

MADE IN ITALY



Production of Lubrication Equipment and Fluid Monitoring Systems



ORODUCTION



GENERAL CATALOGUE





THE EVOLUTION OF OUR PRODUCTION









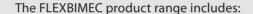
FLEXBIMEC was founded in 1974 as a manufacturer of hydraulic components.

The knowledge acquired in that field enabled the company to specialize itself in the production of dispensing systems for lubricants, developing over the years a broad range of lubrication equipment.

The first product manufactured by Flexbimec was the pneumatic pump which very quickly became well – known for its easy handling and for its reliability.



Thanks to a continuous and careful technical development, Flexbimec is able to offer a range of reliable and market – oriented products for the supply and the monitoring of lubricants.



- · Grease supply equipment;
- · Oil supply and electronic, computer based oil monitoring equipment;
- Diesel supply and electronic, computer based diesel monitoring equipment;
- · Compressed air supply and washing equipment;
- Equipment for the mixing and dosing of fluids:
- Equipment for the collection, handling and storage of waste fluids, particularly of waste oils;

Flexbimec equipment is used in various applications such as in car, motorbike and commercial vehicle workshops, for industrial and agricultural machinery maintenance, in car wash sites, or in boat and ship maintenance.

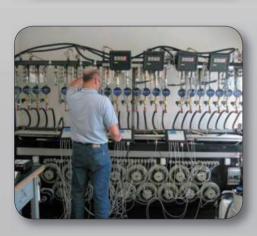
Besides of manufacturing the products, FLEXBIMEC is also projecting, installing and maintaining **turnkey facilities** for the handling and monitoring of lubricants in

























car, motorbike and commercial vehicle workshops. Until now Flexbimec has done more than 500 of those lubrication facilities based on the individual requirements of its customers.

The products are distributed through a worldwide network of dealers with a continuously growing export rate.

In 2006 Flexbimec has started a process of logistical restructuring and internal expansion in its plant which is situated on a total surface of 63.000 m² with a covered area of approx. 7.000 m² dedicated to the R & D and to the production. Also there are special areas for technical training, showroom and the testing of new products included.

Flexbimec has a modern organization with a quality assurance system according to **UNI EN ISO 9001:2008**.

Service and consulting are other strong arguments of the company: the customer is continuously accompanied by technically qualified staff in order to identify each of his requirements and to offer satisfying solutions to him.

Flexbimec has issued this new catalogue as a guide for your requirements regarding lubrication equipment, starting from the most simple accessory up to complete, computerized fluid monitoring systems.

Our company is sure that the variety of the innovative product range which has been developed by a continuous research of the user requirements, will help you to select and to install the equipment most suitable to simplify your daily work.









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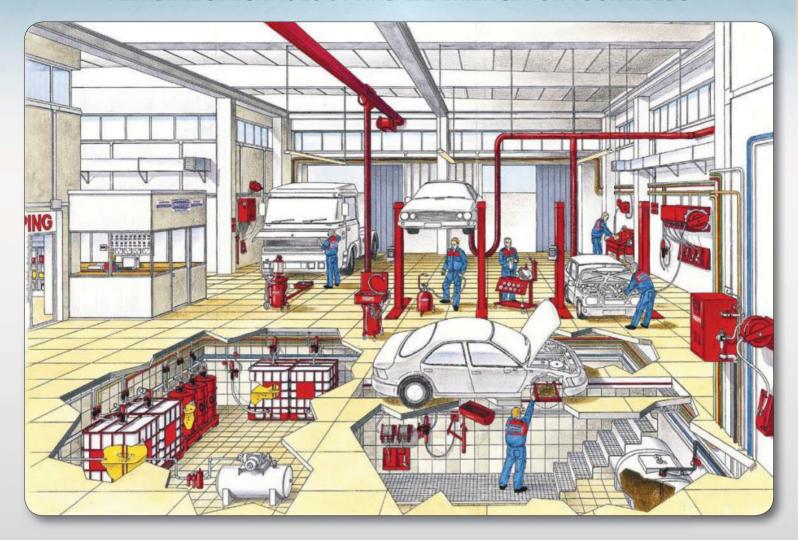


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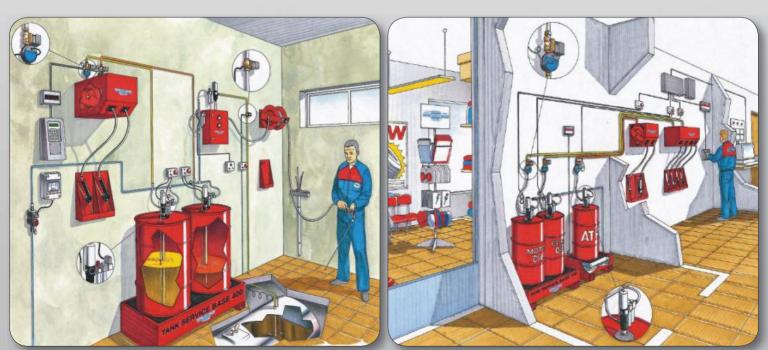
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FLEXBIMEC TECHNOLOGY AND EXPERIENCE FOR YOUR NEEDS



YOUR SPECIALISTS IN LUBRICATION EQUIPMENT





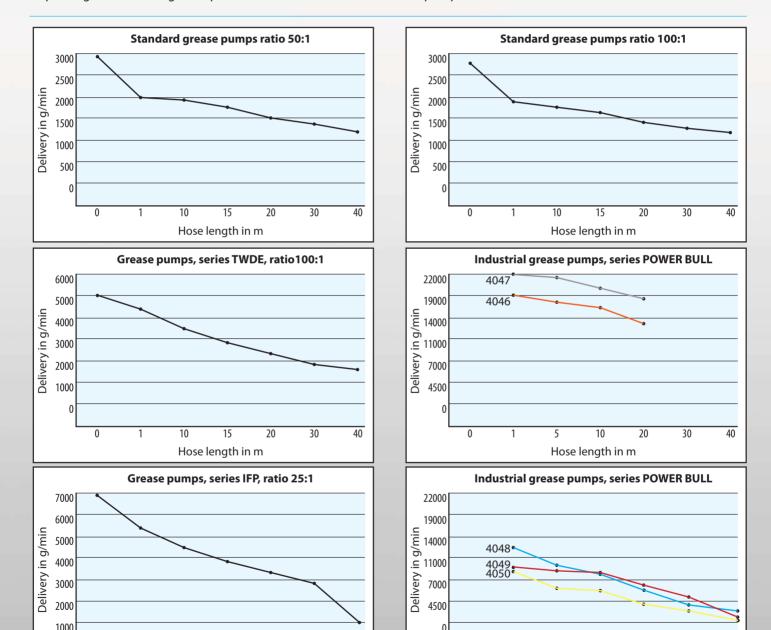
FLEXBIMEC pneumatic grease pumps are a well - proven product line since many years. The brass and aluminum alloy pneumatic motor assures a reliable use and a simple maintenance. The pumping system includes a rod in hardened steel, suitable also for heavy duty applications. The gaskets and seals are suitable for the use with almost all multipurpose greases on the basis of mineral oil from viscosity NLGI 00 up to NLGI 3.

The choice of the suitable pump for the individual application depends a lot on the type and the characteristics of the lubricant that shall be pumped.

Pumping grease means to move a high viscosity fluid which at the dispensing point presents a dense condition.

The VISCOSITY of a fluid describes its capability to resist the movements of its particles.

The COMPRESSION RATIO describes the ratio between the surface of the piston inside of the pump motor and the surface of the piston that is pumping the fluid. The bigger this value is, the higher is the outlet pressure of the fluid. Since greases are mixtures of mineral oils and soaps (dense, inorganic substances) and therefore have a high viscosity, it is necessary to use pumps for the dispensing that have a high compression ratio such as 50:1 – or 100:1 – pumps.



The charts are only indications and cannot consider all factors affecting the pumping result such as viscosity, temperature, dimension of hose or pipe, pumping distance, etc.

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Test conditions:

10

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Hose length in m

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lithium grease NLGI 0 – ambient temperature 22°C - inlet pressure (compressed air) 8 bar – Free 1/2" for 50:1 and 100:1 - pumps, standard series, 1" for pump series Power Bull and TWDE

Grease

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Hose length in m

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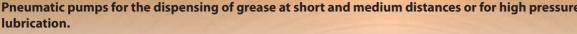
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PNEUMATIC PISTON GREASE PUMPS STANDARD SERIES

Pneumatic pumps for the dispensing of grease at short and medium distances or for high pressure





Art. no. 4018





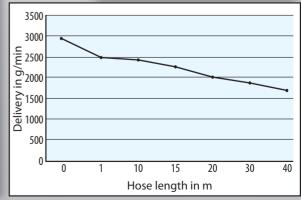


Art. no. **4080**

Compression

Art. no.	4018	4020	4060	4080
Compressed air supply		Pressure min 2	bar, max 8 bar	
Compression ratio	50:1	50:1	50:1	50:1
Outlet pressure	400 bar	400 bar	400 bar	400 bar
Delivery	2900 g/min	2900 g/min	2900 g/min	2900 g/min
Connection compressed air	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)
Connection lubricant outlet	1/4" BSP (M)	1/4" BSP (M)	1/4" BSP (M)	1/4" BSP (M)
Max air consumption with 8 bar pressure	78 l/min	78 l/min	78 l/min	78 l/min
Length suction tube	335 mm	450 mm	750 mm	950 mm
Diameter suction tube	28 mm	28 mm	28 mm	28 mm
Dimensions LxWxH (mm)	95x95x690	95x95x780	95x95x1005	95x95x1250
Suitable for pails / drums of	16 kg	18 - 25 kg	50 kg	180 kg
Weight	3,8 kg	4,2 kg	5 kg	5,6 kg





See accessories on pages 30 – 37!

The a.m. performance values are based upon the following test conditions: lithium grease NLGI 0 at 22°C -- Compressed air pressure 8 bar -- free flow outlet 1/2".



PNEUMATIC PISTON GREASE PUMPS STANDARD SERIES

Pneumatic pumps for the dispensing of grease at long distances or for high pressure lubrication.

100:1 Compression ratio



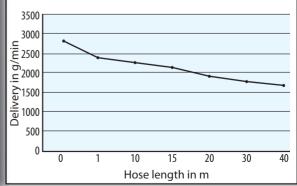






Art. no.	4019	4021	4061	4081
Compressed air supply		Pressure min 2	bar, max 8 bar	
Compression ratio	100:1	100:1	100:1	100:1
Outlet pressure	800 bar	800 bar	800 bar	800 bar
Delivery	2700 g/min	2700 g/min	2700 g/min	2700 g/min
Connection compressed air	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)
Connection lubricant outlet	1/4" BSP (M)	1/4" BSP (M)	1/4" BSP (M)	1/4" BSP (M)
Max air consumption with 8 bar pressure	110 l/min	110 l/min	110 l/min	110 l/min
Length suction tube	335 mm	450 mm	750 mm	950 mm
Diameter suction tube	28 mm	28 mm	28 mm	28 mm
Dimensions LxWxH (mm)	95x95x690	95x95x780	95x95x1005	95x95x1250
Suitable for pails / drums of	16 kg	18 - 25 kg	50 kg	180 kg
Weight	3,8 kg	4,2 kg	5 kg	5,6 kg





See accessories on pages 30 – 37!

The a. m. performance values are based upon the following test conditions: lithium grease NLGI 0 at 22°C -- Compressed air pressure 8 bar -- free flow outlet 1/2".

Pag. 11 Grease



PNEUMATIC PISTON GREASE PUMPS SERIES IFP

25:1 Compression ratio

Pneumatic pumps for the transfer of grease or high viscosity oils at a constant pressure. Suitable also for the use as grease refilling pumps for centralized lubrication systems.

7:1 Compression ratio

45:1 Compression ratio



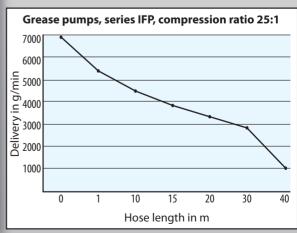








Art. no.	4043	4022	4062	4082	4083
Compressed air supply		Pressure	min 2 bar, m	ax 8 bar	
Compression ratio	7:1	25:1	25:1	25:1	45:1
Outlet pressure	56 bar	200 bar	200 bar	200 bar	360 bar
Delivery	9800 g/min	7000 g/min	7000 g/min	7000 g/min	6900 g/min
Connection compressed air	3/8" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)
Connection lubricant outlet	3/4" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)
Max air consumption with 8 bar pressure	165 l/min	78 l/min	78 l/min	78 l/min	78 l/min
Length suction tube	950 mm	450 mm	750 mm	950 mm	950 mm
Diameter suction tube	33 mm	28 mm	28 mm	28 mm	28 mm
Dimensions LxWxH (mm)	95x95x1250	95x95x690	95x95x780	95x95x1005	95x95x1250
Suitable for pails / drums of	180 kg	18 - 25 kg	50 kg	180 kg	180 kg
Weight	6 kg	4,2 kg	5 kg	5,6 kg	5,8 kg



See accessories on pages 30 – 37!

The a. m. performance values are based upon the following test conditions: lithium grease NLGI 0 at 22°C -- Compressed air pressure 8 bar -- free flow outlet 3/4".



PNEUMATIC PISTON GREASE PUMPS TWDE SERIES

Pneumatic pumps for the dispensing of grease – particularly high viscosity grease – or for high pressure lubrication at long distances. These pumps combine a high compression ratio with an innovative constructional concept that permits to increase the delivery of the pump considerably. In the TWD Evolution series the escape of compressed air is facilitated by the use of a double distributor which at the same time reduces the formation of condensation water inside of the pump motor.

100:1 Compression ratio

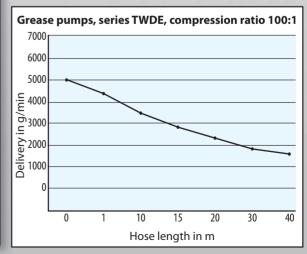








Art. no.	4019 TWDE	4021TWDE	4061TWDE	4081TWDE
Compressed air supply		Pressure min 2	bar, max 8 bar	
Compression ratio	100:1	100:1	100:1	100:1
Outlet pressure	800 bar	800 bar	800 bar	800 bar
Delivery	5000 g/min	5000 g/min	5000 g/min	5000 g/min
Connection compressed air	3/8" BSP (F)	3/8" BSP (F)	3/8" BSP (F)	3/8" BSP (F)
Connection lubricant outlet	1/2" BSP (M)	1/2" BSP (M)	1/2"BSP (M)	1/2" BSP (M)
Max air consumption with 8 bar pressure	165 l/min	165 l/min	165 l/min	165 l/min
Length suction tube	335 mm	450 mm	750 mm	950 mm
Diameter suction tube	28 mm	28 mm	28 mm	28 mm
Dimensions LxWxH (mm)	95x95x690	95x95x780	95x95x1005	95x95x1250
Suitable for pails / drums of	16 kg	18 - 25 kg	50 kg	180 kg
Weight	3,9 kg	4,3 kg	5,1 kg	5,7 kg



See accessories on pages 30 - 37!

The a. m. performance values are based upon the following test conditions: lithium grease NLGI 0 at 22°C -- Compressed air pressure 8 bar -- free flow outlet 1/2".

Pag. 13 Grease



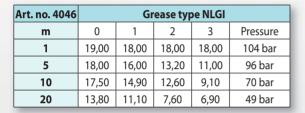
PNEUMATIC PISTON GREASE PUMPS INDUSTRIAL PUMP SERIES "POWER BULL"

Heavy duty pneumatic pumps, industrial pump series "Power Bull", designed for the supply of grease under demanding conditions. Particularly suitable for the grease distribution in pipeworks and installations where a simultaneous supply of grease is required on different dispensing points at high pressure and/or with a high delivery.

The high quality of the materials used in order to realize the innovative constructional concept of the pneumatic motors of this series, guarantees the following characteristics and advantages:

- Efficiency of a continuous flow,
- Low loudness,
- Limited number of piston strokes,
- Low vibrations,
- Easy handling and interchangeability of components,
- System of condensation water draining, to avoid the pulverization into the surrounding area,
- Wide variety of accessories.

The pumps are available in various models with different compression ratios and delivery performances so that they offer a solution for all principal requirements in applications.



Art. no. 4047	Grease type NLGI					
m	0	1	Pressure			
1	22,00	21,00	21,00	21,00	56 bar	
5	21,50	20,00	16,90	14,20	38 bar	
10	20,00	18,40	15,00	12,10	20 bar	
20	18,60	17,00	10,20	7,40	14 bar	



Art. no. 4048	Grease type NLGI					
m	0	1	2	3	Pressure	
1	15,00	12,70	11,60	9,30	240 bar	
5	14,60	4,60 10,30 8,50 5,30 200		200 bar		
10	10,50	8,00	6,20	3,80	165 bar	
20	8,60	5,20	4,10	3,10	140 bar	
30	6,50	4,40	3,80	2,20	130 bar	
40	5,30	4,10	3,40	1,70	110 bar	
50	4,20	3,80	6,00	0,80	85 bar	
70	3,00	2,50	1,80	0,30	60 bar	

Art. no. 4049	Grease type NLGI					
m	0	1	2	3	Pressure	
1	13,10	9,60	8,60	7,80	400 bar	
5	12,90	2,90 9,00 7,90 5,60 360		360 bar		
10	12,20	8,20	6,70	4,00	240 bar	
20	10,60	6,40	4,80	2,30	220 bar	
30	8,80	4,70	3,10	2,10	180 bar	
40	8,00 3,20 2,50 1,7		1,70	150 bar		
50	7,60	2,80	2,20	1,40	110 bar	
70	7,20	2,50	1,90	0,90	85 bar	

Art. no. 4050		Gre	ase ty	pe NLC	il	
m	0	1	2	3	Pressure	
1	7,00	6,30	5,70	5,10	720 bar	
5	6,80	5,80	5,20	4,10	680 bar	
10	6,40	5,30	4,70	3,50	420 bar	
20	5,90	4,30	3,50	2,10	400 bar	
30	4,80	3,30	2,90	1,90	370 bar	
40	4,50	2,90	2,50	1,70	340 bar	
50	4,30	2,60	2,20	1,60	250 bar	
70	4,00	2,20	2,10	1,30	180 bar	

Grease type NLGI 0

		Art. no. Pump							
	m	4046	4047	4048	4049	4050			
	1	19,00	22,00	15,00	13,00	7,00			
	5	18,00	21,50	14,60	12,50	6,80			
length	10	17,50	20,00	10,50	11,60	6,40			
enç	20	13,80	18,60	8,60	10,00	5,90			
se	30			6,50	8,60	4,80			
Hose	40			5,30	6,00	4,50			
	50			4,20	5,40	4,30			
	70			3,00	4,00	4,00			

Grease type NLGI 2

		Art. no. Pump							
	m	4046	4047	4048	4049	4050			
	1	18,00	21,00	11,60	8,60	5,70			
	5	13,20	16,90	8,50	7,90	5,20			
length	10	12,60	15,00	6,20	6,70	4,70			
enç	20	7,60	10,20	4,10	4,80	3,50			
Hose l	30			3,80	3,10	2,90			
Но	40			3,40	2,50	2,50			
	50			6,00	2,20	2,20			
	70			2,00	1,90	2,10			

The a. m. performance values refer to the pump delivery expressed in kg/min

Grease type NLGI 1

			Art	. no. Pu	mp	
	m	4046	4047	4048	4049	4050
	1	18,00	21,00	12,70	9,60	6,30
	5	16,00	20,00	10,30	9,00	5,80
th.	10	14,90	18,40	8,00	8,20	5,30
enç	20	11,10	17,00	5,20	6,40	4,30
Hose length	30			4,40	4,70	3,30
운	40			4,10	3,20	2,90
	50			3,80	2,80	2,60
	70			1,80	2,50	2,20

Grease type NLGI 3

			Art	. no. Pu	mp	
	m	4046	4047	4048	4049	4050
	1	18,00	21,00	9,30	7,80	5,10
	5	11,00	14,20	5,30	5,60	4,10
yth	10	9,10	12,10	3,80	4,00	3,50
Hose length	20	6,90	7,40	3,10	2,30	2,10
se l	30			2,20	2,10	1,90
Н	40			1,70	1,70	1,70
	50			0,80	1,40	1,60
	70			0,30	0,90	1,30
	70			0,50	0,50	1,50

The a. m. performance values are based upon the following test conditions:

Compressed air pressure 8 bar - temperature 24°C - rubber outlet hose Ø 1" for the art. nos. 4048 - 4049 - 4050 and rubber outlet hose Ø 1' 1/2" for the art. nos. 4046 and 4047.



PNEUMATIC PISTON GREASE PUMPS INDUSTRIAL PUMP SERIES "POWER BULL"











Art. no.	4046	4047	4048	4049	4050		
Compressed air supply		Pressure	min 2 bar, max	min 2 bar, max 8 bar			
Compression ratio	13:1	7:1	30:1	50:1	90:1		
Max outlet pressure	104 bar	56 bar	240 bar	400 bar	720 bar		
Delivery	19000 g/min	22000 g/min	15000 g/min	12000 g/min	6000 g/min		
Max frequence strokes/min	60	120	150	120	60		
Connection compressed air	1/2" BSP (F)						
Connection lubricant outlet	1" BSP (M)	1" BSP (M)	1"BSP (M)	1" BSP (M)	1" BSP (M)		
Max air consumption with 8 bar pressure	1,80 m ³ /min	1,92 m ³ /min	1,86 m ³ /min	1,92 m ³ /min	1,80 m ³ /min		
Diameter pneumatic piston	160 mm	125 mm	100 mm	125 mm	160 mm		
Diameter suction tube	70x50 mm	70x50 mm	50x22 mm	50x22 mm	50x22 mm		
Suitable for pails / drums of	180 kg						
Weight	26 kg	22 kg	18 kg	22 kg	24 kg		



Art. no. 7180/12 Art. no. 7150/12

Maintenance advise

In order to avoid a slowing-down or even a blocking of the pump due to a freezing of generated condensation water closing the air outlet of the motor, we recommend the installation of the above shown air treatment units at the compressed air connection of the pump.

See accessories on pages 30 - 37!

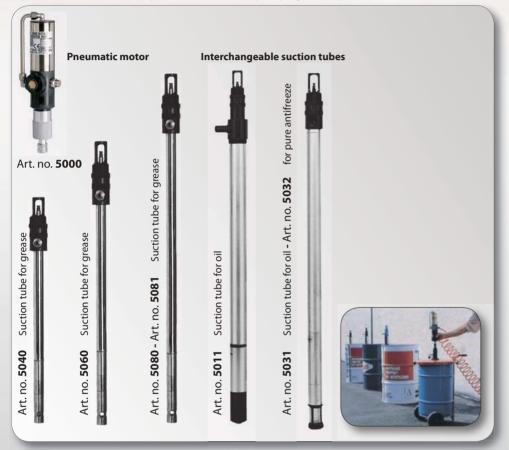
PNEUMATIC PISTON GREASE PUMPS



MOTOMATIC® System Patent no. 32188 C/80

In the year 1986 the innovative MOTOMATIC® – system has been developed and patented. Motomatic® is a pneumatic pumping system which is characterized by the use of a single motor which can be applied on various suction tubes. The pumping system is activated by connecting the motor – which is provided with a quick coupling - to the installed suction tubes that differ depending on the lubricant that shall be pumped.

This solution offers a significant practical and economical advantage for whom must pump greases, oils, antifreeze or diesel, since it allows the user to leave the various suction tubes installed in the drums and to use the same pneumatic motor for pumping the required lubricant.



Art. no. 4025

High pressure pneumatic pump for grease and oil. The pump has been particularly developed for checking eventually existing leakages in hydraulic circuits or in test benches.

Technical data:

- Compressed air supply: min 2 bar max 5 bar
- Air connection: 3/8" BSP (F)
- Pressure max 1100 bar
- Delivery: 800 g/min
- Connection lubricant outlet: 1/4" BSP (M)
- Length suction tube: 450 mm

250:1 Compression ratio



Art. no.	5000	5040	5060	5081	5080	5011	5031	5032	
Compressed air supply	Pressure min 2 bar, max 8 bar								
Compression ratio	-	50:1	50:1	15:1	50:1	1:1	3:1	3:1	
Outlet pressure	-	400 bar	400 bar	120 bar	400 bar	8 bar	24 bar	24 bar	
Delivery	-	2900 g/min	2900 g/min	7000 g/min	2900 g/min	48 l/min	23 l/min	23 l/min	
Connection compressed air	1/4" BSP (F)	-	-	-	-	-	-	-	
Connection lubricant outlet	-	1/4"BSP (M)	1/4"BSP (M)	1/2"BSP (M)	1/4"BSP (M)	3/4"BSP (M)	1/2"BSP (M)	1/2"BSP (M)	
Max air consumption with 8 bar pressure	115 l/min	-	-	-	-	-	-	-	
Length suction tube	-	450 mm	750 mm	950 mm					
Diameter suction tube	-	28 mm	28 mm	28 mm	28 mm	55 mm	40 mm	40 mm	
Dimensions LxWxH (mm)	95x95x420	30x31x550	30x31x850	30x31x1050	30x31x1050	30x31x1050	30x31x1050	30x31x1050	
Suitable for pails / drums of	-	20 kg	50 kg	180 kg	180 kg	208 I	208 l	208 l	
Weight	3,5 kg	1 kg	1,3 kg	1,5 kg	1,5 kg	2,1 kg	1,9 kg	1,9 kg	

See accessories on pages 30 – 37!

The a.m. performance values are based upon the following test conditions:

lithium grease NLGI 0 and hydraulic oil ISO 32 at 22°C — Compressed air pressure 8 bar — free flow outlet.



Complete pneumatic grease supply kit, suitable for any kind of inside or outside use. Max pressure achievable: 400 bar.



Art. no. 4922

Portable and mobile pneumatic grease supply kit with 16 kg – steel pail, consisting of:

- Pneumatic grease pump, art. no. 4018;
- Pressure regulator, art. no. 7200;
- 3 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4503;
- High pressure grease control gun, with 300 mm steel braid outlet hose ø ext. 10 mm and 4 jaws hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate ø 230 mm;
- Steel pail with 2 wheels and carrying handle.

Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4922	400 bar	2400 g/min	1/4"BSP (F)	2-8 bar	11 kg	240x390x930





Art. no. 4921

Art. no. 4921

Portable pneumatic grease supply kit for 18/25 kg - pails, consisting of:

- Pneumatic grease pump, art. no. 4020
- Pressure regulator, art. no. 7200
- 3 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4503
- High pressure grease control gun, 300 mm steel braid outlet hose ø ext. 10 mm and 4
- jaws hydraulic coupler, art. no. 4205
- High pressure Z swivel, art.no. 4221
- Follower plate, ø 310 260 mm, art. no. 4314*
- Metal drum cover, ø 330 290 mm, art. no. 4302*

*See accessories on page 34 for pails/drums in different dimensions!

Art. n	o. Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
492	400 bar	2400 g/min	1/4"BSP (F)	2-8 bar	11 kg	240x240x890



Pag. 17 Grease



Complete mobile pneumatic grease supply kit, suitable for 18/25 kg – pails in any kind of inside or outside use. Max pressure achievable: 400 bar.



Art. no. 4920C

Mobile pneumatic grease supply kit for 18/25 kg - pails, consisting of:

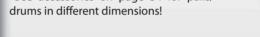
18/25 kg

- Pneumatic grease pump, art. no. 4020;
- Pressure regulator, art. no. 7200;
- 3 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4503;
- High pressure grease control gun, 300 mm steel braid; outlet hose ø ext. 10 mm and 4 jaws hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate, ø 310 260 mm, art. no. 4314*;
- Metal drum cover, ø 330 290 mm, art. no. 4302*;
- Trolley with 2 wheels, art. no. 4350.



Mobile pneumatic grease supply kit such as art. no. 4920C, but without art. nos. 7200 and 4221.

*See accessories on page 34 for pails/





Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4920C	400 bar	2400 g/min	1/4"BSP (F)	2-8 bar	13 kg	510x690x690





Mobile pneumatic grease supply kit such as art. no. 4920C, but with trolley art. no. 4351.

OPTIONAL

Art. no. 4701

Metal 20 kg – pail (empty)





Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4920CE	400 bar	2400 g/min	1/4"BSP (F)	2-8 bar	13 kg	510x690x690





Complete mobile pneumatic grease supply kits, suitable for 50 kg - drums in any kind of inside or outside use. Max pressure achievable: 400 bar.



Art. no. 4960C

Mobile pneumatic grease supply kit for 50 kg - drums, consisting of:

- Pneumatic grease pump, art. no. 4060;
- Pressure regulator, art. no. 7200;
- 3 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4503;
- High pressure grease control gun, 300 mm steel braid outlet hose ø ext. 10 mm and 4 - jaws - hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate, ø 390 325 mm, art. no. 4317*;
- Metal drum cover, ø 400 360 mm, art. no. 4305*;
- Trolley with 2 wheels, art. no. 4350

Art. no. 4960

Mobile pneumatic grease supply kit such as art. no. 4960C,

but without art. nos. 7200 and 4221.



50 kg

*See accessories on page 34 for pails/ drums in different dimensions!

Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4960C	400 bar	2400 g/min	1/4"BSP (F)	2-8 bar	15 kg	510x690x690





Mobile pneumatic grease supply kit for 50 kg - drums, consisting of:

- Pneumatic grease pump, art. no. 4060;
- Pressure regulator, art. no. 7200;
- 3 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4503;
- High pressure grease control gun, 300 mm steel braid outlet hose ø ext. 10 mm and 4 jaws - hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate, ø 390 325 mm, art. no. 4317*;
- Metal drum cover, ø 400 360 mm, art. no. 4305*;
- Trolley with 4 wheels, art. no. 4360.

Art. no. 4980

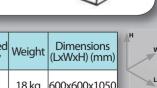
Mobile pneumatic grease supply kit such as art. no. 4980C,

but without art. nos. 7200 and 4221.



*See accessories on page 34 for pails/ drums in different dimensions!

Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4980C	400 bar	2400 g/min	1/4"BSP (F)	2-8 bar	18 kg	600x600x1050







Complete mobile pneumatic grease supply kits, suitable for 180 kg – drums in any kind of inside or outside use. Max pressure achievable: 400 bar.



Art. no. 4990C

Mobile pneumatic grease supply kit for 180 kg - drums, consisting of:

- Pneumatic grease pump, art. no. 4080;
- Pressure regulator and air filter with moisture separator, art. no. 7180;
- 3 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4503;
- High pressure grease control gun, 300 mm steel braid outlet hose ø ext. 10 mm and 4 jaws hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate, ø 590 540 mm, art. no. 4319*;
- Metal drum cover, ø 600 560 mm, art. no. 4308*;
- Trolley with 4 wheels, art. no. 4380.

Art. no. 4990

Mobile pneumatic grease supply kit such as art. no. 4990C, but without art. nos. 7180 and 4221.

Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4990C	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	22 kg	900x830x1400
At	4010					



180 kg



Art. no. **4910**

Mobile pneumatic grease supply kit for 180 kg - drums, consisting of:

- Pneumatic grease pump, art. no. 4080;
- Pressure regulator and air filter with moisture separator, art. no. 7180;
- Open hose reel, art. no. 9016;
- 15 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4515;
- 2 m connection hose SAE 100 R2 AT, 1/4", art. no. 4502;
- High pressure grease control gun, 300 mm steel braid outlet hose Ø ext. 10 mm and 4 jaws hydraulic coupler, art. no. 4205;
- Follower plate, ø 590 540 mm, art. no. 4319*;
- Metal drum cover, ø 600 560 mm, art. no. 4308*;
- -Trolley with 4 wheels and mounting bracket for hose reel, art. no. 4380/P.



Art. no. **4338**4 wheels kit suitable also for the use on rough surfaces.

	Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
ı	4910	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	42 kg	900x870x1400





Mobile pneumatic grease supply kit for 180 kg - drums, consisting of:

- Pneumatic grease pump, art. no. 4080;
- Pressure regulator and air filter with moisture separator, art. no. 7180;
- Open hose reel, art. no. 9016;
- 15 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4515;
- 2 m connection hose SAE 100 R2 AT, 1/4", art. no. 4502;
- High pressure grease control gun, 300 mm steel braid outlet hose ø ext. 10 mm and 4;
- jaws hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate, ø 590 540 mm, art. no. 4319*;
- Metal drum cover, ø 600 560 mm, art. no. 4308*;
- Heavy duty trolley with 4 wheels and grate, art. no. 4389.

Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
4911	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	49 kg	900x1030x1400





Grease Pag. 20

Art. no. 4911



Complete stationary pneumatic grease supply kit, suitable for 50 kg – and 180 kg – drums in any kind of inside or outside use.

Max pressure achievable: 400 bar.

50/180 kg



Art. no. 4961 - 4981

Stationary pneumatic grease supply kits, consisting of:

	Art. no. 4961	Art. no. 4981
Pneumatic grease pump	Art. no. 4060	Art. no. 4080
Metal drum cover	Art. no. 4305 Ø 400-360 mm	Art. no. 4308 Ø 600-560 mm
High pressure hose SAE 100 R2 AT, 1/4", length 4 m	Art. no. 4504	Art. no. 4504
Follower plate	Art. no. 4317 Ø 390x325 mm	Art. no. 4319 Ø 590x540 mm
High pressure grease control gun with steel braid outlet hose ø ext. 10 mm and 4 - jaws - hydraulic coupler	Art. no. 4205	Art. no. 4205
Pressure regulator and air filter with moisture separator	Art. no. 7180	Art. no. 7180
High pressure Z – swivel	Art. no. 4221	Art. no. 4221

Art. no.	For drums of	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight
4961	50 kg	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	14 kg
4981	180 kg	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	16 kg



Art. no. 4995

Stationary pneumatic grease supply kit for 180 kg – drums with hose reel for wall or pillar installation, consisting of:

- Pneumatic grease pump, art. no. 4080;
- Pressure regulator and air filter with moisture separator, art. no. 7180;
- Open hose reel, art. no. 9016;
- 15 m high pressure hose SAE 100 R2 AT, 1/4", art. no. 4515;
- 2 m connection hose SAE 100 R2 AT, 1/4", art. no. 4502;
- High pressure grease control gun, 300 mm steel braid outlet hose ø ext. 10 mm and 4; jaws hydraulic coupler, art. no. 4205;
- High pressure Z swivel, art. no. 4221;
- Follower plate, Ø 590 540 mm, art. no. 4319*;
- Metal drum cover, ø 600 560 mm, art. no. 4308*.

Art. no	. Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight
4995	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	36 kg



Art. no. 8558

Stationary pneumatic grease supply kit for 180 kg – drums with hose reel, installed on a "Tank Service Base" unit. Compared to a system installed on the wall, the system which is mounted on the "Tank Service Base" unit also includes a safety pallet for the drum storage with a self-supporting structure forming a "lubrication island" that can be placed in any location of a workshop.

The composition is the same as the one of art. no. 4995, but completed by a "Tank Service Base" unit for 1 drum with the self-supporting structure consisting of 2 steel rails and 2 steel panels for the installation of the components (art. no. 8525).



Optional: Art. no. 4699 Metal 180 kg – drum (empty)

Art. no.	Max outlet pressure	Delivery	Connection compressed air	Compressed air supply	Weight	Dimensions (LxWxH) (mm)
8558	400 bar	2400 g/min	1/4" BSP (F)	2 - 8 bar	78 kg	830x880x2360







Art. no. 4999

Mobile extrusion unit for grease with a 4 - wheels base, a pump lifting device and a grease compacting system that works based on a pneumatic circuit which is activated by a control valve.

This unit is used when the grease has a high degree of viscosity or is very dense due to low temperature and therefore is difficult to pump. The kit includes also a pneumatic 50:1 – grease pump of the standard series. Versions for pails and drums available.



Art. no.	4999/30	4999/60	4999/200
Pump models	4020	4060	4080
Compression ratio	50:1		
Max outlet pressure	400 bar		
Pressure pneumatic circuit		1 – 3 bar	
Pressure performance compacting system	1 k	oar = 50 kg pressu	re
Suitable for drums of	18 kg 50 kg		180 kg
Dimensions (LxWxH) (mm)	1090x630x1750	1090x630x1750	1090x630x1750
Weight	85 kg	110 kg	170 kg









Art. no. 4999/200INP

Staionary extrusion unit for grease with bedplate, consisting of a special pump lifting device suitable for pneumatic grease pumps, series "**Power Bull**", and a grease compacting system that works based on a pneumatic circuit which is activated by a control valve. This unit is used when the grease has a high degree of viscosity or is very dense due to low temperature and therefore is difficult to pump. For the use with grease pump Art. no.ls art. nos. 4046 - 4047 - 4048 - 4049 - 4050. The kit does not include the pneumatic grease pump. Suitable for the use with 180 kg - drums.

Art. no.	4999/200INP	
Pressure pneumatic circuit	1 – 3 bar	
Pressure performance compacting system	1 bar = 50 kg pressure	
Suitable for drums of	180 kg	
Dimensions (LxWxH) (mm)	1090 x 630 x 1900	
Weight	220 kg	



PNEUMATIC GREASE SPRAYER KITS LOW LEVEL PUMP STOP KIT FOR GREASE



Art. no. **4997/20** Art. no. **4997/60**

Mobile pneumatic grease sprayer kits, suitable for the application of grease or similar lubricants on mechanical parts or surfaces for protective purposes. For example these kits are suitable also for applying underseal agents for protective undercoating.

The kits consist of a 25:1 – pneumatic grease pump, metal drum cover, follower plate, 3 m - high pressure hose SAE 100 R2 AT, 1/4", for grease and 3 m – hose for air, with thermo - retractable cover, control gun including lance with twin outlet for the injection of air and spraying nozzles.

Art. no.	Art. no. 4997/20		Art. no. 4997/20 4997	
Compression ratio	25:1 150 bar			
Max outlet pressure				
Compressed air supply	3 – 6	bar		
For pails / drum of	ails / drum of 18-25 kg 50 kg Weight 85 kg 110 kg			
Weight				



Art. no. 4322

Low level pump stop kit for grease, suitable for 180 kg – drums, consisting of:

- Metal drum cover, ø 600 mm, with connection cables junction box;
- Follower plate, ø 590 mm, with rubber edge;
- Probe with contactless sensor;
- Solenoide valve for compressed air;
- Acoustic alarm device;
- Electronic control switch with transformer 230 VAC 24 VDC, switch ON/OFF START, indicator lamp in case of empty drum and bypass push button which allows to continue the grease flow again after the pump has been stopped.



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MANUAL GREASE SUPPLY KITS





Art. no. 4425

Manual lever action grease pump, suitable for 18/25 kg - pails. Standard suction tube length 360 mm; can be supplied also in different lengths on demand.

Art. no. 4426

Similar to art. no. 4425, but with suction tube length 335 mm for 16 kg – pails.

Art. no.	Max outlet pressure	Delivery per stroke	Connections	Weight
4425	250 bar	8 g	1/4" BSP (M)	2 kg
4426	250 bar	8 g	1/4" BSP (M)	2 kg



Art. no. 5125

Portable, manual grease supply kit for 18/25 kg – pails, consisting of:

- Manual lever action grease pump, art. no. 4425;
- Metal drum cover, ø 290 330 mm, art. no. 074302*;
- Follower plate, ø 310 260 mm, art. no. 4314*;
- 1,5 m rubber hose R1T, ø 1/4";
- Ball valve and rigid outlet pipe with 4 jaws hydraulic coupler, art.no. 4218.

Art. no.	Max outlet pressure	Delivery per stroke	Connections	Weight	Dimensions (LxWxH) (mm)
5125	250 bar	8 g	1/4" BSP (M)	5 kg	340x340x630





Art. no. 5190

Manual grease supply kit, consisting of metal 16 kg – pail with 2 wheels, pedal action pump, follower plate, Ø 230 mm, art. no. 07 5131, 1,5 m – rubber hose R1T, Ø 1/4″, ball valve and rigid outlet pipe with 4 – jaws – hydraulic coupler.

Art. no.	Max outlet pressure	Delivery per stroke	Connections	Weight	Dimensions (LxWxH) (mm)
5190	150 bar	7 g	1/4" BSP (M)	8 kg	510x580x880



MANUAL GREASE SUPPLY KITS





Art. no. 5100

Portable, manual grease supply kit, consisting of metal 16 kg – pail, lever action grease pump, follower plate, Ø 230 mm, art. no. 07 5131, 1,5 m - rubber hose R1T, Ø 1/4", ball valve and rigid outlet pipe with 4 – jaws – hydraulic coupler.



MADE IN ITALY!

Art. no.	Max outlet pressure	Delivery per stroke	Connections	Weight	Dimensions (LxWxH) (mm)
5100	250 bar	8 g	1/4" BSP (M)	5,5 kg	240x490x630





Art. no. 5105

Portable, manual grease supply kit, consisting of metal 16 kg – pail with 2 wheels, lever action grease pump, follower plate, Ø 230 mm, art. no. 07 5131, 1,5 m - rubber hose, Ø 1/4", ball valve and rigid outlet pipe with 4 – jaws – hydraulic coupler.



Art. no.	Max outlet pressure	Delivery per stroke	Connections	Weight	Dimensions (LxWxH) (mm)
5105	250 bar	8 g	1/4" BSP (M)	7,5 kg	250x540x630

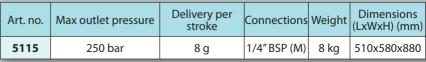




Art. no. 5115

Manual grease supply kit, consisting of metal 16 kg – pail with 2 wheels, lever action grease pump, follower plate, ø 230 mm, art. no. 07 5131, 1,5 m - rubber hose, ø 1/4", ball valve and rigid outlet pipe with 4 – jaws – hydraulic coupler.

Mounted on a trolley, art. no. 4350, with fixation bracket.





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MANUAL GREASE SUPPLY KITS

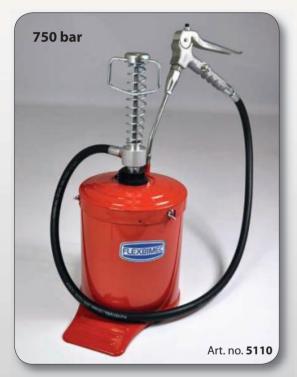


Grease Power 750 is a manual grease supply kit, composed by a spring - loaded pump combined with a special control gun, dispensing the grease in pressure degrees up to 750 bar.

This system can be used in 3 different ways, offering the following results:

- 1. Delivery of 0,3 g of grease per squeeze with up to 750 bar pressure when the switch of the control gun is on "high pressure" position. Ideal for unblocking dirty or resinified grease nipple valves.
- 2. Delivery of 1,1 g of grease per squeeze when switch of the control gun is on "high volume" position. For normal grease supply operations.
- 3. Keeping the lever of the control gun pushed and pressing simultaneously the pump rod down by foot, a continuous grease flow at low pressure can be created.

This grease supply kit - thanks to its compactness and its independence from any pneumatic or electric supply - is the ideal, mobile equipment for any application in the field of lubrication.



Art. no. 5110

Portable, manual grease supply kit, consisting of:

- Metal 5 kg pail with cover;
- Manual, spring loaded piston grease pump;
- Follower plate;
- 1,5 m rubber hose, ø 1/2" mm;
- Control gun with selection switch and rigid outlet pipe with 4 – jaws – hydraulic coupler.



Art. no.	Max outlet pressure	Max delivery per stroke	Ø suction tube	Length suction tube	Weight	Dimensions (LxWxH) (mm)	A
5110	750 bar	8 g	28 mm	310 mm	6,5 kg	350x240x550	K





Art. no. **5111**

Portable, manual grease supply kit, suitable for 18/25 kg - pails, consisting of:

- Manual, spring driven piston grease pump;
- Follower plate, 310 260 mm, art. no. 4314;
- 1,5 m rubber hose, ø 1/2" mm;
- Metal drum cover, ø 290 330 mm, art. no. 4302;
- Control gun with selector lever and rigid outlet pipe with 4 jaws hydraulic coupler.



OPTIONAL Art. no. **4215** Extension with quick change coupling, length 130 mm, to be connected with hydraulic coupler.

Art. no.	Max outlet pressure	Max delivery per stroke	Ø suction tube	Length suction tube	Weight	Dimensions (LxWxH) (mm)
5111	750 bar	8 g	28 mm	370 mm	5,8 kg	350x480x630





MANUAL GREASE GUN FILLER PUMPS / MANUAL AND PNEUMATIC GREASE REFILLING KITS FOR CENTRALIZED LUBRICATION SYSTEMS



Art. no. **5126** Art. no. **5127** Art. no. **5128**

Manual grease gun filler pump kit, consisting of manual lever action grease pump, metal drum cover, follower plate and rigid pipe with adapter for the connection of grease guns. Suitable for grease up to a viscosity of NLGI 2.



Art. no	. Delivery	Ø suction tube	Length suction tube		Ø follower plate	Ø pails/ drums	Suitable for pails/drums of	Weight
5126	30 g/stroke	40 mm	335 mm	283 mm	275 mm	240-283 mm	18 kg	5 kg
5127	30 g/stroke	40 mm	450 mm	330 mm	310 mm	290-330 mm	20 kg	6 kg
5128	30 g/stroke	40 mm	750 mm	400 mm	390 mm	360-400 mm	50 kg	8 kg



Art. no. **5129** Art. no. **5130** Art. no. **5131**

Manual grease transfer kit for the refilling in centralized lubrication systems, consisting of manual lever action grease pump, metal drum cover, follower plate, 2 m – rubber hose ø 1/2", with quick coupling and curved filling spout with connector to quick coupling. Suitable for grease up to a viscosity of NLGI 2.

Art. no.	Delivery	Ø suction tube	Length suction tube		Ø follower plate		Suitable for pails/drums of	Weight
5129	30 g/stroke	40 mm	335 mm	283 mm	275 mm	240-283 mm	18 kg	6 kg
5130	30 g/stroke	40 mm	450 mm	330 mm	310 mm	290-330 mm	20 kg	7 kg
5131	30 g/stroke	40 mm	750 mm	400 mm	390 mm	360-400 mm	50 kg	9 kg



Art. no. **4923** Art. no. **4963** Art. no. **4983**

Pneumatic grease transfer kit for the refilling in centralized lubrication systems, consisting of pneumatic 25:1 - grease pump, metal drum cover, follower plate, 2 m – rubber hose ø 1/2'' and quick coupling. Suitable for grease up to a viscosity of NLGI 3.

Art. no	. Delivery	Ø suction tube	Length suction tube	Ø drum cover	Ø follower plate	Ø pails/drums	Suitable for pails/drums of	Weight
4923	7000 g/min	28 mm	450 mm	330 mm	350 mm	290-330 mm	20 kg	10 kg
4963	7000 g/min	28 mm	750 mm	400 mm	390 mm	360-400 mm	50 kg	14 kg
4983	7000 g/min	28 mm	950 mm	600 mm	590 mm	560-600 mm	180 kg	16 kg

Pag. 27 Grease







LubTools is the Flexbimec brand specialized in the supply of manual lubrication equipment.

LubTools is offering a wide range of articles including grease nipples in galvanized and stainless steel, automatic lubricators, suction guns, lever and push type grease guns, funnels, measures and jerrycans.

In order to see the complete range and to choose the required items, please see our separate LubTools catalogue.

















































Art. no. **4400** Art. no. **4400/4**

Lever action grease gun, suitable for the use with bulk grease or with grease cartridges. With steel braid outlet hose \emptyset ext. 10 mm x 300 mm length, M 10x1, and 4 – jaws – hydraulic coupler. Suitable for grease up to a viscosity of NLGI 2.

Art. no.	Max delivery	Max outlet pressure	Capacity grease cartridge	grease	L. suitable grease cartridge	Weight	Dimensions (LxWxH) (mm)
4400	1,2 g/stroke	400 bar	600 g	56 mm	500 mm	1,70 kg	150x480x60
4400/4	1,2 g/stroke	400 bar	400 g	54 mm	500 mm	1,70 kg	150x480x60





Art. no. **4450** Art. no. **4450/4**

Pneumatic grease gun, suitable for the use with bulk grease or with grease cartridges. With steel braid outlet hose \emptyset ext. 10 mm x 300 mm length, M 10x1, and 4 – jaws – hydraulic coupler. It is a single action mechanism (non-continuous grease supply): when activating the trigger, the internal piston moves and supplies grease; when the trigger is released, the piston returns in its initial position. By repeating this procedure the grease can be dispensed. Compressed air pressure: 4 – 8 bar. Suitable for grease up to a viscosity of NLGI 2.

Art. no.	Max delivery	Max outlet pressure	Capacity grease cartridge	grease	L. suitable grease cartridge	Weight	Dimensions (LxWxH) (mm)
4450	1,2 g/stroke	300 bar	600 g	56 mm	500 mm	2 kg	240x440x70
4450/4	1,2 g/stroke	300 bar	400 g	54 mm	500 mm	2 kg	240x440x70





Art. no. **4452** Art. no. **4452/4**

Electric grease gun with $12\,\text{V}$ - battery, suitable for the use with bulk grease or with grease cartridges. With steel braid outlet hose ø ext. $10\,\text{mm}\,\text{x}$ $300\,\text{mm}$ length, M 10x1, and 4 - jaws – hydraulic coupler. The grease is dispensed continuously; by pushing the trigger of the grease gun, the internal gears start moving and the grease is supplied. When the trigger is released again, the grease flow stops. Battery charger: $12\,\text{VDC}$ ($1300\,\text{mAH}$), time for recharging: 1 hour (according to the ROHS – directive). Battery recharger: $230\,\text{Vac}$ ($12\,\text{VDC}$, $50\,\text{Hz}$). Supplied in a plastic case with a lever grease gun head for the use as lever grease gun. Suitable for grease up to a viscosity of NLGI 2.

Art. no.	Max delivery	Max outlet pressure	Capacity grease cartridge	grease	L. suitable grease cartridge	Weight	Dimensions (LxWxH) (mm)
4452	8 g/stroke	300 bar	600 g	56 mm	500 mm	7,5 kg	540x430x110
4452/4	8 g/stroke	300 bar	400 g	54 mm	500 mm	7,5 kg	540x430x110





Art. no. 4405

Cartridge with lithium grease, NLGI 2, with 600 g capacity. Diameter 56 mm, length 300 mm. Kinematic viscosity of the basing oil: 150 cSt, 40°C .

Temperature range of use: -20°C - $+120^{\circ}\text{C}$. According DIN 51502 K 2 K-20. Packaging unit: 15 pcs.

Art. no. 4406

Cartridge with lithium grease, NLGI 2, with 400 g capacity. Diameter 52 mm, length 235 mm. Kinematic viscosity of the basing oil: 150 cSt, 40°C.

Temperature range of use: -20°C - +120°C. According DIN 1284.

Packaging unit: 15 pcs.

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FLEXBIMEC

ACCESSORIES FOR GREASE LUBRICATION



Art. no. 4200

High pressure grease control gun, steel body, inlet connection 1/4" BSP (M), outlet connection M 10x1

Art. no. 4201

High pressure grease control gun art.no. 4200, but additionally equipped with a trigger quard.



Art. no. 4205

High pressure grease control gun with 300 mm – steel braid rubber outlet hose \emptyset ext. 10 mm and 4 - jaws - hydraulic coupler.

Art. no. 4206

High pressure grease control gun art.no. 4205, but additionally equipped with a trigger guard.



Art. no. 4208

High pressure grease control gun with rigid outlet pipe and 4 – jaws – hydraulic coupler.

Art. no. 4207

High pressure grease control gun art.no. 4208, but additionally equipped with a trigger guard.



Art. no. 4209

High delivery grease control gun for the transfer of grease, with rigid outlet, ø 20 mm. Working pressure up to 200 bar, burst pressure 350 bar.

Art. no. 4204

Grease control gun for the transfer of grease, with rigid outlet, \emptyset 16 mm. Working pressure up to 180 bar, burst pressure 320 bar.



Art. no. **4221**

High pressure rotating "Z" – swivel, connections M – F 1/4" BSP. For the installation between hose and control gun. Allows a complete 360° - rotation on the 3 axes, also under pressure.

Art. no. **4228**

Straight high pressure rotating swivel, connections $M-F\ 1/4"$ BSP. For the installation between hose and control gun. Allows a complete 360° - rotation on the 1 axe, also under pressure.



ACCESSORIES FOR GREASE LUBRICATION





Art. no. 4217/1000

Art. no. 4216

Art. no. 4217+4220

Art. no. 4217

Art. no. 4218

Art. no. 4215

Art. no. **4220** - Hydraulic 4 – jaws - coupler, standard version, steel body, height 36 mm, for hydraulic-type grease nipples according DIN 71412, connection M 10x1.

Art. no. **4224** - Giant button head coupler, steel body, for button head grease nipples with Ø 22 mm according DIN 3404; connection M 10x1.

Art. no. **4225** - Hydraulic 4 – jaws – coupler, steel body, for hydraulic-type grease nipples according to DIN 71412, connection M 10x1, with 90° - curved swivel adapter.

Art. no. **4226** - Button head coupler, steel body, for button head grease nipples with ø 15 mm according to DIN 3404; connection M 10x1.

Art. no. **4227** - Reverse button head coupler, steel body, for button head grease nipples with ø 15 mm according to DIN 3404; connection M 10x1.

Art. no. **4251** - Pointed coupler, steel body, for flush-type grease nipples according to DIN 3405; connection M 10x1.

Art. no. **4252** - Pin pointed coupler, steel body, for flush-type grease nipples according to DIN 3405; connection M 10x1.

Art. no. **4253** - Hollow-type coupler, steel body, for ball-type and hydraulic-type grease nipples according to DIN 71412; connection M 10x1. Art. no. **4254** - Bayonet coupler, steel body, for bayonet grease nipples; connection M 10x1.

Art. no. **4255** - Hydraulic 4 – jaws – coupler, heavy duty version, steel body, height 48 mm, with ball valve, for hydraulic-type grease nipples according DIN 71412, connection M 10x1. Suitable also for applications with oil.

All couplers are available also with thread G 1/8" (F) on demand.

Art. no. **4215** - Extension pipe for hydraulic 4 – jaws – couplers, length 130 mm, with quick coupling and connection M 10x1.

Art. no. **4216** - Double steel braid rubber outlet hose 1/4", SAE 100 R2 AT, length 400 mm; connections M 10x1 - 1/4" BSP (M).

Art. no. **4217** - Steel braid rubber outlet hose ø ext. 10 mm, length 400 mm, max. working pressure 400 bar, burst pressure 1000 bar; connections M 10x1.

Art. no. **4217/1000** - Steel braid rubber outlet hose ø ext. 10 mm, length 1000 mm, max. working pressure 400 bar, burst pressure 1000 bar; connections M 10x1.

Art. no. **4217+4220** - Steel braid rubber outlet hose ø ext. 10 mm, length 400 mm, max. working pressure 400 bar, burst pressure 1000 bar with hydraulic 4 – jaws – coupler; connections M 10x1.

Art. no. **4218** - Angled rigid outlet pipe, length 200 mm, with hydraulic 4 – jaws – coupler; connections M 10x1.

Art. no. 4219 - Angled rigid outlet pipe, length 130 mm; connections M 10x1.

All outlet pipes and hoses are available also with thread G 1/8" (F) on demand.



Art. no. **4216 + 4233**

Double steel braid rubber outlet hose 1/4", length 400 mm, connection 1/4" (M), with quick coupling to be connected on grease containers in centralized lubrication systems for refilling.

Art. no. 4234

Angled rigid outlet pipe, connection 1/2" (M), with quick coupling, for the grease refilling of lever grease guns through grease gun filler pumps.

Art. no. **4235**

Curved rigid outlet pipe, connection ø 1/2" (M), for the refilling of grease containers in centralized lubrication systems.

Art. no. **4233**

Quick coupling, connection 1/4" (F), suitable for the refilling of grease containers in centralized lubrication systems.

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DIGITAL GREASE FLOW METERS



Digital flow meters based on the oval gears measuring principle. The flow meters are instruments equipped with an electronic component that permits by the use of a sensor to measure the flow of grease passing through it and transmitting then a signal on a liquid crystal display. The use of this instrument is suitable in all grease supply systems and enables the user to control and to measure the grease flow. Not approved for fiscal transactions.



Art. no. 4286

Digital oval gears grease flow meter, series "**Grease Control**", with grease control gun, rigid outlet pipe and hydraulic 4 – jaws – coupler.

The calibration of the meter can also be made by the user.

Equipped with 2 batteries of 1,5 VDC.

Art. no. 4289

Digital oval gears grease flow meter, series "Grease Control", suitable for the use as inline meter.

The calibration of the meter can also be made by the user.

Equipped with 2 batteries of 1,5 VDC.

TECHNICAL DATA

Art. no.	4286	4289	
Connections	1/4" BSP (M)	1/8" BSP (F)- 10x1 (F)	
Delivery min – max	0,20 - 2 kg/min	0,20 - 2 kg/min	
Temperature	min +2°C – max +50°C	min +2°C – max +50°C	
Max pressure	400 bar	400 bar	
Precision	+/- 0,3% *	+/- 0,3% *	
Total max (resettable)	999,9 kg	999,9 kg	
Total max (non resettable)	9999 kg	9999 kg	
Weight	1,4 kg	1,2 kg	

^{*}Basic calibration made in factory with grease NLGI 0



Art. no. **4236**

Digital oval gears grease flow meter, series "**Grease Gate**", with preset function of the desired grease quantity to be supplied. With grease control gun, rigid outlet pipe and hydraulic 4 – jaws – coupler.

The preset function introduces a certain degree of automation since it becomes possible to predetermine the dosages and to stop the grease flow automatically once the preselected value has been reached.

The calibration of the meter can also be made by the user.

TECHNICAL DATA

Art. no.	4236
Connections	1/4" BSP (M)
Delivery min – max	0,10 - 2 kg/min
Temperature	+ 2°C / + 50°C
Max pressure	300 bar
Precision	+/- 0,5%*
Lowest preselection value	0,010 kg
Total max (resettable)	999,9 kg
Total max (non resettable)	9999 kg
Weight	1,7 kg

^{*}Basic calibration made in factory with grease NLGI 0

DIGITAL GREASE FLOW METERS



Digital flow meters based on the oval gears measuring principle. The flow meters are instruments equipped with an electronic component that permits by the use of a sensor to measure the flow of grease passing through it and transmitting then a signal on a liquid crystal display. The use of this instrument is suitable in all grease supply systems and enables the user to control and to measure the grease flow. Not approved for fiscal transactions.



Art. no. 4285

Digital oval gears grease flow meter, with grease control gun and rigid outlet pipe, for the measurement of regular quantities in grease transfer applications at relatively low pressure.

The calibration of the meter can also be made by the user.

TECHNICAL DATA

Art. no.	4285
Connections	1/2" BSP (M)
Delivery min – max	0,05 – 5 kg/min
Temperature	+2°C / + 50°C
Max pressure	70 bar
Precision	+/- 1% *
Total max (resettable)	999,9 kg
Total max (non resettable)	9999 kg
Weight	1,4 kg

^{*}Basic calibration made in factory with grease NLGI 0



Art. no. 4287

Digital oval gears grease flow meter, with grease control gun and rigid outlet pipe, for the measurement of high quantities in grease transfer applications with pneumatic pumps of the series "Power Bull" at relatively low pressure.

The calibration of the meter can also be made by the user.

TECHNICAL DATA

Art. no.	4287
Connections	1" BSP (M)
Delivery min – max	0,5 – 20 kg/min
Temperature	+2°C / + 50°C
Max pressure	150 bar
Precision	+/- 1% *
Total max (resettable)	999,9 kg
Total max (non resettable)	9999 kg
Weight	3 kg

^{*}Basic calibration made in factory with grease NLGI 0

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ACCESSORIES FOR GREASE PUMPS AND KITS STANDARD SERIES



Art. no. 43025 Art. no. 4308

Art. no. 4308/TP

Art. no. 4305

Metal drum cover, available in different dimensions to suit to the various types of grease drums, including butterfly screws for the fixation of the cover on the drum as well as bung adapter for the fixation of the pump in vertical position.

Art. no.	Suitable for external drum diameters of	Bore suitable for suction tube diameter of	Suitable for drums of	Weight
4301	240 - 283 mm	28 mm	18 kg	2,4 kg
4302	290 - 330 mm	28 mm	20 kg	2,6 kg
4302S	310 - 350 mm	28 mm	25 kg	2,6 kg
4305	360 - 400 mm	28 mm	50 kg	2,8 kg
4305L	348 - 388 mm	28 mm	50 kg	2,8 kg
4305S	410 - 450 mm	28 mm	50 kg	2,8 kg
4305/TP	360 - 400 mm	40 mm	50 kg	2,8 kg
4308	560 - 600 mm	28 mm	180 kg	3,2 kg
4308/TP	560 - 600 mm	40 mm	180 kg	3,2 kg



Follower plate with rubber edge, available in different dimensions to suit to the various types of grease drums. The follower plate causes a constant grease level inside of the drum and helps to avoid any air pockets inside of the grease close to the suction tube as well as any disposals of grease on the inner surface of the drum.

	Art. no. Total diameter follower plate		Diameter metal disc Bore suitable for suction tube diameter of		Suitable for drums of	Weight
	4310 205 mm		150 mm	28 mm	5 kg	0,7 kg
	4311 275 mm		230 mm	28 mm	18 kg	0,9 kg
			285 mm	28 mm	20 kg	1,5 kg
			286 mm	28 mm	25 kg	1,6 kg
	4314	310 mm	260 mm	28 mm	20 kg	1,3 kg
	4315	4315 330 mm 4317 390 mm		28 mm	20 kg	1,2 kg
	4317			28 mm	50 kg	1,7 kg
	4317/TP 390 mm		325 mm	40 mm	50 kg	1,7 kg
	4319	590 mm	540 mm	28 mm	180 kg	4,0 kg
	4319/TP	590 mm	540 mm	40 mm	180 kg	4,0 kg

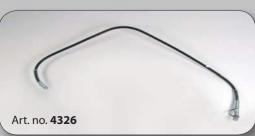


Art. no. 4328

Plastic bung adapter for fixation of pumps, 2" BSP (M) x 28 mm.

Art. no. 4340

Plastic bung adapter for fixation of pumps, 2" BSP (M) x 40 mm.



Art. no. **4341**

Plastic lock ring for bung adapter, 2" BSP (M), for art. nos. 4328 and 4340.

Art. no. 4326

Hose, length 1200 mm, with connector for compressed air. This hose can be connected to the follower plates for 180 kg – drums and allows to set compressed air pressure under the follower plate when it has reached the low level in order to take it out of the drum again more easily.



ACCESSORIES FOR GREASE PUMPS AND KITS POWER BULL SERIES



Art. no. 4309

Metal drum cover, including metal bung adapter and metal counter-ring, suitable for the use of pneumatic grease pumps of series "Power Bull" on 180 kg – drums.

Total diameter 600 mm, diameter of bore for suction tube in bung adapter of 50 mm. Suitable for art. nos. 4048 - 4049 - 4050.

Art. no. 4309/70

Metal drum cover such as art. no. 4309, but including bung adapter with diameter of bore for suction tube of 70 mm.

Suitable for art. nos. 4046 and 4047.



Art. no. 4320

Follower plate with rubber edge, for applications with pneumatic grease pumps of series "Power Bull" on 180 kg – drums. The follower plate causes a constant grease level inside of the drum and helps to avoid any air pockets inside of the grease close to the suction tube as well as any disposals of grease on the inner surface of the drum.

Total diameter of follower plate 590 mm, diameter of metal disc 540 mm, diameter of bore for suction tube 50 mm. Suitable for art. nos. 4048 – 4049 – 4050.

Art. no. 4320/70

Follower plate such as art. no. 4320, but diameter of bore for suction tube 70 mm. Suitable for art. nos. 4046 and 4047.



Art. no. 4342/70 Art. no. 4342/50

Art. no. 4343/50

Metal bung adapter for the fixation of pumps, series "Power Bull", 2" BSP (M) x 50 mm, on drums. Suitable for art. nos. 4048 - 4049 - 4050.

Art. no. 4343/70

Metal bung adapter for fixation of pumps, series "Power Bull", 2" BSP (M) x 70 mm, on drums. Suitable for art. nos. 4046 and 4047.

Art. no. 4343/71

Metal lock ring for bung adapter, 2" BSP (M), for art. no. 4343/70.

Art. no. 4342/50

Metal flange plate for fixation of pumps, series "Power Bull", with suction tube diameter 50 mm, without bung adapter. Suitable for art. nos. 4048 – 4049 – 4050.

Art. no. 4342/70

Metal flange plate for fixation of pumps, series "Power Bull", with suction tube diameter 70 mm, without bung adapter. Suitable for art. nos. 4046 and 4047.

Pag. 35 Grease



RUBBER HOSES AND FITTINGS FOR GREASE

High pressure rubber hoses SAE 100 R2 AT – EN 853 – DIN 20022 – 15 N, with female, straight BSP – connections, suitable for the supply of grease. Ideal for the connection on pumps or hose reels.

Internal structure and coating: oil-resistant, synthetic rubber.

Reinforcement: 2 steel wire braided, highly resistant layers.

Cover coat: black synthetic rubber, oil-resistant and resistant to atmospheric influences.



HOW TO ORDER

Length	Ø 1/4″ Art. no.	Ø 3/8″ Art. no.	Ø 1/2″ Art. no.	Ø 3/4" Art. no.	Ø 1" Art. no.	Ø 1'1/4" Art. no.
1 m	4501	47001	4801	28901	289501	281401
1,5 m	45015	47015	48015	289015	2895015	2814015
2 m	4502	4702	4802	28902	289502	281402
3 m	4503	4703	4803	28903	289503	281403
5 m	4505	4705	4805	28905	289505	281405
6 m	4506	4706	4806	28906	289506	281406
10 m	4510	4710	4810	28910	289510	281410
15 m	15 m 4515 4715		4815	28915	289515	281415
20 m	4520	4720	4820	28920	289520	281420
25 m	-	4725	4825	28925	289525	281425
30 m	-	4730	4830	28930	289530	281430
35 m	-	4735	4835	28935	289535	281435
40 m	-	4740	4840	28940	289540	281440

Other lengths available on demand!

TECHNICAL DATA

Nominal diameter	Ø 1/4"	Ø 3/8"	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1'1/4"
Internal diameter (mm)	6,4 mm	9,5 mm	12,7 mm	19 mm	25,4 mm	31,8 mm
Wire braid diameter (mm)	12,7 mm	16,7 mm	19,8 mm	25,4mm	33,3 mm	40,5 mm
External diameter (mm)	15 mm	19 mm	22,2 mm	27,7 mm	35,6 mm	43,5 mm
Working pressure (bar)	400 bar	330 bar	275 bar	105 bar	88 bar	63 bar
Burst pressure (bar)	Burst pressure (bar) 1600 bar		1100 bar	420 bar	350 bar	250 bar
Min bending radius (mm)	100 mm	130 mm	180 mm	240 mm	300 mm	420 mm
Working temperature	min –40°C, max +100°C	min –40°C, max +100°C	min –40°C, max +100°C	min –40°C, max +100°C	min –40°C, max +100°C	min –40°C, max +100°C
Weight (kg/m)	0,36 kg/m	0,53 kg/m	0,63 kg/m	0,61 kg/m	0,94 kg/m	1,19 kg/m



Type A Double male connection adapter, BSP, galvanized steel.	Art. no. 9911 Art. no. 9912 Art. no. 4223	1/2" x 1/4"
Type B Male – female swivel connection adapter, BSP, galvanized steel.	Art. no. 4229	1/4" x 1/4"
Type C Male – female connection adapter, BSP, galvanized steel.	Art. no. 9905 Art. no. 9906 Art. no. 4231	1/2" x 3/8"
Type D 90°- curved male – female connection adapter, BSP, galvanized steel.	Art. no. 4232	1/4" x 1/4"

HOSE REELS FOR GREASE





Automatic, spring – driven hose reel, standard series, in painted steel, including rubber hoses SAE 100 R2 AT with female connection threads, suitable for the supply of grease at high pressure.

Art. no.	Ø hose	Length hose	Max working pressure	Reel width	Ø reel	Art. no. suitable swivel bracket	Weight	Dimensions (LxWxH) (mm)
9016+4510	1/4″	10 m	400 bar	120 mm	450mm	9767	17 Kg	250x550x450
9016+4710	3/8"	10 m	330 bar	120 mm	450mm	9767	20 Kg	250x550x450
9016+4810	1/2"	10 m	275 bar	120 mm	450mm	9767	18 Kg	250x550x450
9016+4515	1/4"	15 m	400 bar	120 mm	450mm	9767	18 Kg	250x550x450
9016+4715	3/8"	15 m	330 bar	120 mm	450mm	9767	21 Kg	250x550x450
9016+4815	1/2″	15 m	275 bar	120 mm	450mm	9767	20 Kg	250x550x450
9021+4520	1/4″	20 m	400 bar	150 mm	450mm	9768	26 Kg	260x550x450
9021+4720	3/8"	20 m	330 bar	150 mm	450mm	9768	28 Kg	260x550x450
9021+4820	1/2″	20 m	275 bar	150 mm	450mm	9768	27 Kg	260x550x450

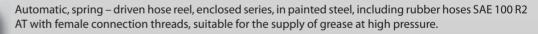




Automatic, spring – driven hose reel, adjustable arms series, in painted steel, including rubber hoses SAE 100 R2 AT with female connection threads, suitable for the supply of grease at high pressure.

	Art. no.	Ø hose	Length hose	Max working pressure	Reel width	Ø reel	Art. no. suitable swivel bracket	Weight	Dimensions (LxWxH) (mm)
9	9090+4510	1/4"	10 m	400 bar	120 mm	450mm	9767	20 Kg	250x550x450
9	9090+4710	3/8"	10 m	330 bar	120 mm	450mm	9767	20 Kg	250x550x450
9	9090+4810	1/2"	10 m	275 bar	120 mm	450mm	9767	22 Kg	250x550x450
9	9091+4515	1/4"	15 m	400 bar	120 mm	450mm	9767	25 Kg	250x550x450
9	9091+4520	1/4"	20 m	400 bar	120 mm	450mm	9767	26 Kg	250x550x450
9	9092+4720	3/8"	20 m	400 bar	120 mm	450mm	9767	27 Kg	250x550x450
9	9093+4725	3/8"	25 m	330 bar	150 mm	450mm	9768	31 Kg	280x550x450
9	9083+4530	1/4"	30 m	400 bar	150 mm	540mm	9777	42 Kg	250x590x600
9	9083+4730	3/8"	30 m	330 bar	150 mm	540mm	9777	44 Kg	250x590x600
9	9083+4830	1/2"	30 m	275 bar	150 mm	540mm	9777	45 Kg	250x590x600







Art. no.	Ø hose	Length hose	Max working pressure	Reel width	Ø reel	Art. no. suitable swivel bracket	Weight	Dimensions (LxWxH) (mm)
9013+4510	1/4"	10 m	400 bar	120 mm	450mm	9778	20 kg	250x550x450
9013+4710	3/8"	10 m	330 bar	120 mm	450mm	9778	20 kg	250x550x450
9013+4810	1/2"	10 m	275 bar	120 mm	450mm	9778	20 kg	250x550x450
9013+4515	1/4"	15 m	400 bar	120 mm	450mm	9778	23 kg	250x550x450
9013+4715	3/8"	15 m	330 bar	120 mm	450mm	9778	23 kg	250x550x450
9013+4815	1/2"	15 m	275 bar	120 mm	450mm	9778	24 kg	250x550x450
9023+4520	1/4"	20 m	400 bar	150 mm	450mm	9778	26 kg	280x550x450
9023+4720	3/8"	20 m	330 bar	150 mm	450mm	9778	26 kg	280x550x450
9023+4820	1/2″	20 m	275 bar	150 mm	450mm	9778	27 kg	280x550x450

For other hose reel models please see chapter "Hose reels" on page 208!

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Grease



FLEXBIMEC produces a wide range of pneumatic oil pumps that offers an appropriate solution for any kind of fluid viscosity, required delivery, pumping distance, necessary outlet pressure, ambient temperature as well as for simultaneous fluid supplies and any type of storage container.

In the following charts the essential data for selecting the adequate pump for the individual requirements are shown.

For more detailed information please see the following pages.

Compression ratio 1:1



Art. no.	Delivery	
2040	48 l/min	
2043	35 l/min	
2043L	35 l/min	
2044	35 l/min	
2047	35 l/min	
2047/L	35 l/min	
2049	35 l/min	
1045	35 l/min	

These pumps are recommended for the use

- at pumping distances up to 15 m,
- with low viscosity fluids.

Compression ratio 3:1



Art. no.	Delivery	
2020	24 l/min	
2030	24 l/min	
2073	17 l/min	
2074	17 l/min	
2032	21 l/min	
2033	21 l/min	
2020TWDE	28 l/min	
2030TWDE	28 l/min	

These pumps are recommended for the use

- at pumping distances up to 100 m,
- with low and medium viscosity fluids.

See pages 41 and 43!

Compression ratio 5:1



Art. no.	Delivery		
2025	15 l/min		
2035	15 l/min		
2075	13 l/min		
2075/L	13 l/min		
2076	13 l/min		
2061	17 l/min		
2025TWDE	22 l/min		
2035TWDE	22 l/min		
2075/LTWDE	20 l/min		
2076TWDE	20 l/min		

These pumps are recommended for the use

- at pumping distances up to 200 m,
- with low and medium viscosity fluids,
- with high viscosity fluids at shorter pumping distances.

See pages 42 – 43 – 44!

See page 40!

Legend

Oil SAE 0/40

Oil SAE 90

Oil SAE 240

Waste oil

Antifreeze

Windshield
washer fluid

Oil Pag. 38



The **FLEXBIMEC** oil pump range is completed by the industrial pump series "**Power Bull**" with high delivery pumps for the supply of fluid lubricants in demanding conditions. These pumps are particularly recommended for the distribution of medium or high viscosity oils in applications or pipeworks where a simultaneous supply in different distribution points at high pressure and high delivery is required. The elevated quality of the used materials and the innovative constructional concept of the pneumatic motors of this line assure the following characteristics and advantages:

- Efficiency of a constant flow,
- Low noise level,
- Limited number of piston strokes,
- Low vibrations,
- Easy maintenance and interchangeability of components,
- Included overpressure control valve,
- Included drain device for condensation water in order to avoid a spraying into the surrounding area.

Series "Tapir"



Art. no. 2012 Art. no. 2013 Art. no. 2016

Art.no.	Ratio	Delivery		
2012	6:1	32 l/min		
2013	2:1	48 l/min		
2014	5:1	18 l/min		
2015	5:1	18 l/min		
2016	6:1	32 l/min		

These pumps are recommended

- to achieve high deliveries in the use with low viscosity fluids (art. no. 2013),
- for the use with low and medium viscosity fluids at pumping distances of more than 300 m,
- for the use with high viscosity fluids at long pumping distances (art. nos. 2012 and 2016)
- for simultaneous fluid supplies.

See page 45!

Industrial pump series "Power Bull" Single acting models



Art. no. **2056** Art. no. **2055** Art. no. **2096** Art. no. **2098** Art. no. **2097**

Art.no.	Ratio	Delivery		
2055	10:1	27 l/min		
2056	16:1	15 l/min		
2096	4:1	50 l/min		
2097	10:1	40 l/min		
2098	1,5:1	122 l/min		

These pumps are recommended

- to achieve very high deliveries in the use with low viscosity fluids (art. no. 2098),
- for the use with low and medium viscosity fluids at pumping distances of more than 300 m,
- for the use with high viscosity fluids at long pumping distances (art. nos. 2055, 2056 2096, 2097),
- for simultaneous fluid supplies.

See page 47!

Industrial pump series "Power Bull" Double acting models



Art. no. 2092 Art. no. 2093 Art. no. 2094

Art.no.	Ratio	Delivery		
2057	10:1	27 l/min		
2058	16:1	15 l/min		
2088	4:1	64 l/min		
2091	6:1	42 l/min		
2092	7:1	40 l/min		
2093	4:1	62 l/min		
2094	6:1	55 l/min		

These pumps are recommended

- to achieve high deliveries in the use with low viscosity fluids,
- for the use with low and medium viscosity fluids at pumping distances of more than 300 m,
- for the use with high viscosity fluids at long pumping distances,
- for simultaneous fluid supplies.

See pages 46 and 48!

Legend

Oil SAE 0/40 Oil SAE 90 Oil SAE 240 Waste oil Antifreeze Windshield washer fluid

Pag. 39 Oil



Pneumatic pumps for the transfer of low viscosity oils and antifreeze at high delivery and short pumping distances.

Compression ratio



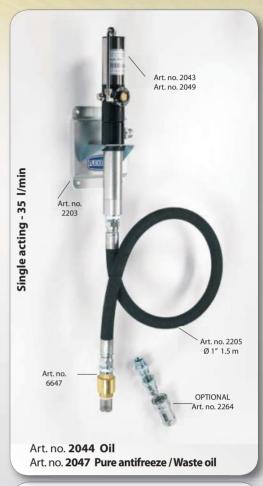






Art. no.	2040	2043 2049	2044 2047	2043/L 2047/L			
Compressed air supply		Pressure Min 2 bar, Max 8 bar					
Compression ratio	1,4 : 1	1,3 : 1	1,3:1	1,3:1			
Outlet pressure	10 bar	9 bar	9 bar	9 bar			
Delivery	48 l/min	35 l/min	35 l/min	35 l/min			
Connection compressed air	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)			
Connection lubricant outlet	3/4" BSP (M)	3/4" BSP (M)	3/4" BSP (M)	3/4" BSP (M)			
Max air consumption with 8 bar pressure	210 l/min	210 l/min	210 l/min	210 l/min			
Length suction tube	950 mm	250 mm	-	950 mm			
Diameter suction tube	55 mm	55 mm	55 mm	55 mm			
Suitable for drums of	208 l	Spec.	Spec.	208 I			
Weight	6,6 Kg	4,4 Kg	4,5 kg	5,2 kg			
Dimensions (LxWxH) (mm)	95x95x1180	110x110x530	110x110x530	95x95x1180			

The a.m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at 22°C -- Compressed air pressure 8 bar -- free flow outlet.





Art. no. **7180**

Art. no. 7150

OPTIONAL

Maintenance advise

- It is recommended to use rubber hoses with a diameter of min. 3/4".
- For a continuous use of the pump it is recommended to install a compressed air treatment unit, composed of pressure regulator with manometer and moisture separator (art. no. 7180) or pressure regulator with manometer, moisture separator and lubricator (art. nos. 7150) at the compressed air inlet of the pump.
- Any installed valves, curves, filters, ball valves or flow meters will reduce the delivery of the pump.

See accessories on pages 49 – 50 and 58 - 69!

Oil Pag. 40



Pneumatic pumps for the supply of low and medium viscosity oils and antifreeze for the use in mobile kits or in pipeworks.

Compression ratio















Art. no.	2030	2020	2020130	2073 2074	2032 2033	2032130 2033130
Compressed air supply		Pressu	ıre Min 2, Max	x 8 bar		
Compression ratio	3:1	3:1	3:1	3:1	3:1	3:1
Outlet pressure	24 bar	24 bar	24 bar	24 bar	24 bar	24 bar
Delivery	23,7 l/min	23,7 l/min	23,7 l/min	16,7 l/min	20,5 l/min	20,5 l/min
Connection compressed air	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)
Connection lubricant outlet	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)
Max air consumption with 8 bar pressure	210 l/min	210 l/min	210 l/min	210 l/min	210 l/min	210 l/min
Length suction tube	750 mm	950 mm	1300 mm	950 mm	950 mm	1300 mm
Diameter suction tube	40 mm	40 mm	40 mm	40 mm	45 mm	45 mm
Suitable for drums of	60 l	208 I	1000 l	208 I	208 l	1000 I
Weight	5 kg	5,7 kg	5,9 kg	5,6 kg	5,2 kg	5,4 kg
Dimensions (LxWxH) (mm)	95x95x1070	95x95x1270	95x95x1500	95x95x1270	95x95x530	95x95x1500

The a.m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at 22°C -- Compressed air pressure 8 bar -- free flow outlet See accessories on pages 49 - 50 and 58 - 69!

Pag. 41 Oil



Pneumatic pumps for the supply of medium and high viscosity oils for the use in mobile kits or in pipeworks.

5:1 Compression ratio









Art. no.	2035	2025 2025130	2061 2061130	2075/L	2076 2076130
Compressed air supply		Pressure	e Min 2 bar, M	ax 8 bar	
Compression ratio	5:1	5:1	5:1	5:1	5:1
Outlet pressure	40 bar	40 bar	40 bar	40 bar	40 bar
Delivery	15 l/min	15 l/min	18 l/min	13 l/min	13 l/min
Connection compressed air	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)
Connection lubricant outlet	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2" BSP (M)
Max air consumption with 8 bar pressure	210 l/min	210 l/min	210 l/min	210 l/min	210 l/min
Length suction tube	750 mm	950/1300 mm	950/1300 mm	950 mm	950/1300 mm
Diameter suction tube	40 mm	40 mm	40 mm	40 mm	40 mm
Suitable for drums of	60 l	208/1000 l	208/1000 l	208 l	208/1000 l
Weight	5,2 kg	5,8 kg	5,4 kg	4,5 kg	5 kg
Dimensions (LxWxH) (mm)	95x95x1070	95x95x1270	95x95x1270	95x95x1270	95x95x950

The a. m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at 22°C -- Compressed air pressure 8 bar -- free flow outlet



See accessories on pages 49 – 50 and 58 - 69!



Pneumatic oil pumps with double compressed air outlet distributor, assuring higher delivery rates compared to the standard Art. no.ls.

SERIE TWDE











Art. no.	2020TWDE	2030TWDE	2025TWDE	2035TWDE	2075/LTWDE		
Compressed air supply		Pressu	re Min 2 bar, Ma	x 8 bar			
Compression ratio	3:1	3:1	5:1	5:1	5:1		
Outlet pressure	24 bar	24 bar	40 bar	40 bar	40 bar		
Delivery	28 l/min	28 l/min	22 l/min	22 l/min	17 l/min		
Connection compressed air	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)	1/4" BSP (F)		
Connection lubricant outlet	1/2" BSP (M)	1/2"BSP (M)	1/2" BSP (M)	1/2" BSP (M)	1/2"BSP (M)		
Max air consumption with 8 bar pressure	230 l/min	230 l/min	260 l/min	260 l/min	230 l/min		
Length suction tube	950 mm	650 mm	950 mm	650 mm	950 mm		
Diameter suction tube	40 mm	40 mm	40 mm	40 mm	32 mm		
Suitable for drums of	208 I	60 l	208 I	60 l	208 l		
Weight	5,5 kg	5 kg	5,7 kg	5,3 kg	4 kg		
Dimensions (LxWxH) (mm)	95x95x1270	95x95x1070	95x95x1270	95x95x1070	95x95x1270		

The a. m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at 22°C -- Compressed air pressure 8 bar -- free flow outlet See accessories on pages 49 – 50 and 58 - 69!



- It is recommended to use rubber hoses with a diameter of min. 3/4".
- For a continuous use of the pump it is recommended to install a compressed air treatment unit, composed of pressure regulator with manometer and moisture separator (art. no. 7180) or pressure regulator with manometer, moisture separator and lubricator (art. nos. 7150) at the compressed air inlet of the pump.
- Any installed valves, curves, filters, ball valves or flow meters will reduce the delivery of the pump.

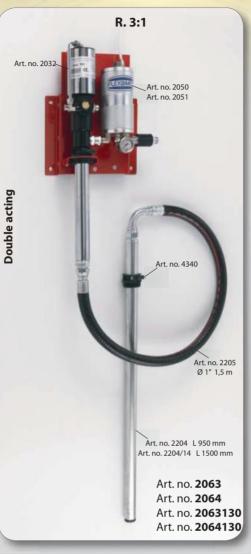
Pag. 43 Oil



Pneumatic pumps for the supply of oils, approved for fiscal transactions according to the European Directive 2004/22/EC, better known as Measurement Instrument Directive (MID) MI-005, meeting also the requirements of OIML R117-1 (DIN 19217).

SERIES MID







Art. no. 2050 - 2051

Automatic air separator kits, suitable to separate the air eventually present in the suction line from the oil, available with (= art. no. 2051) or without (= art. no. 2050) automatic pump stop device, approved according to OIML R117-1; includes also manometer for the control of the outlet pressure and non-return valve.

By installing the air separator at the fluid outlet of a pump can be achieved the working conditions needed to meet the requirements of the directive MID MI-005 in combination with an oil flow meter that must also be approved for fiscal transactions.

Art. no. **2050** Air separator kit without automatic pump stop device

Art. no. **2051** Air separator kit with automatic pump stop device (stopping the pump as soon as air is sucked into the suction line due to

an empty drum or tank)

Art. no.	2023	2024	2063	2064	2063130	2064130	
Compressed air supply		Pressure Min 2, Max 8 bar					
Compression ratio			3	:1			
Outlet pressure			20	bar			
Delivery			Min 0,5 - N	1ax 5 l/min			
Connection compressed air	1/4" BSP (F)						
Connection lubricant outlet			1/2" B	SP (M)			
Max air consumption with 8 bar pressure			210	l/min			
Length suction tube		950	mm		1500	mm	
Diameter suction tube			40 ו	mm			
Suitable for drums of		20	81		100	001	
Weight	8,5 kg	8,6 kg	8,8 kg	8,9 kg	9 kg	9,1 kg	
Dimensions (LxWxH) (mm)	95x120	0x1300	95x120	0x1300	95x120	0x1400	

The a. m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at 22°C -- Compressed air pressure 8 bar -- free flow outlet

Art. no. **2023** Art. no. **2063**

Double acting pneumatic pumps, for the mounting directly in 208 I – drums (= art. no. 2023, based on pump art. no. 2020) or as wall-mounted pump kits (= art. no. 2063, based on pump art. no. 2032) with air separator kit art.no. 2050 (without automatic pump stop) **according to OIML R117-1**, approved for the use in fiscal transactions.

Art. no. **2024** Art. no. **2064**

Double acting pneumatic pumps, for the mounting directly in 208 I – drums (= art. no. 2024, based on pump art. no. 2020) or as wall-mounted pump kits (= art. no. 2064, based on pump art. no. 2032) with air separator kit art. no. 2051 (with automatic pump stop, stopping the pump as soon as air is sucked into the suction line due to an empty drum or tank) **according to OIML R117-1**, approved for the use in fiscal transactions.

See accessories on pages 49 – 50 and 58 - 69!

Oil Pag. 44



Pneumatic pumps for the supply of medium and high viscosity oils for the use in mobile kits or in pipeworks.

SERIES TAPIR



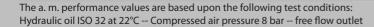








Art. no.	2013	2015	2012	2014	2016			
Compressed air supply		Pressure Min 2, Max 8 bar						
Compression ratio	2:1	5:1	6:1	5:1	6:1			
Outlet pressure	16 bar	16 bar 40 bar 48 bar			48 bar			
Delivery	48 l/min	18 l/min	32 l/min	18 l/min	32 l/min			
Connection compressed air	1/4" BSP (F) 1/4" BSP (F) 1/2" BSP (F)			1/4" BSP (F)	1/2" BSP (F)			
Connection lubricant outlet			3/4" BSP (M)					
Max air consumption with 8 bar pressure	220 l/min	220 l/min	260 l/min	220 l/min	260 l/min			
Length suction tube			950 mm					
Diameter suction tube	55 mm	40 mm	40 mm	40 mm	40 mm			
Suitable for drums of			208 l					
Weight	8,5 kg	8,5 kg 8,2 kg 12 kg			12 kg			
Dimensions (LxWxH) (mm)	95x95x1270 95x95x1500							

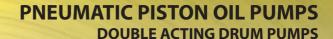


See accessories on pages 49 – 50 and 58 - 69!





Pag. 45 Oil





Heavy duty pneumatic pumps, industrial pump series "Power Bull", designed for the supply of oil under demanding conditions. Particularly suitable for the oil distribution in pipeworks and installations where a simultaneous supply of oil is required on different dispensing points at high pressure and/or with a high delivery.

SERIES POWER BULL









Art. no.	2057	2058	2088	2091		
Compressed air supply		Pressure Min 1	bar, Max 8 bar			
Compression ratio	10:1	16:1	4:1	6:1		
Delivery	27 l/min	15 l/min	64 l/min	42 l/min		
Outlet pressure	80 bar	128 bar	32 bar	48 bar		
Max frequence strokes/min	150	120	150	120		
Max air consumption with 8 bar pressure	2,05 m ³ /min	1,92 m³/min	2,05 m ³ /min	1,92 m³/min		
Diameter pneumatic piston	100 mm	125 mm	100 mm	125 mm		
Diameter suction tube	50 x 40 mm	50 x 40 mm	55 x 50 mm	55 x 50 mm		
Connection lubricant outlet		1″BS	P (M)			
Connection compressed air	1/2" BSP (M)					
Suitable for drums of	208					
Weight	15 kg	16 kg	16 kg	17 kg		

The a. m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at $22^{\circ}C$ -- Compressed air pressure 8 bar -- free flow outlet

See accessories on pages 49 – 50 and 58 - 69!





Art. no. 7180/12 Art. no. 7150/12

OPTIONAL Maintenance advise

In order to avoid a slowing-down or even a blocking of the pump due to a freezing of generated condensation water closing the air outlet of the motor, we recommend the installation of the above shown air treatment units at the compressed air connection of the pump.



PNEUMATIC PISTON OIL PUMPS

SINGLE ACTING WALL MOUNTED PUMPS

Heavy duty pneumatic pumps, industrial pump series "Power Bull", designed for the supply of oil under demanding conditions. Particularly suitable for the oil distribution in pipeworks and installations where a simultaneous supply of oil is required on different dispensing points at high pressure and/or with a high delivery.

SERIES POWER BULL









Art. no.	2055	2056	2096	2097	2098	
Compressed air supply		Pressu	ıre Min 1 bar, Max	(8 bar		
Compression ratio	10:1	16:1	4:1	10:1	1,5 : 1	
Delivery	27 l/min	15 l/min	50 l/min	40 l/min	122 l/min	
Outlet pressure	80 bar	128 bar	32 bar	80 bar	12 bar	
Max frequence strokes/min	150		12	20		
Max air consumption with 8 bar pressure	2,05 m ³ /min	1,92 m	n³/min	1,80 m³/min	1,92 m³/min	
Diameter pneumatic piston	100 mm	125 mm	125 mm	160 mm	125 mm	
Diameter suction tube	50 x 40 mm	50 x 40 mm	80 x 70 mm	80 x 70 mm	110 x 100 mm	
Connection lubricant outlet			1" BSP (M)			
Connection compressed air	1/2" BSP (F)					
Application	Wall mounted pump					
Weight	15 kg	16 kg	20 kg	23 kg	21 kg	

The a. m. performance values are based upon the following test conditions: Hydraulic oil ISO 32 at 22°C -- Compressed air pressure 8 bar -- free flow outlet

See accessories on pages 49 – 50 and 58 - 69!

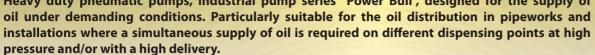
Pag. 47 Oil



PNEUMATIC PISTON OIL PUMPS **DOUBLE ACTING WALL MOUNTED PUMPS**

Heavy duty pneumatic pumps, industrial pump series "Power Bull", designed for the supply of

SERIES POWER BULL

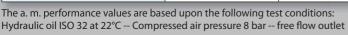








Art. no.	2092	2093	2094
Compressed air supply	Pres	sure Min 1 bar, Max 8	3 bar
Compression ratio	7:1	4:1	6:1
Delivery	40 l/min	62 l/min	55 l/min
Outlet pressure	56 bar	32 bar	48 bar
Max frequence strokes/min	120	120	60
Max air consumption with 8 bar pressure	1,92 m³/min	1,92 m³/min	1,80 m ³ /min
Diameter pneumatic piston	125 mm	125 mm	160 mm
Diameter suction tube	55 x 50 mm	80 x 70 mm	80 x 70 mm
Connection lubricant outlet		1" BSP (M)	
Connection compressed air		1/2" BSP (F)	
Application			
Weight	15 kg	20 kg	32 kg





See accessories on pages 49 – 50 and 58 - 69!

Oil Pag. 48



ACCESSORIES FOR PNEUMATIC OIL PUMPS SERIES "POWER BULL"



Art. no. 2214/50

Wall bracket in galvanized steel, suitable for the installation of pneumatic oil pumps, series "Power Bull", art. nos. 2055 – 2056. Dimensions: 290 x 290 x 250 mm – ø cylinder 50 mm. Distances between fixation holes: 230 x 205 mm.

Art. no. 2214/55

Wall bracket in galvanized steel, suitable for the installation of pneumatic oil pumps, series "Power Bull", art. no. 2092. Dimensions: $290 \times 290 \times 250 \text{ mm} - \emptyset$ cylinder 55 mm. Distances between fixation holes: $230 \times 205 \text{ mm}$.

Art. no. 2214/80

Wall bracket in galvanized steel, suitable for the installation of pneumatic oil pumps, series "Power Bull", art. nos. 2093 - 2094 - 2096 - 2097. Dimensions: $290 \times 290 \times 250$ mm – ø cylinder 80 mm. Distances between fixation holes: 230×205 mm.

Art. no. 2214/110

Wall bracket in galvanized steel, suitable for the installation of pneumatic oil pumps, series "Power Bull", art. no. 2098. Dimensions: $290 \times 290 \times 250 \text{ mm} - \emptyset \text{ cylinder } 110 \text{ mm}$. Distances between fixation holes: $230 \times 205 \text{ mm}$.



Art. no. 2216

Suction tube in galvanized steel, \emptyset 55 mm, length 950 mm, with 90° - curved connection 1 1/4″ BSP (M), with foot valve. Suitable for the use of wall-mounted pneumatic oil pumps, series "Power Bull", with 208 I – drums.

Art. no. 2218

Rubber suction hose SAE 100 R1 AT, Ø 1 1/4", connections 1 1/4" BSP (F-F), length 1500 mm.

Suction tubes and suction hoses in other lengths available on demand!



Art. no. 4343/50

Metal bung adapter for the fixation of pumps, series "Power Bull", on drums or tanks. Connection 2" BSP (M) x 50 mm. Suitable for art. nos. 2057 – 2058.

Art. no. 4343/55

Metal bung adapter for the fixation of pumps, series "Power Bull", on drums or tanks. Connection 2" BSP (M) x 55 mm. Suitable for art. nos. 2088 – 2091.



Art. no. 4342/50

Metal flange plate for fixation of pumps, series "Power Bull", with suction tube diameter 50 mm, without bung adapter. Suitable for art. Nos. 2055 - 2056 – 2057 - 2058.

Art. no. 4342/55

Metal flange plate for fixation of pumps, series "Power Bull", with suction tube diameter 55 mm, without bung adapter. Suitable for art. nos. 2088 – 2091 - 2092.



Art. no. **7180/12** Art. no. **7150/12**

Compressed air treatment unit, composed of pressure regulator with manometer and moisture separator (art. no. 7180/12) or pressure regulator with manometer, condensation water separator and lubricator (art. no. 7150/12). Connections: BSP 1/2".

Pag. 49 Oil



ACCESSORIES FOR PNEUMATIC OIL PUMPS



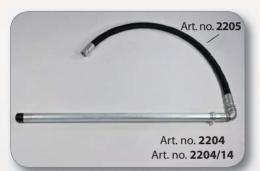
Art. no. 2203

Wall bracket in galvanized steel, suitable for the installation of pneumatic oil pumps, standard series.

Dimensions: 170 x 140 x 235 mm.

Distances between fixation holes: 140 x 200 mm.





Art. no. 2204

Suction tube in galvanized steel, \emptyset 40 mm, length 950 mm, with 90° - curved connection 1″ BSP (M), with foot valve. Suitable for the use of wall-mounted pneumatic oil pumps, standard series, with 208 l – drums.

Art. no. 2204/14

Suction tube in galvanized steel, ø 40 mm, length 1100 mm, with 90° - curved connection 1″ BSP (M), with foot valve. Suitable for the use of wall-mounted pneumatic oil pumps, standard series, with 1000 l – IBC -tanks.

Art. no. 2205

Rubber suction hose SAE 100 R1 AT, Ø 1", connections 1" BSP (F-F), length 1500 mm. Suction tubes and suction hoses in other lengths available on demand!



Art. no. 4340

Plastic bung adapter for the fixation of pumps on drums, connection 2" BSP (M) x 40 mm.

Art. no. 4341

Plastic lock ring, 2", for bung adapter art. no. 4340.



Art. no. 2212

Steel mounting plate, for the fixation of pneumatic pumps and accessories on $1000 \, \text{I} - \text{IBC} - \text{tanks}$. Prepared for bung adapter for the fixation of pumps, connection thread $3/4'' \, \text{BSP}$ (F).

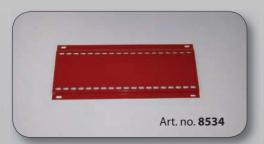
Dimensions: 270 x 270 mm.



Art. no. **2217**

Connection adapter for 1000 I – IBC – tanks in PP, ø 70 mm, connection 1" BSP (M).





Art. no. **8534**

Metal rack for wall mounting of pumps, length 1350 mm.

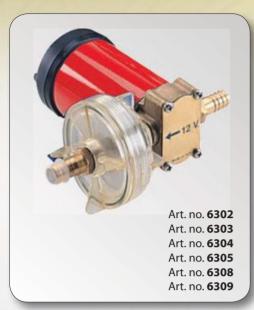


Oil Pag. 50

PNEUMATIC AND ELECTRIC OIL PUMPS



Portable pneumatic and electric pumps, suitable for the transfer of small fluid quantities.



Electric gear pump for the transfer of low viscosity oil, antifreeze, diesel, water.

Suitable for an intermittent use.

Pump body in brass, gears in bronze and pump shaft in stainless steel.

Electric cable and crocodile clamps not included.



Art. no.	Voltage	Current drain	Protection category	Delivery	Outlet pressure	Connections	Weight	Dimensions (LxWxH) (mm)
6302	12 Vdc	6,5 A	IP 55	5 l/min	2 bar	3/8" BSP (F)	1,5 kg	165x160x80
6303	12 Vdc	6,5 A	IP 55	9 l/min	4 bar	3/8" BSP (F)	2,5 kg	165x166x80
6304	24 Vdc	3,5 A	IP 55	5 l/min	2 bar	3/8" BSP (F)	1,5 kg	165x160x80
6305	12 Vdc	6,5 A	IP 55	15 l/min	4 bar	3/8" BSP (F)	4 kg	180x230x83
6308	24 Vdc	3,5 A	IP 55	9 l/min	4 bar	3/8" BSP (F)	2,5 kg	165x166x80
6309	24 Vdc	3,5 A	IP 55	15 l/min	4 bar	3/8" BSP (F)	4 kg	180x230x83



Electric gear pump for the transfer of low viscosity oil, antifreeze, diesel, water.

Suitable for an intermittent use.

Pump body in brass, gears in bronze and pump shaft in stainless steel. With metal cover, ON-/OFF switch and 1 m - cable with alligator clamps for battery connection.



Art. no.	Voltage	Current drain	Protection category			Connections	Weight	Dimensions (LxWxH) (mm)
6312	12 Vdc	6,5 A	IP 55	6 l/min	2 bar	3/8" BSP (F)	2,5 kg	165x160x80
6314	12 Vdc	6,5 A	IP 55	15 l/min	4 bar	3/8" BSP (F)	4,5 kg	185x240x85
6324	24 Vdc	3,5 A	IP 55	6 l/min	2 bar	3/8" BSP (F)	2,5 kg	165x160x80
6326	24 Vdc	3,5 A	IP 55	15 l/min	4 bar	3/8" BSP (F)	4,5 kg	185x240x85



Pneumatic rotary gear pump for the transfer of low viscosity oil, antifreeze, diesel, water.

Pump body in brass (art. no. 6559) or in stainless steel (art. no. 1058), gears in bronze, seals in Viton® and pump shaft in stainless steel.



Art. no.	Compressed air supply	Outlet pressure	Delivery	Connections	Weight	Dimensions (LxWxH) (mm)
6559	4 bar	4 bar	10,5 l/min	3/8" BSP (F)	1,5 kg	165x160x80
1058	4 bar	4 bar	10,5 l/min	3/8" BSP (F)	1,5 kg	165x160x80







Electric gear pump, self-priming, protection category IP 55, for the supply of oil, antifreeze, diesel, water at medium pressure; guarantees a constant flow and a low noise level.

Pump body in stainless steel, gears in bronze and pump shaft in stainless steel.

Includes a bypass valve preset on 15 bar pressure and 1,5 m - electric cable with SCHUKO plug.



,	Art. no.	Voltage	Power	Current drain		Outlet pressure	Delivery I/min	Connections	Weight
	6125	110 Vac - 60 Hz	0,55 kw	4 A	2800	15 bar	10,5	3/8"BSP (F)	7,5 kg
	6122	230 Vac - 50 Hz	0,55 kw	4 A	2800	15 bar	10,5	3/8" BSP (F)	7,5 kg
	6128	400 Vac - 50 Hz	0,55 kw	4 A	2800	15 bar	10,5	3/8"BSP (F)	7,5 kg



Electric, self-priming gear pump for the supply of oil, antifreeze, diesel, water at medium pressure; guarantees a constant flow and a low noise level. Pump body in stainless steel, gears in bronze and pump shaft in stainless steel.

Kit includes a bypass valve preset on 15 bar pressure, an inline oil filter, a manometer for outlet pressure control, a 1,5 m - electric cable with SCHUKO plug and an electronic pressure switch that starts the pump once the control gun is activated and stops it again due to the pressure increase in the circuit once the gun is closed. Protection category IP 55.



Art. no.	Voltage	Power	Current drain	Rpm	Outlet pressure	Delivery l/min	Connections	Weight
6141	230 Vac - 50 Hz	0,55 kw	4 A	2800	15 bar	10,5	3/8"BSP (F)	11,5 kg
6129	400 Vac - 50 Hz	0,55 kw	4 A	2800	15 bar	10,5	3/8"BSP (F)	11,5 kg



Electric, self-priming gear pump for the supply of oil, approved for fiscal transactions according to the European **Directive 2004/22/EC**, better known as Measurement Instrument Directive (MID) MI-005, meeting also the requirements of **OIML R117-1 (DIN 19217)**. Consisting of:

- electric, self-priming 230 VAC gear pump, art. no. 6122;
- automatic air separator kit, art. no. 2054, suitable to separate the air eventually present in the suction line from the oil, with automatic pump stop device, approved according to OIML R117-1; includes also manometer for the control of the outlet pressure and non-return valve;
- control box with push button and electric connection cable;
- double electronic pressure switch that starts the pump once the control gun is activated and stops it again due to the pressure increase in the circuit once the gun is closed;
- bypass valve preset on 15 bar pressure;
- 1,5 m electric cable with SCHUKO plug; Protection category IP 55.

Art. no.	Voltage	Power	Current drain	Rpm	Outlet pressure	Delivery I/min	Connections	Weight
6124	230 Vac - 50 Hz	0,55 kw	4 A	2800	15 bar	10	1/2" BSP (M)	13 Kg





Electric, self-priming gear pump, for the supply of oil under demanding conditions at medium pressure and with long pumping distances; guarantees a constant flow and delivery, even after long pumping distances or with simultaneous supplies.

Available with motors in 230 Vac, 400 Vac and 110 Vac.

Includes a bypass valve preset on 28 bar pressure.

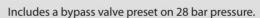
Electric cable with plug not included.

	, ,							
Art. no.	Voltage	Power	Current drain	Rpm	Outlet pressure	Delivery I/min	Connections IN - OUT	Weight
6133	110 Vac - 60 Hz	1,5 Kw	6 A	1400	28 bar	33	1"BSP (M) - 1"BSP (M)	28 kg
6135	230 Vac - 50 Hz	1,5 kw	6 A	1400	28 bar	33	1"BSP (M) - 1"BSP (M)	28 kg
6138	400 Vac - 50 Hz	1,5 kw	5 A	1400	28 bar	33	1"BSP (M) - 1"BSP (M)	30 kg
6145	230 Vac - 50 Hz	2,2 kw	6 A	1400	28 bar	53	1"BSP (M) - 1"BSP (M)	30 kg
6149	400 Vac - 50 Hz	2,2 kw	5 A	1400	28 bar	53	1"BSP (M) - 1"BSP (M)	32 kg



Kit **6136**

Electric gear pump, art. no. 6135, equipped with kit art.no. 7373 consisting of pressure accumulator, inline oil filter, non-return valve, manometer, connection adapters and an electronic pressure switch that starts the pump once the control gun is activated and stops it again due to the pressure increase in the circuit once the gun is closed. The pressure accumulator guarantees a constant oil flow by avoiding continuous starts and stops of the motor that could cause damages in case of dispensing small quantities.



Electric cable with plug not included.

Art. no.	Voltage	Power	Current drain	Rpm	Outlet pressure	Delivery I/min	Connections IN - OUT	Weight
6136	230 Vac - 50 Hz	1,5 kw	6 A	1400	28 bar	33	1"BSP (M) - 3/4"(M) BSP	33 kg



Kit **3049**

Encased oil supply kit, composed of: electric gear pump, art. no. 6136, metal and lockable cover, art. no. 7376, and safety switch of protection category IP 55, art. no. 7370, with 3 m – cable and plug.



Encased oil supply kit, such as art. no. 3049, but including electric gear pump, art. no. 6145, with delivery 53 l/min. Ideal for pipework installations.



Art. no.	Voltage	Power	Current drain	Rpm	Outlet pressure	Delivery I/min	Connections IN - OUT	Weight
3049	230 Vac - 50 Hz	1,5 kw	6 A	1400	28 bar	33	1"BSP (M) - 1"BSP (M)	37 kg
3050	230 Vac - 50 Hz	2,2 kw	6 A	1400	28 bar	53	1"BSP (M) - 1"BSP (M)	39 kg



ELECTRONIC AND MECHANICAL OIL FLOW METERS



Art. no. 2954

Electronic oval gears flow meter with pulse transmitter, suitable for oil and antifreeze. Appropriate to the use in combination with electronic oil monitoring systems by the use of an external receiver.

Art. no.	Connections	Max flow (l/min)	Operating temperature range	Max working pressure (bar)	Accuracy	Number of pulses	Weight
2954	1/2"BSP (F)	20	+10°C/+50°C	70	+ / - 0,5%	78/I	0,6 Kg



Art. no. 2955

Electronic oval gears flow meter with pulse transmitter, suitable for oil and antifreeze, including a solenoid valve, an inline filter and a wall bracket. Appropriate to the use in combination with electronic oil monitoring systems by the use of an external receiver.

Art. no.	Connections	Max flow (l/min)	Operating temperature range	Max working pressure (bar)	Accuracy	Number of pulses	Weight
2955	1/2"BSP (F)	20	+10°C/+50°C	70	+ / - 0,5%	78/I	1,2 Kg



Art. no. 2959

Electronic oval gears flow meter with pulse transmitter, body in stainless steel AISI 303. Appropriate to the use in combination with electronic oil monitoring systems by the use of an external receiver.

	Connections Max flow (I/min)		Operating temperature range	Max working pressure (bar)	Accuracy	Number of pulses	Weight
2959	1/2"BSP (F)	20	+10°C/+50°C	70	+ / - 0,5%	78/I	1,3 Kg



Art. no. 2957

Electronic oval gears flow meter with pulse transmitter, body in stainless steel AISI 303, including a stainless steel solenoid valve and a wall bracket; suitable for the use with water-based fluids and AdBlue® (DEF). Appropriate to the use in combination with electronic oil monitoring systems by the use of an external receiver.

	Connections	Max flow (l/min)	Operating temperature range	Max working pressure (bar)	Accuracy	Number of pulses	Weight
2957	1/2"BSP (F)	20	+10°C/+50°C	70	+ / - 0,5%	78/I	1,2 Kg



Art. no. 2853

Electronic oval gears high delivery flow meter with pulse transmitter, suitable for oil, diesel and antifreeze. Appropriate to the use in combination with electronic oil monitoring systems by the use of an external receiver.

Art. no	. Connections			Max working pressure (bar)	Accuracy	Number of pulses	Weight
2853	1/2"BSP (F)	70	+10°C/+50°C	50	+ / - 0,5%	39/l	1,6 Kg

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RUBBER HOSES AND FITTINGS FOR OIL



High pressure rubber hoses SAE 100 R1 AT, with female, straight BSP – connections, suitable for the supply of oil, diesel, petrol and water. Ideal for the connection on pumps or hose reels.

Internal structure and coating: synthetic rubber, resistant to oil, diesel, petrol and hydraulic fluids. Reinforcement: 1 steel wire braided, highly resistant layer.



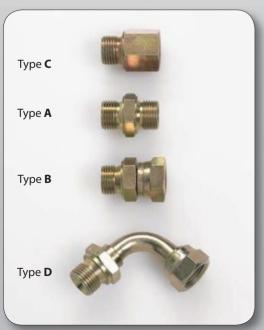
HOW TO ORDER

Length	Ø 1/ 2″ Art. no.	Ø 3/4" Art. no.	Ø 1" Art. no.	Ø 1'1/4" Art. no.
0,5 m	287005	289005	2895005	281401
1 m	28701	28901	289501	2814005
1,5 m	287015	289015	2895015	2814015
2 m	28702	28902	289502	281402
3 m	28703	28903	289503	281403
5 m	28705	28905	289505	281405
6 m	28706	28906	289506	281406
7 m	28707	28907	289507	281410
10 m	28710	28910	289510	281415
15 m	28715	28915	289515	281420
20 m	28720	28920	289520	281425
25 m	28725	28925	289525	281430
30 m	28730	28930	289530	281435
40 m	28740	28940	289540	281440

Other lengths available on demand!

TECHNICAL DATA

TECHNICAL DATA				
Nominal diameter	1/2"	3/4"	1"	1'1/4"
Internal diameter (mm)	12,7 mm	19 mm	25 mm	31,8 mm
Wire braid diameter (mm)	18,3 mm	25,4 mm	33,3 mm	40,5 mm
External diameter (mm)	20,6 mm	27,7 mm	35,6 mm	43,5 mm
Working pressure (bar)	160 bar	105 bar	88 bar	63 bar
Test pressure (bar)	385 bar	255 bar	190 bar	120 bar
Burst pressure (bar)	640 bar	420 bar	350 bar	250 bar
Min. bending radius (mm)	180 mm	240 mm	300 mm	420 mm
Working temperature	min -40°C max +100°C	min -40°C max +100°C	min -40°C max +100°C	min -40°C max +100°C
Weight (kg/m)	0,430 Kg/m	0,610 Kg/m	0,940 Kg/m	1,19 kg/m



Type A Double male connection adapter, BSP,	Art. no. 9910	1/2" x 1/2"
galvanized steel	Art. no. 9911	1/2" x 3/8"
	Art. no. 9912	1/2" x 1/4"
	Art. no. 9915	1/2" x 3/4"
	Art. no. 9924	1" x 3/4"
	Art. no. 9925	3/4" x 3/4"
	Art. no. 9927	1" x 1"
	Art. no. 9928	1" x 1/2"
	Art. no. 9948	1" 1/4"x 1"
galvanized steel		
Type C Male – female connection adapter, BSP, galvanized	Art. no. 9905	1/2" x 1/4"
steel	Art. no. 9906	1/2" x 3/8"
	Art. no. 9902	1/2" x 1/2"
	Art. no. 9903	1/2" x 3/4"
Type D 90°- curved male – female connection adapter, BSP, galvanized steel	Art. no. 9939	1/2" x 1/2"

Oil Pag. 68





High pressure rubber hoses in accordance with SAE 100 R1AT, with swaged female BSP connection threads (swivel nuts), suitable for the supply of **oils** and **diesel** at high pressure.

Internal structure in oil-resistant, synthetic rubber, coating in rubber highly resistant to abrasion, ozone and atmospheric influences. Reinforcement: 1 steel wire braided, highly resistant layer.

Art. no.	Nominal ø	Internal ø	External ø	Working pressure	Burst pressure	Min bending radius	Working temperature (min/max)	Weight
287XX	1/2"	12,7 mm	20,6 mm	160 bar	640 bar	180 mm	-40/+100°C	0,43 kg/m
289XX	3/4"	19,0 mm	27,7 mm	105 bar	420 bar	240 mm	-40/+100°C	0,61 kg/m
2895XX	1"	25,4 mm	35,6 mm	88 bar	350 bar	300 mm	-40/+100°C	0,94 kg/m

XX= stands for the required hose length in meters (f. ex. 28715 = 15 m).



High pressure rubber hoses in accordance with SAE 100 R2AT, with swaged female BSP connection threads (swivel nuts), suitable for the supply of **grease** and **water** at high pressure. Internal structure in oil-resistant, synthetic rubber, coating in rubber highly resistant to abrasion, ozone and atmospheric influences. Reinforcement: 2 steel wire braided, highly resistant layers.

Art. no.	Nominal ø	Internal ø	External ø	Working pressure	Burst pressure	Min bending radius	Working temperature (min/max)	Weight
45XX	1/4"	6,4 mm	15 mm	400 bar	1600 bar	100 mm	-40/+100°C	0,36 kg/m
47XX	3/8"	9,5 mm	19 mm	330 bar	1320 bar	130 mm	-40/+100°C	0,53 kg/m
48XX	1/2"	12,7 mm	22,2 mm	275 bar	1100 bar	180 mm	-40/+100°C	0,63 kg/m
488XX	3/4"	19 mm	29,3 mm	215 bar	850 bar	240 mm	-40/+100°C	0,92 kg/m
4885XX	1"	25,4 mm	38,1 mm	165 bar	650 bar	300 mm	-40/+100°C	1,38 kg/m

XX= stands for the required hose length in meters (f. ex. 287**15** = 15 m)



High pressure, **blue antistaining rubber hoses**, in accordance with SAE 100 R2AT, with swaged female BSP connection threads (swivel nuts), suitable for the supply of **water** at high pressure (f. ex. in combination with high pressure cleaners).

Internal structure in oil-resistant, synthetic rubber, coating in rubber highly resistant to abrasion, ozone and atmospheric influences. Reinforcement: 2 steel wire braided, highly resistant layers.

	Art. no.	Nominal ø	Internal ø	External ø	Working pressure	Burst pressure	Min bending radius	Working temperature (min/max)	Weight
4	6XXAM	5/16"	7,9 mm	15 mm	400 bar	1600 bar	85 mm	-10/+160°C	0,36 kg/m
4	7XXAM	3/8"	9,5 mm	18 mm	400 bar	1600 bar	90 mm	-10/+160°C	0,46 kg/m

XX= stands for the required hose length in meters (f. ex. 28715 = 15 m)



Low pressure rubber hoses in accordance with SAE 100 R6 – DIN EN 854, with swaged female BSP connection threads (swivel nuts), suitable for the supply of **diesel** and **water** at low pressure. Internal structure in oil-resistant, synthetic rubber, coating in rubber highly resistant to abrasion, ozone and atmospheric influences. Reinforcement: 1 textile braided and 1 steel wire braided layer.

Art. no.	Nominal ø	Internal ø	External ø	Working pressure	Burst pressure	Min bending radius	Working temperature (min/max)	Weight
288XX	3/4"	19 mm	26 mm	17 bar	97 bar	140 mm	-40/+100°C	0,32 kg/m
2896XX	1"	25 mm	32 mm	17 bar	97 bar	152 mm	-40/+100°C	0,43 kg/m
2897XX	1'1/4"	32 mm	43 mm	10 bar	40 bar	185 mm	-40/+100°C	1,02 kg/m
28997XX	1'1/2"	38 mm	50 mm	10 bar	40 bar	225 mm	-40/+100°C	1,60 kg/m

XX= stands for the required hose length in meters (f. ex. 287**15** = 15 m)

Hose reels Pag. 242



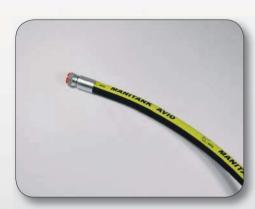


Low pressure synthetic rubber hoses CASER with swaged female BSP connection threads (swivel nuts) in brass (on demand also in stainless steel), suitable for the use with **hot water** in food industry applications.

Internal structure white, food industry – qualified synthetic rubber, coating in blue rubber highly resistant to abrasion, heat, ozone and atmospheric influences. Reinforcement with highly resistant synthetic cord. In accordance with FDA food industry standards.

Art. no	. Nominal ø	Nominal ø Internal ø External ø		Working pressure	3		Working temperature (min/max)	Weight
187X)	1/2"	12 mm	22 mm	15 bar	45 bar	100 mm	-35/+110°C	0,35 kg/m
189X)	3/4"	19 mm	31 mm	15 bar	45 bar	112 mm	-35/+110°C	0,51 kg/m

XX= stands for the required hose length in meters (f. ex. 28715 = 15 m)



Low pressure hoses in hydrocarbon resistant black rubber with swaged female BSP connection threads (swivel nuts), suitable for the use with **fuels** and **petrol** in accordance with **norm EN 1761:1994**. Smooth internal structure in black rubber, resistant to hydrocarbons with an aromatic content of not more than 60 % and unleaded petrol with a max MTBE - content of 5 %. Cover in conductive black rubber, highly resistant to abrasion, ozone and atmospheric influences. Reinforcement with highly resistant synthetic cord. Resistant to inflammability in accordance with code of practice forflammable fluids TRbF 131, part 2, no. 5.5.

Art. no.	o. Nominal ø Internal ø Exte		External ø	Working pressure	Burst pressure	Min bending radius	Working temperature (min/max)	Weight
2894XX	1"	25 mm	38 mm	18 bar	81 bar	182 mm	-30/+70°C	0,85 kg/m

XX= stands for the required hose length in meters (f. ex. 287**15** = 15 m)



Low pressure synthetic GPH rubber hoses (General Purpose Hoses) with swaged female BSP connection threads (swivel nuts) in stainless steel, suitable for the use with **AdBlue®/DEF/AUS32**, water at low and high temperatures, chemical fluids, acids, glycol and compressed air at low pressure. Internal structure in conductive black rubber, cover in black rubber, highly resistant to abrasion, heat, ozone and atmospheric influences. Reinforcement with highly resistant synthetic cord. In accordance with norm BS 2050:1978.

Art. no.	Nominal ø	Internal ø	External ø	Working pressure	Burst pressure	Min bending radius	Working temperature (min/max)	Weight
2898XX	1/2"	13 mm	21 mm	20 bar	60 bar	100 mm	-40/+120°C	0,26 kg/m
2899XX	3/4"	19 mm	30 mm	20 bar	60 bar	112 mm	-40/+120°C	0,57 kg/m

XX= stands for the required hose length in meters (f. ex. 28715 = 15 m)



Low pressure, blue PVC – hoses with swaged female BSP connection threads (swivel nuts) in brass, suitable for the use with **compressed air** and **water** at low pressure. Reinforcement with highly break resistant polyester cord.

Art. no.	Nominal ø	Internal ø	External ø Working pressure		Burst pressure	Min bending radius	Working temperature (min/max)	Weight
38XX	3/8"	10 mm	16,5 mm	40 bar	120 bar	80 mm	-15 / +50°C	0,19 kg/m
277XX	1/2"	13 mm	20 mm	40 bar	120 bar	100 mm	-15 / +50°C	0,25 kg/m
399XX	3/4" 19 mm		28 mm	40 bar	120 bar	112 mm	-15 / +50°C	0,47 kg/m

XX= stands for the required hose length in meters (f. ex. 28715 = 15 m)

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