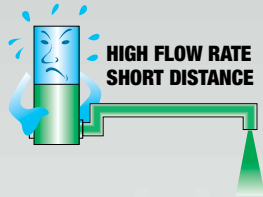




# Air-operated pumps for TRANSFER

Ratio 1:1 Flow rate 35 l/min



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

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

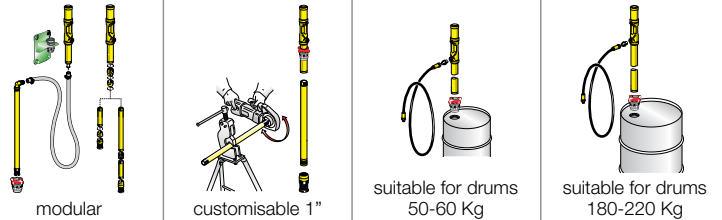


series 500

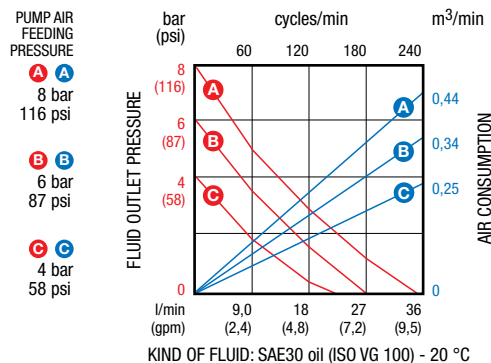
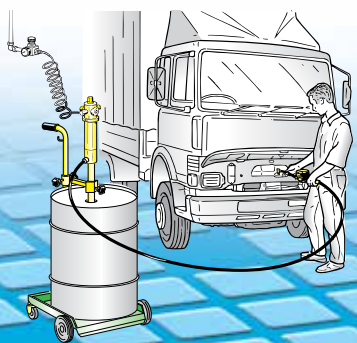
Article with seals in <b>NBR</b>				
Article with seals in <b>VITON</b>	<b>26090</b>	<b>26091</b>	<b>26093</b>	<b>26094</b>
Article with seals in <b>TEFLON</b>				

Compatible fluids	Oils, lubricants and similar			
Suction tube upper body	Aluminium			
Suction tube	Carbon steel			
Air inlet connection	bsp F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
Fluid outlet connection	bsp F 3/4" G	F 3/4" G	F 3/4" G	F 3/4" G
Air working pressure	bar 6 - 8	6 - 8	6 - 8	6 - 8
Average air consumption	l/min 250	250	250	250
Noise level	dB 81	81	81	81
Max deliverable oil viscosity	SAE 80	80	80	80
Bung adaptor	-	standard	standard	standard

Suitable for drums or tanks

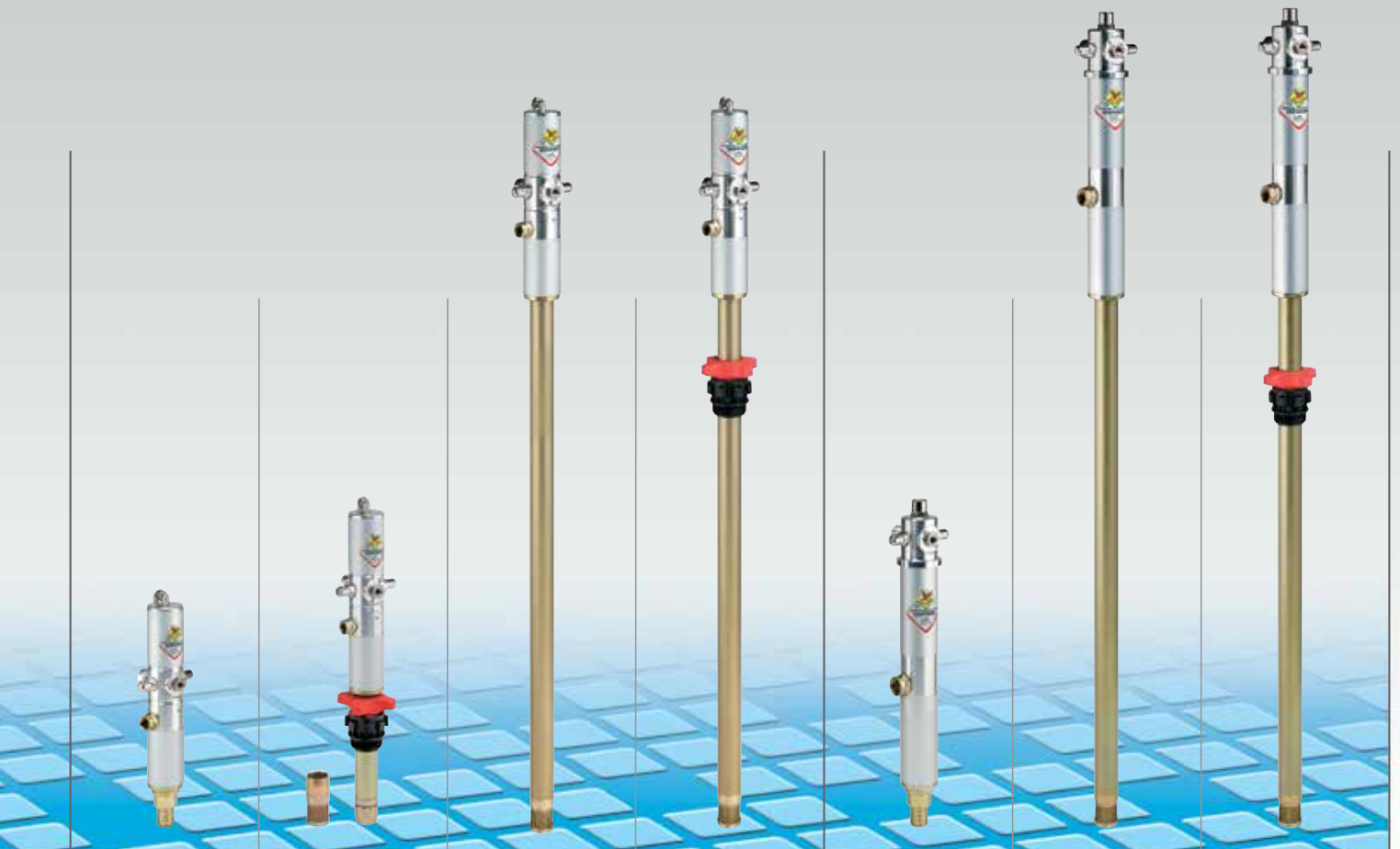


Packing	N° - m <sup>3</sup>	1 - 0,010	1 - 0,010	1 - 0,020	1 - 0,020
Weight	Kg	5,5	6	7,2	7,2
Dimensions (A - B - C)	cm	33,2 - 20,8 - 5	33,2 - 16,8 - 5	33,2 - 74 - 5	33,2 - 94 - 5



Ratio 1:1 Flow rate 23 l/min

Ratio 1:1 Flow rate 40 l/min



series 600

serie 650

33080  
33070  
33060

33081  
33071  
33061

33082  
33072  
33094

33083  
33073  
33096

33170  
33160

33172  
33194

33173  
33196

Oils, lubricants and similar  
Aluminium  
Carbon steel

Oils, lubricants and similar  
Aluminium  
Carbon steel

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

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

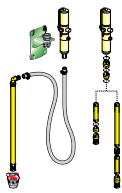
F 1/4" G  
F 1/2" G  
6 - 8  
230  
81  
80  
-

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

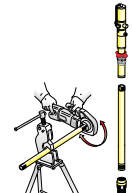
F 1/4" G  
F 3/4" G  
6 - 8  
370  
81  
130  
-

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

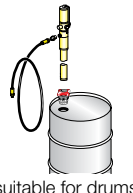
F 1/4" G  
F 3/4" G  
6 - 8  
370  
81  
130  
standard



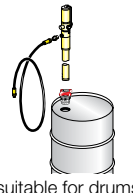
modular



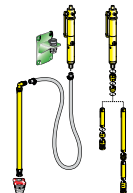
customisable 1"



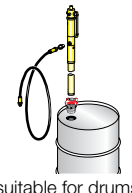
suitable for drums  
180-220 Kg



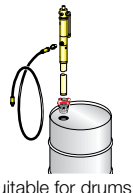
suitable for drums  
180-220 Kg



modular



suitable for drums  
180-220 Kg



suitable for drums  
180-220 Kg

1 - 0,006  
4,3

1 - 0,006  
5

1 - 0,020  
6,2

1 - 0,020  
6,3

1 - 0,010  
5,3

1 - 0,020  
7,3

1 - 0,020  
7,4

35,5 - 0 - 0

35,5 - 22 - 4,2

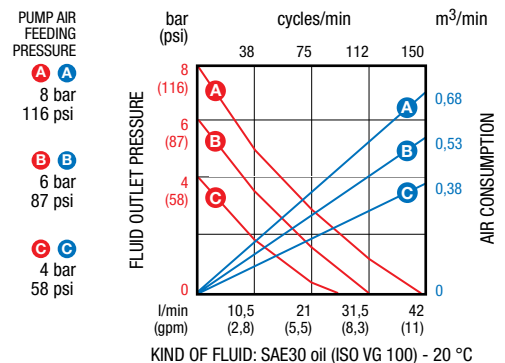
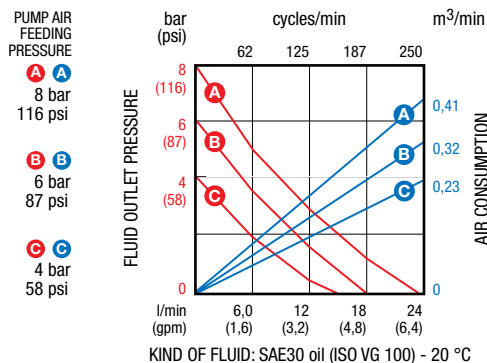
35,5 - 94 - 4,2

35,5 - 94 - 4,2

50,5 - 0 - 0

50,5 - 94 - 4,2

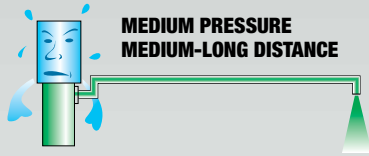
50,5 - 94 - 4,2



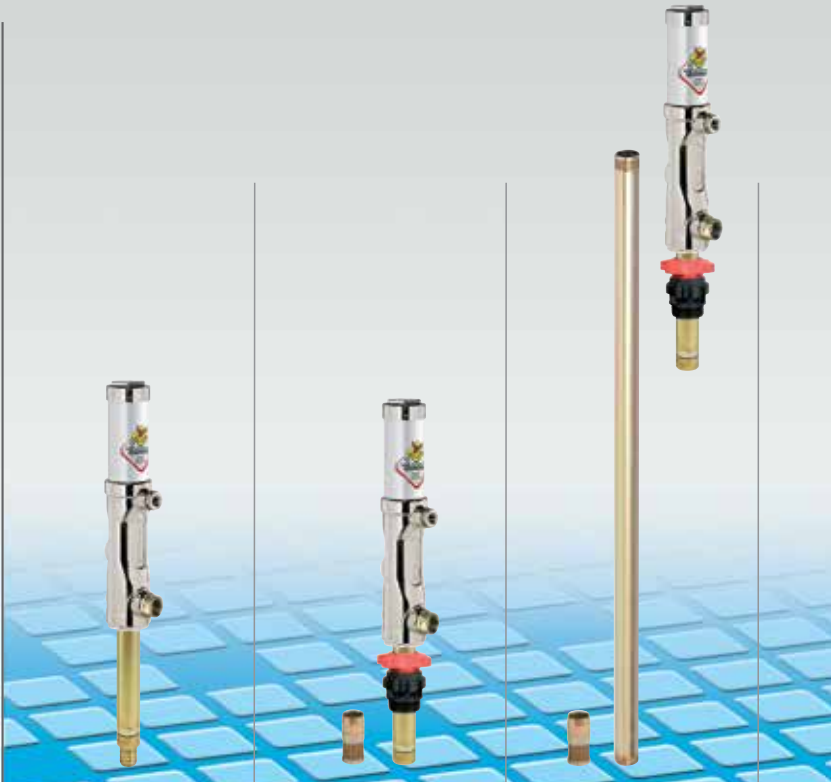


# Air-operated pumps for DISTRIBUTION

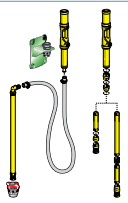
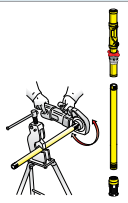
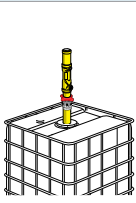


Ratio **3:1** Flow rate **20 l/min**

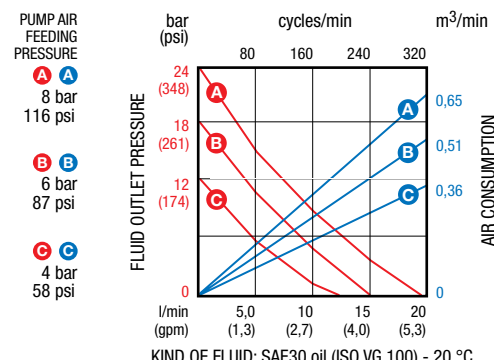


**Air-operated pumps series 500 and 600 for medium distance distribution.** Ideal for transferring low-medium viscosity fluids such as: oils, lubricants and similar products. Suitable for mobile unit or fixed installation. The wall-mounted version of these pumps, mounted on wall or in a fixed position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

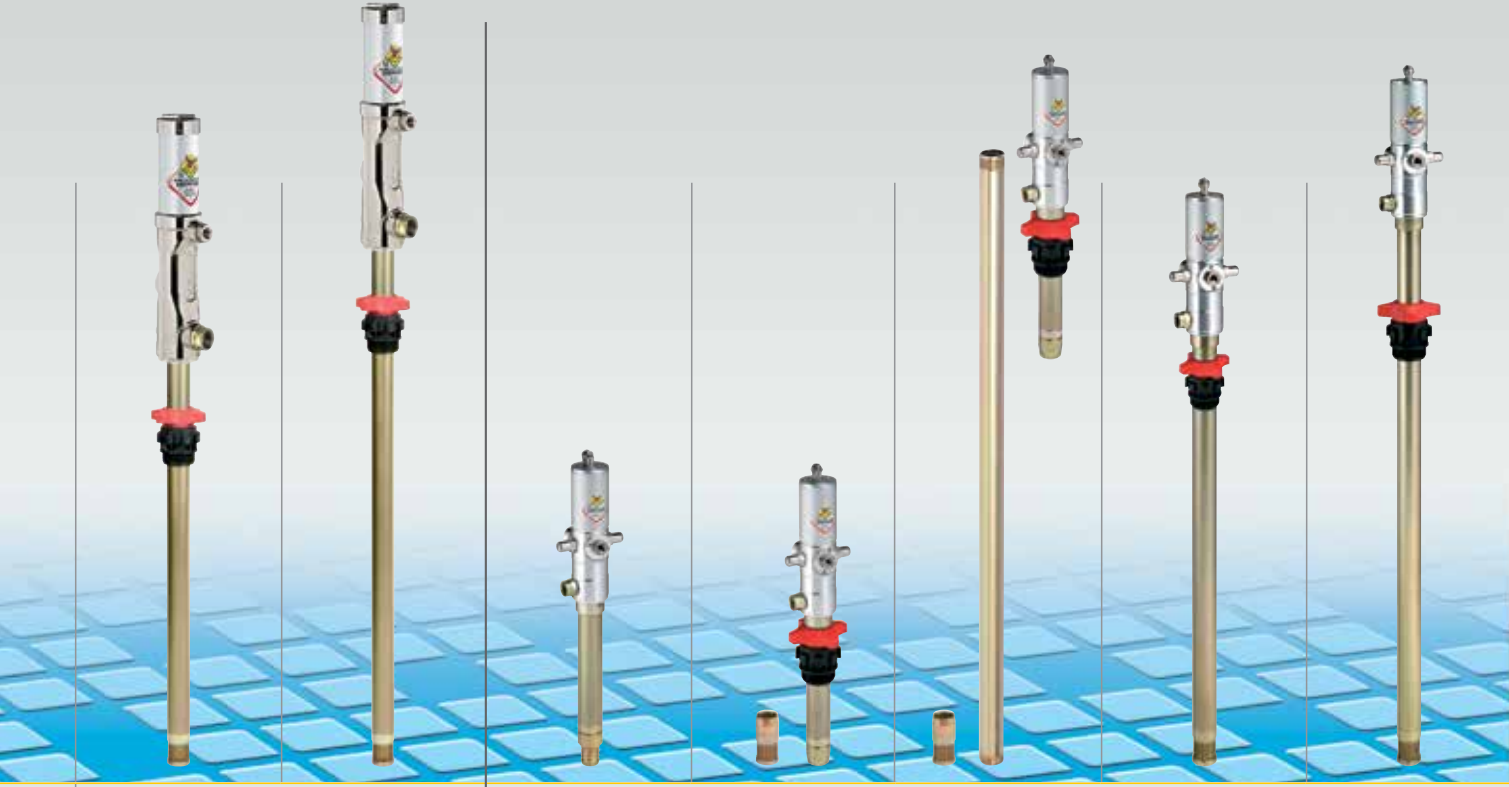


series 500

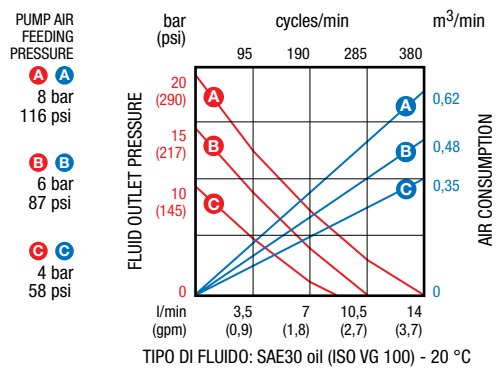
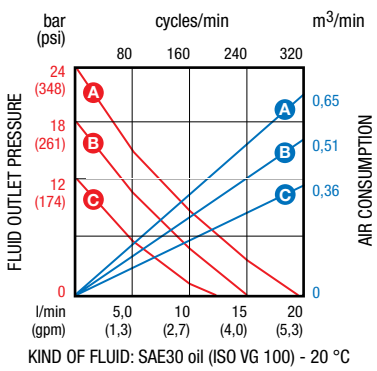
Article with seals in	<b>NBR</b>		
Article with seals in	<b>NBR</b>		
Article with seals in	<b>VITON</b>	<b>35060</b>	<b>35061</b>
Compatible fluids		Oils, lubricants and similar	
Suction tube upper body		Aluminium	
Suction tube		Carbon steel	
Air inlet connection	bsp	F 1/4" G	F 1/4" G
Fluid outlet connection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



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



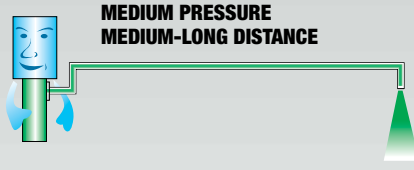
series 500		series 600				
		35160	35161	35163	35173	35194
					35176	35196
<b>35076</b>	<b>35094</b>					
Oils, lubricants and similar Aluminium Carbon steel		Oils, lubricants and similar Aluminium Carbon steel				
F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G	F 1/4" G
F 1/2" G	F 1/2" G	F 1/2"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



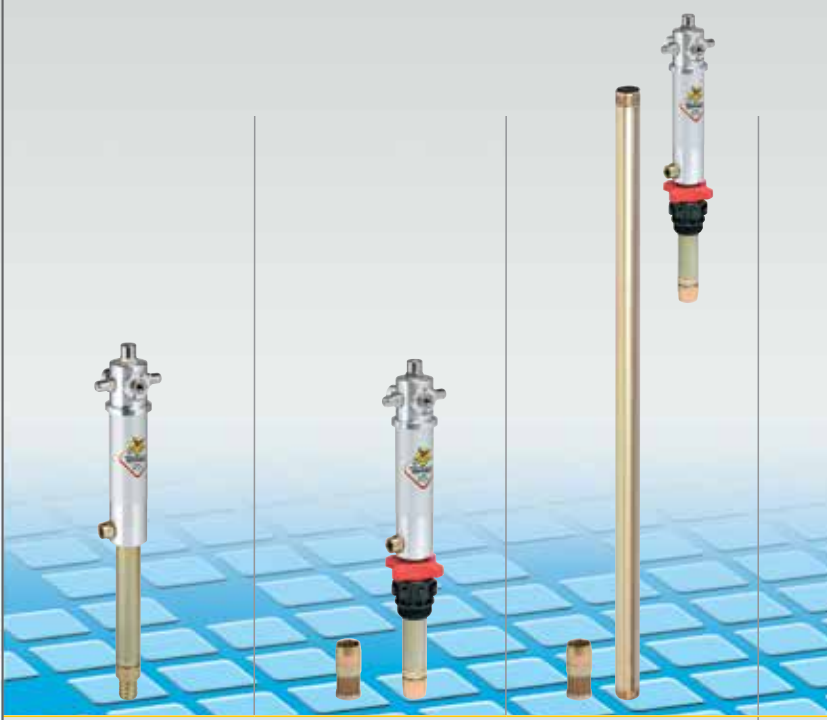


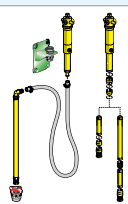
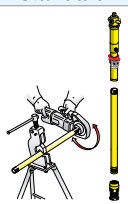
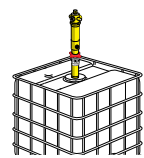
# Air-operated pumps for DISTRIBUTION

Ratio 5:1 Flow rate 18 l/min

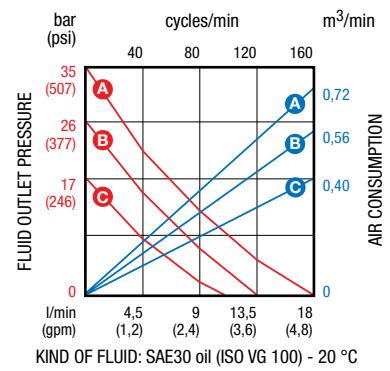


**Series 650 air-operated double-acting pumps for medium distance oil distribution.** Ideal for also distributing high viscosity oil. The double action guarantees the delivery of a continuous and constant flow, ideal for all installations, excellent for centralised distribution systems. The wall-mounted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



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

- A A**  
8 bar  
116 psi
- B B**  
6 bar  
87 psi
- C C**  
4 bar  
58 psi



# Advantages of double-action

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

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

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

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



series 650

36073

36094

36076

36096

Medium/high-viscosity oil

Aluminium

Carbon steel

F 1/4" G

F 1/4" G

F 1/2" G

F 1/2" G

6 - 8

6 - 8

350

350

81

81

240

240

standard on 36076

standard on 36096



suitable for drums  
50-60 Kg

1 - 0,02

6,2

34,5 - 74 - 4,2

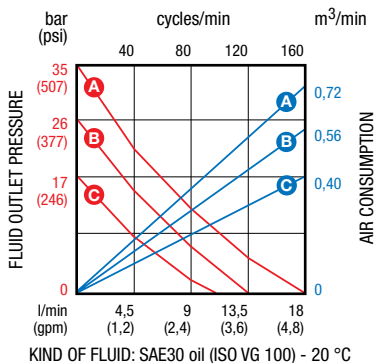
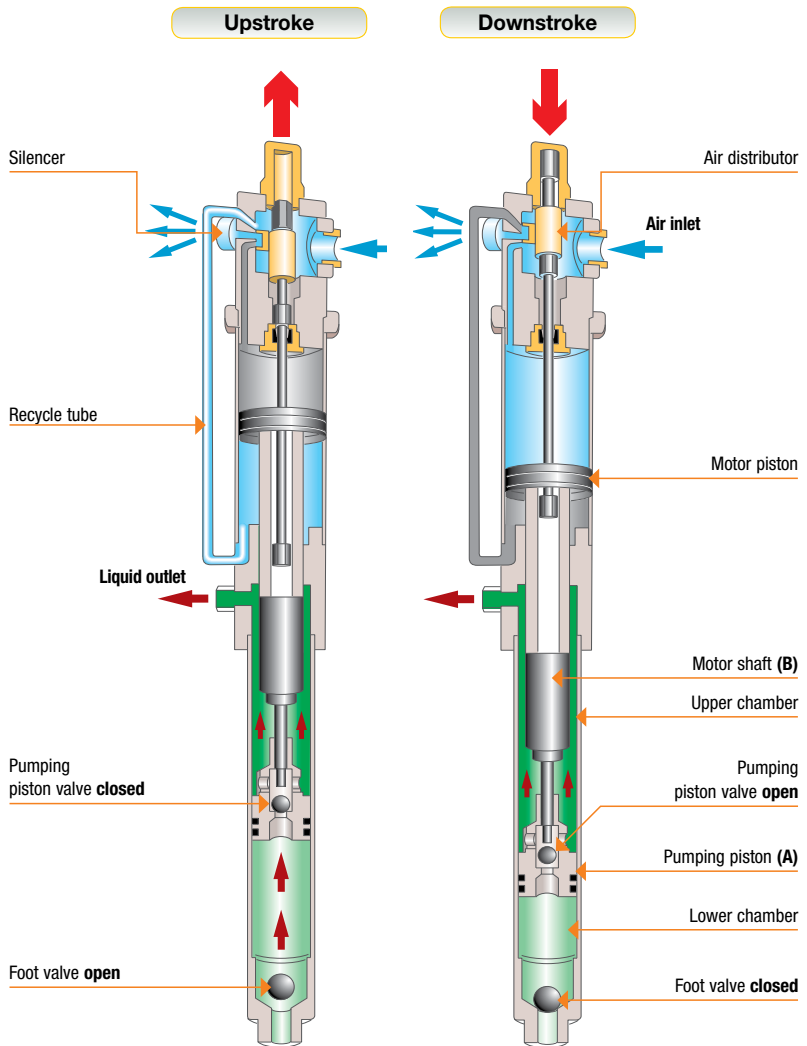


suitable for drums  
180-220 Kg

1 - 0,02

6,8

34,5 - 94 - 4,2

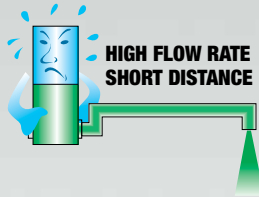


In addition to guaranteeing regular delivery of the fluid, this solution offers the further advantage of having fewer parts inside the pump. This means less wear plus greater and longer reliability.

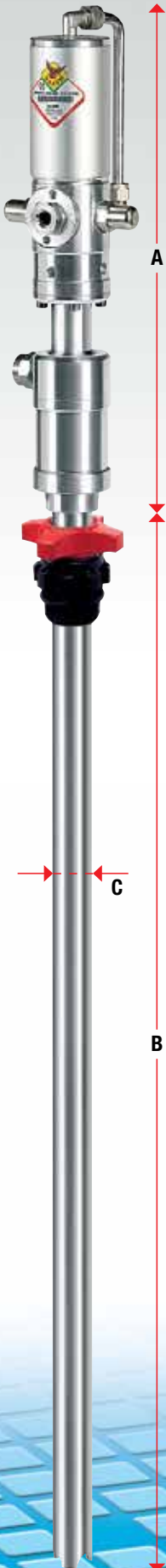


# Stainless steel AISI 304 pumps for TRANSFER

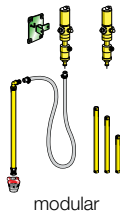

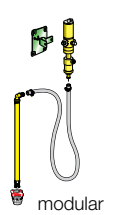
Ratio 1:1 Flow rate 30 l/min



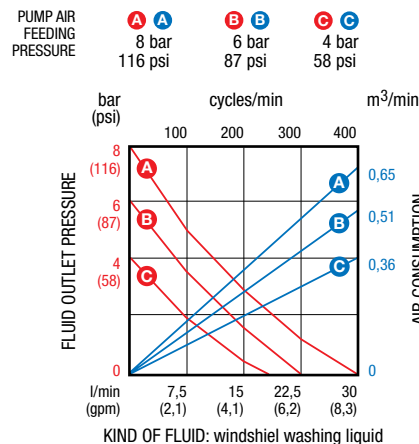
**Stainless steel AISI 304 air-operated pumps for short-medium distance transfer.** Ideal for transferring low-medium viscosity fluids such as: antifreeze liquid, windshield washing liquid and chemical products.



series 600 INOX

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

**Art. 33445**  
**Gun for antifreeze and windshield liquid**  
 applicable to kit Art. 33300 equipped with:  
 - inlet joint F 1/2"  
 - stainless steel rigid terminal with free outlet

Art. 33360  
 Art. 33115  
 Art. 33426  
 Art. 33427  
 Art. 33434

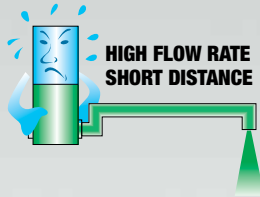


# DIAPHRAGM Pumps

## S. 340-AB

in aluminium

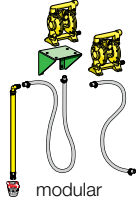

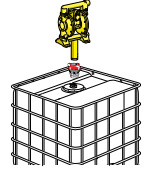



**3/4" Ratio 1:1 Flow rate 70 l/min**

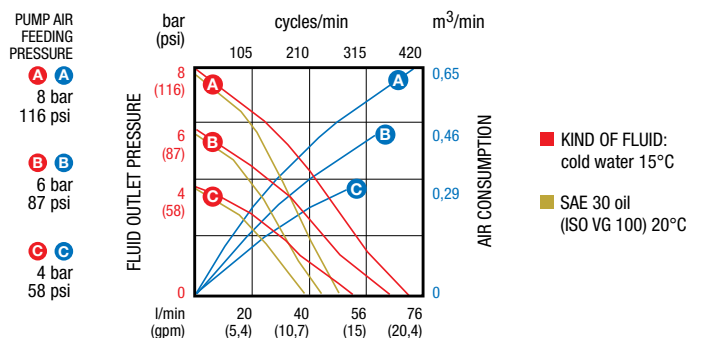
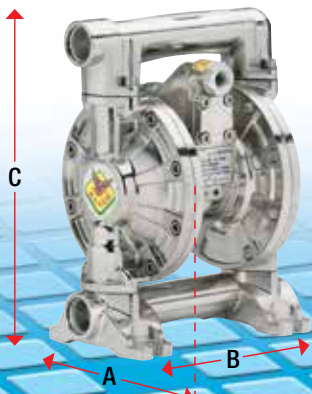


The transfer diaphragm pumps, specific for oil and similar products in die-cast aluminium, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids.



series **340-AB**

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



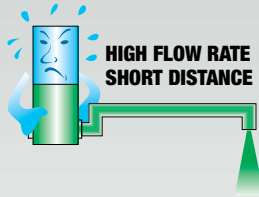




# DIAPHRAGM Pumps

## S. 1000-AB - 1140-AB

in aluminium



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

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

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



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



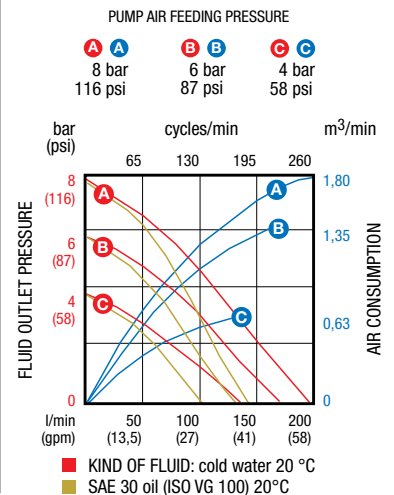
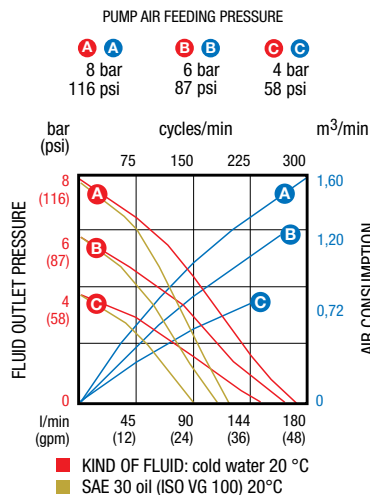
series **1140-AB**  
**33/3011NHHV2**

Article with membrane in **NBR High Nitrile**

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



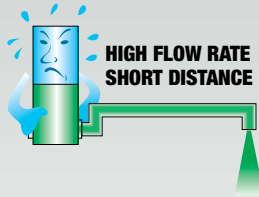
78





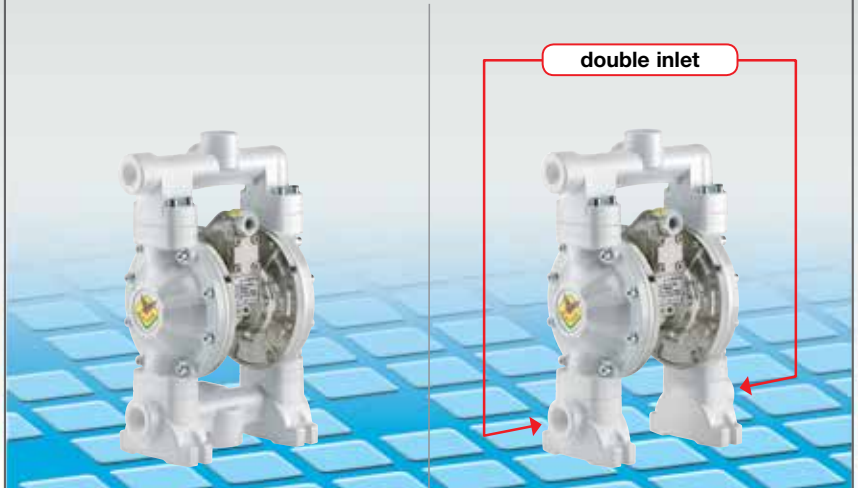
# DIAPHRAGM Pumps S. 120-PB

in polypropylene



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

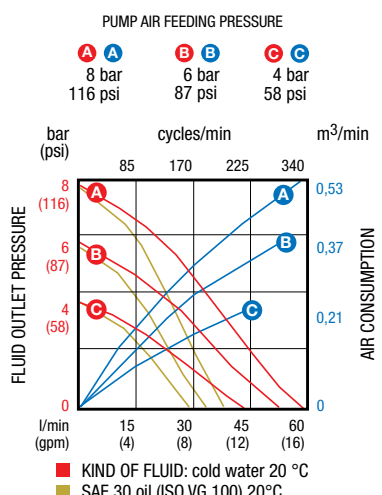
**1/2" Ratio 1:1**  
**Flow rate 60 l/min**



series 120-PB

series 120-PB

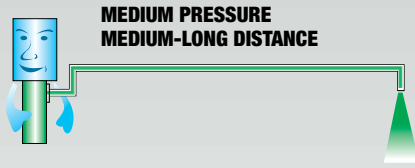
Article with membrane	NBR High Nitrile	2B3/16117NH22		2B8/16117NH22	
Article with membrane	PTFE		2B3/16117TT22		2B8/16117TT22
Compatible fluids		Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze	Water, mineral-vegetable oils, diesel oil	Windshield washing liquid and antifreeze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





# Air-operated pumps for DISTRIBUTION

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



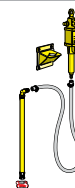
**Series 900 industrial air-operated double-acting pumps for distribution.** Suitable for transferring oils, lubricants and similar products also with very high viscosity. The double action guarantees the delivery of a continuous and constant flow, ideal for all needs. Particularly effective in systems equipped with several distribution points.



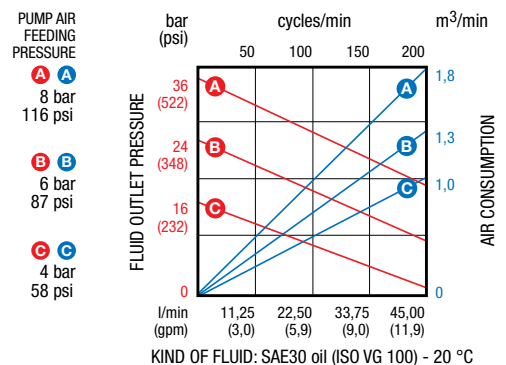
series **900**

**90C/51**

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



modular



Ratio 7:1 Flow rate 30 l/min

Ratio 11:1 Flow rate 30 l/min



series 900

series 900

90C/71

91C/71

92C/71

90C/111

91C/111

92C/111

Oils, lubricants and similar

Oils, lubricants and grease

Aluminium

Aluminium

Carbon steel

Carbon steel

F 1/2"  
F 3/4"

F 1/2"  
F 3/4"

F 1/2"  
F 3/4"

F 1/2"  
F 3/4"

F 1/2"  
F 3/4"

F 1/4"  
F 3/4"

8

8

8

8

8

8

1,6

1,6

1,6

1,7

1,7

1,7

80

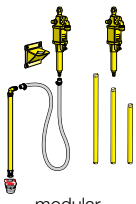
80

80

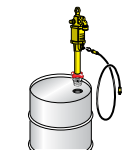
80

80

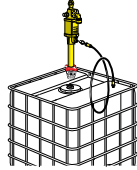
80



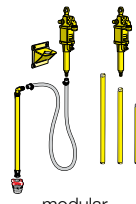
modular



suitable for drums  
180-220 Kg



tank



modular



suitable for drums  
180-220 Kg



suitable for drums  
50-60 Kg

1 - 0,040

11

43 - 27 - 5,3

1 - 0,070

13

43 - 94 - 5,3

1 - 0,080

15

43 - 126 - 5,3

1 - 0,040

11

43 - 27 - 4,5

1 - 0,070

16

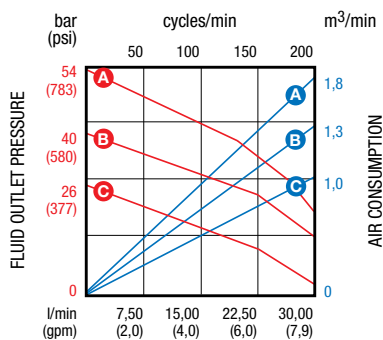
43 - 94 - 4,5

1 - 0,070

15

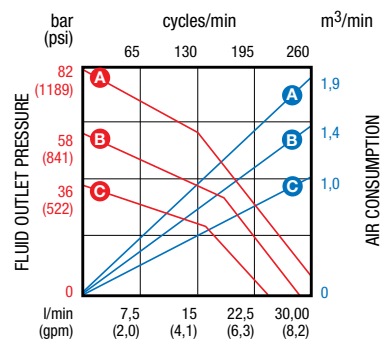
43 - 74 - 4,5

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



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

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



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