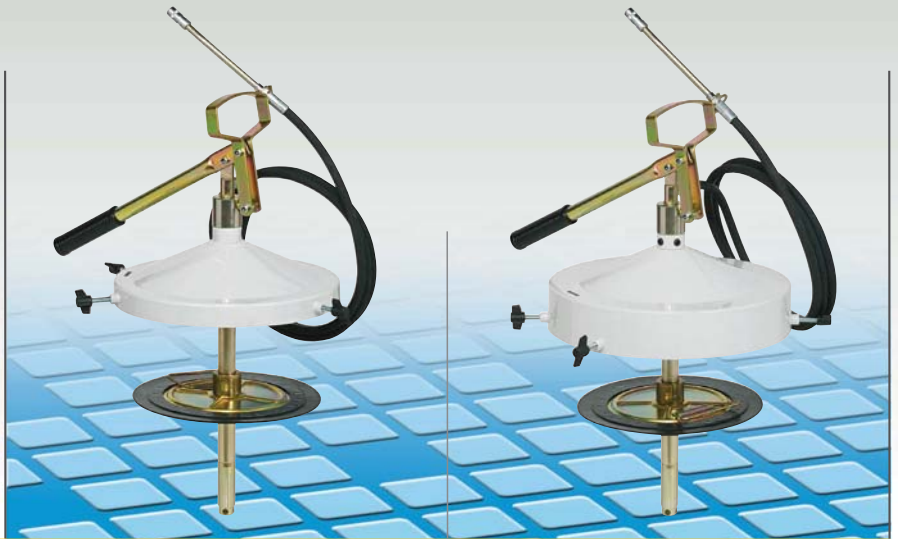




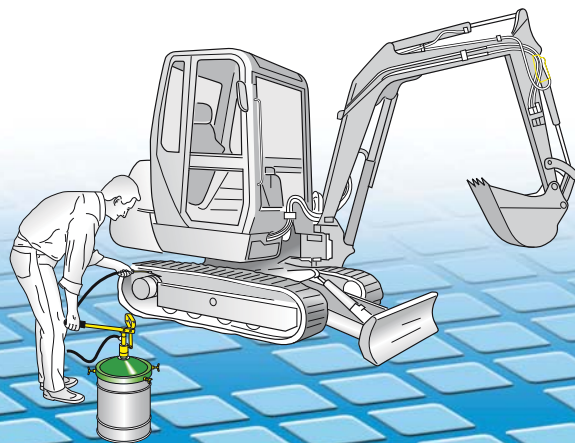
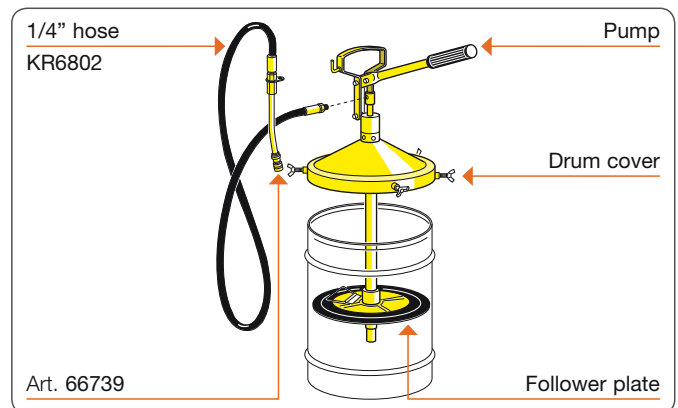
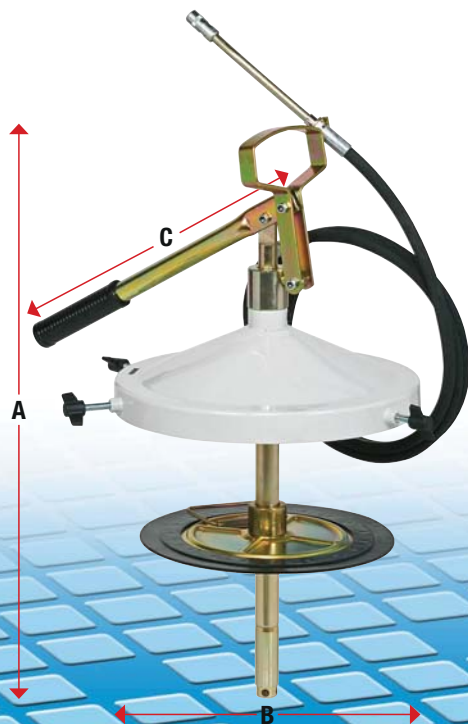
# Manual grease pumps

high pressure **350 bar**

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



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



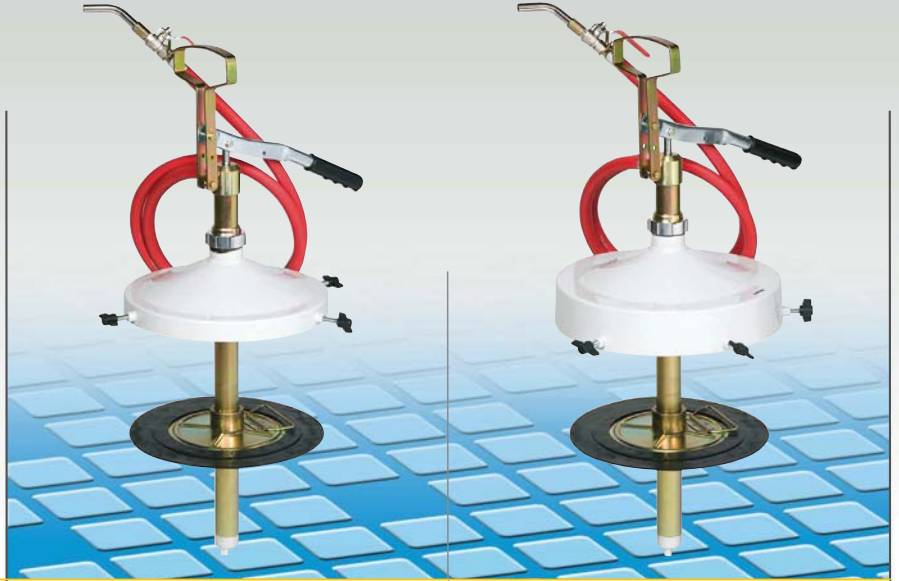


# Manual grease pumps

low pressure transferring 20 bar

## Portable manual lever-operated grease transfer pumps.

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



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

### Art. 60450

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

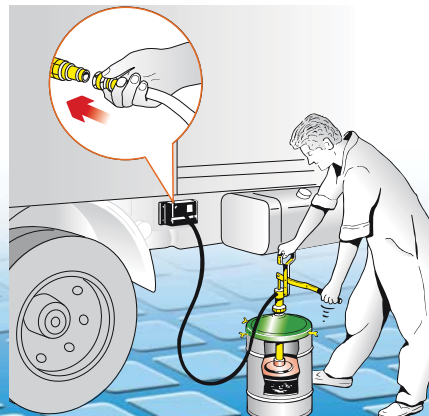
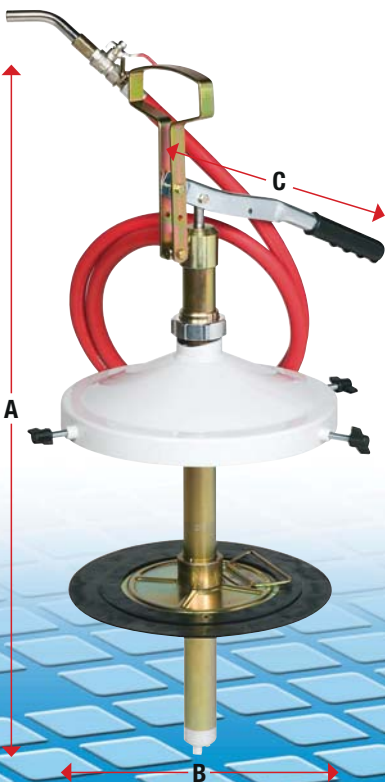
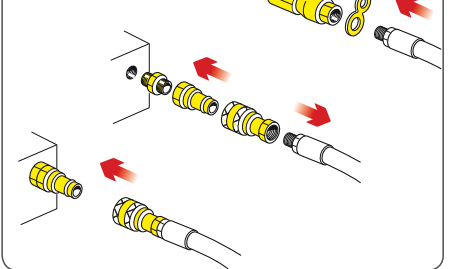


### Art. 60451

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



### Quick connect coupling



Filling central greasing system



Transfer in small drums



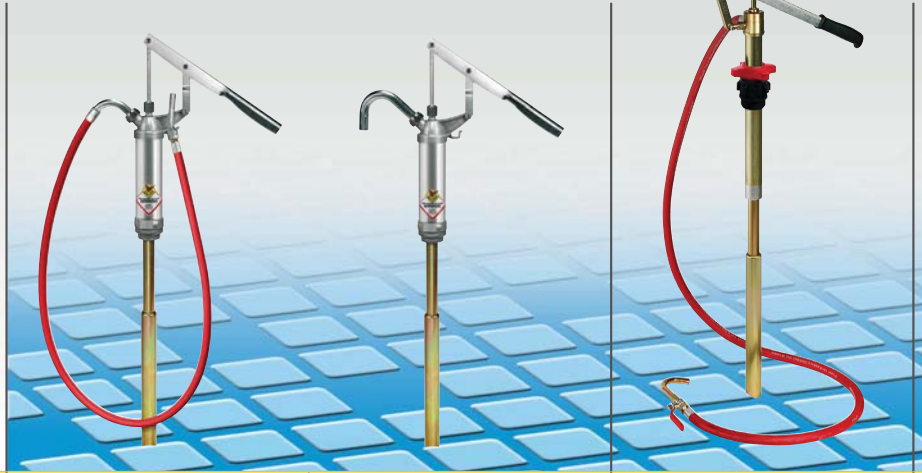


# Manual pumps oil and similar

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° - m <sup>3</sup>	1 - 0,016	1 - 0,016	1 - 0,016
Weight	kg	4,2	4,0	4,4
Dimensions (A - B - C)	cm	5,7 - 5,7 - 138	5,7 - 5,7 - 138	3,8 - 3,8 - 115

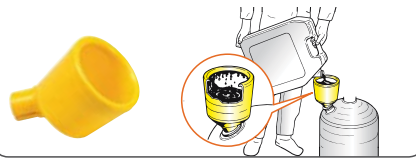
Caution: do not use with flammable or corrosive liquids



### Art. 24891

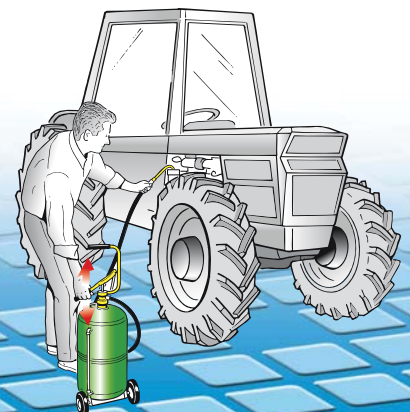
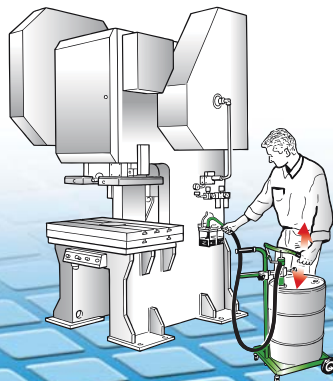
#### Antisplash funnel

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



### Art. 32713

**Digital litre-counter**  
complete with  
connection unions



**double-acting**

**double-acting pump**

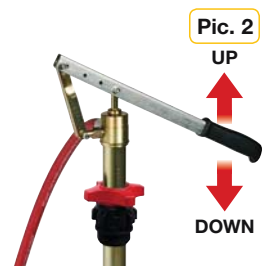


30050	32016	32024	32065
-	<b>16</b>	<b>24</b>	<b>65</b>
<b>30 - 60</b>	-	-	-
2	2	2	2
0,7 - 1,04	-	-	-
220	220	220	220
240	240	240	240
38044	-	-	-
80050	-	-	-
-	24891	24891	24891
2 - 0,040	1 - 0,080	1 - 0,090	2 - 0,185
13,6	10,6	13,7	24
46 - 50 - 123	25,5 - 22,5 - 86	28 - 33 - 89	60 - 42 - 88

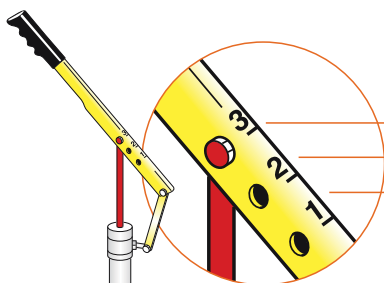
**Single-action** (Pic. 1) occurs when the pumping piston delivers the fluid only in the pumping lever downstroke



**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



**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