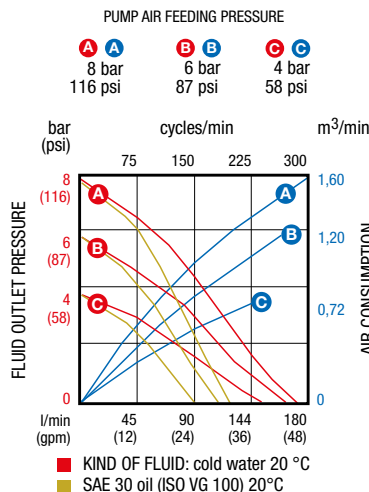
series **1000-AB**  
**33/2611NHHV2**



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	Aluminum	Aluminum
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 <sup>3</sup> 1 - 0,025	 N° - m <sup>3</sup> 1 - 0,041
Weight	 kg 14	 kg 16
Dimensions (A - B - C)	cm 20 - 26 - 34,5	cm 23,8 - 28,6 - 38,6

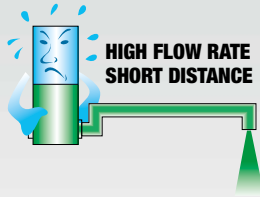




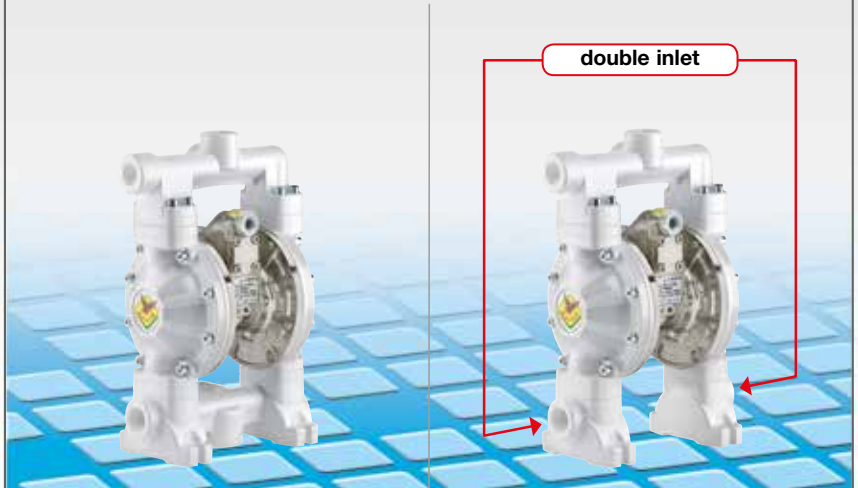
# DIAPHRAGM Pumps S. 120-PB

in polypropylene

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



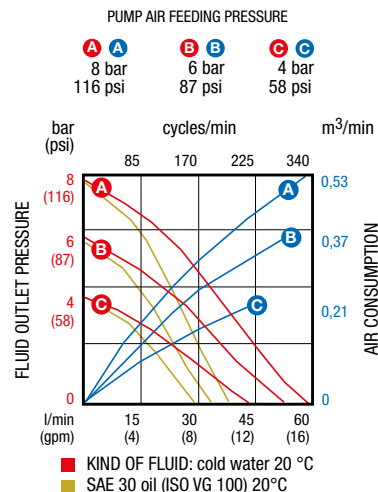
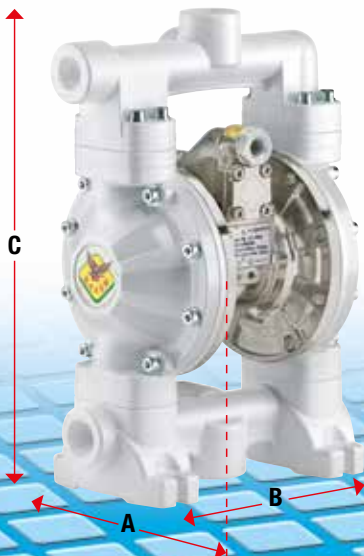
Diaphragm pumps are used in different kind of application. They can be installed on wall brackets, on trailers, on moving machines, on drums, on big reservoirs and in many other places. Ideal for transferring fluids even in the presence of suspended solids. Double inlet version is suitable to mix together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



series 120-PB

series 120-PB

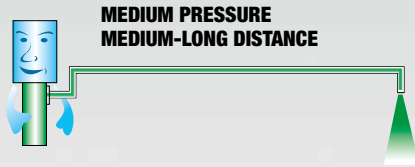
Article with membrane	NBR High Nitrile	2B3/16117NH52		2B8/16117NH52	
Article with membrane	PTFE		2B3/16117TT52		2B8/16117TT52
Compatible fluids		Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze	Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze
Motor and inside flanges material		Aluminum	Aluminum	Aluminum	Aluminum
Wetted parts		Polypropylene	Polypropylene	Polypropylene	Polypropylene
Ball valve material		Hytrel®	Teflon®	Hytrel®	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 <sup>3</sup>	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.

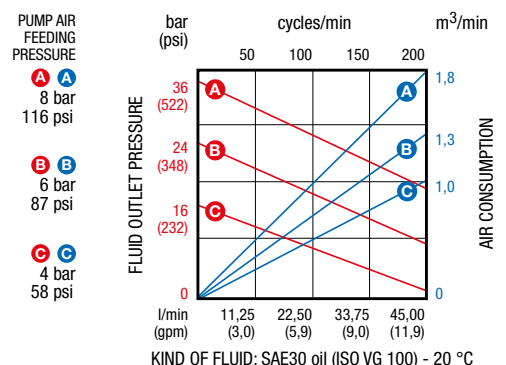


series **900**

Article with seals in	<b>PU</b>
Compatible fluids	Oils, lubricants and similar
Suction tube upper body	Aluminum
Suction tube	Carbon steel
Air inlet connection	bsp F 1/2"
Fluid outlet connection	bsp F 3/4"
Air max pressure	bar 8
Max air consumption 8 bar	m <sup>3</sup> /min 1,6
Noise level	dB 80
Suitable for drums or tanks	
Packing	N° - m <sup>3</sup> 1 - 0,040
Weight	kg 12
Dimensions (A - B - C)	cm 43 - 23 - 6,2

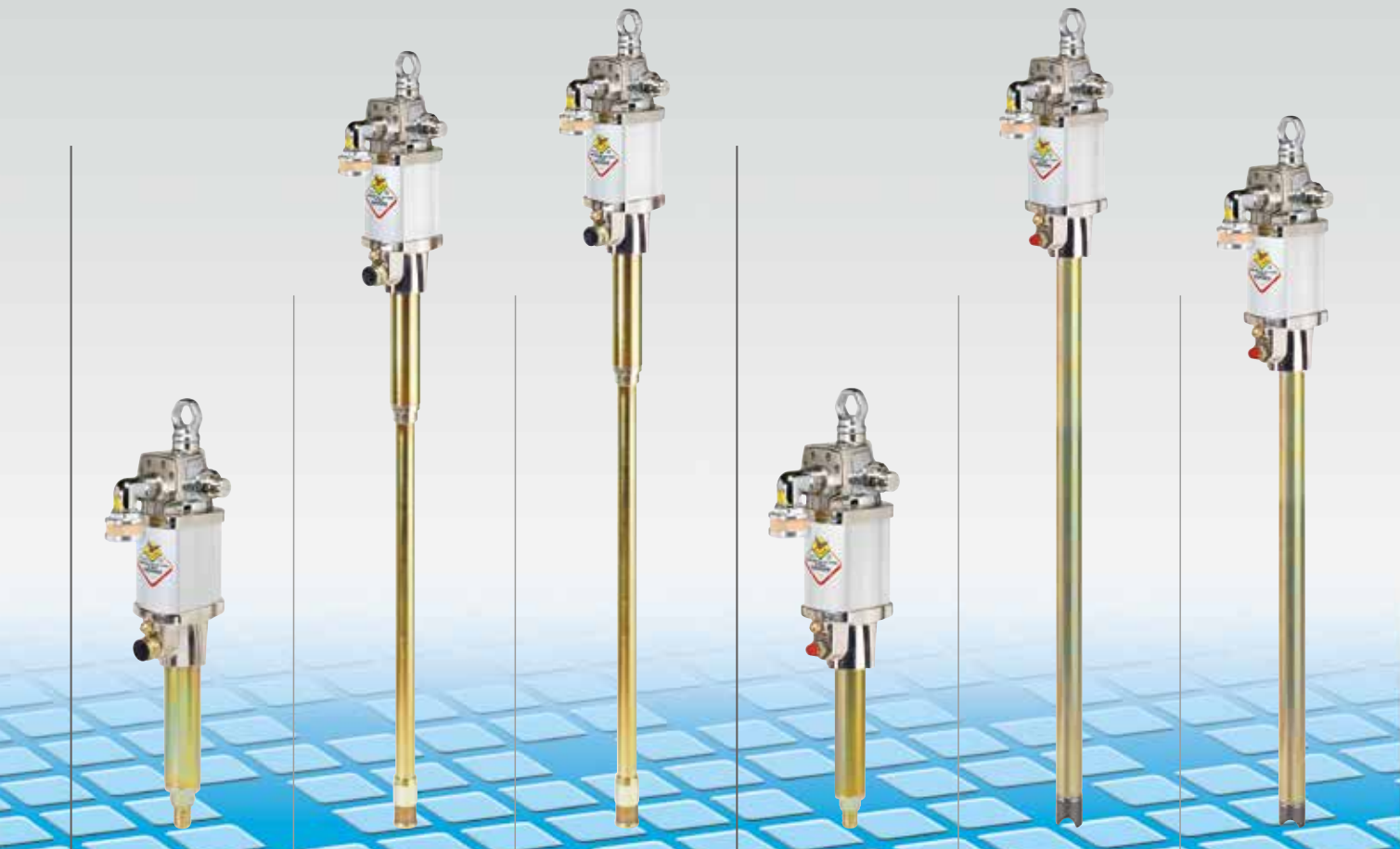


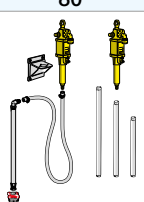
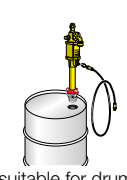
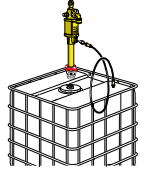
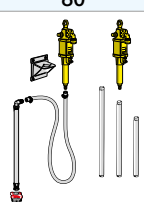
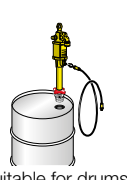
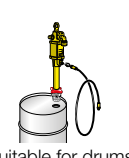
modular

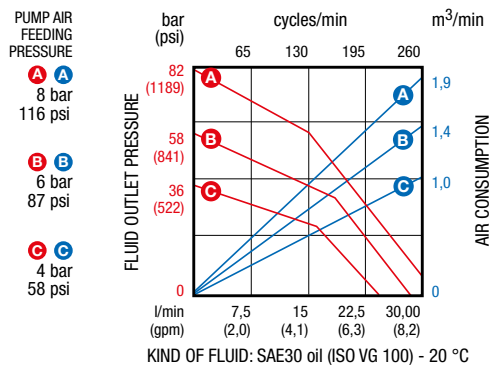
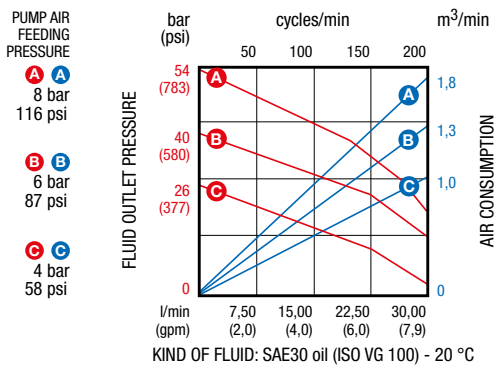


**Ratio 7:1 Flow rate 30 l/min**

**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		
Aluminum			Aluminum		
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"
8	8	8	8	8	8
1,6	1,6	1,6	1,7	1,7	1,7
80	80	80	80	80	80
					
modular	suitable for drums 180-220 kg	tank	modular	suitable for drums 180-220 kg	suitable for drums 50-60 kg
1 - 0,040	1 - 0,070	1 - 0,080	1 - 0,040	1 - 0,070	1 - 0,070
11	13	15	11	16	15
43 - 27 - 5,3	43 - 94 - 5,3	43 - 126 - 5,3	43 - 27 - 4,5	43 - 94 - 4,5	43 - 74 - 4,5





# Mobile oil DISPENSER unit

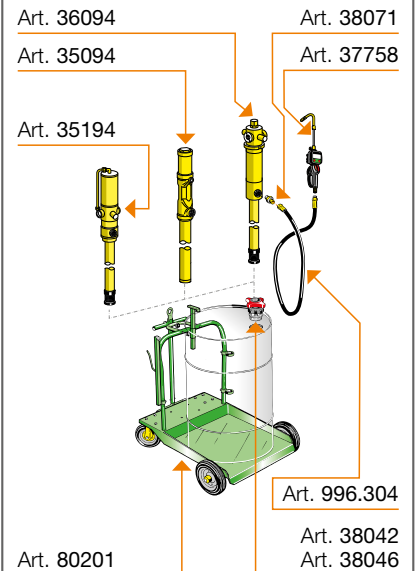
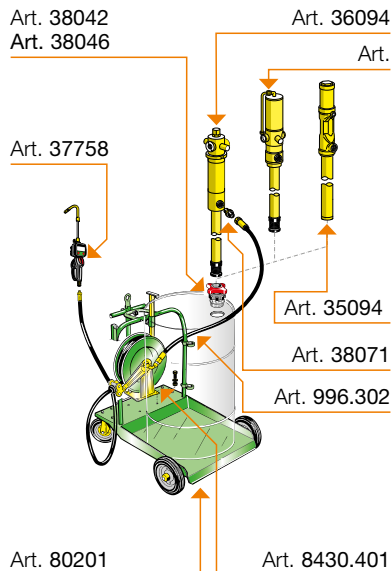
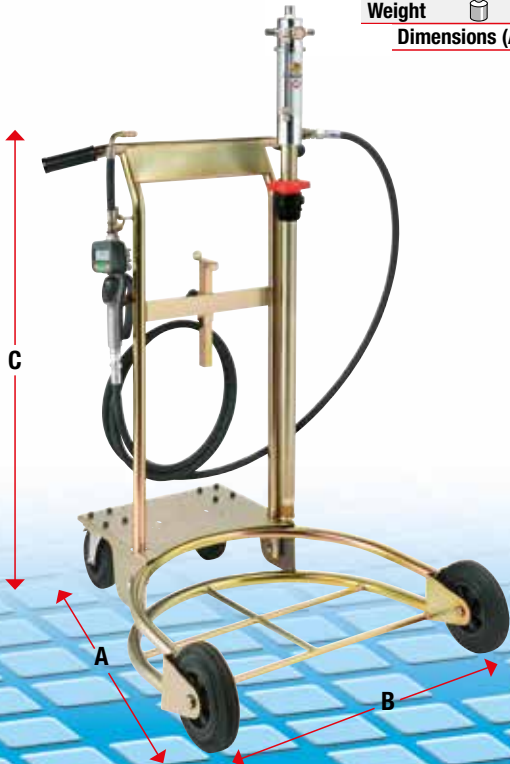
**trolley super**  
for drums 180-220 kg

### 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



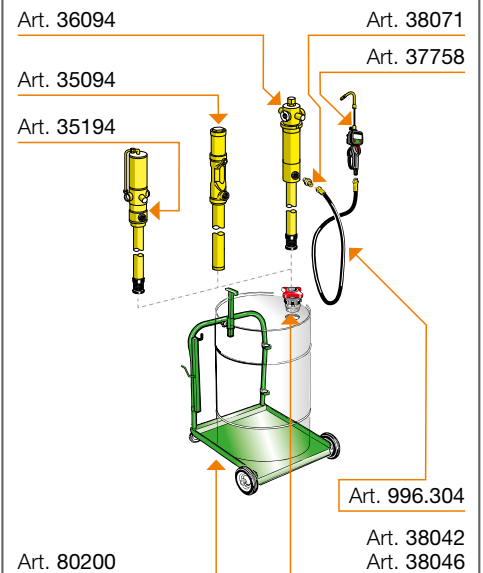
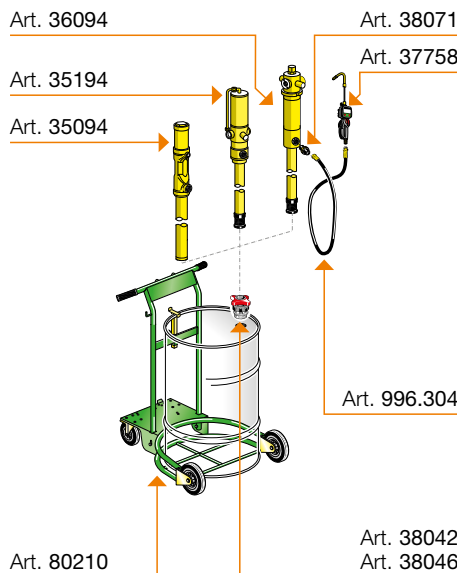
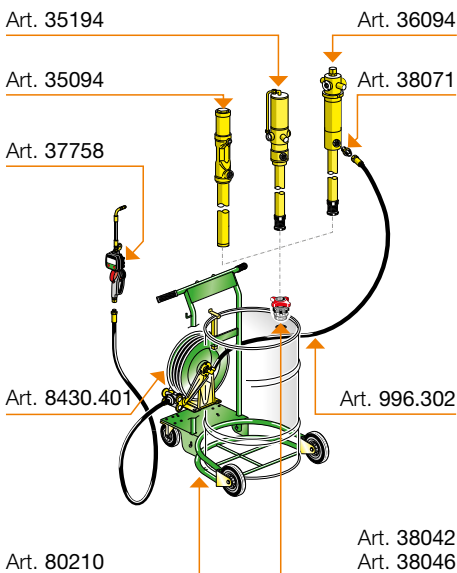


**trolley standard**  
for drums 180-220 kg

**trolley light**  
for drums 180-220 kg



35198	35199	37099	35415	35425	37095	35219	35220	37200
<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>
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

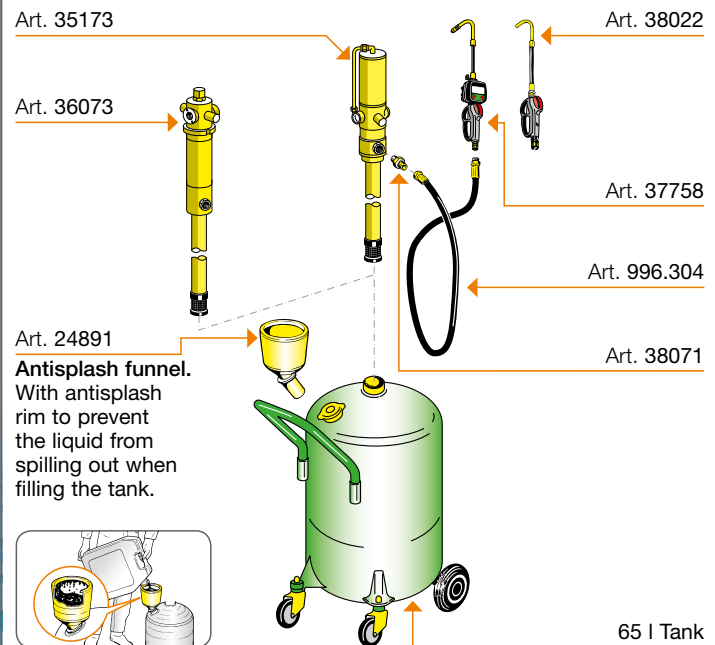
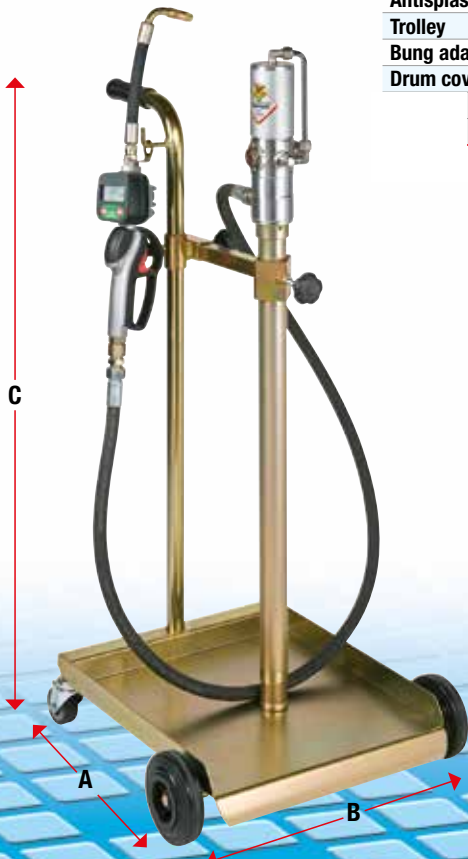
with 65 l tank

## 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		<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>5:1</b>
Flow rate	l/min	<b>14</b>	<b>18</b>	<b>14</b>	<b>18</b>
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 <sup>3</sup>	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

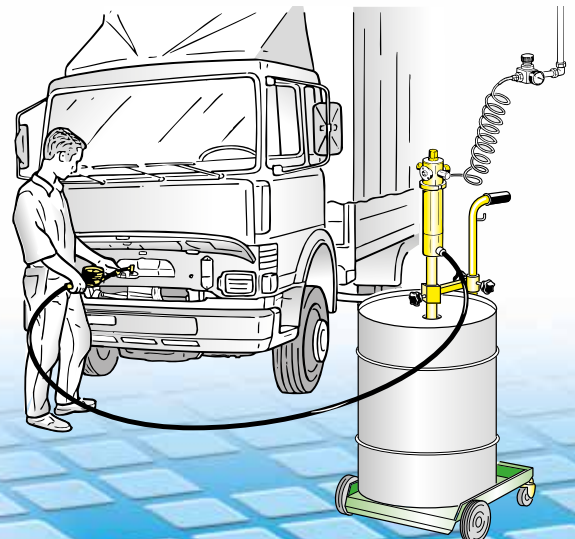
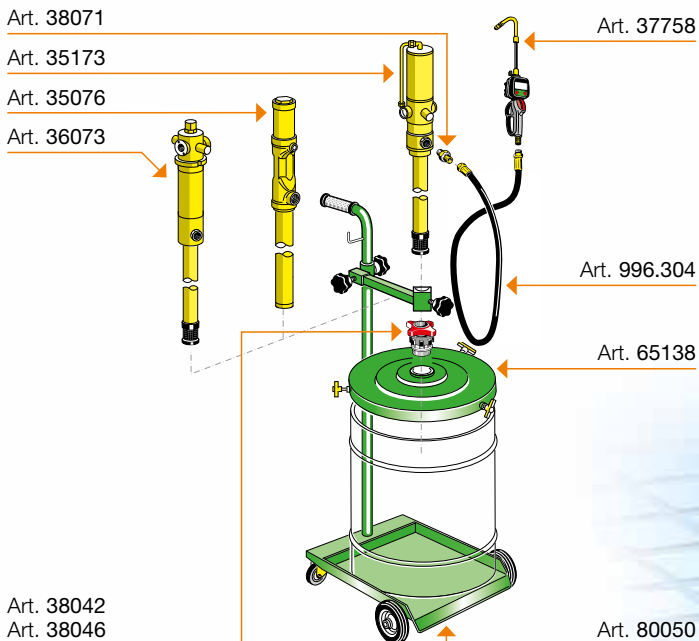


trolley for drums 30 - 60 kg

kit for drums 30 - 60 kg



35260	35250	37500	35249	35259	37499	35264	35254	37504
<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>
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.

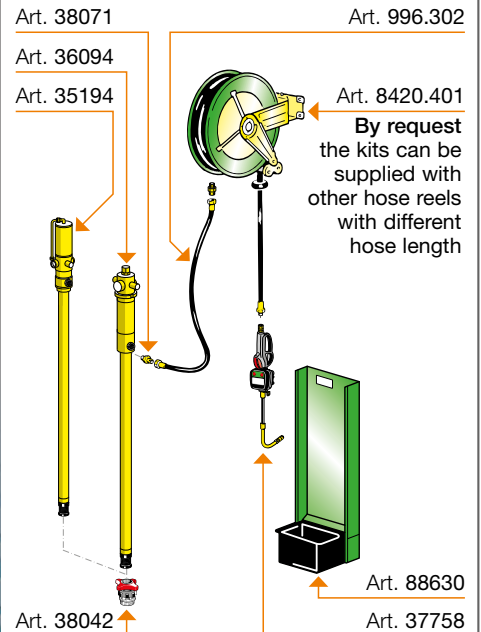
**pump mounted on drum**



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

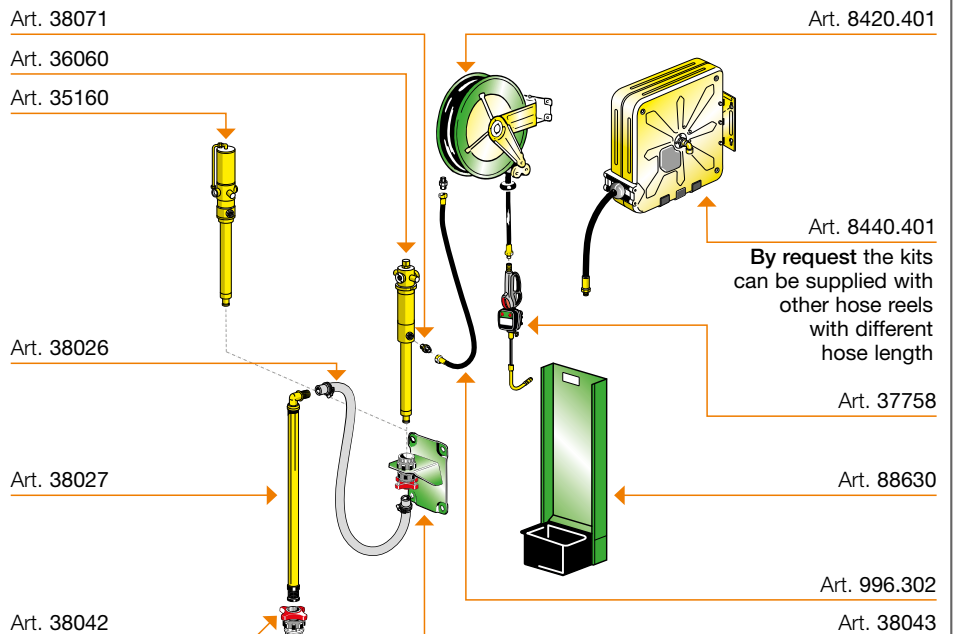
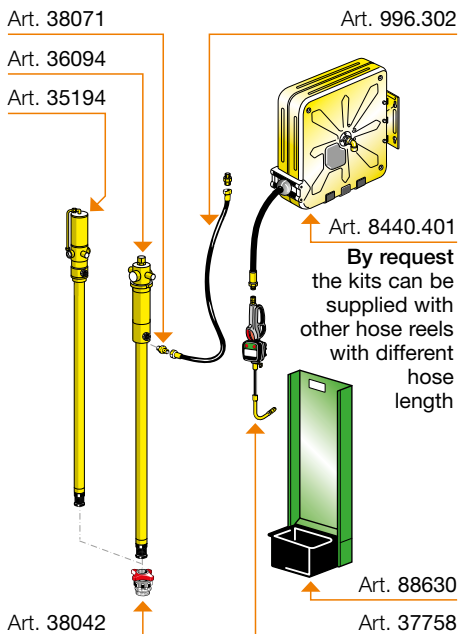


## pump mounted on drum

## wall mounted pump



35276		37676		35280		37680		35281		37679	
<b>3:1</b>		<b>5:1</b>		<b>3:1</b>		<b>5:1</b>		<b>3:1</b>		<b>5:1</b>	
<b>14</b>		<b>18</b>		<b>14</b>		<b>18</b>		<b>14</b>		<b>18</b>	
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.

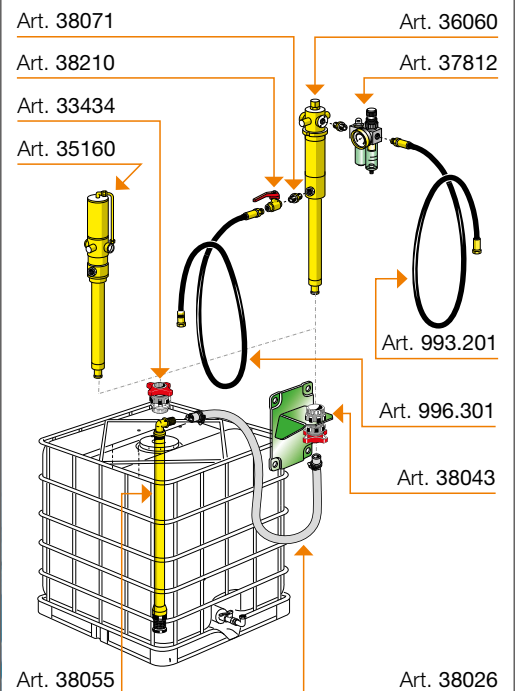
They are equipped with the accessories for air and oil connections.

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



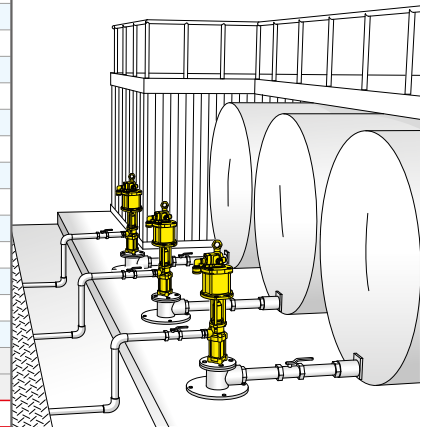
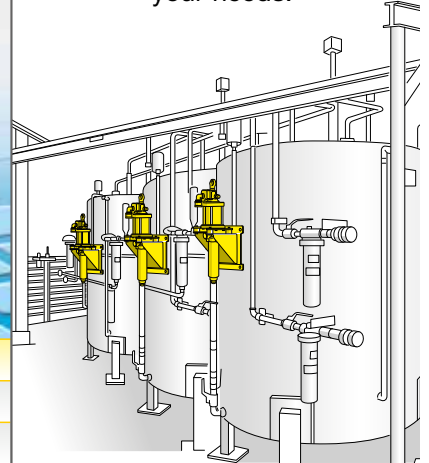
Note: the tank is not part of the kit

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

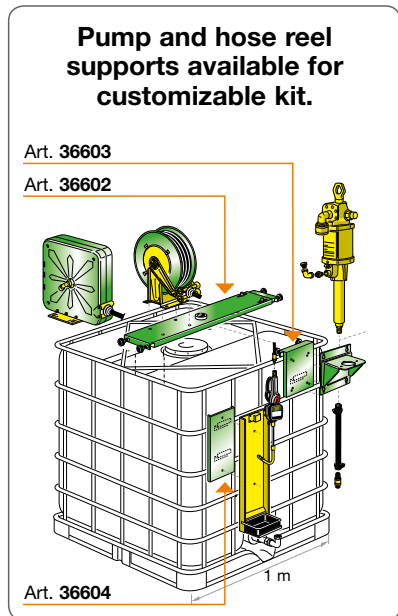
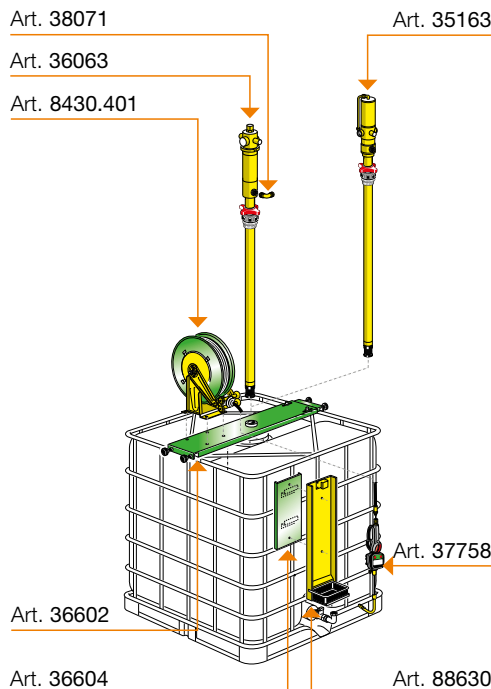
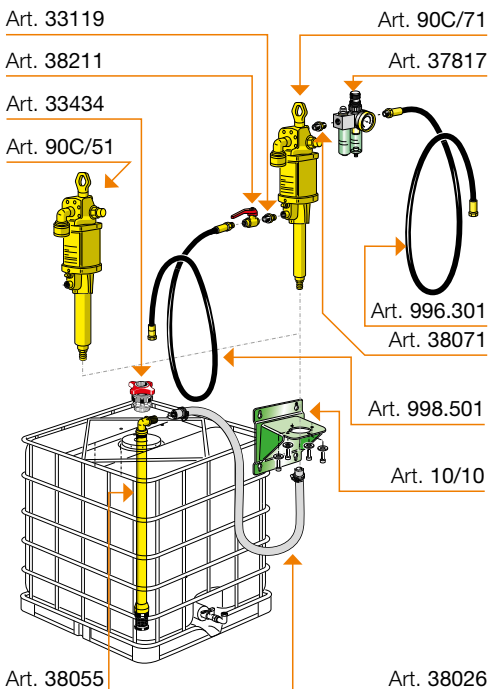


The possible solutions for equipping kits for tanks are many, due to the various shapes and sizes of the tanks (cube, rectangular, cylindrical) and the way in which the pump can be dipped (with suction tube connected to a cock on the bottom, etc.).

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



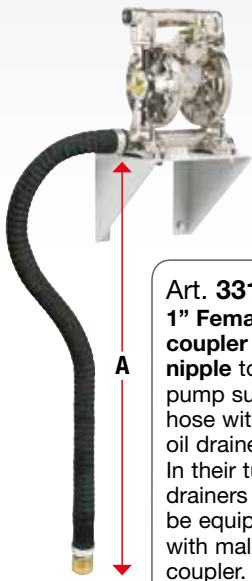
36340	36350	36610	36620
<b>5:1</b>	<b>7:1</b>	<b>3:1</b>	<b>5:1</b>
<b>45</b>	<b>30</b>	<b>14</b>	<b>18</b>
90C/51	90C/71	35163	36063
10/10	10/10	36602	36602
-	-	36604	36604
33434	33434	-	-
38026	38026	-	-
38055	38055	-	-
996.301	996.301	-	-
998.501	998.501	-	-
38211	38211	-	-
33119	33119	38071	38071
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





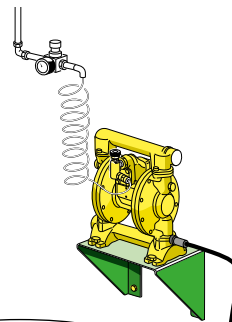
# Modular kit for TRANSFER or EMPTYING oil, waste oil and similar

**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.

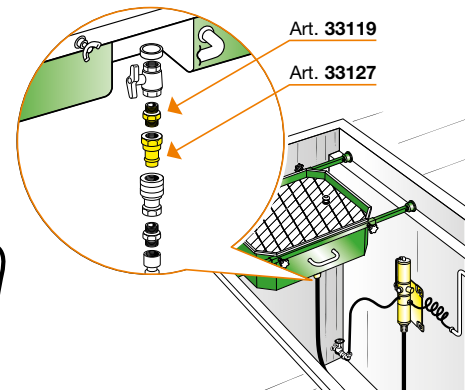


**Art. 33134**  
**1" Female quick coupler and nipple** to connect pump suction hose with waste oil drainers. In their turn drainers must be equipped with male quick coupler.

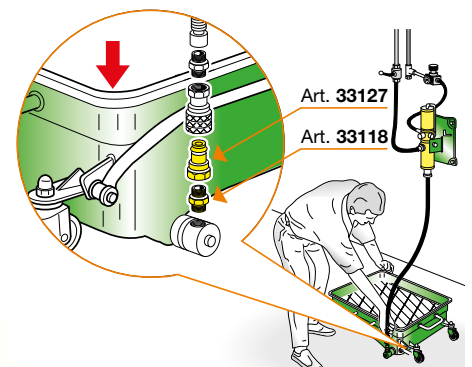
Article with seals in	<b>Viton®</b>		<b>33125</b>
Article with seals in	<b>NBR</b>	<b>33550</b>	
Ratio		<b>1:1</b>	<b>1:1</b>
Flow rate	l/min	<b>70</b>	<b>23</b>
Pump	Art.	33/2011NHHV2	33070
Flexible suction tube 2 m	Art.	38026	38026
Air inlet flow regulator	Art.	37803	37803
Wall bracket	Art.	33590	33115
Packing	N° - m <sup>3</sup>	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





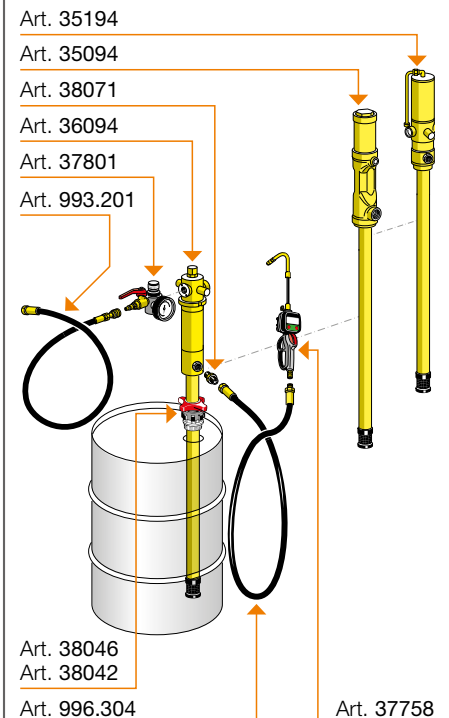
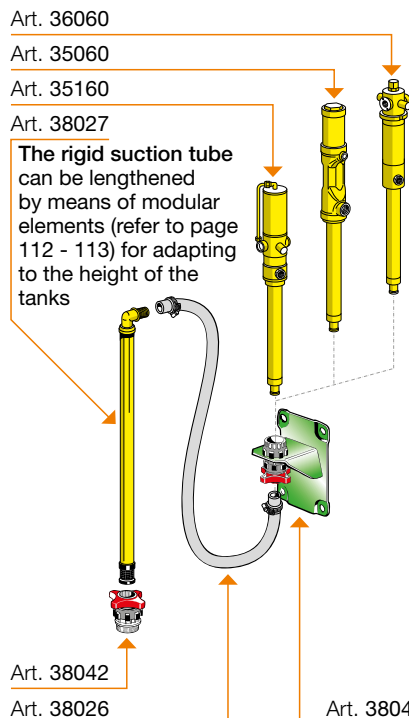
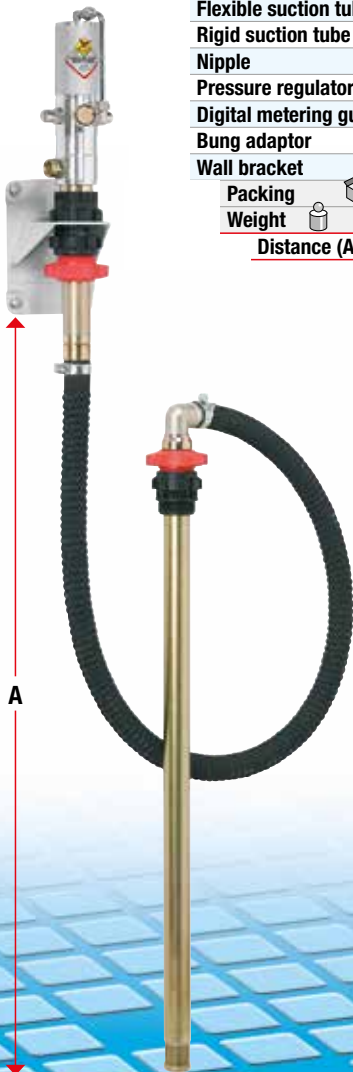
# Modular TRANSFER kit

## 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		<b>3:1</b>	<b>3:1</b>	<b>5:1</b>	<b>3:1</b>	<b>3:1</b>	<b>5:1</b>
Flow rate	l/min	<b>20</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>14</b>	<b>18</b>
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° - m³	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

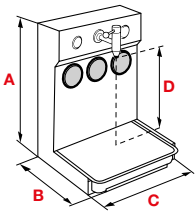
wall-mounted

**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	Art. N° - m <sup>3</sup>	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	67-43-56-46	67-43-56-46	67-43-56-46	67-43-56-46	67-43-56-46	67-43-56-46

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



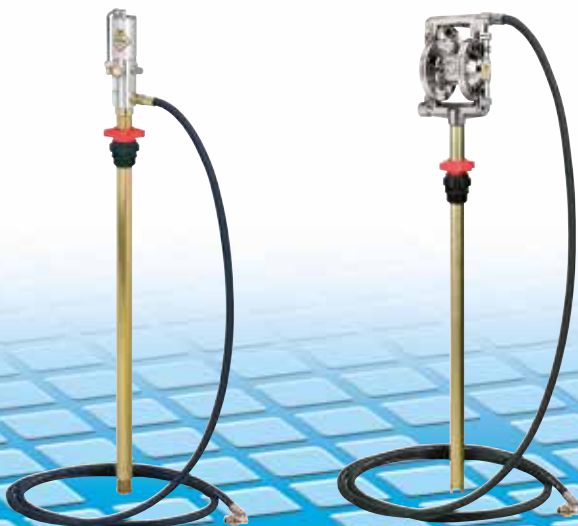
## Kit feeding pump

**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:

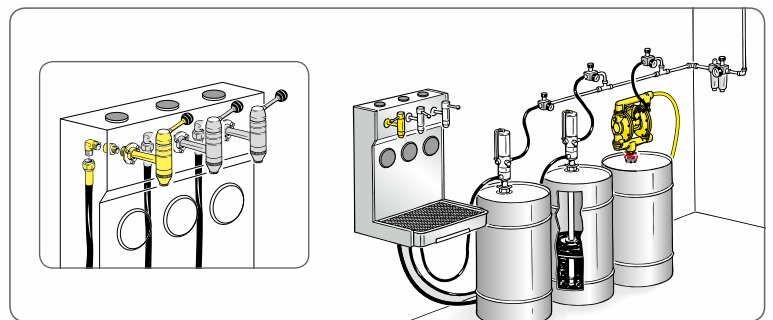
- Art. 33500 diaphragm pump R 1:1 - 70 l/min
- Art. 33434 bung adaptor
- Art. 996.304 tube 1/2" 4m
- Art. 33118 nipple M 3/4" x M 1/2"
- elbow F 1/2" x M 1/2"
- nipple M 1/2" x F 1/2"



## Example of installation

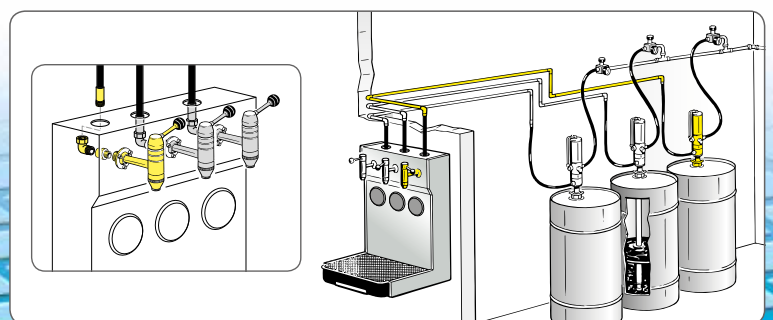
### Example of installation with hose.

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 1 m hose.



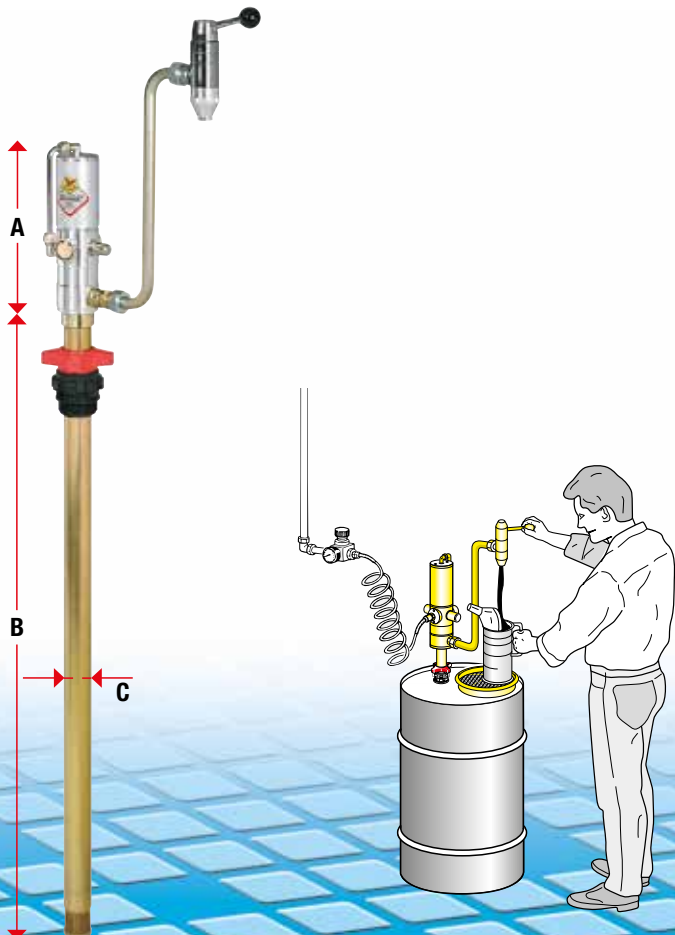


# Drum oil BAR

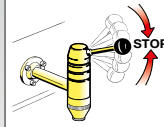
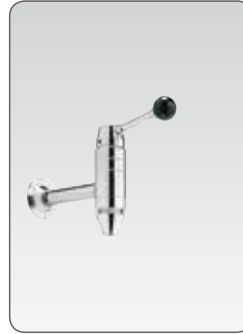
**Drum oil bar.**  
**Ideal for dispensing oil and antifreeze liquid.**  
 The delivery tap is connected directly to the feed pump. Very compact, it enables quick filling of jugs or other small containers.



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 <sup>3</sup>	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

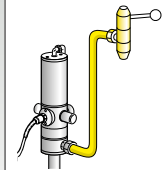


# OIL BAR ACCESSORIES

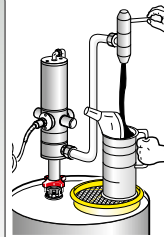


**Art. 37692**  
**Double valve tap with antisplash filter for oil bar inlet connection**  
 F 1/2" + M 3/4"

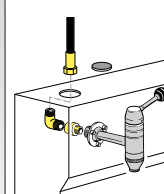
**Note:** both articles guarantee maximum delivery while preventing sprays caused by possible air bubbles in the system. Closing is automatic upon releasing the lever



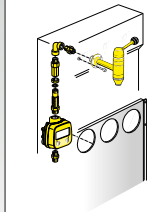
**Art. 37683**  
**Oil tap with pump connection, equipped with:**  
 - Art. 37681 tap for oil bar  
 - Art. 37682 pump  
 - oil bar tap connection tube



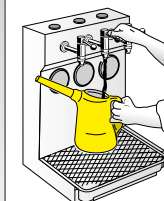
**Art. 37699**  
**Drip-catcher tray**



**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 M 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"  
 - not type-approved for public use



**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

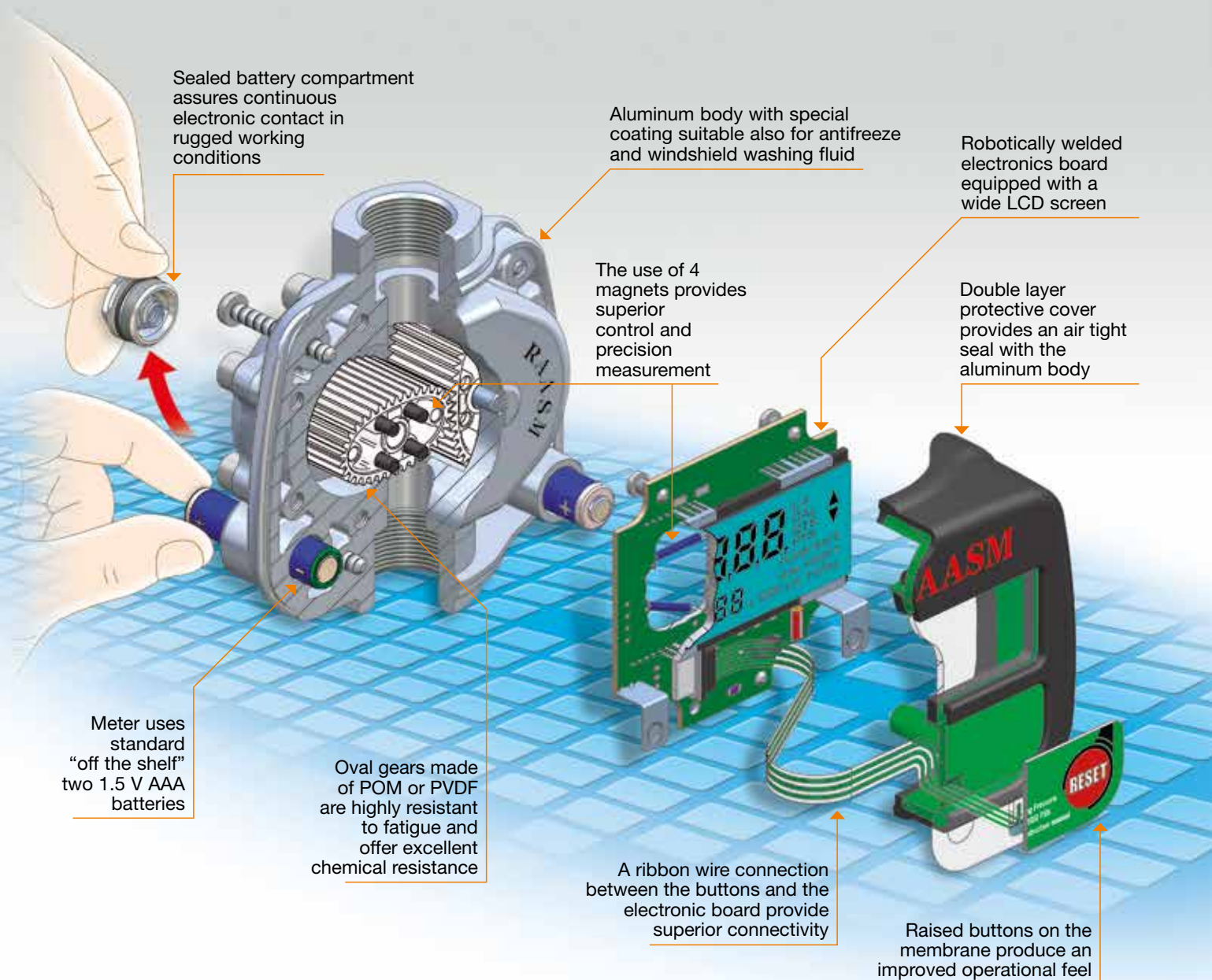
	oil and similar products	oil and similar products	antifreeze and windshield washing liquid
<b>Article</b>	<b>37780</b>	<b>37781</b>	<b>37785</b>
<b>Flow rate</b> l/min	<b>35</b>	<b>70</b>	<b>40</b>
<b>Compatible fluids</b>	Oil and similar products	Oil and similar products	Antifreeze and windshield washing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



**Diesel fuel version available. See specific documentation**



# TECHNICAL Characteristics



## 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 TP	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**





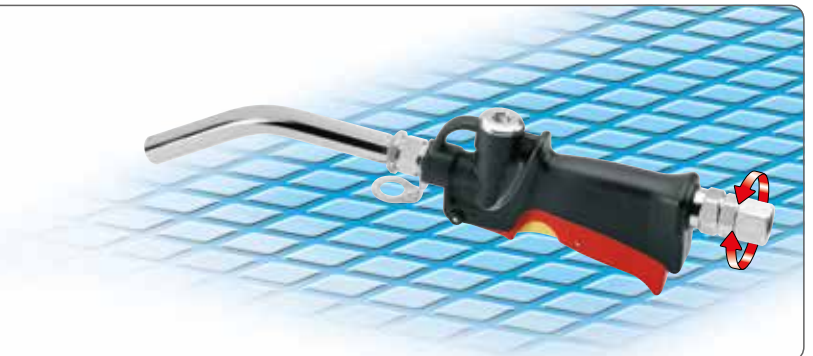
## GUN for oil and similar Series 1/2" - 30TP

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  
- not type-approved for public use



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  
- not type-approved for public use



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  
- not type-approved for public use







## GUN

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

Art. 38020

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

Art. 37740

Grip in aluminum 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 - not type-approved for public use



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 - not type-approved for public use



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 - not type-approved for public use

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 - not type-approved for public use





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

Art. 37750

**Grip in aluminum for oil gun** equipped with **F 1/2"** inlet swivel joint, filter, **F 1/2"** outlet and 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  
- not type-approved for public use



Art. 37752

**Oil gun** equipped with **F 1/2"** inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle  $\varnothing$  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  $\varnothing$  21 mm and lever locking button  
- not type-approved for public use



Art. 37751

**Oil gun** equipped with **F 1/2"** inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle  $\varnothing$  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  $\varnothing$  21 mm and **lever locking button**, max pressure: 70 bar  
- not type-approved for public use





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

Art. 37775

**High delivery oil grip in aluminum** 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**  
- not type-approved for public use



Art. 37777

**High flow rate oil gun** equipped with **F 3/4"** inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle  $\varnothing$  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  $\varnothing$  35 mm and **lever locking button**  
- not type-approved for public use



Art. 37776

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

Art. 37797

**High flow rate oil gun with digital litre-counter** Art. 37781 equipped with **F 3/4"** inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle  $\varnothing$  35 mm and **lever locking button**, max pressure: 70 bar  
- not type-approved for public use





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

Art. 33150

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

Art. 33148

**High delivery oil gun with digital litre-counter** Art. 37781 equipped with **F 3/4"** inlet swivel joint, filter, **lever locking button**, rigid terminal with free outlet  
- not type-approved for public use



Art. 33152

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

Art. 33147

**High delivery oil gun with digital litre-counter** Art. 37781 equipped with **F 3/4"** inlet swivel joint, filter, **lever locking button**, rigid terminal and semiautomatic drip-catcher nozzle ø 35 mm  
- not type-approved for public use

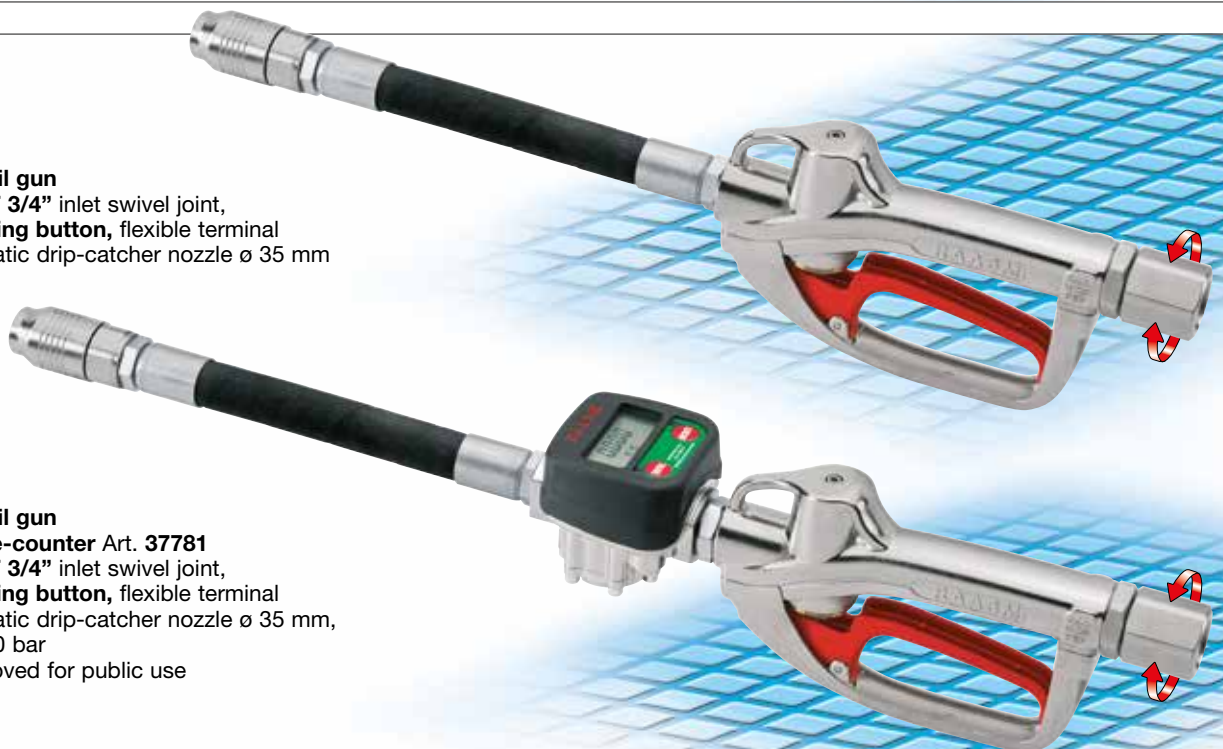


Art. 33151

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

Art. 33146

**High delivery oil gun with digital litre-counter** Art. 37781 equipped with **F 3/4"** inlet swivel joint, filter, **lever locking button**, flexible terminal and semiautomatic drip-catcher nozzle ø 35 mm, max pressure 70 bar  
- not type-approved for public use





## GUN

# for windshield washing liquid and antifreeze

Art. 37785

**Digital meter for windshield washing liquid and antifreeze, inlet and outlet F 1/2" BSP**  
- not type-approved for public use



## 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  
- not type-approved for public use



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  
- not type-approved for public use



## Windshield washing liquid gun Series 1/2" - 40AN

Art. 33445

**Windshield washing liquid gun with oxidized aluminum grip** equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal



Art. 33446

**Windshield washing liquid gun with oxidized aluminum grip with digital litre-counter Art. 37785** equipped with F 1/2" inlet swivel joint, filter, high flow rate rigid terminal  
- not type-approved for public use



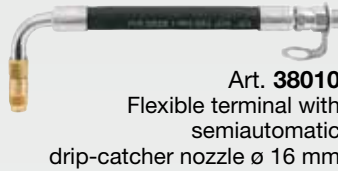


## Gun for oil and similar S. 1/2" - 30TP - 40AL - 40AP

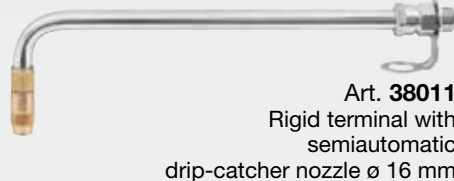
Art. 38015  
Semiautomatic  
drip-catcher nozzle ø 10 mm

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



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



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



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



Art. 38018  
Curved semiautomatic  
drip-catcher ø 8 mm



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

## 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 aluminum  
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



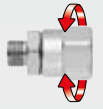
**Art. 37775**  
Grip in aluminum with  
inlet swivel joint  
F 3/4" and lever  
locking button



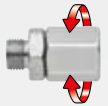
**Art. 33150**  
Grip in aluminum  
with inlet swivel  
joint F 3/4" and level  
locking button



**Art. 38066**  
Swivel  
joint for  
oil gun,  
M 1/2" x F 3/4"

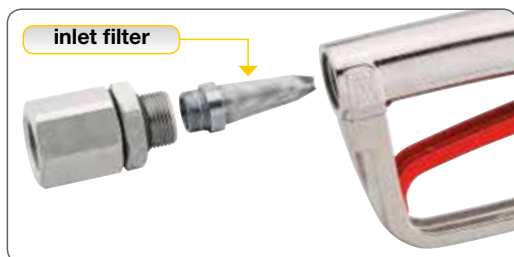
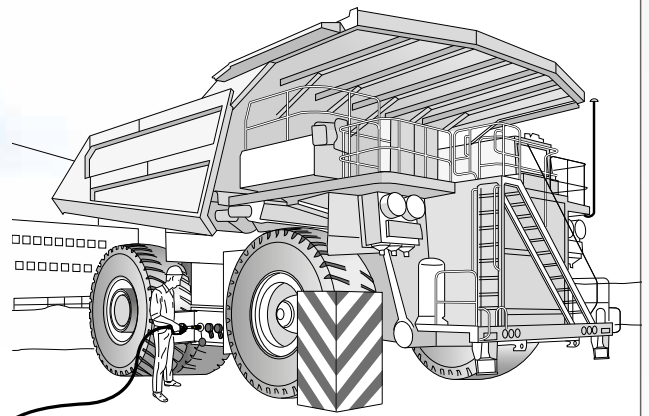


**Art. 38065**  
Swivel joint for oil  
gun, high delivery,  
inlet M/F 3/4"

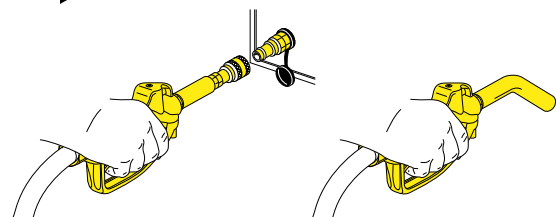


## High delivery grip Series 3/4"

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"
  - flexible terminal
  - semiautomatic 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

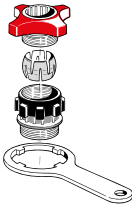




## Accessories for oil pumps



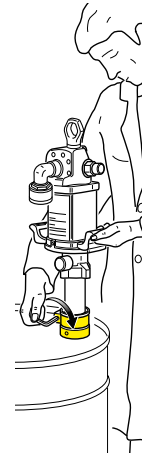
Art. 38046  
**Bung adaptor**  
ø 32 mm, with double body  
for pumps with suction tube,  
series 500



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

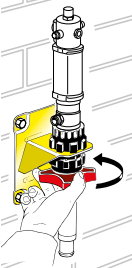
Art. 38044  
**Bung adaptor**  
ø 38 mm, with double body  
for pumps manual double  
acting oil pumps



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

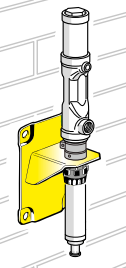
Art. 10/14  
**Bung adaptor**  
ø 45 mm for industrial  
pumps with suction tube,  
series 900 e 1200

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

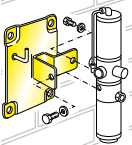


Art. 38047  
**Wall bracket** ø 32 mm  
with double body  
for wall-mounting of pumps,  
series 500

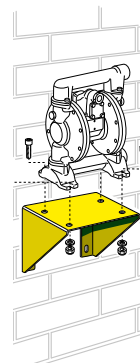
Art. 38043  
**Wall bracket** ø 42 mm  
with double body  
for wall-mounting of pumps,  
series 600 and 650



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

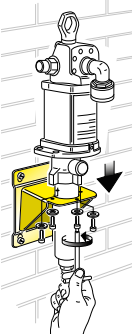


Art. 33115  
**Wall bracket in steel**  
for wall-mounting of  
transfer pumps,  
series 600 and 650

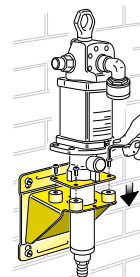


Art. 33590  
**Wall bracket in painted  
steel** for wall-mounting  
of diaphragm pumps  
1/2" and 3/4"

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

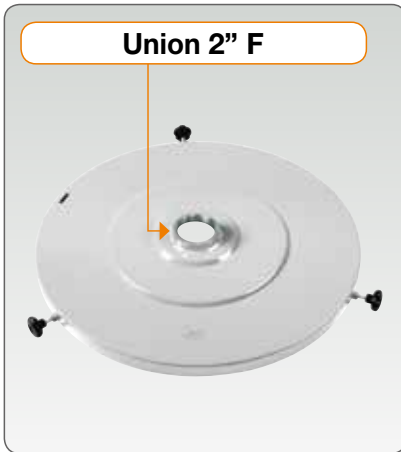


Art. 10/11  
**Wall bracket in  
painted steel**  
with dampers for  
wall-mounting of  
integral and flanged  
industrial pumps,  
series 900 and 1200



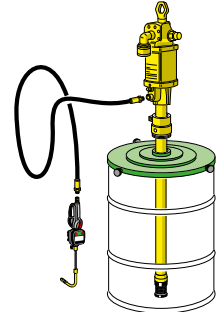
# Accessories for oil pumps

Union 2" F



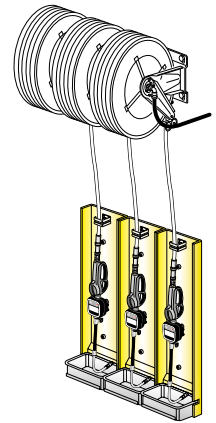
## Drum cover with 2" F union suitable for standard bung adaptor

- 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 ●

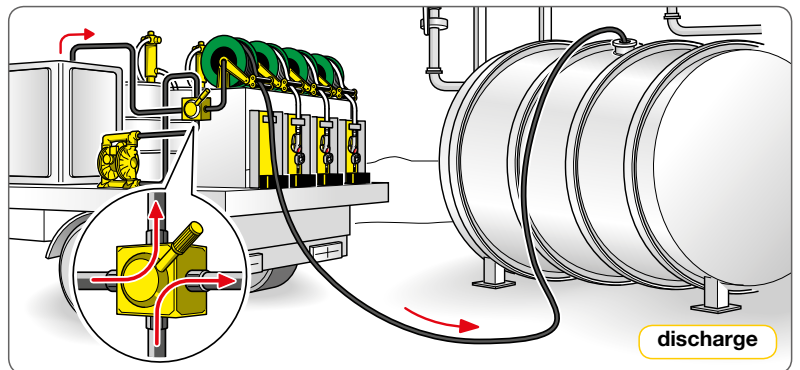
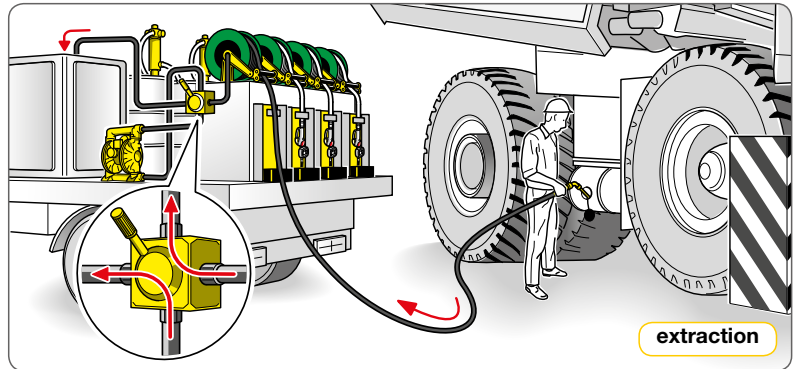
●● tapered/cylindrical thread  
● cylindrical/cylindrical thread



# 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



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

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



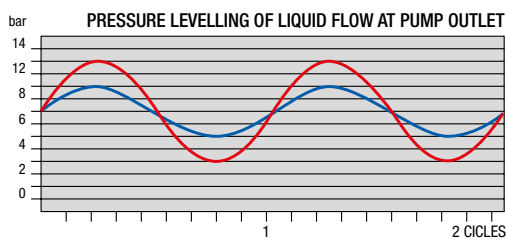
Art. 38097

**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

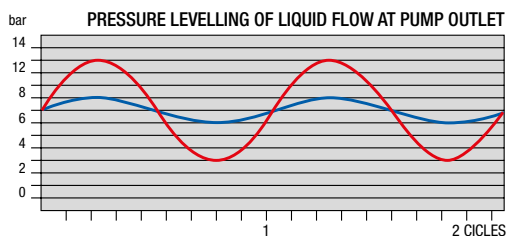
Art. 38098

**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

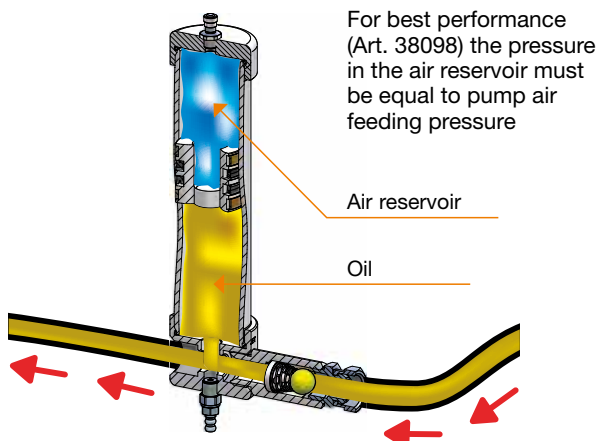
## Pressure trend of oil pump outlet



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





## 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  $\varnothing$  1.1/4" with **M 3/4" inlet connection**  
Art. 38081  
Hose holder  $\varnothing$  1.1/4" with **M 1" inlet connection**  
Art. 38082  
Hose holder  $\varnothing$  1.1/4" with **M 1.1/4" inlet connection**  
Art. 38083  
Stainless steel hose holder  $\varnothing$  3/4" with **M 1" inlet connection**



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

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



Art. 33426  
**Flexible suction tube  $\varnothing$  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. 997.3305 **Hose M 3/4" x F 3/4"** - 5 m - 100 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

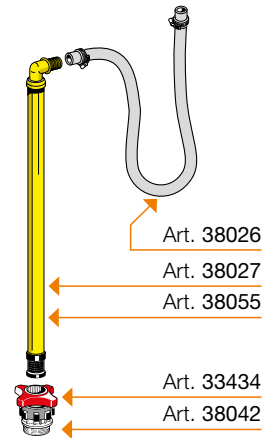
**Flexible and rigid suction tube** for wall mounted pump series 500 - 600 - 650 - 900 equipped with:

- 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

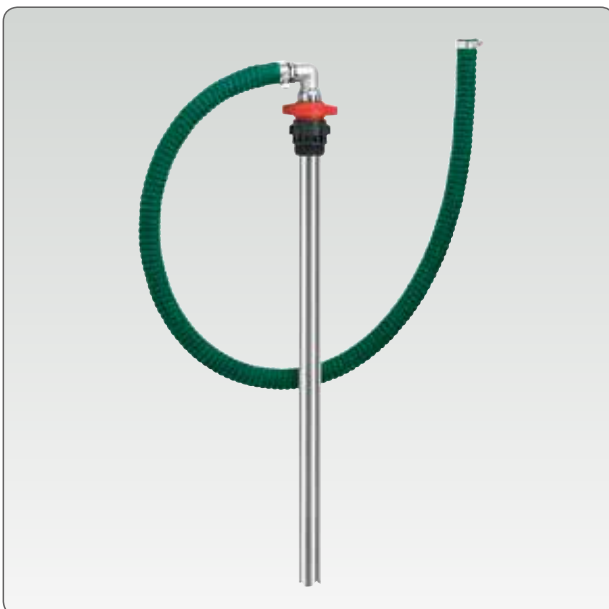
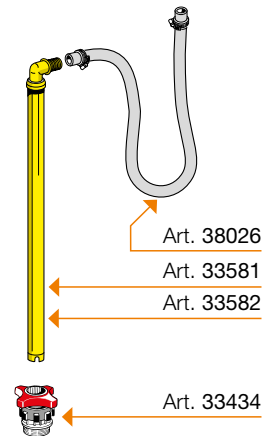
**Flexible and rigid suction tube** for wall mounted diaphragm pump equipped with:

- 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

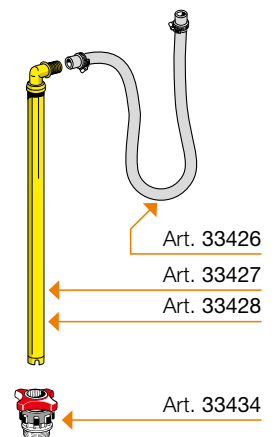
**Flexible and rigid suction tube** for wall mounted pump series 600 INOX equipped with:

- 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** - thread 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**

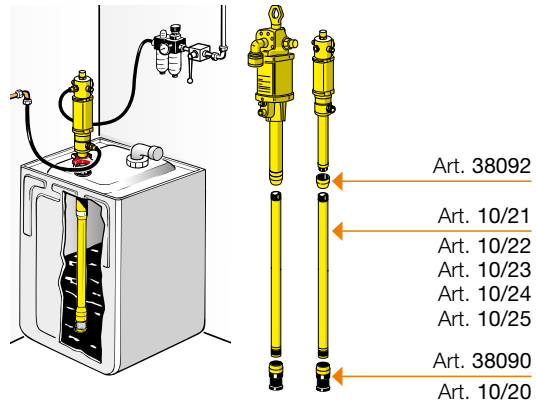
**Extension ø 34 - thread M 1"G x M 1"G** - 960 mm  
- suitable for modular and extendable pumps with F 1" connection

**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. 38090



Art. 10/20

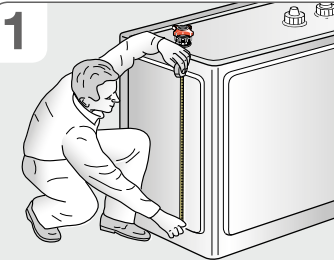
**Art. 38090**

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

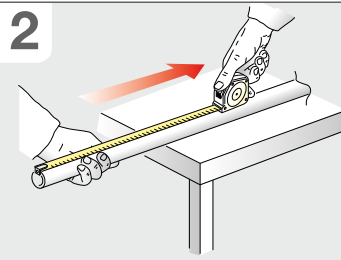
**Art. 10/20**

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

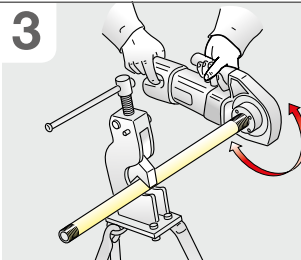
### Extendable pumps suction tube 1"



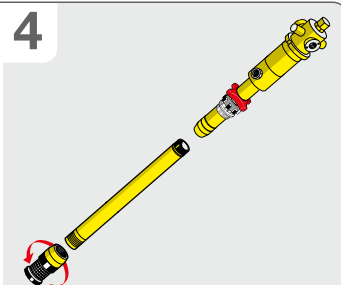
1 Obtain a water pipe (normally available on the market) ø 1" and thickness 2,5 mm



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



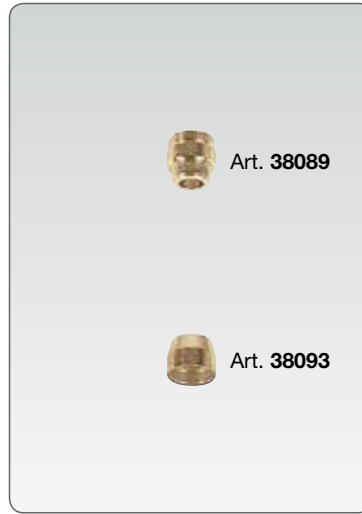
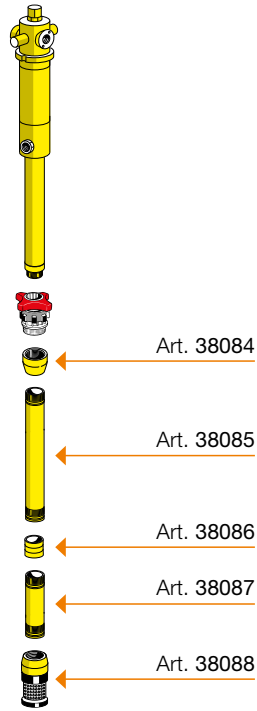
Art. 38084  
**Top connector F 1"**  
for connection between  
pump and extension

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

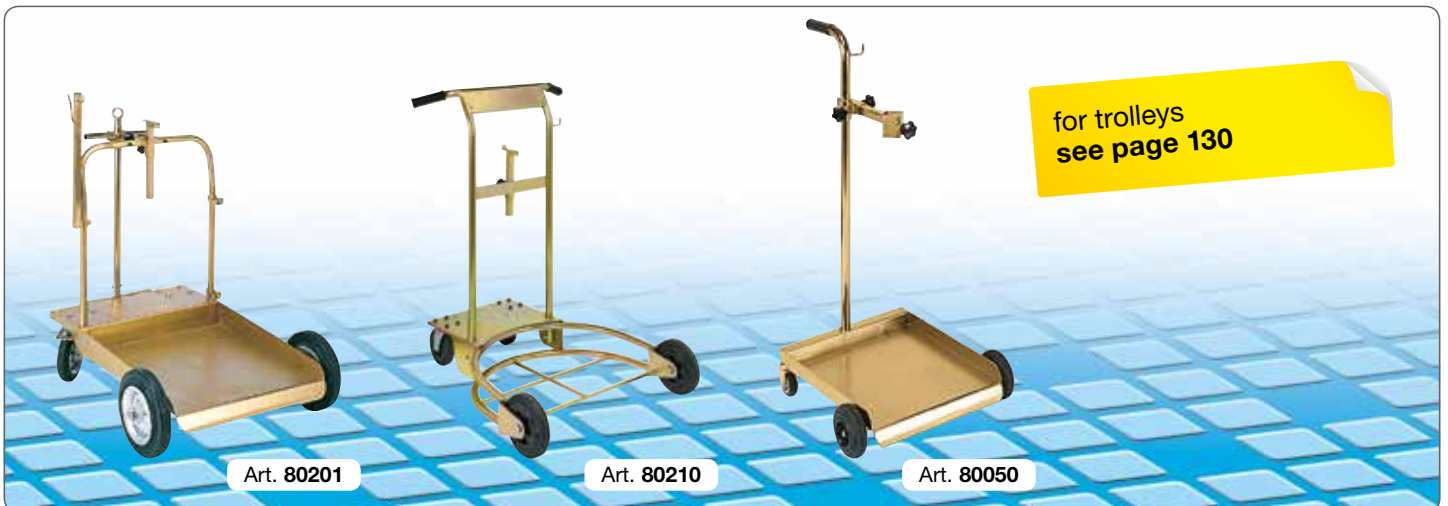
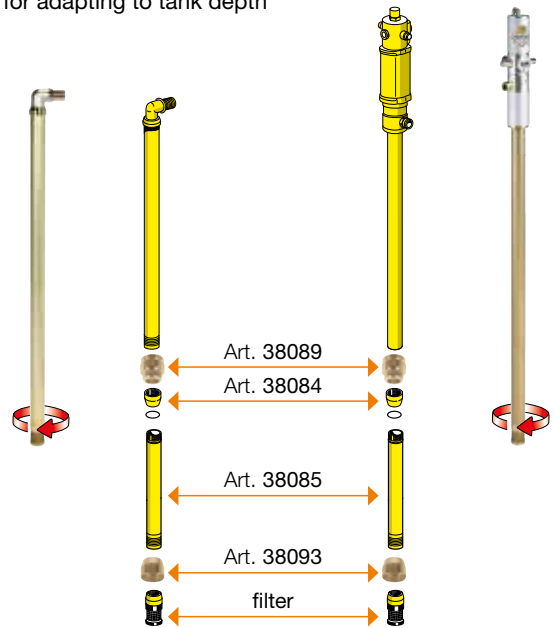


Art. 38089  
**Differentiated union with  
valve** for suction tubes  
ø 42 mm with the foot  
valve removed it enables  
connection between the  
suction tube and the modular  
extensions

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



for trolleys  
see page 130

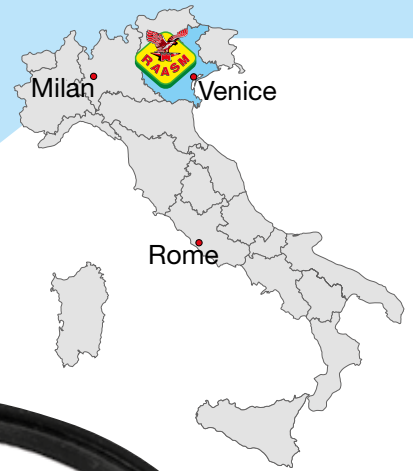
Art. 80201

Art. 80210

Art. 80050



# 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 - Valdastico. 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.





## 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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