

AIR OPERATED OIL PUMPS AND KITS

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AIR OPERATED PISTON PUMPS FOR OIL AND LUBRICANTS

It all starts with the pump; the heart of the system. The choice of a pump requires a wide variety of factors to be considered so that your system will provide years of dependable service. Samoa has engineered a broad offering of oil pumps to handle a wide variety of applications. This range of pumps will fit original container sizes and bulk storage tanks; covering applications ranging from the transfer of oil to very large centralized systems.

WHY CHOOSE AN AIR OPERATED PUMP?

Compressed air provides the best power source because it allows the pump to stall against fluid back pressure. When the dispense handle is opened, the fluid pressure drops in the system, the pump automatically starts and oil flows. When the dispense handle is closed, back pressure is created in the system. When the amount of back pressure equals the force of the compressed air pushing on the pump, the system stops or stalls. When using other power sources such as electric or hydraulic, the system must have pressure sensing switches, bypass loops and relief valves, or other methods to control the motor and pressure.

BALANCED PISTON PUMP - DIFFERENTIAL AIR MOTOR

Samoa's oil pumps are designed to provide years of dependable service. The in-line balanced design insures that a maximum amount of energy is directed into the pump. The balanced design provides an even distribution of loads allowing for long seal life. All Samoa oil pumps have a double acting design, pumping product on both the upstroke and the downstroke.

The differential air motor has proven to be the most durable design for oil pumps. This simple yet effective method to create the air motor reciprocating motion, requires very few moving parts and works well even with adverse compressed air supply conditions.

PRESSURE AND VOLUME

An important, and often confusing, aspect of selecting a pump is how to determine which pump ratio and what pump size to select. The pump ratio is calculated by dividing the surface area of the air motor piston by the surface area of the fluid piston. Fluid pressure is determined by multiplying the pump ratio by the compressed air pressure. This determines

the fluid pressure at the fluid outlet of the pump. Fluid pressure is required to get the oil from the pump outlet to the dispense point. Restrictions such as the length and diameter of pipes, hoses, hose reels, solenoid valves, pulse meters, control handles, and other system components create friction in the system. Sufficient fluid pressure is required to overcome this friction, in order to get the oil to the dispense point.

Pump size determines the amount of fluid flowing through the piston pump outlet during each cycle of the pump. Three different sizes of pumps with the same ratio will each deliver a different flow rate. A variety of factors help determine the pump size to choose for your system. How many dispense points will be operating at the same time? What kind of work will you be doing; filling a crankcase or filling a hydraulic reservoir?, etc.



PUMP MASTER 2

These pumps are high efficiency air operated pumps specifically designed for lubricant transfer, oil distribution packages and small systems. They have an innovative air motor with a patented air valve. The air valve provides the pump with a very fast reciprocating action that contributes to improved pump performance. The air motor's unique design avoids the dead volumes present in most air motors and overall air consumption is reduced by up to 40%.

PUMP MASTER 4

These heavy duty air operated pumps are designed for lubricant distribution systems. Their proven highly reliable air motor and high performance pump makes this pump family the preferred choice in the most demanding oil distribution systems. Pump Master 4 air motors have a built in port for placing a pressure relief valve to prevent damage in the system caused by over pressure due to oil thermal expansion.

PUMP MASTER 6

These pumps are high performance, high pressure pumps for applications with long piping distances, cold temperatures or when low air pressure would limit pump performance. Severe duty construction for maximum reliability.



351 120

OIL PUMPS, PRESSURE RATIO 1:1

Double acting air operated low pressure pumps for transferring lubricants and other non-corrosive fluids. Pumps include height adjustable bung adaptor 2" BSP (M) for tank or drum mounting.

Typically used in all types of industries for fast and clean transfer of lubricants.

**PRODUCTS HANDLED**

- Synthetic and mineral based lubricants.
- Transmission Fluid.
- Hydraulic oil.
- Diesel.
- Grease up to NLGI-2 (long pump only).

MARKETS

- Vehicle maintenance centres.
- Fleet service facilities.
- Manufacturing plants.
- Agriculture.
- Marine.
- Mining and construction.

MODELS

APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
Wall mounted, stub pump	215 mm	500 mm	2.5 Kg	351 120
200 l (55 gal) drum	915 mm	4.8 Kg	352 120	

TECHNICAL DATA PRESSURE RATIO 1:1

Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	335 NL/min (11.8 cfm)
Maximum fluid outlet pressure	10 bar (140 psi)
Air motor diameter	51 mm (2")
Air motor effective diameter	35 mm (1.4")
Air motor stroke	75 mm (3")
Number of cycles per minute (2)	160
Maximum free flow delivery (3)	55 l/min (14.53 US gpm)
Air inlet	1/4" BSP (F)
Fluid inlet (short pump only)	1" BSP (F)
Fluid outlet	3/4" BSP (F)
Wetted and seal materials	Aluminum / Steel / Zinc / NBR / Acetal / Polyurethane
Noise level (4)	80 dB

DIMENSIONS

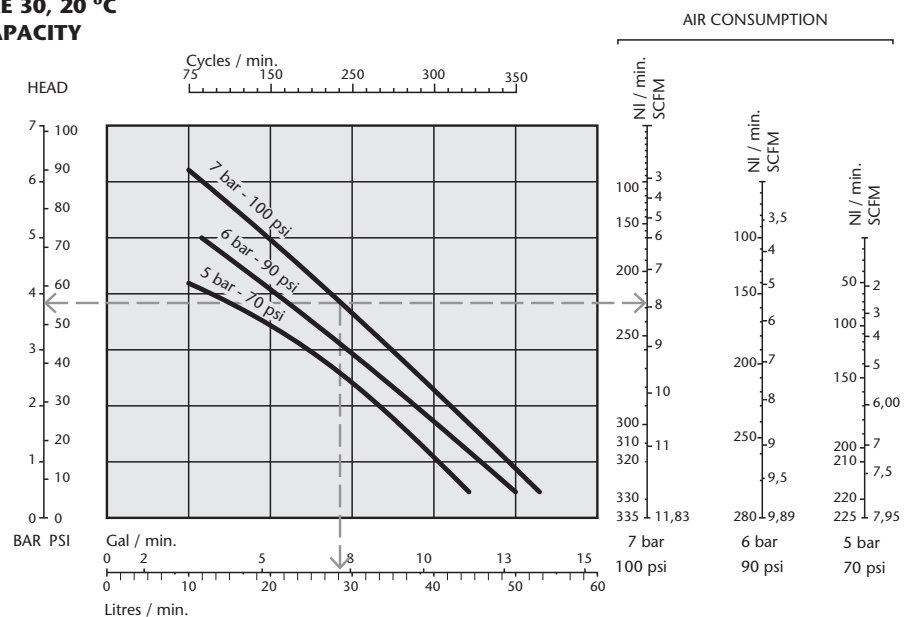
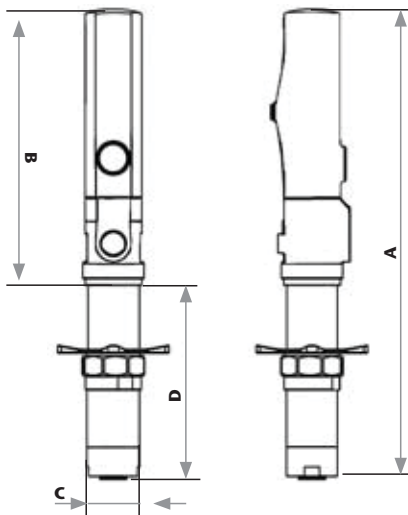
MODEL	351 120	352 120
A (mm)	500	1,200
B (mm)	285	285
C (mm)	52	52
D (mm)	215	915

(1) Maximum air consumption with 7 bar air inlet pressure and free delivery.

(2) Number of cycles per minute for a flow rate of 20 l/min (5.3 US gpm).

(3) Maximum free delivery at 7 bar.

(4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

**SAE 30, 20 °C
CAPACITY**

PUMPMASTER 2 OIL PUMPS

OIL PUMPS, PRESSURE RATIO 3:1

353 120

Double acting air operated medium pressure pumps for dispensing lubricants from mobile units, oil distribution packages and small systems. Pumps are capable of pumping all types of lubricants, even those of high viscosity. Pumps include height adjustable bung adaptor 2" BSP (M) for tank or drum mounting, and a built in port for connecting a pressure relief valve (PN 609 007).

Typically used in workshops, service stations, fast lube centres, etc.

PRODUCTS HANDLED

- Synthetic and mineral based lubricants.
- Hydraulic oil.
- Gear oil.
- Transmission Fluid.

MARKETS

- Vehicle maintenance centres.
- Fleet service facilities.
- Manufacturing plants.
- Agriculture.
- Marine.

MODELS

APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
Wall mounted, stub pump	200 mm	495 mm	3.0 Kg	353 120
60 l (16 gal) drum	700 mm	995 mm	3.9 Kg	358 120
200 l (55 gal) drum	905 mm	1,200 mm	4.2 Kg	354 120

TECHNICAL DATA PRESSURE RATIO 3:1

Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	500 NL/min (17.6 cfm)
Maximum fluid outlet pressure	30 bar (420 psi)
Air motor diameter	51 mm (2")
Air motor effective diameter	35 mm (1.4")
Air motor stroke	75 mm (3")
Number of cycles per minute (2)	175
Maximum free flow delivery (3)	35 l/min (9.3 US gpm)
Air inlet	1/4" BSP (F)
Fluid inlet (short pump only)	3/4" BSP (F)
Fluid outlet	1/2" BSP (F)
Wetted and seal materials	Aluminum / Steel / Zinc / NBR / PTFE
Noise level (4)	80 dB

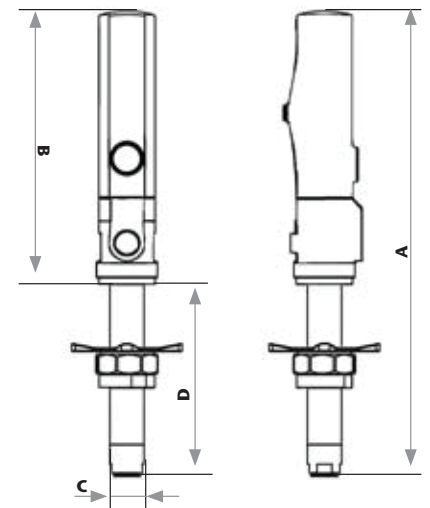
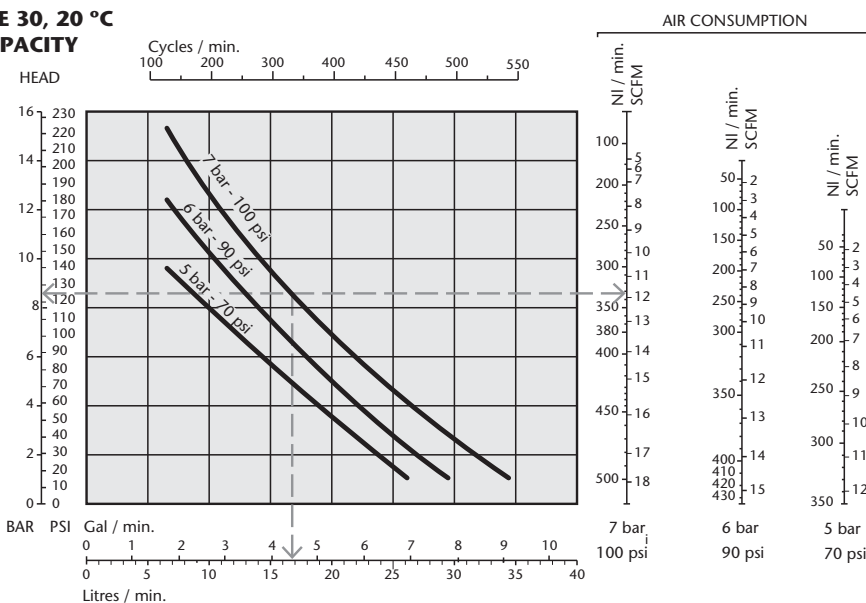
- (1) Maximum air consumption with 7 bar air inlet pressure and free delivery.
 (2) Number of cycles per minute for a flow rate of 10 l/min (2.7 US gpm).
 (3) Maximum free delivery at 7 bar.
 (4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.



DIMENSIONS

MODEL	353 120	358 120	354 120
A (mm)	495	995	1,200
B (mm)	295	295	295
C (mm)	34	34	34
D (mm)	200	700	905

SAE 30, 20 °C CAPACITY



340 120

OIL PUMPS, PRESSURE RATIO 3:1



Double acting air operated medium pressure and high volume pumps for dispensing lubricants in medium size installations including multiple dispensing points with simultaneous operation. Pumps are capable of pumping all types of lubricants, even those of high viscosity. Pumps include height adjustable bung adaptor 2" BSP (M) for drum and tank mounting and a built in port for connecting a pressure relief valve (PN 609 007).

Typically used in workshops, service stations, fast lube centres, fleet maintenance in mining, agriculture, armed forces, construction, trains, etc, in medium length installations with simultaneous operation outlets.

PRODUCTS HANDLED

- Synthetic and mineral based lubricants.
- Gear oil.
- Hydraulic oil.
- Transmission Fluid.

MARKETS

- Vehicle maintenance centres.
- Fleet service facilities.
- Manufacturing plants.
- Agriculture.
- Mining and construction.
- Lube trucks.
- Marine.

MODELS

APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
Wall mounted, stub pump	200 mm	585 mm	6.3 Kg	340 120
200 l (55 gal) drum	910 mm	1,295 mm	8.3 Kg	341 120

TECHNICAL DATA PRESSURE RATIO 3:1

Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	675 NL/min (23.8 cfm)
Maximum fluid outlet pressure	30 bar (420 psi)
Air motor diameter	88 mm (3.5")
Air motor effective diameter	60 mm (2.4")
Air motor stroke	100 mm (4")
Number of cycles per minute (2)	140
Maximum free flow delivery (3)	42 l/min (11.1 US gpm)
Air inlet	3/8" BSP (F)
Fluid inlet (short pump only)	1" BSP (F)
Fluid outlet	3/4" BSP (F)
Wetted and seal materials	Aluminum / Steel / Zinc/ Polyurethane / NBR / PTFE/
Noise level (4)	93 dB

(1) Maximum air consumption with 7 bar air inlet pressure and free delivery.

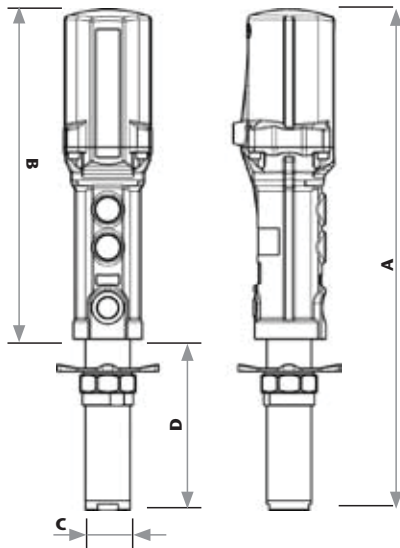
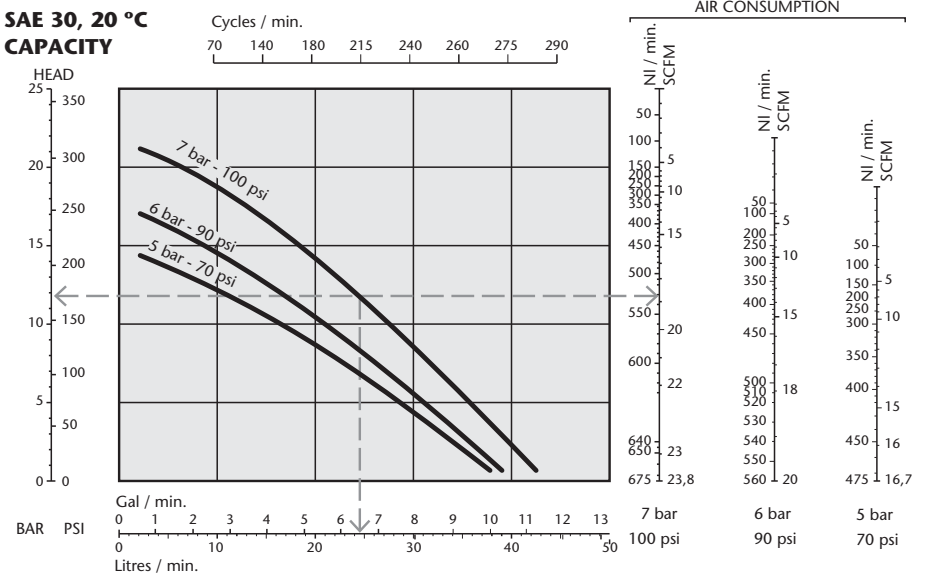
(2) Number of cycles per minute for a flow rate of 10 l/min (2.7 US gpm).

(3) Maximum free delivery at 7 bar.

(4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

DIMENSIONS

MODEL	340 120	341 120
A (mm)	585	1,295
B (mm)	385	385
C (mm)	52	52
D (mm)	200	910

**SAE 30, 20 °C CAPACITY**

PUMPMASTER 4 OIL PUMPS

OIL PUMPS, PRESSURE RATIO 5:1

347 120

Double acting air operated high pressure pumps for dispensing lubricants in large size installations including multiple dispensing points with simultaneous operation. Pumps are capable of pumping all types of lubricants, even those of high viscosity. Pumps include height adjustable bung adaptor 2" BSP (M) for drum and tank mounting and a built in port for connecting a pressure relief valve (PN 609 007).

Typically used in workshops, service stations, fast lube centres, fleet maintenance in mining, agriculture, armed forces, construction, trains, etc, in medium large installations even with simultaneous operation outlets.

PRODUCTS HANDLED

- Synthetic and mineral based lubricants.
- Gear oil.
- Hydraulic oil.
- Transmission Fluid.

MARKETS

- Vehicle maintenance centres.
- Fleet service facilities.
- Manufacturing plants.
- Mining and construction.
- Lube trucks.
- Marine.

MODELS

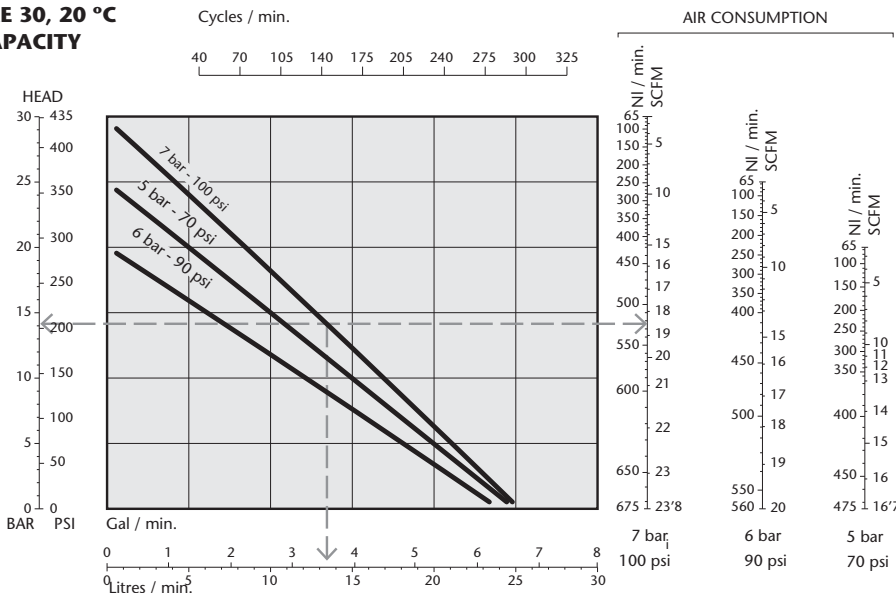
APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
Wall mounted, stub pump	278 mm	663 mm	5.0 Kg	347 120
200 l (55 gal) drum	915 mm	7.0 Kg	348 120	

TECHNICAL DATA PRESSURE RATIO 5:1

Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	675 NL/min (23.8 cfm)
Maximum fluid outlet pressure	50 bar (420 psi)
Air motor diameter	88 mm (3.5")
Air motor effective diameter	60 mm (2.4")
Air motor stroke	100 mm (4")
Number of cycles per minute (2)	145
Maximum free flow delivery (3)	30 l/min (8 US gpm)
Air inlet	3/8" BSP
Fluid inlet (short pump only)	1" BSP
Fluid outlet	3/4" BSP
Wetted and seal materials	Aluminum /Steel / Zinc/Polyurethane / NBR / PTFE
Noise level (4)	95 dB

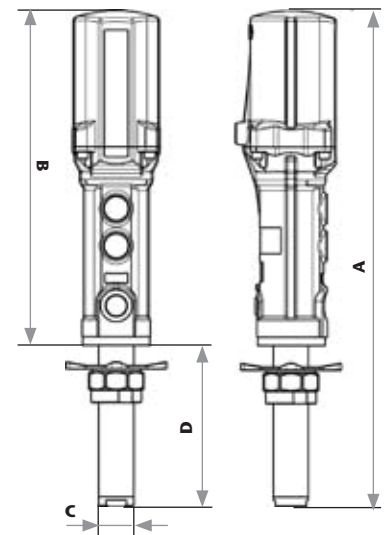
- (1) Maximum air consumption with 7 bar air inlet pressure and free delivery.
 (2) Number of cycles per minute for a flow rate of 10 l/min (2.7 US gpm).
 (3) Maximum free delivery at 7 bar.
 (4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

SAE 30, 20 °C CAPACITY



DIMENSIONS

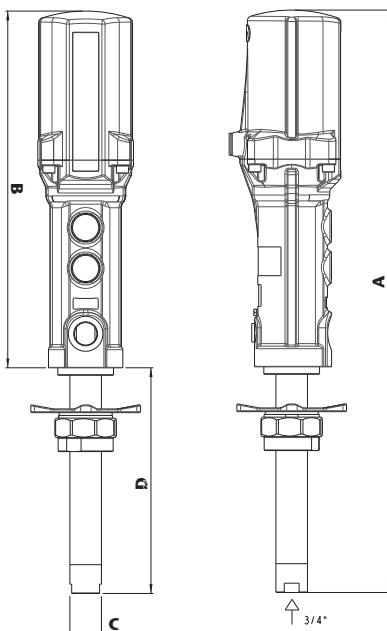
MODEL	347 120	348 120
A (mm)	663	1,300
B (mm)	385	385
C (mm)	42	42
D (mm)	278	915





DIMENSIONS

A (mm)	627
B (mm)	385
C (mm)	34
D (mm)	242



Double acting air operated high-pressure pump for dispensing lubricants in applications requiring high pressure and low flow rates, such as medium to large size installations including multiple dispensing points with no simultaneous use. Pump is capable of pumping all types of lubricants, even those of high viscosity. Pumps include height adjustable bung adaptor 2" BSP (M) for drum or tank mounting and a built in port for connecting a pressure relief valve (PN 609 007).

Typically used in workshops, service stations, fast lube centres, fleet maintenance in mining, agriculture, armed forces, construction, trains, etc.

PRODUCTS HANDLED

- Synthetic and mineral based lubricants.
- Hydraulic oil.
- Gear oil.
- Transmission fluid.
- Corrosion protection fluids.

MARKETS

- Vehicle maintenance centres.
- Fleet service facilities.
- Manufacturing plants.
- Marine.
- Mining and construction.
- Lube trucks.

MODELS

APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
Wall mounted, stub pump	242 mm	627 mm	5.2 Kg	349 120

TECHNICAL DATA PRESSURE RATIO 8:1

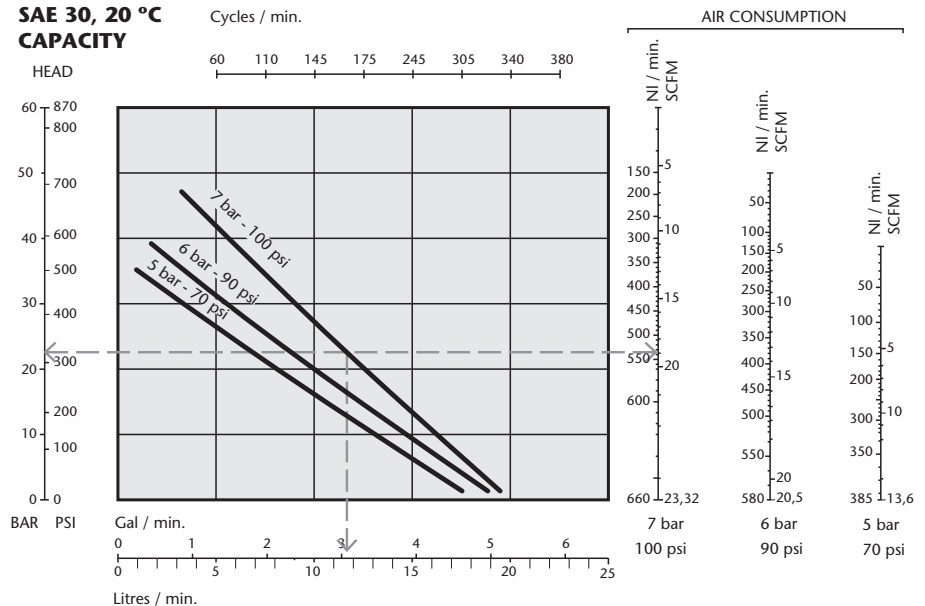
Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	675 NL/min (23.8 cfm)
Maximum fluid outlet pressure	80 bar (1,120 psi)
Air motor diameter	88 mm (3.5")
Air motor effective diameter	60 mm (2.4")
Air motor stroke	100 mm (4")
Number of cycles per minute (2)	175
Maximum free flow delivery (3)	22 l/min (5.8 US gpm)
Air inlet	3/8" BSP (F)
Fluid inlet	3/4" BSP (F)
Fluid outlet	3/4" BSP (F)
Wetted and seal materials	Aluminum / Steel / Zinc / NBR/PTFE
Noise level (4)	95 dB

(1) Maximum air consumption with 7 bar air inlet pressure and free delivery.

(2) Number of cycles per minute for a flow rate of 10 l/min (2.7 US gpm).

(3) Maximum free delivery at 7 bar.

(4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

SAE 30, 20 °C
CAPACITY

PUMPMASTER 6 OIL PUMPS

OIL PUMP, PRESSURE RATIO 10:1

343 000

Double acting air operated high-pressure pump for dispensing lubricants in medium to large size installations including multiple dispensing points with simultaneous use. Pump is capable of pumping all types of lubricants, even those of high viscosity. Pump can be flange mounted to a wall bracket or tank. It can also be mounted to 2" bung opening on a drum or tank using an optional bung adaptor (PN 360 006).

Typically used in workshops, fleet maintenance in mining, armed forces, construction, trains, etc.

PRODUCTS HANDLED

- Synthetic and mineral based lubricants.
- Gear oil.
- Hydraulic oil.
- Transmission Fluid.

MARKETS

- Vehicle maintenance centres.
- Fleet service facilities.
- Manufacturing plants.
- Marine.
- Mining and construction.
- Lube trucks.

MODELS

APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
Wall mounted, stub pump	215 mm	698 mm	13.2 Kg	343 000

TECHNICAL DATA PRESSURE RATIO 10:1

Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	1,050 NL/min (37.1 cfm)
Maximum fluid outlet pressure	100 bar (1,400 psi)
Air motor diameter	160 mm (6.3")
Air motor effective diameter	110 mm (4.3")
Air motor stroke	100 mm (4")
Number of cycles per minute (2)	85
Maximum free flow delivery (3)	30 l/min. (8 US gpm)
Air inlet	1/2" BSP (F)
Fluid inlet	1 1/2" BSP (F)
Fluid outlet	3/4" BSP (F)
Wetted and seals materials	Aluminum / Steel / Zinc /NBR / PTFE / Polyurethane
Noise level (4)	82.5 dB

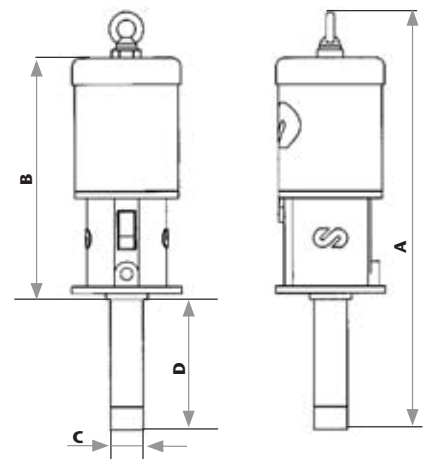
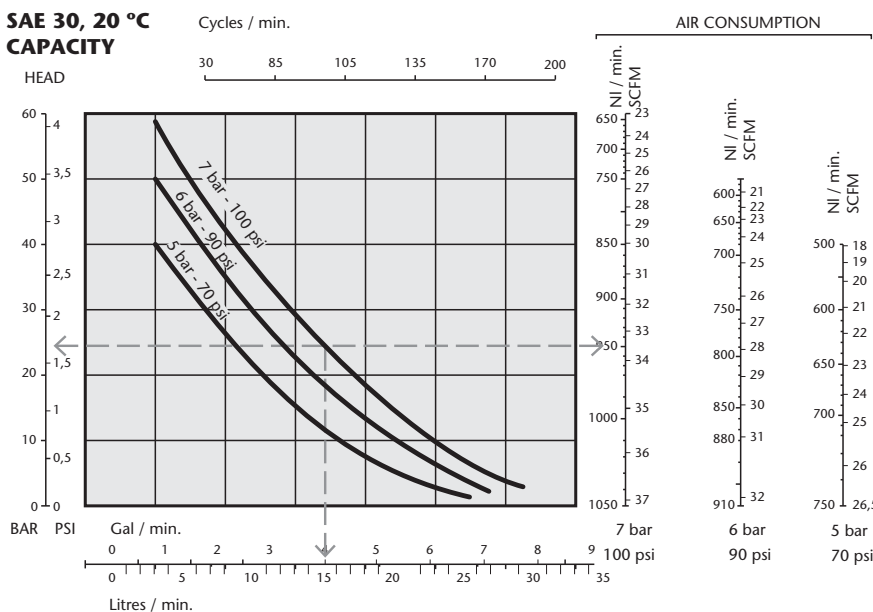
- (1) Maximum air consumption with 7 bar air inlet pressure and free delivery.
 (2) Number of cycles per minute for a flow rate of 10 l/min (2.7 US gpm).
 (3) Maximum free delivery at 7 bar.
 (4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.



DIMENSIONS

A (mm)	698
B (mm)	483
C (mm)	54
D (mm)	215

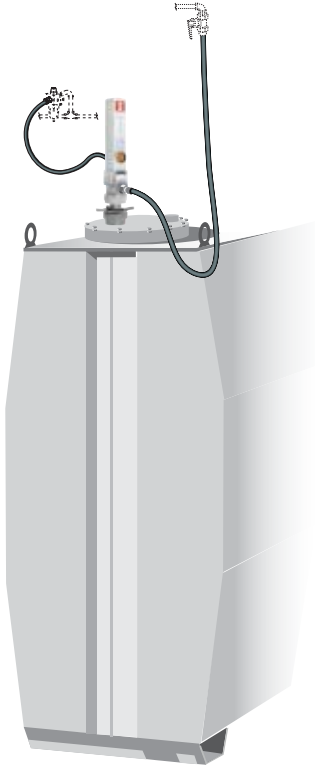
SAE 30, 20 °C CAPACITY



379 003

379 000

379 300



TANK MOUNTED PUMPMaster 2 3:1 PRESSURE RATIO PUMP KIT

379 003 Tank mounted pump kit 3:1 ratio

To install directly onto metal tanks with a 2" BSP (F) top bung opening. Maximum tank interior height: 1,220 mm.

Includes:

- 353 120: 3:1 stub pump.
- 362 910: PumpMaster 2 connection kit for 3:1 pumps.
- 368 900: suction tube.



WALL MOUNTED PUMPMaster 2 3:1 PRESSURE RATIO PUMP KIT

379 000 Wall mounted pump kit for 200 litre drums 3:1 ratio

The wall mounted pump and the suction assembly allows a fast and clean drum replacement.

Includes:

- 353 120: 3:1 stub pump.
- 362 910: PumpMaster 2 connection kit for 3:1 pumps.
- 367 102: 205 litres drum suction kit for wall mounted pumps.



DRUM MOUNTED PUMPMaster 2 3:1 PRESSURE RATIO PUMP KIT

379 300, 200 litre drums mounted pump kit 3:1 ratio

To install directly onto 200 litre drums oil.

Includes:

- 354 120: 3:1 pump for 200 litre drums.
- 362 910: PumpMaster 2 connection kit for 3:1 pumps.

Pump kits include all hoses and adaptors required for connecting an oil pump to the air supply and the oil distribution line.

609 007: recommended options for PumpMaster 2 / 3:1 pump kits.

Pressure relief valve, 1/4" BSP (M) - 60 bar opening. When mounted to the pump body, prevents damage in the system caused by over pressure produced by oil thermal expansion (1 °C increase in temperature can cause up to 10 bar increase in system pressure).

OIL PUMP KITS

379 404


**DRUM MOUNTED PUMPMaster 4
3:1 PRESSURE RATIO PUMP KIT**
**379 404, 200 litre drums mounted pump
kit - 3:1 ratio**

To install directly onto 200 litre drums oil.

Includes:

- 341 120: 3:1 pump for 200 litre drums.
- 362 911: PumpMaster 4 connection kit for 3:1 and 5:1 pumps.

379 400

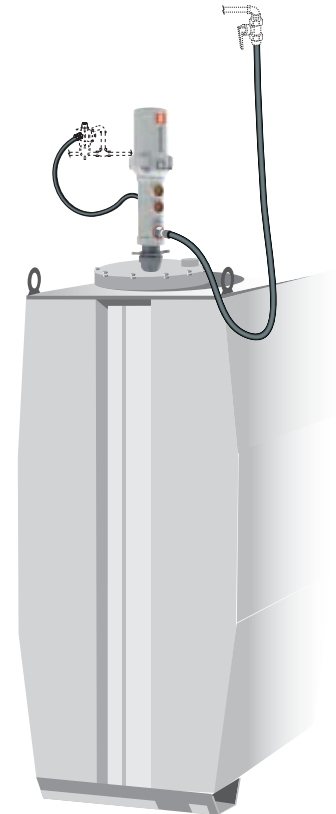

**WALL MOUNTED PUMPMaster 4
3:1 PRESSURE RATIO PUMP KIT**
**379 400 Wall mounted pump kit for
200 litre drums, 3:1 ratio**

The wall mounted pump and the suction assembly allows a fast and clean drum replacement.

Includes:

- 340 120: 3:1 stub pump.
- 362 911: PumpMaster 4 connection kit for 3:1 and 5:1 pumps.
- 367 102: Wall installation kit for 205 l drums.
- 945 670: 1" BSP (M) x 3/4" BSP (M) connection adaptor.

379 403


**TANK MOUNTED PUMPMaster 4
3:1 PRESSURE RATIO PUMP KIT**
379 403 Tank mounted pump kit 3:1 ratio

To install directly onto metal tanks with a 2" BSP (F) top bung opening.
Maximum interior height: 1,200 mm.

Includes:

- 340 120: 3:1 stub pump.
- 362 911: PumpMaster 4 connection kit for 3:1 and 5:1 pumps.
- 368 901: 1,400 mm suction tube.

Pump kits include all hoses and adaptors required for connecting an oil pump to the air supply and the oil distribution line.

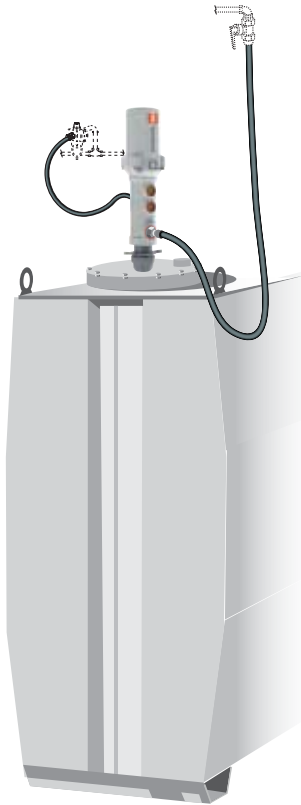
609 007: recommended options for PumpMaster 4 / 3:1 pump kits.

Pressure relief valve 1/4" BSP (M) - 60 bar opening. When mounted to the pump body, prevents damage in the system caused by over pressure produced by oil thermal expansion (1 °C increase in temperature can cause up to 10 bar increase in system pressure).

379 503

379 500

379 504



TANK MOUNTED PUMPMASTER 4 5:1 PRESSURE RATIO PUMP KIT

379 503 Tank mounted pump kit 5:1 ratio

To install directly onto metal tanks with a 2" BSP (F) top bung opening.
Maximum interior height: 1,200 mm.

Includes:

- 347 120: 5:1 stub pump.
- 362 911: PumpMaster 4 connection kit for 3:1 and 5:1 pumps.
- 368 901: 1,400 mm suction tube.



WALL MOUNTED PUMPMASTER 4 5:1 PRESSURE RATIO PUMP KIT

379 500 Wall mounted pump kit for 200 litre drums 5:1 ratio

The wall mounted pump and the suction assembly allows a fast and clean drum replacement.

Includes:

- 347 120: 5:1 stub pump.
- 362 911: PumpMaster 4 connection kit for 3:1 and 5:1 pumps.
- 367 102: Wall installation kit for 205 l drums.
- 945 670: 1" BSP (M) x 3/4" BSP (M) connection adaptor.



DRUM MOUNTED PUMPMASTER 4 5:1 PRESSURE RATIO PUMP KIT

379 504, 200 litre drums mounted pump kit 5:1 ratio

To install directly onto 200 l oil drums.

Includes:

- 348 120: 5:1 pump for 200 l drums.
- 362 911: PumpMaster 4 connection kit for 3:1 and 5:1 pumps.

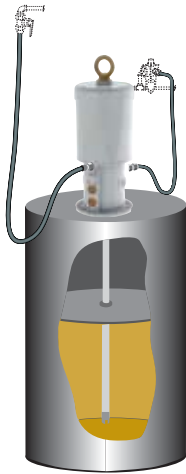
Pump kits include all hoses and adaptors required for connecting an oil pump to the air supply and the oil distribution line.

609 007: recommended options for PumpMaster 4 / 5:1 pump kits

Pressure relief valve 1/4" BSP (M) - 60 bar opening. When mounted to the pump body, prevents damage in the system caused by over pressure produced by oil thermal expansion (1 °C increase in temperature can cause up to 10 bar increase in system pressure).

OIL PUMP KITS

379 900


**DRUM MOUNTED PUMPMaster 6
10:1 PRESSURE RATIO PUMP KIT**
**379 900, 200 litre drums mounted pump
kit 10:1 ratio**

To install directly onto 200 litre oil drums.

Includes:

- 343 000: 10:1 stub pump.
- 368 111: Suction tube for 200 l drums.
- 362 914: PumpMaster 6 connection kit for 10:1 pumps.
- 418 026: 200 litres drum cover for PumpMaster 6 pumps.

379 910

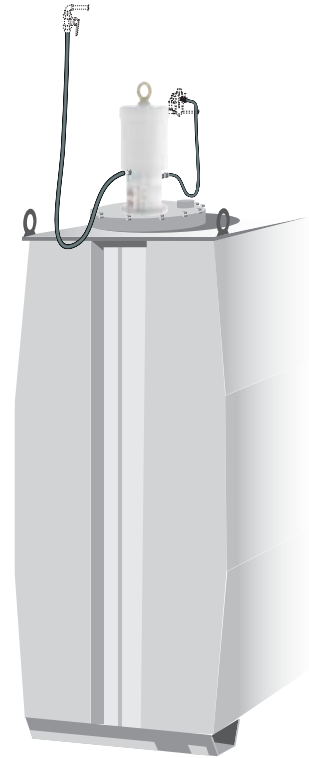

**WALL MOUNTED PUMPMaster 6
10:1 PRESSURE RATIO PUMP KIT**
**379 910 Wall mounted pump kit for
tanks 10:1 ratio**

For use with tanks with a 2" BSP (F) lower, or bottom-feed, connection.

Includes:

- 343 000: 10:1 stub pump.
- 360 109: PumpMaster 6 wall bracket.
- 945 565: 2" BSP (M) - 1" BSP (F) connection adaptor.
- 945 555: 1" BSP (MM) connection adaptor.
- 950 306: 1" BSP (FF) ball valve.
- 362 400: 1 m x Ø 1" suction hose, 1" BSP (MF) with a 90° connector.
- 945 681: 1" BSP (M) - 1 1/2" (M) connection adaptor.
- 362 914: PumpMaster 6 connection kit for 10:1 pumps.

379 920


**TANK MOUNTED PUMPMaster 6
10:1 PRESSURE RATIO PUMP KIT**
**379 920 Tank mounted pump kit -10:1
ratio**

To install directly onto metal tanks with a 2" BSP (F) top bung opening. Maximum interior height: 1,600 mm.

Includes:

- 343 000: 10:1 stub pump.
- 368 112: Suction tube for tanks.
- 362 914: PumpMaster 6 connection kit for 10:1 pumps.
- 360 006: 2" BSP (M) bung adaptor.

Pump kits include all hoses and adaptors required for connecting an oil pump to the air supply and the oil distribution line.

609 007: recommended options for Pump Master 6/10:1 pump kits

Pressure relief valve for mounting at the pump outlet. 60 bar opening. When mounted to the pump outlet, prevents damage in the system caused by overpressure produced by oil thermal expansion (1° increase in temperature can cause up to 10 bar increase in system pressure).

OIL PUMP ACCESSORIES

SUCTION ASSEMBLIES



Suction assemblies for wall mounted short pumps. Assemblies include Ø 42 suction tube with foot valve, height adjustable 2" bung adaptor and 2 m x 3/4" (19 mm) rubber connection hose. Connection thread 3/4" BSP (M).

367 000 Suction assembly

For 200 litre drums and 1,000 litre IBCs, 1,060 mm suction tube.

Option for PumpMaster 4 pumps:

- 945 670: 1" BSP (M) x 3/4" BSP (M) connection adaptor.

367 003 Suction assembly

For tanks, 1,600 mm suction tube

Option for PumpMaster 4 pumps:

- 945 670: 1" BSP (M) x 3/4" BSP (M) connection adaptor.

367 016 Suction assembly

For 200 litre drums and 1,000 litre IBCs, 1,060 mm suction tube.

Includes: 1 1/2" BSP (M) connection adaptor for use with PumpMaster 6 pumps.

SUCTION HOSES

**367 011**

3 m spring reinforced transparent suction hose for 200 l drums and 1,000 l IBCs.

Includes height adjustable 2" bung adaptor and a 90° connection elbow 3/4" BSP (M) to connect to a short pump.

367 012

3 m spring reinforced transparent suction hose with foot valve.

For 200 litre drums and 1,000 litre IBCs. Includes height adjustable 2" bung adaptor, 90° elbow 3/4" BSP (M) to connect to a short pump and foot valve.

362 400

1 m rubber hose for connecting a pump to a tank.

1" BSP (M) connections on both sides, with a 90° connector on one side.

SUCTION TUBES

**For PumpMaster 2 pumps (3:1 pressure ratio)**

Ø 22 mm suction tubes with 3/4" BSP (M) thread.

- **368 102:** 660 mm length for 200 l drums.
- **368 900:** 1,220 mm length for tanks.

For PumpMaster 2 (1:1 pressure ratio) and PumpMaster 4 pumps

Ø 28 mm suction tubes with 1" BSP (M) thread.

- **368 107:** 660 mm length for 200 l drums.
- **368 901:** 1,220 mm length for tanks.

For PumpMaster 6 pumps

Ø 42 mm suction tubes with 1 1/2" BSP (M) thread.

- **368 111:** 660 mm length for 200 l drums.
- **368 112:** 1,400 mm length for tanks.

PUMP BRACKETS

**360 102 Wall bracket**

For PumpMaster 2 and PumpMaster 4 pumps with 2" bung adaptor.

360 109 Wall bracket

For PumpMaster 6 flange mounted pumps.

360 120 Floor bracket

For PumpMaster 2 and PumpMaster 4 pumps. Recommended for use with tanks having lower, or bottom-feed, connections.

PRESSURE RELIEF VALVES

For protection against system pressure increase due to oil thermal expansion (1 °C increase in temperature can cause 10 bar increase in system pressure). 60 bar (870 psi) valve opening pressure. Possibility to connect either a Ø 1/4" hose with a clamp or a hose with 1/8" BSP (F) fitting as return line to the tank.

**609 007 Pressure relief valve**

For PumpMaster 2 and PumpMaster 4 pumps.

362 913 Pressure relief valve

For PumpMaster 4 and PumpMaster 6 pumps 3/4" BSP (MF).

PUMP PULSATION DAMPER

**360 150 Pump pulsation damper**

An air chamber to install vertically at the pump outlet in order to reduce pulsations in short distribution circuits. Connection threads: 1/2" BSP (FF).

OIL PUMP ACCESSORIES

AIR LINE ACCESSORIES



For PumpMaster 2 pumps

240 500 Combined air filter and pressure regulator. 1/4" BSP (FF).

240 201: Air pressure regulator, 0 - 12 bar, 1/4" BSP (FF).

For PumpMaster 4 and PumpMaster 6 pumps

241 501: Combined air filter and pressure regulator. 1/2" BSP (F) - 3/8" BSP (F).

241 201: Air pressure regulator 0-12 bar. 1/4" BSP (FF).

241 001: Air filter + lubricator + regulator 1/2" BSP (F) - 3/8" BSP (F).

241 401: Air lubricator 3/8" BSP (F). - 1/2 " BSP (F).

Connection adaptors

Required when connecting air accessories to a pump.

239 000, 1/4" BSP (M) x 1/4" BSP (M).

945 516, 1/2" BSP (M) x 1/4" BSP (F).

239 002, 3/8" BSP (M) x 3/8" BSP (M).

239 004, 1/2" BSP (M) x 1/2" BSP (M).

Air hoses

For PumpMaster 2 pumps

246 006: Air hose, 0.6 m 1/4" BSP (MM).

246 010: Air hose, 1.0 m 1/4" BSP (MM).

246 015: Air hose, 1.5 m 1/4" BSP (MM).

For PumpMaster 4 pumps

247 706: Air hose, 0.6 m 3/8" BSP (M) 1/2" BSP (MM).

247 710: Air hose, 1.0 m 3/8" BSP (M) - 1/2" BSP (MM).

247 715: Air hose, 1.5 m 3/8" BSP (M) - 1/2" BSP (MM).

For PumpMaster 6 pumps

362 100: Air hose, 1.0 m 1/2" BSP (MM).

362 101: Air hose, 1.5 m 1/2" BSP (MM).

Air valves

950 302, 1/4" BSP (FF), needle valve.

950 321, 1/4" BSP (FF).

950 318, 3/8" BSP (FF).

950 319, 1/2" BSP (FF).

CONNECTION ADAPTORS



Required when connecting oil hoses to pumps

945 590, 1/4" BSP (MM).

945 592, 3/8" BSP (MM).

945 593, 1/2" BSP (MM).

945 551, 3/4" BSP (MM).

945 555, 1" BSP (MM).

945 567, 2" BSP(M) - 1 1/2" BSP (M).

945 681, 1 1/2" BSP (M) - 1" BSP (M).

945 552, 1" BSP (M) - 3/4" BSP (M).

945 554, 3/4" BSP (M) - 1/2" BSP (M).

945 557, 1/2" BSP (M) - 3/8" BSP (M).

945 565, 2" BSP(M) - 1" BSP (F).

945 513, 1 1/4" BSP (M) - 3/4" BSP (F).

945 591, 3/8" BSP (M) x 1/4" BSP (M).

945 670, 1" BSP (M) - 3/4" BSP (F).

369 900, 3/4" BSP (M) - 1/2" BSP (F).

945 556, 1/2" BSP (M) - 3/8" BSP (F).

945 516, 1/2" BSP (M) - 1/4" BSP (F).

945 572, 3/4" BSP (M) - 3/4" BSP (F) 90°.

945 548, 1/2" BSP (MM) 90°.

OIL LINE FILTERS



950 371 Oil line Y strainer, 1/2" BSP (FF).

950 370 Oil line Y strainer, 3/4" BSP (FF).

OIL HOSES AND VALVES

Medium pressure, nitrile rubber hoses reinforced with one steel braid. Swaged fittings, swivelling nut and double male adaptor at both ends.

PART No.	LENGTH	INTERNAL Ø	FITTING THREADS	WORKING PRESSURE
362 100	1.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 101	1.5 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 102	2.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 103	3.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 104	4.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 106	6.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 110	10.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 115	15.0 m	1/2"	1/2" BSP (MM)	100 bar (1,450 psi)
362 300	1.0 m	3/4"	3/4" BSP (MM)	100 bar (1,450 psi)
362 301	1.5 m	3/4"	3/4" BSP (MM)	100 bar (1,450 psi)
362 303	3.0 m	3/4"	3/4" BSP (MM)	100 bar (1,450 psi)
362 305	5.0 m	3/4"	3/4" BSP (MM)	100 bar (1,450 psi)



VALVES		
PART No.	CONNECTION THREADS	WORKING PRESSURE
950 320	3/8" BSP (FF)	65 bar (930 psi)
950 300	1/2" BSP (FF)	65 bar (930 psi)
950 303	3/4" BSP (FF)	40 bar (570 psi)
950 306	1" BSP (FF)	40 bar (570 psi)
950 317	1 1/4" BSP (FF)	25 bar (360 psi)
950 312	1 1/2" BSP (FF)	25 bar (360 psi)
950 308	2" BSP (FF)	25 bar (360 psi)

