Waste oil suction-drainers

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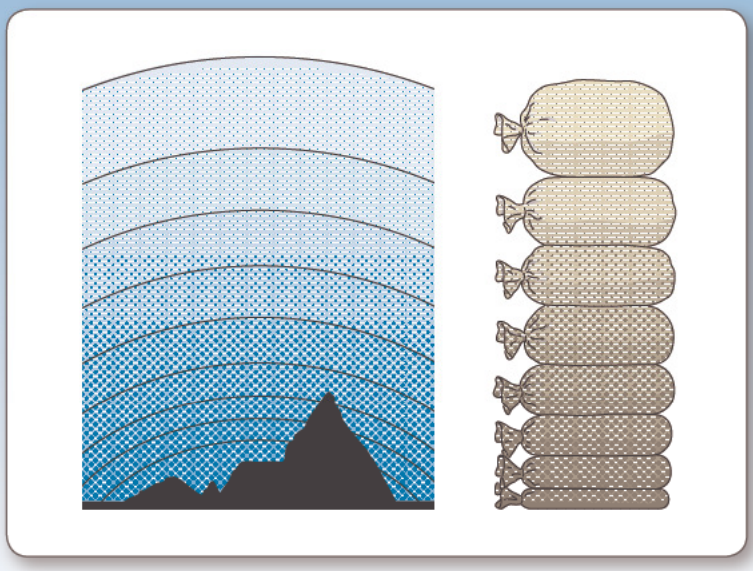
Suction power

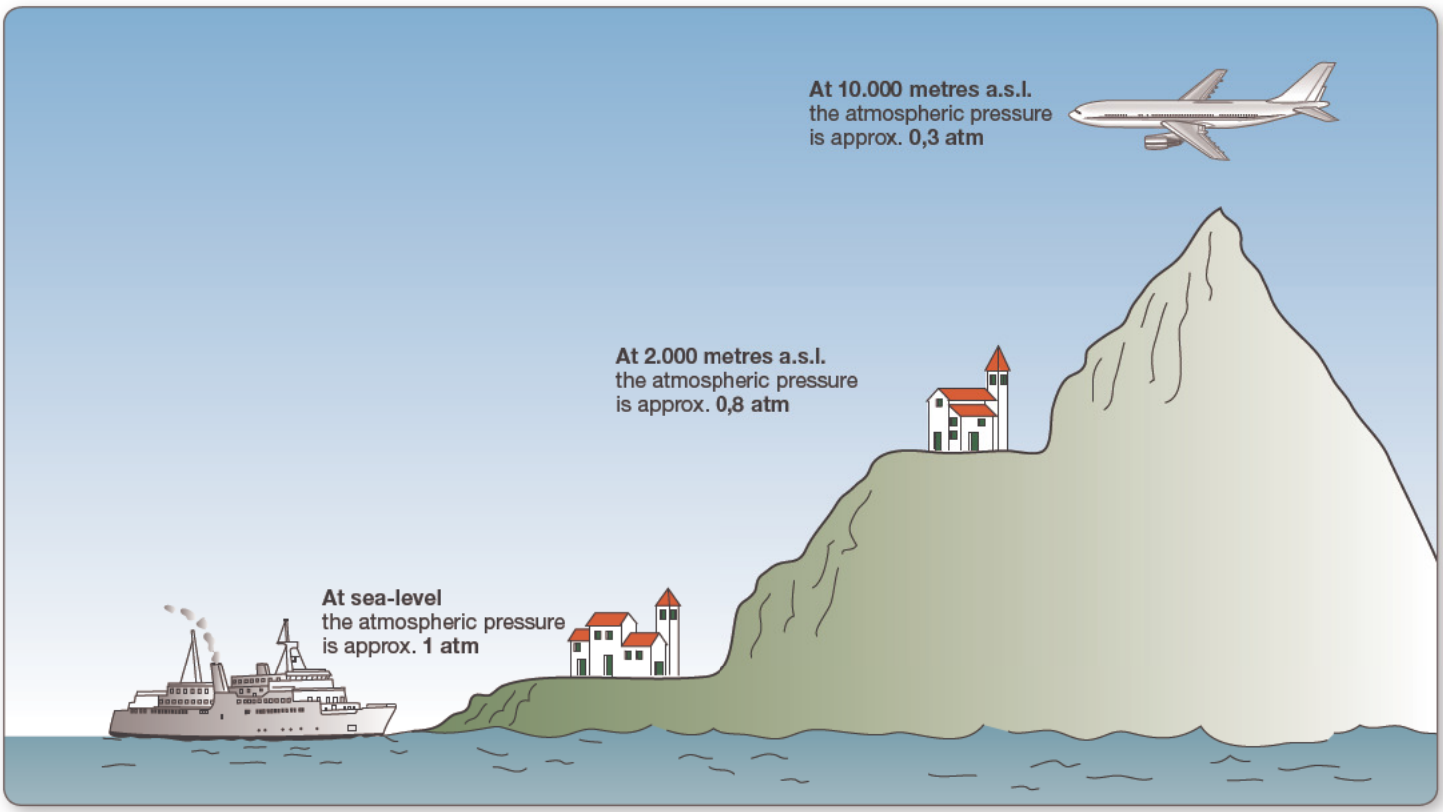
To understand the concept of **suction power** it is important to remember the difference between **pressure** and **depression.** In this way the characteristics and advantages offered by the **oil drainer** will be clearly understood.



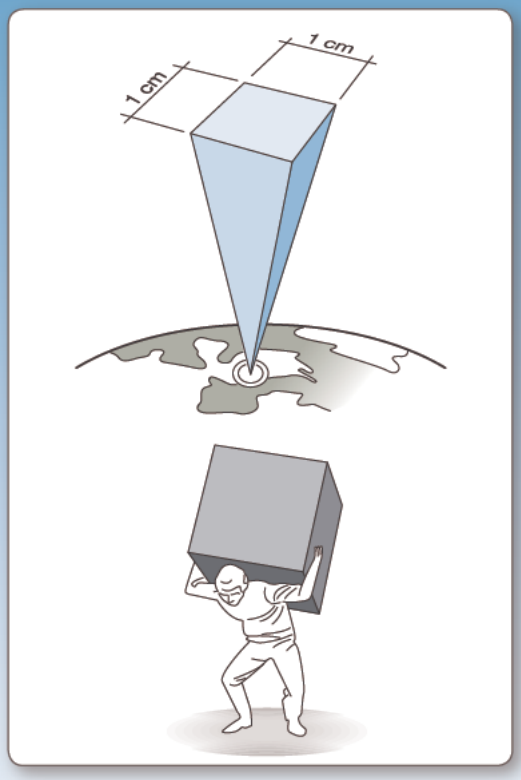
Pic. 1

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



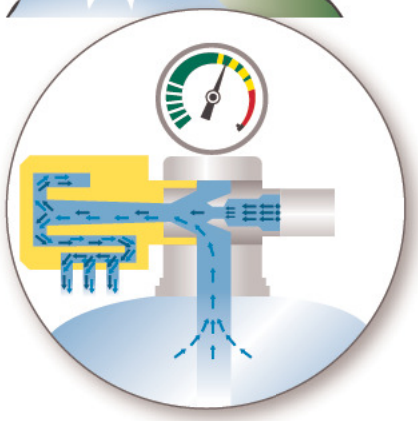
In general, pressure is obtained by compressing any type of fluid inside a given container, until reaching the required values: 1 - 3 - 10 - 100 atm without limits, apart from those of the fluid container's structure and the power of the pump used.

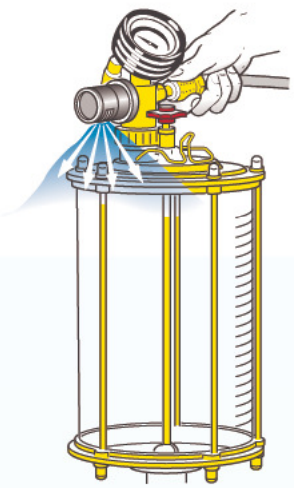
On the other hand, a **depression** or vacuum is obtained by removing all the air contained in a given recipient or tank, and the maximum value obtainable (vacuum or suction power) is independent of the pumping or suction system used. Whatever the pump used (**electric pump, air pump, Venturi principle,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

Pump operation with Venturi principle

Connect a compressed air line (7 atm) to the special connection on the suction device. Obliged 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. **45560 consisting of:**

- Art. 45504 flexible probe ø 5 mm - length 700 mm
- Art. 45505 rigid probe ø 5 mm - length 700 mm
- Art. 45506 flexible probe ø 6 mm - length 700 mm
- Art. 45516 rigid probe ø 6 mm - length 700 mm
- Art. 45517 flexible probe ø 7 mm - length 1000 mm
- Art. 45518 flexible probe ø 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

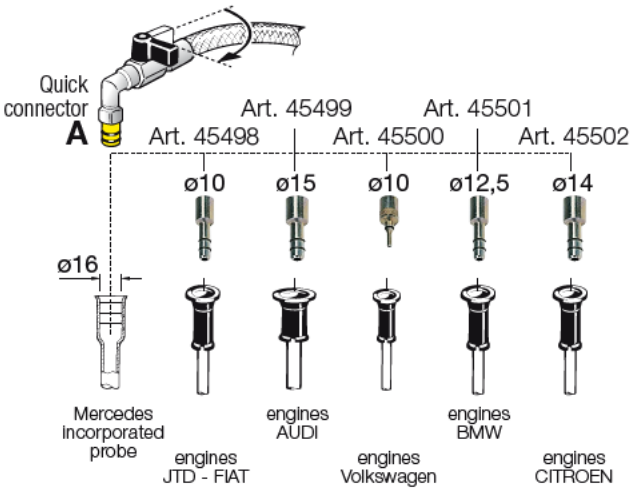
Probes supplied by request

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

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

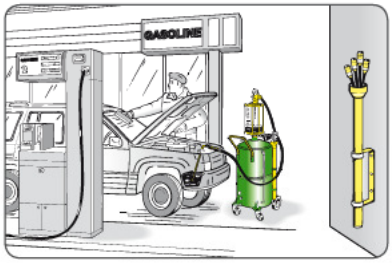
Already supplied with the following articles:
Art. 45100 - 45110 - 45150 - 45180 - 45250 - 45280 - 43116 - 43190 - 42164 - 42215

Connectors for incorporated probes



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

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



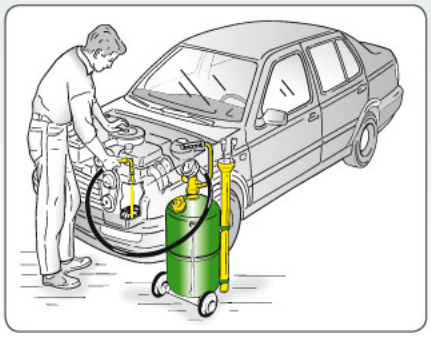
Art. **45550**
3/8" connection for outboard engines supplied with the drainers for boating

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

PORTABLE waste oil drainers

manual emptying

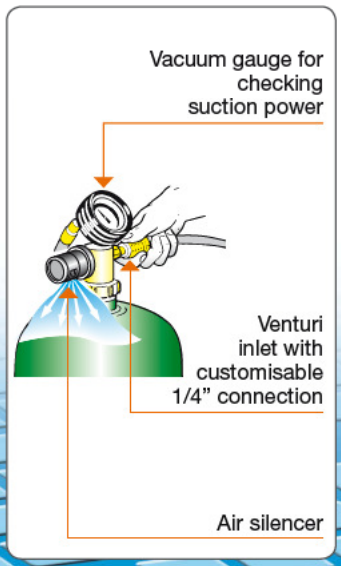
Air-operated drainers.
Ideal for quick engine oil change of any motor vehicle. The old oil is sucked from the engine by means of the probes supplied.
After depressurisation the drainer works independently without requiring continuous connection to the compressed air system
Suck hot oil at 70 - 80 °C.



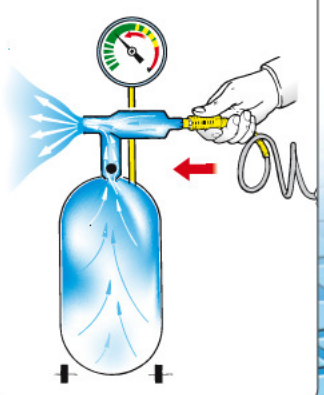
		portable	wheel-mounted
Article		**43016**	**43024**
Tank capacity	litres	**16**	**24**
Max draining capacity	litres	13	20
Air pressure for depressurisation	bar	6,5 - 7	6,5 - 7
Depressurisation time	min	1	1 - 1,5
Noise level	dB	75	75
Suction speed	l/min	1,5 - 2	1,5 - 2
Total suction capacity	litres	9 - 10	15 - 16
Suction hose	m	2	2
Set of probes	Art.	45560	45560
Packing	N° - m³	1 - 0,080	1 - 0,090
Weight	kg	10,5	13,7
Dimensions (A - B - C)	cm	25,5 - 22,5 - 84,5	28 - 33 - 86

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

Details and advantages



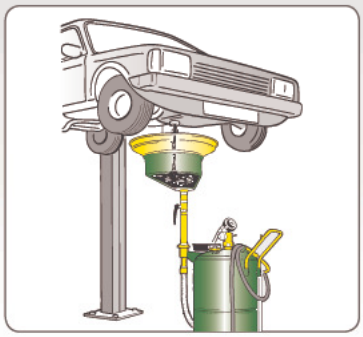
For correct depressurisation, the pressure of the air passing through the Venturi system must be between **6,5 and 7 bar**

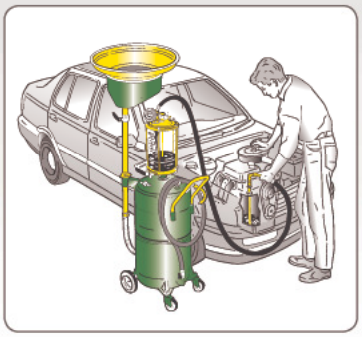


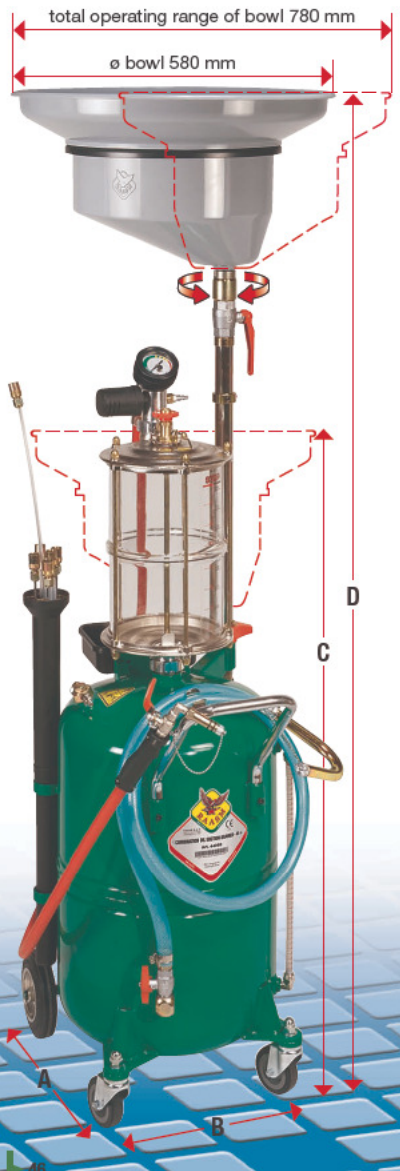
PROFESSIONAL waste oil suction-drainers

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.**

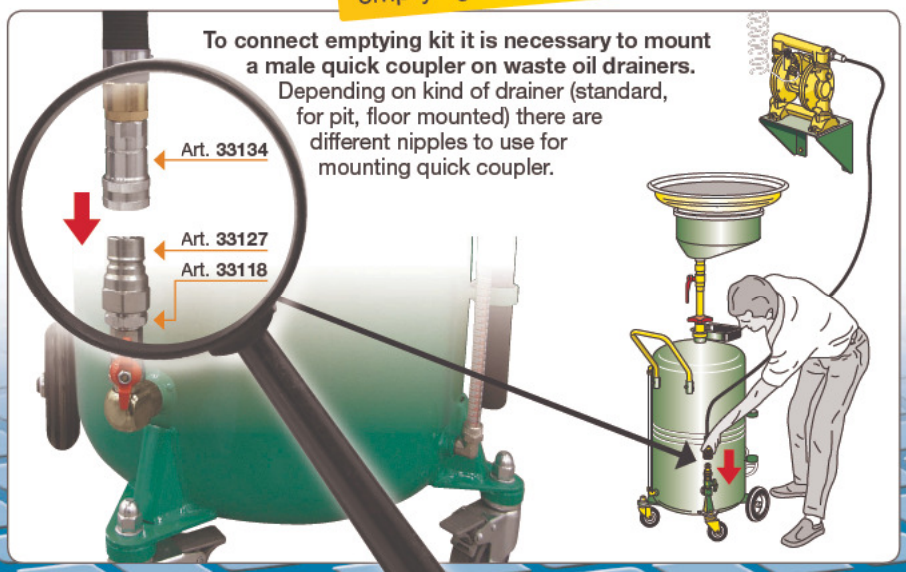






Article		central bowl			side bowl		
		42065	42090	42115	42066	42091	42116
Tank capacity	litres	65	90	115	65	90	115
Max draining capacity	litres	52	75	97	52	75	97
Prechamber capacity	litres	-	-	-	-	-	-
Bowl capacity	litres	15	15	15	15	15	15
Air pressure for depressurisation	bar	-	-	-	-	-	-
Depressurisation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

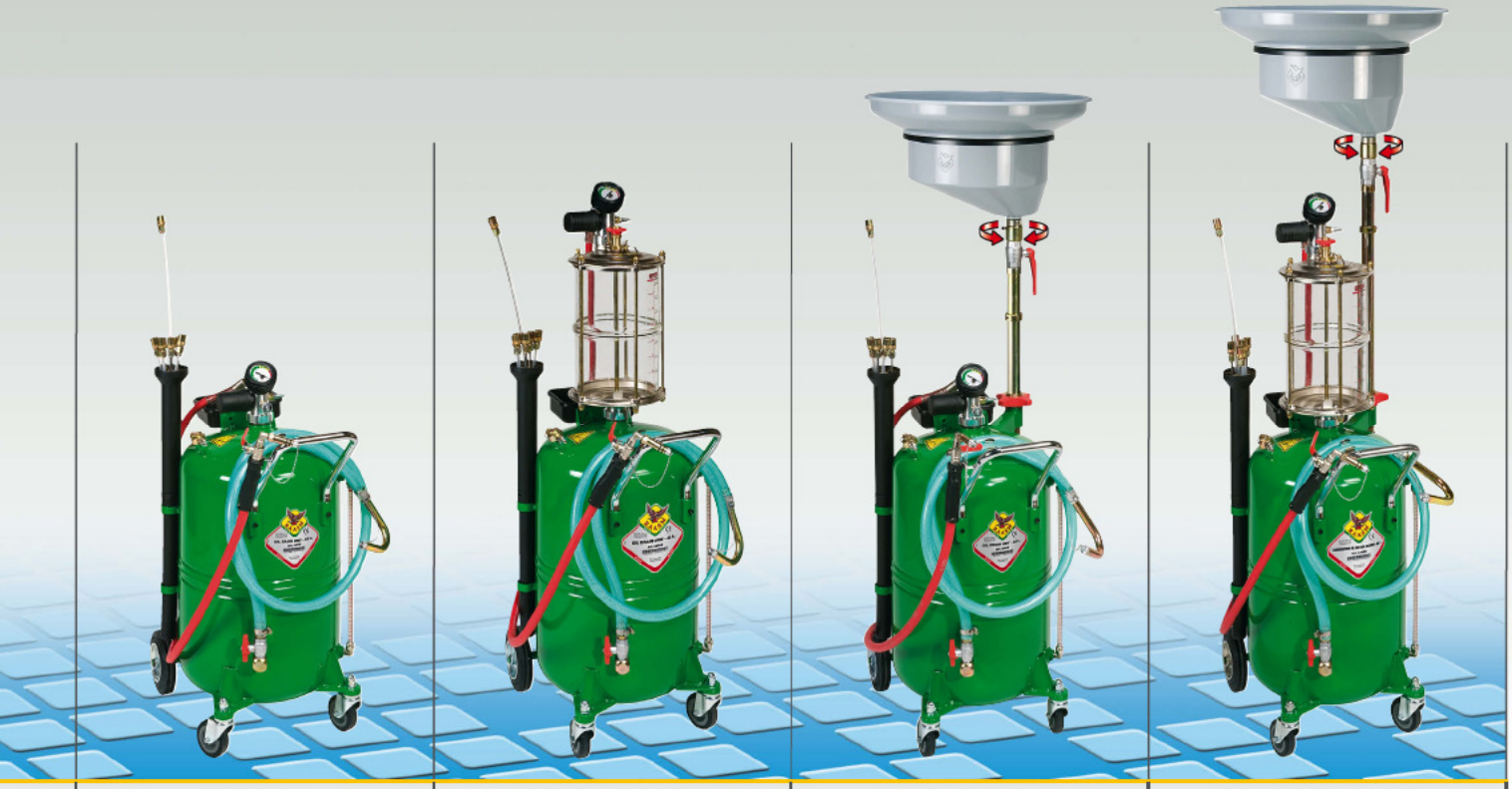
To connect waste oil gravity and suction drainers to emptying kit **see page 50**



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

suction-drainers

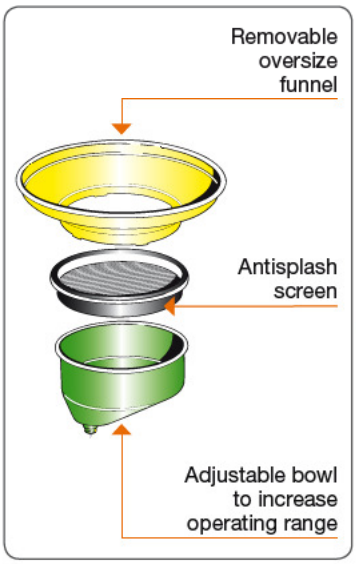
combined drainers

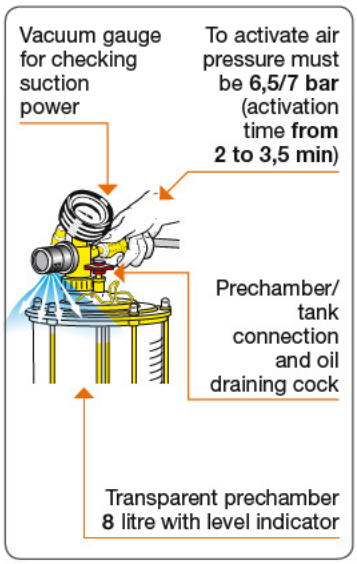


	standard			with prechamber			standard			with prechamber		
	43060	43090	43114	43065	43091	43115	44060	44090	44115	44065	44091	44116
	65	90	115	65	90	115	65	90	115	65	90	115
	52	75	97	52	75	97	52	75	97	52	75	97
	-	-	-	8	8	8	-	-	-	8	8	8
	-	-	-	-	-	-	15	15	15	15	15	15
	6,5 - 7	6,5 - 7	6,5 - 7	6,5 - 7	6,5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

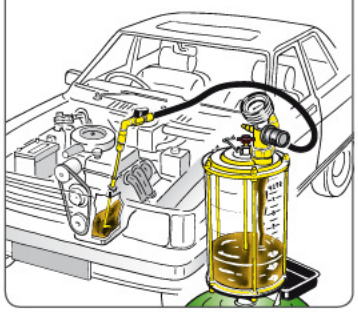
Caution: do not suck brake fluids, fuels, flammable or corrosive liquids

Details and advantages





2 m suction hose with probe connection. **Waste oil suction speed 1,5-2 l/min (oil 70°-80°C, with 6 mm probe)**

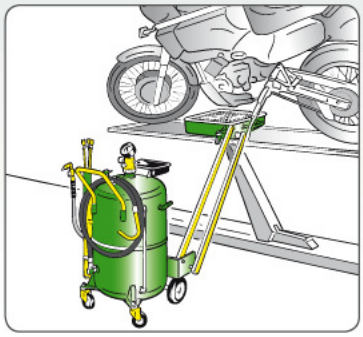


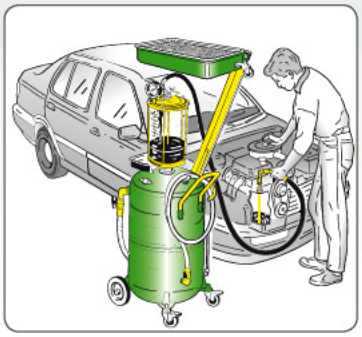
2 m hose for draining tank with air

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

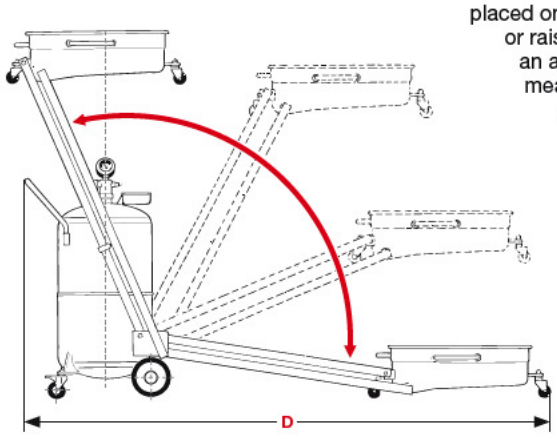




Article		suction-drainers 46064	combination 46065
Tank capacity	litres	65	65
Max draining capacity	litres	52	52
Prechamber capacity	litres	-	-
Bowl capacity	litres	14	14
Air pressure for depressurisation	bar	-	6,5 - 7
Depressurisation time	min	-	2
Noise level	dB	-	75
Suction speed	l/min	-	1,5 - 2
Total suction capacity	litres	-	43 - 45
Discharging/suction hose	m	2	2/2
Max pressure for draining	bar	0,5	0,5
Set of probes	Art.	-	45560
Packing	N° - m³	3 - 0,247	4 - 0,310
Weight	kg	38,2	42,7
Dimensions (A - B - C)	cm	57 - 49 - 100	57 - 49 - 100
Max dimensions (D)	cm	200	200

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

The collection tank can be placed on the floor or raised under an auto lift by means of the cantilever arms

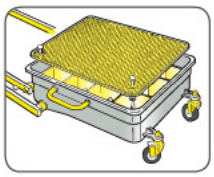


cars

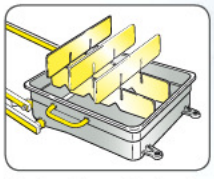
trucks

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

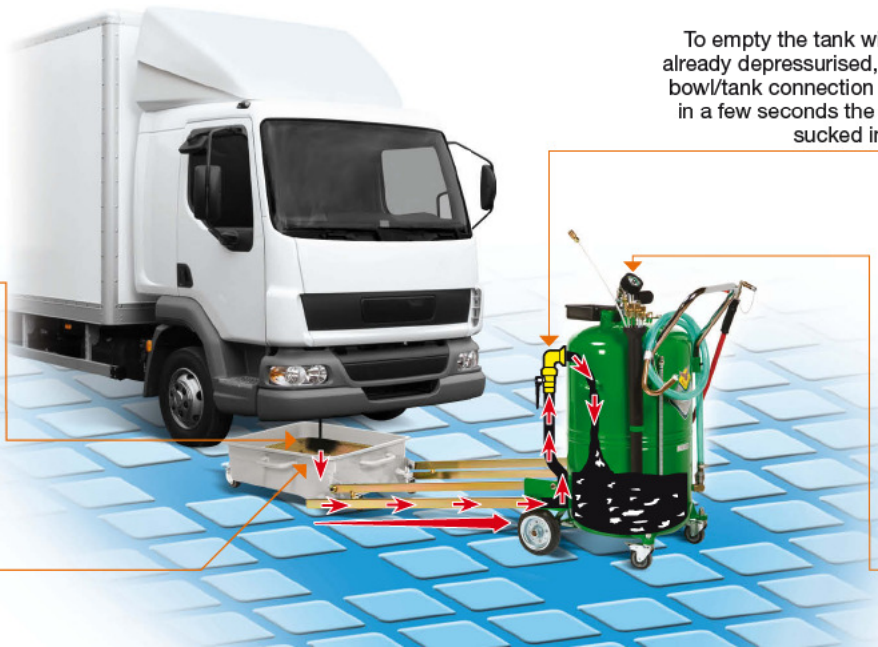
Details and advantages



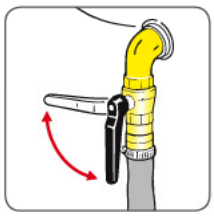
Protection screen/filter splash guard and support base for filter



Tank with antisplash



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

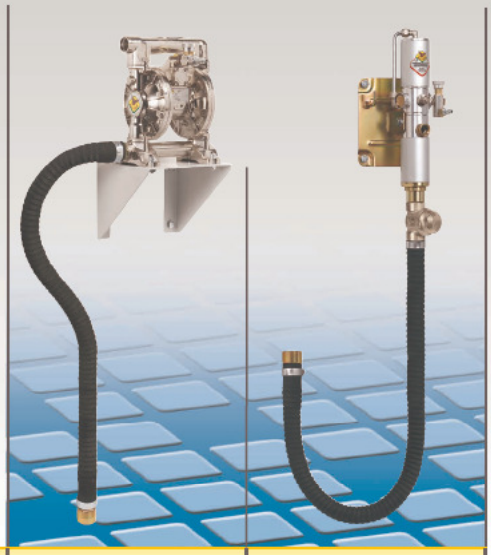


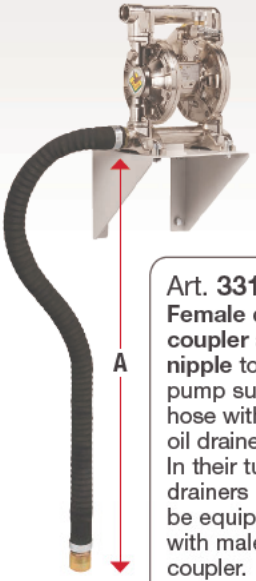
The air pressure for correct depressurisation is between **6,5 and 7 bar**

Modular kit for TRANSFER or EMPTYING

oil, waste oil and similar

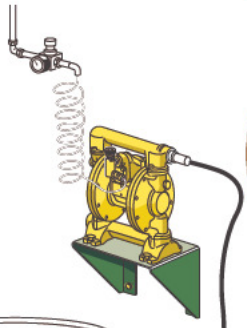
Wall-mounted transfer kit. A practical solution for draining movable equipment, waste oil suction/drainers by means of connection with quick-coupling valve. Wall application enables connection to a fixed system for discharging the sucked liquid directly into the storage tank.

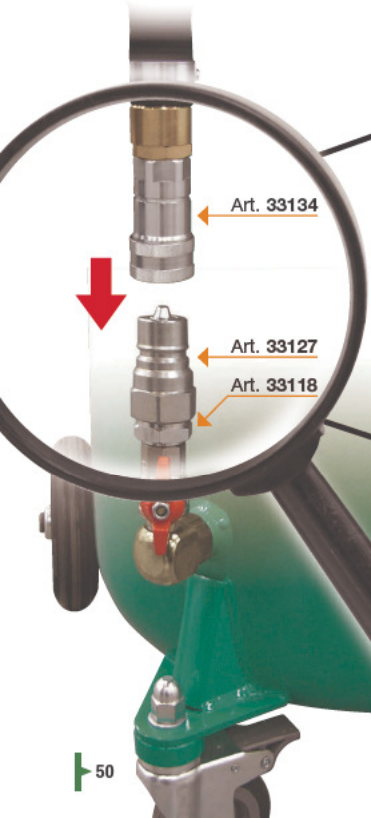




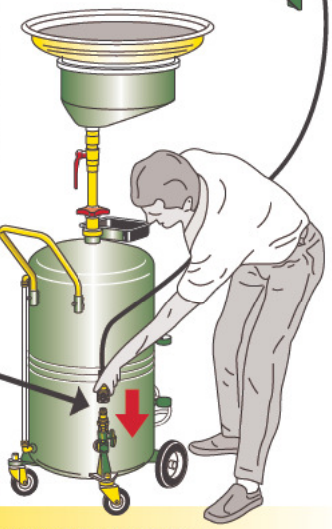
Art. **33134**
Female quick coupler and nipple to connect pump suction hose with waste oil drainers. In their turn drainers must be equipped with male quick coupler.

Aticle with seals in	VITON		33125
Aticle with seals in	NBR	33550	
Ratio		1:1	1:1
Capacity	l/min	40	23
Pump	Art.	33/2011NHHV2	33070
Flexible suction tube 2 m	Art.	38026	38026
Air inlet flow regulator	Art.	37803	37803
Wall bracket	Art.	33590	33115
Packing	N° - m³	1 - 0,030	1 - 0,029
Weight	Kg	14	8,4
Distance (A)	cm	150	150



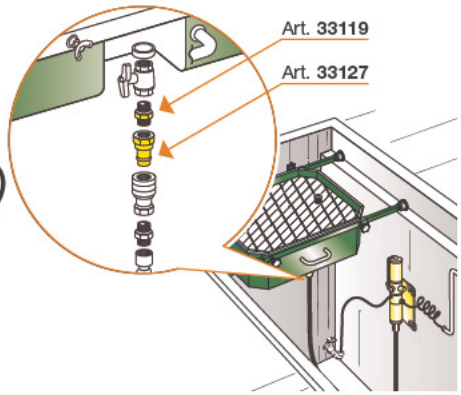


To connect waste oil drainers with above mentioned emptying kit it is necessary to mount a male quick coupler. Depending on the kind of waste oil drainers (standard, for pit or floor mounted) a different nipple must be used as shown in the examples **(Pic. 1 - 2 - 3).**

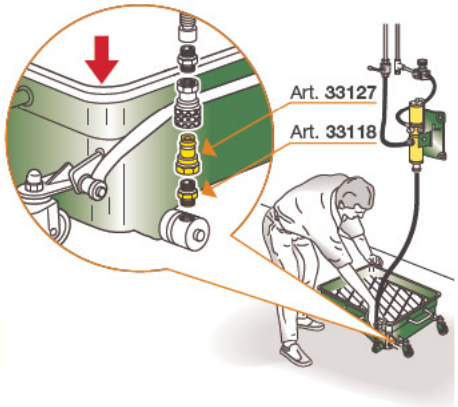


3 Standard waste oil drainer

1 Pit waste oil drainer



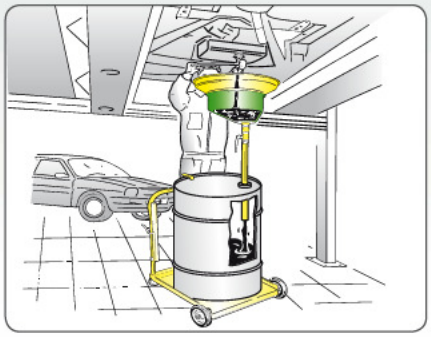
2 Floor waste oil drainer

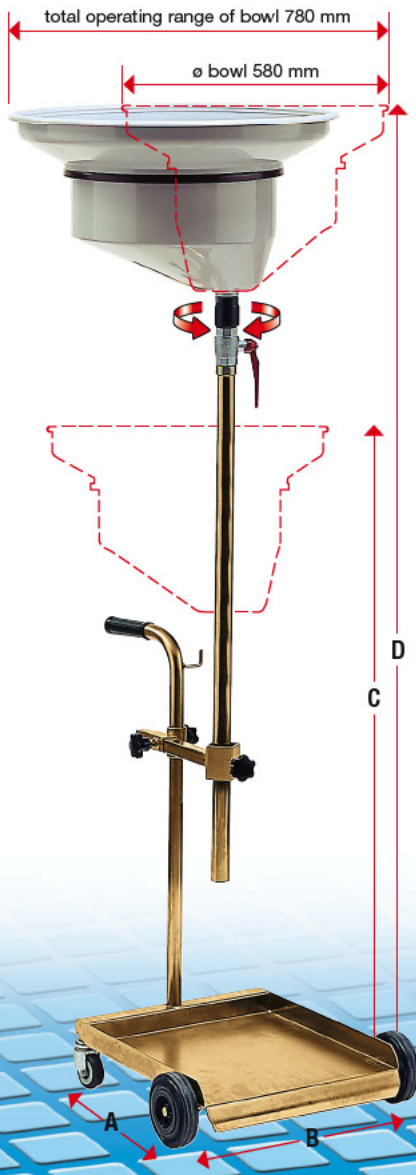


Waste oil drainers for DRUM

15 litre adjustable bowl

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.

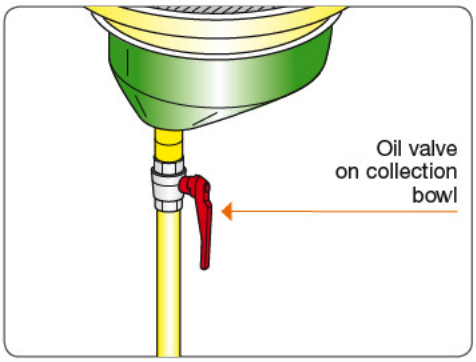


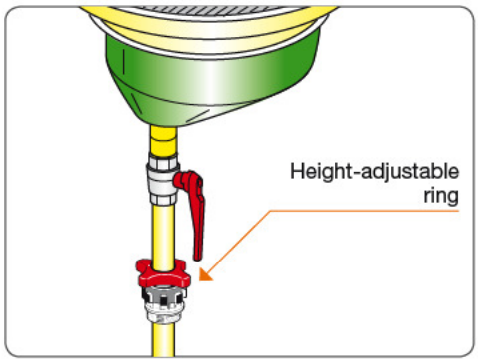


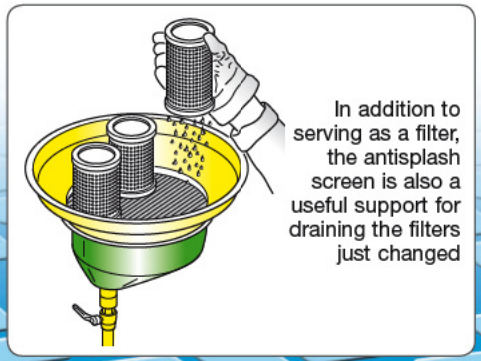
	adjustable bowl	wheel-mounted	wheel-mounted
Article	42004	42050	42000
Trolley capacity litres	-	20 - 60	180 - 220
trolley Art.	-	80050	80200
Bowl capacity litres	15	15	15
Antisplash screen	yes	yes	yes
Drum clamping ring	yes	yes	yes
Packing N° - m³	1 - 0,350	2 - 0,120	2 - 0,150
Weight kg	9	17	29
Dimensions (A - B - C) cm	58 - 58 - 115	64 - 50 - 120	70 - 77 - 130
Max dimensions (D) cm	115	180	180

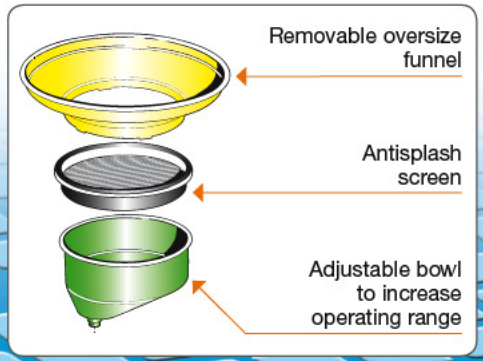
Caution: do not use with flammable or corrosive liquids

Details and advantages



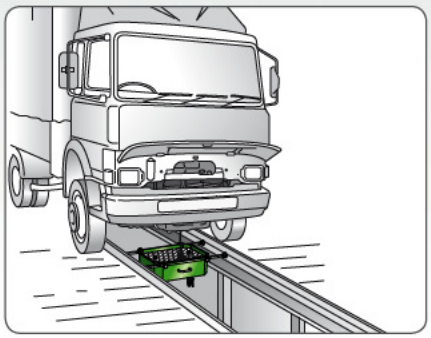


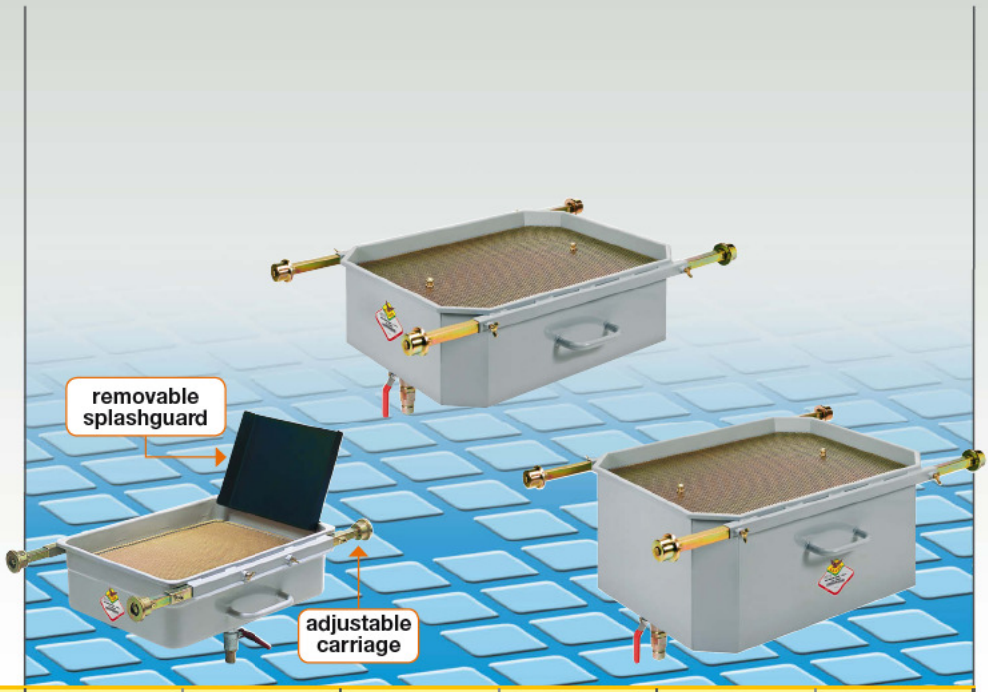




Waste oil pit drainer

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

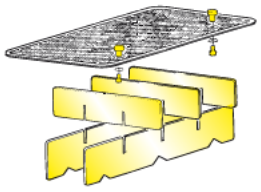


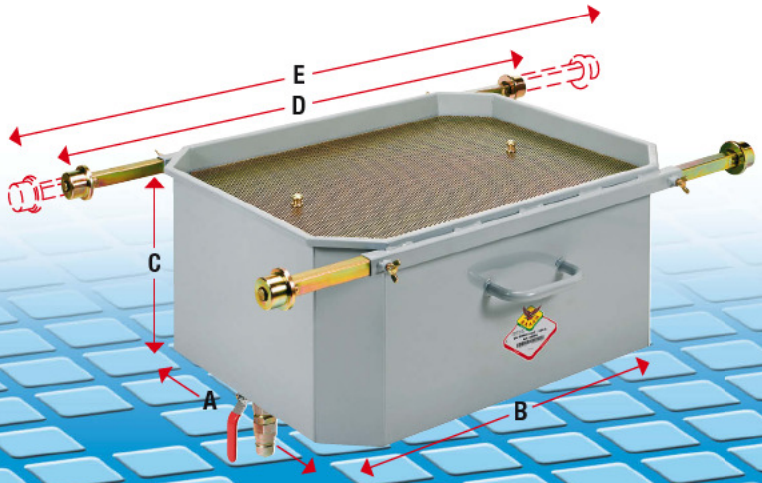


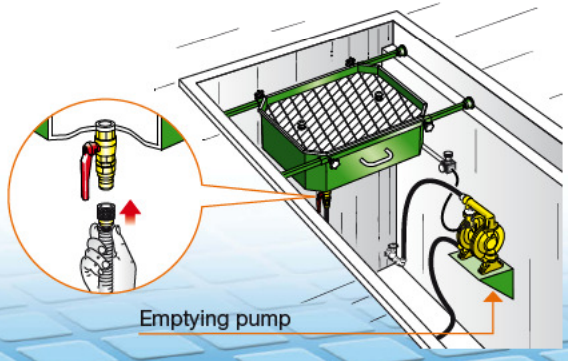
Article	42059	42060	42061	42062	42055	42056
Tank capacity litres	65	65	110	110	150	150
Wheels	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage	adjustable carriage
Emptying	by suction	by gravity	by suction	by gravity	by suction	by gravity
Equipped with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

Caution: do not use with flammable or corrosive liquids

Antisplash screen



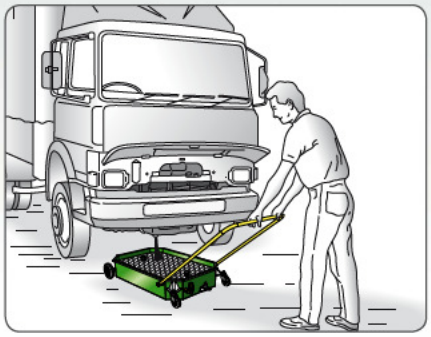


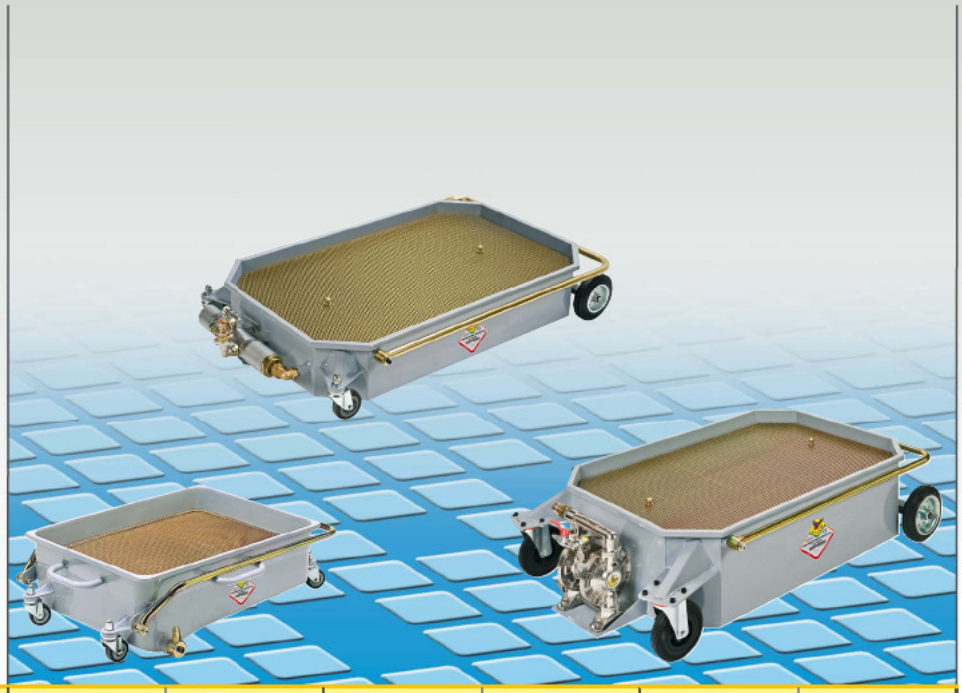


The drained oil can be transferred from the collection bowl to the storage tank by gravity or by using an emptying pump connected to the fixed system

Waste oil **floor drainer**

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

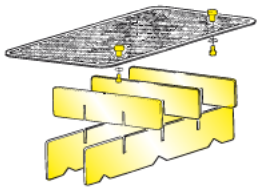


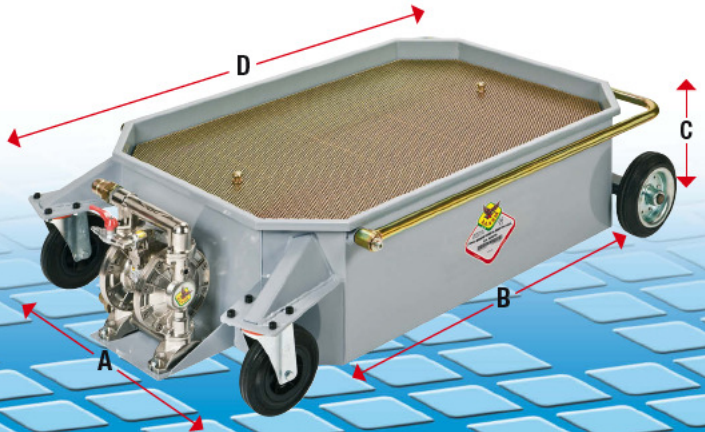


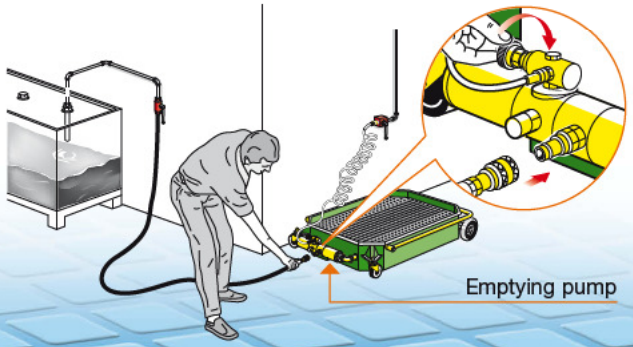
Article	42069	42070	42072	42073	42075	42076
Tank capacity litres	50	50	95	95	150	150
Wheels	4 castors	4 castors	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed	2 castors + 2 fixed
Emptying	by suction	by suction	by suction	pneumatic	by suction	pneumatic
Equipped with	quick-release connector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

Caution: do not use with flammable or corrosive liquids

Antisplash screen







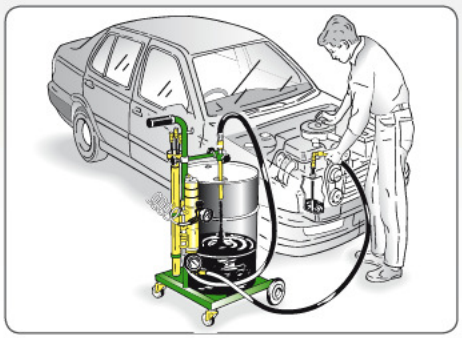
The drained oil can be transferred from the collection bowl to the storage tank by suction with the incorporated probe or by an emptying pump connected to the fixed system or mounted directly on the collection basin

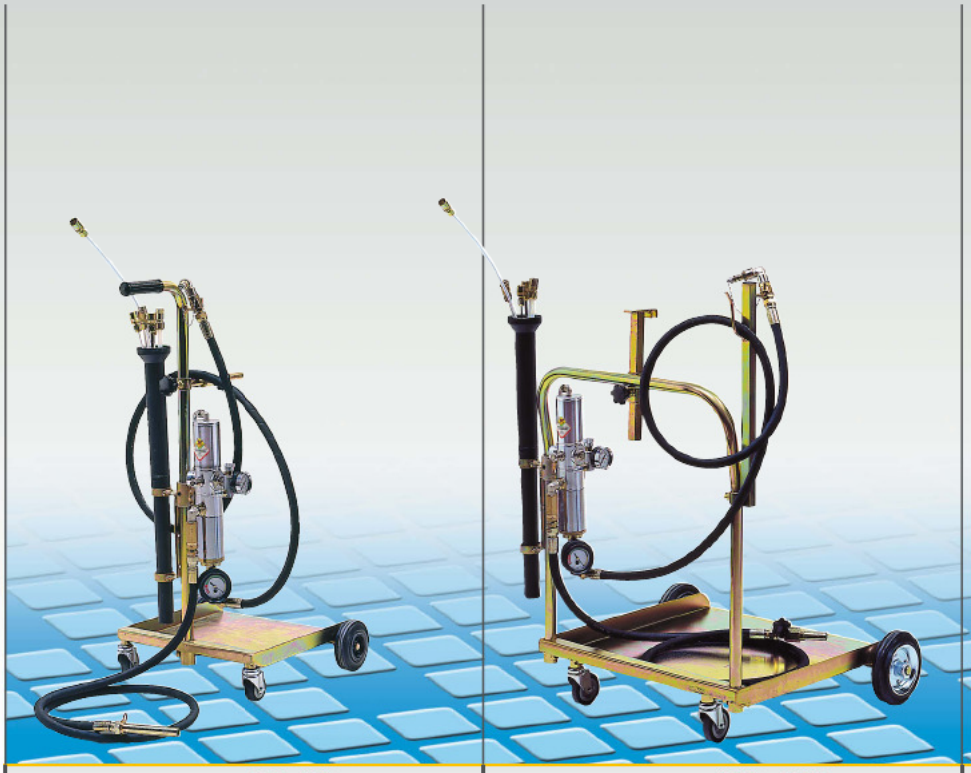
Suction drainer with pump

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.

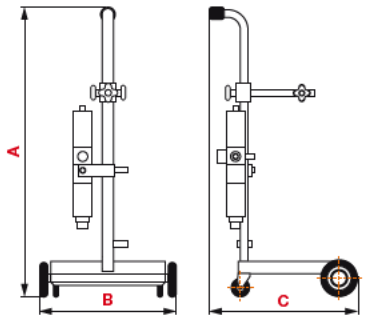




		for drums 30 - 60 kg	for drums 180 - 220 kg
Article		**45150**	**45180**
Pump	Art.	33070/A	33070/A
Max air pressure	bar	6	6
Noise level	dB	81	81
Suitable for drums	kg	30 - 60	180 - 220
Lenght of suction hose	m	1/2" x 2	1/2" x 2
Lenght of draining hose	m	1/2" x 2	1/2" x 2
Suction speed	l/min	1,5 - 2	1,5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

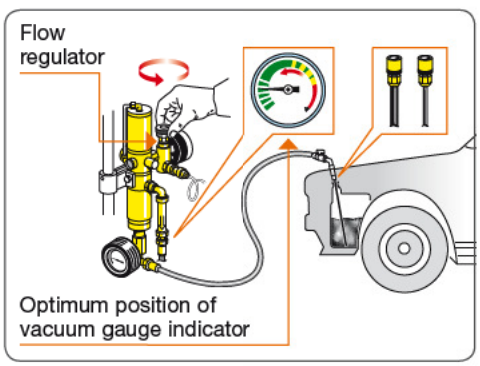
Caution: do not suck any flammable or corrosive liquids

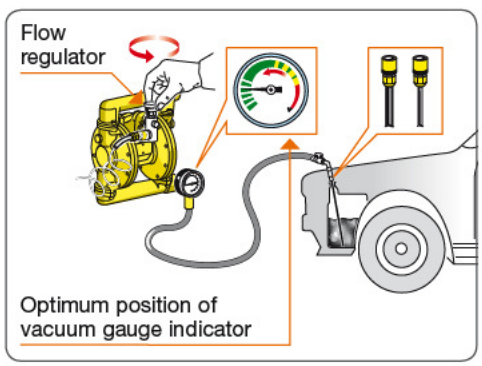
Overall dimensions



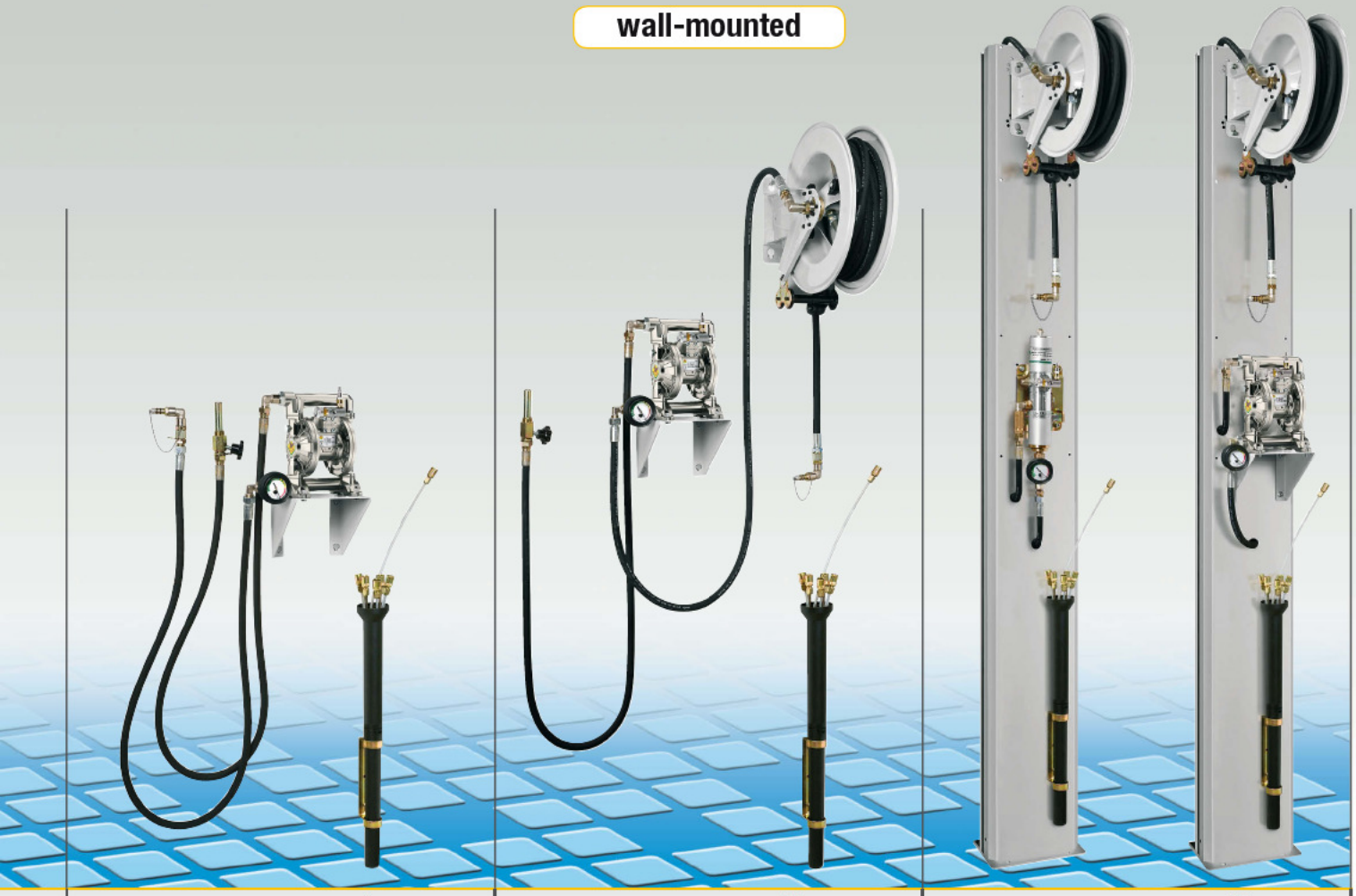
Details and advantages

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



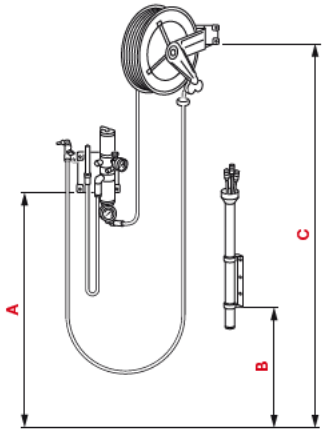


wall-mounted

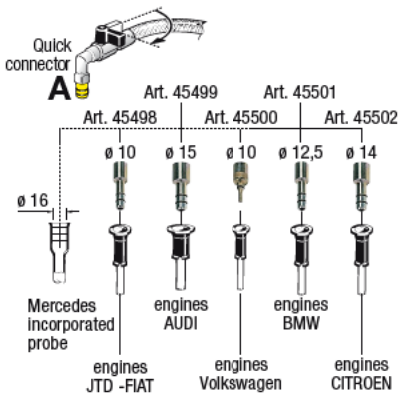


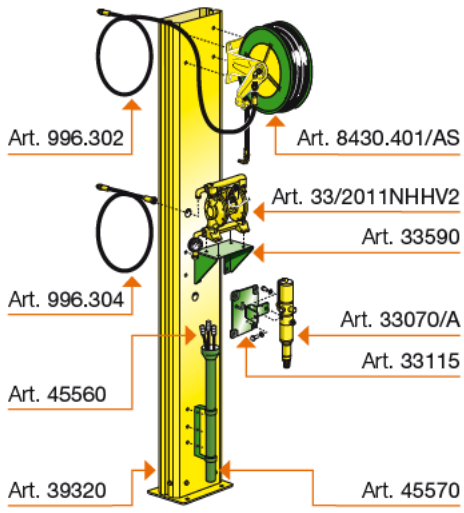
wall-mounted - suction hose 4 m		wall-mounted - suction hose 10 m		columm-mounted - suction hose 10 m	
45100	**45300**	**45110**	**45310**	**45111**	**45311**
33070/A	33/2011NHHV2	33070/A	33/2011NHHV2	33070/A	33/2011NHHV2
6	6	6	6	6	6
81	75	81	75	81	75
wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted
1/2" x 4	1/2" x 4	1/2" x 10	1/2" x 10	1/2" x 10	1/2" x 10
1/2" x 4	1/2" x 4	1/2" x 4	1/2" x 4	1/2" x 4	1/2" x 4
1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2	1,5 - 2
-	-	-	-	-	-
-	-	-	-	39320	39320
33115	33590	33115	33590	33115	33590
45570	45570	45570	45570	45570	45570
		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

Overall dimensions



Connectors for engines with incorporated probe for faster suction of the waste oil





Suction drainer-dispensers
for fuels

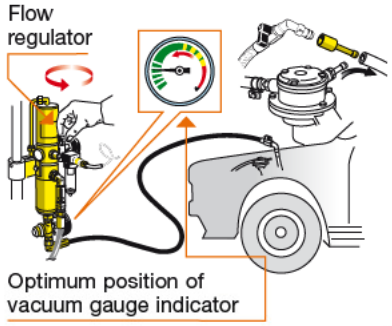
IN ACCORDANCE WITH DIRECTIVE: ATEX 94/9

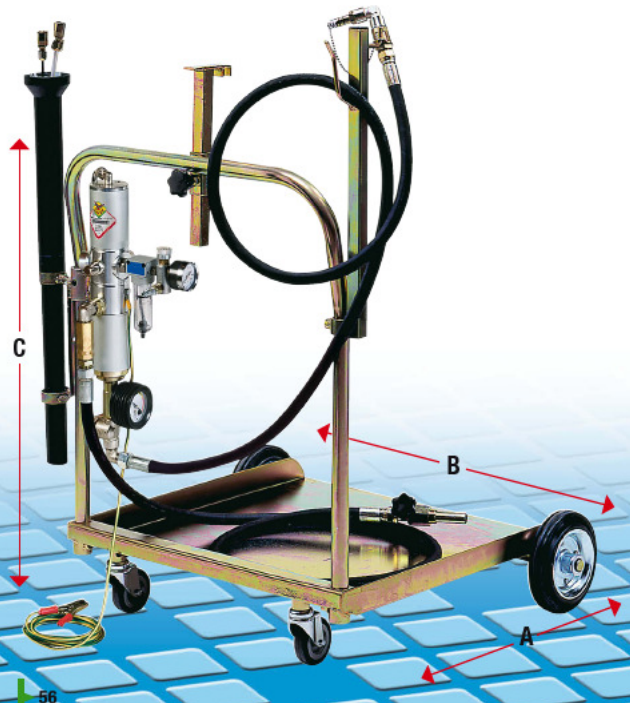
Wheel-mounted air-operated suction systems, for the management of fuels.
The air pump, equipped with special VITON seals, is suitable for **sucking petrol or diesel oil** from any vehicle or motorcycle by means of the probes or connections supplied. The wheel-mounted drainer with pump is easy to handle,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

		wall-mounted	wheel mounted for drums 30 - 60 kg	wheel mounted for drums 180 - 220 kg
Article		**45200**	**45250**	**45280**
Pump suction	Art.	-	33070/A	33070/A
Max pressure air to pump	bar	4	4	4
Noise level	dB	81	81	81
Suitable for drums	kg	-	50 - 60	180 - 220
Lenght of suction hose	m	-	2	2
Lenght of draining hose	m	-	2	2
Suction speed	l/min	5 - 10	5 - 10	5 - 10
Trolley	Art.	-	80050	80200
Wall bracket	Art.	33115	-	-
Set of probes	Art.	-	probe ø 8 - probe ø 12	probe ø 8 - probe ø 12
Connections for tubes ø 6 - 8 - 10	Art.	-	45290 - 45291 - 45292	45290 - 45291 - 45292
Earth connection 3 m		yes	yes	yes
Packing	N° - m³	1 - 0,015	2 - 0,080	2 - 0,113
Weight	kg	6,2	19,5	32,1
Dimensions (A - B - C)	cm	13,6 - 6,5 - 36	50 - 50 - 100	76 - 67 - 87

Details and advantages

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





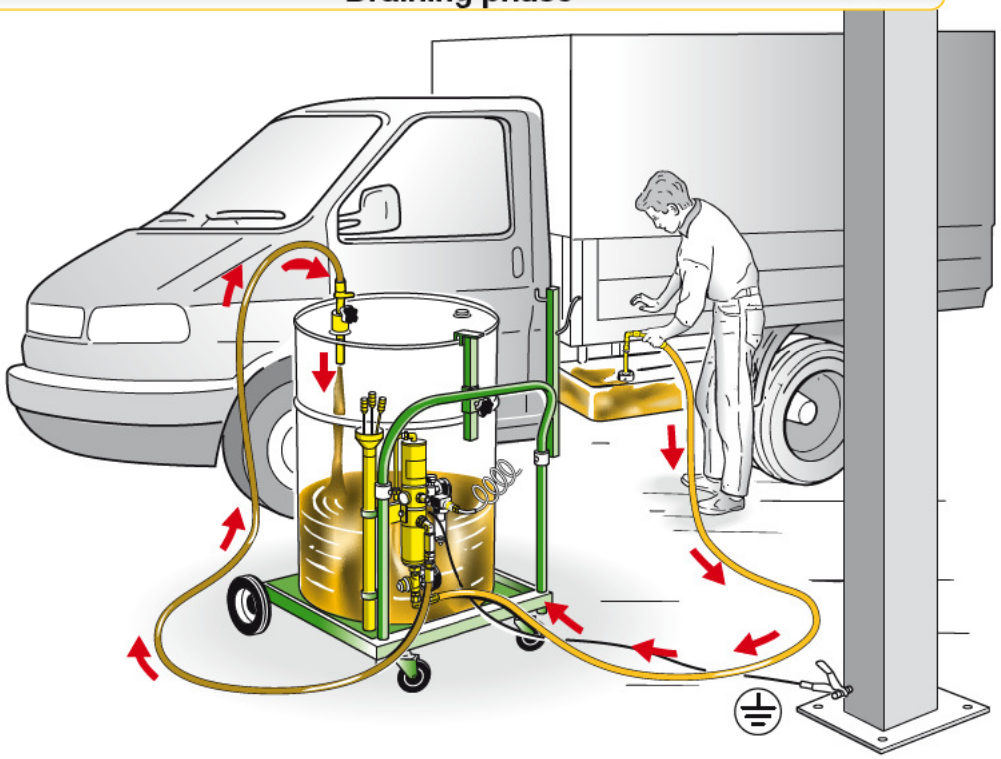
Art. **45290**
Connection for tube ø 6

Art. **45291**
Connection for tube ø 8

Art. **45292**
Connection for tube ø 10

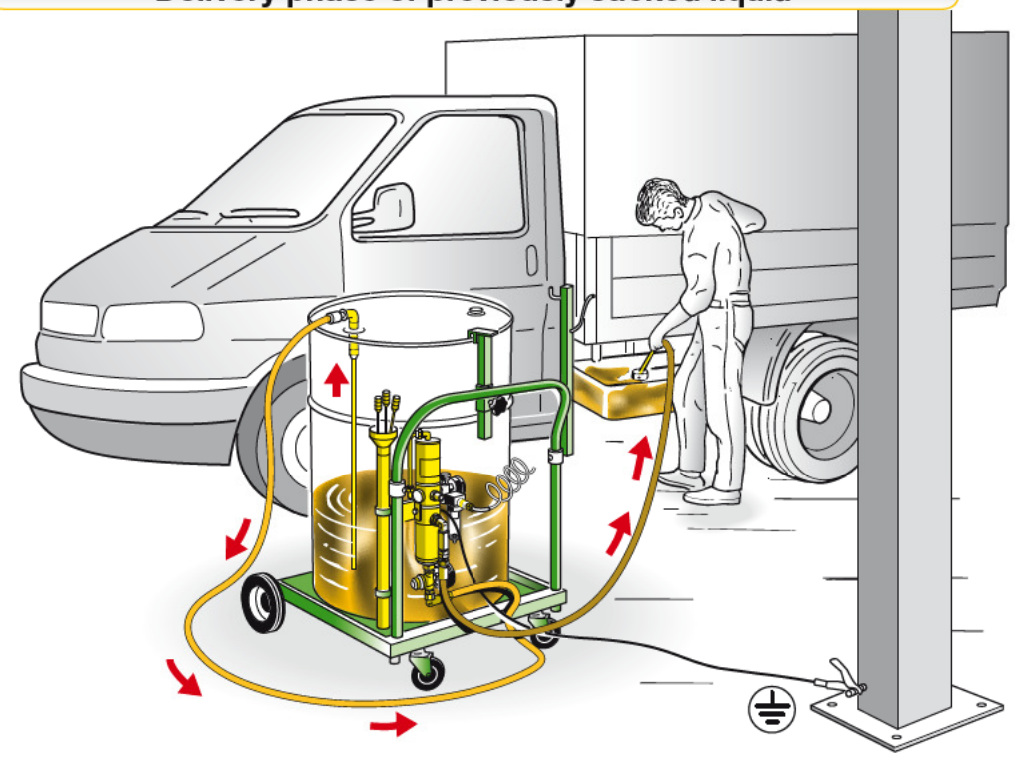
Dual use

Draining phase



Draining occurs by means of one of the probes supplied. For fuels use the ø 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