



# 01

## **AIR OPERATED OIL PUMPS AND KITS**

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**351 110**

**OIL PUMPS, PRESSURE RATIO 1:1**



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

**Models**

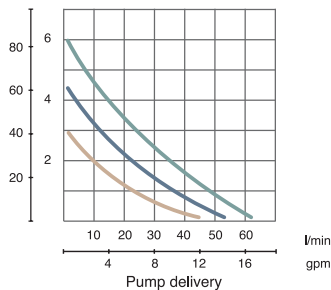
APPLICATION	SUCTION TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART N.º
Wall mounted, short pump	220 mm	580 mm	3,4 Kg	<b>351 110</b>
60 l (16 gal) drum	700 mm	1.060 mm	4,7 Kg	<b>356 100</b>
200 l (55 gal) drum	920 mm	1.280 mm	5,4 Kg	<b>352 100</b>

**Technical data**

Pressure ratio	1:1
Pump tube diameter	52 mm (approx. 2")
Air piston diameter	50 mm (2")
Air piston stroke	100 mm (4")
Maximum free flow capacity <sup>1</sup>	62 l/min (16.10 gpm)
Minimum air pressure	3 bar (42 psi)
Maximum air pressure	10 bar (140 psi)
Maximum fluid pressure	10 bar (140 psi)
Air inlet	1/4" BSPT (F)
Fluid outlet	3/4" BSP (F)
Fluid inlet (short pump only)	1" BSP (F)

<sup>1</sup> Free delivery at 7 bar air inlet pressure, using SAE 20 oil at 20°C.

Pump outlet pressure  
psi kg/cm<sup>2</sup>



- Air inlet pressure 6 bar (84 psi).
- Air inlet pressure 4,5 bar (63 psi).
- Air inlet pressure 3 bar (42 psi).

**353 110**

**OIL PUMPS, PRESSURE RATIO 3:1**



Double acting air operated medium pressure pumps for dispensing lubricants from mobile units or in medium size installations including multiple dispensing points with no simultaneous use. Pumps can pump all type of lubricants, even those of higher viscosity. Pumps include height adjustable bung adaptor 2" BSP (M).

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

**Models**

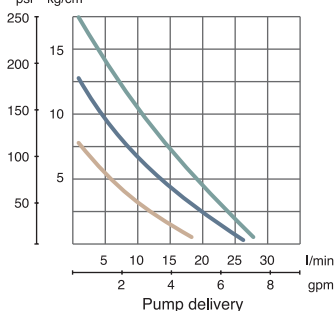
APPLICATION	SUCTION TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART N.º
Wall mounted, short pump	230 mm	600 mm	3,2 Kg	<b>353 110</b>
60 l (16 gal) drum	700 mm	1.070 mm	4,2 Kg	<b>358 100</b>
200 l (55 gal) drum	920 mm	1.290 mm	4,7 Kg	<b>354 100</b>

**Technical data**

Pressure ratio	3:1
Pump tube diameter	34 mm (1.33")
Air piston diameter	50 mm (2")
Air piston stroke	100 mm (4")
Maximum free flow capacity <sup>1</sup>	30 l/min (7.8 gpm)
Minimum air pressure	3 bar (42 psi)
Maximum air pressure	10 bar (140 psi)
Maximum fluid pressure	30 bar (420 psi)
Air inlet	1/4" BSPT (F)
Fluid outlet	1/2" BSP (F)
Fluid inlet (short pump only)	3/4" BSP (F)

<sup>1</sup> Free delivery at 7 bar air inlet pressure, using SAE 20 oil at 20°C.

Pump outlet pressure  
psi kg/cm<sup>2</sup>



- Air inlet pressure 6 bar (84 psi).
- Air inlet pressure 4,5 bar (63 psi).
- Air inlet pressure 3 bar (42 psi).

**340 100**

**OIL PUMPS, PRESSURE RATIO 3:1**



Double acting air operated medium pressure pumps for dispensing lubricants in medium size installations including multiple dispensing points with simultaneous operation. Pumps can pump all type of lubricants, even those of higher viscosity. Pumps include height adjustable bung adaptor 2" BSP (M).

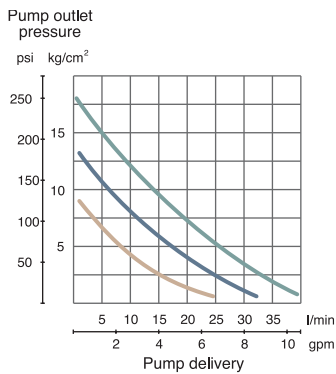
Typically used in workshops, service stations, fast lube centers, fleet maintenance in mining, agriculture, armed forces, construction, trains, etc.

**Models**

APPLICATION	SUCTION TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART N.º
Wall mounted, short pump	255 mm	695 mm	7,3 Kg	<b>340 100</b>
200 l (55 gal) drum	920 mm	1.350 mm	9,6 Kg	<b>341 100</b>

**Technical data**

Pressure ratio	3:1
Pump tube diameter	52 mm (approx. 2")
Air piston diameter	90 mm (3.55")
Air piston stroke	100 mm (4")
Maximum free flow capacity <sup>1</sup>	45 l/min (11.8 gpm)
Minimum air pressure	3 bar (42 psi)
Maximum air pressure	10 bar (140 psi)
Maximum fluid pressure	30 bar (420 psi)
Air inlet	3/8" BSPT (F)
Fluid outlet	3/4" BSP (F)
Fluid inlet (short pump only)	1" BSP (F)



- Air inlet pressure 6 bar (84 psi).
- Air inlet pressure 4,5 bar (63 psi).
- Air inlet pressure 3 bar (42 psi).

<sup>1</sup> Free delivery at 7 bar air inlet pressure, using SAE 20 oil at 20°C.

**347 100**

**OIL PUMPS, PRESSURE RATIO 5:1**



Double acting air operated high pressure pumps for dispensing lubricants in large size installations including multiple dispensing points with simultaneous operation. Pumps can pump all type of lubricants, even those of higher viscosity. Pumps include height adjustable bung adaptor 2" BSP (M).

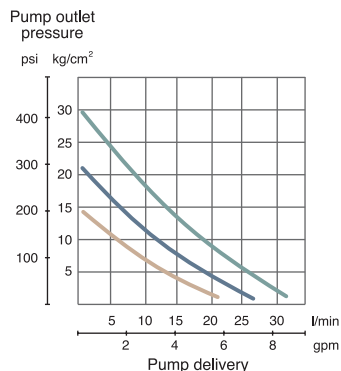
Typically used in workshops, service stations, fast lube centers, fleet maintenance in mining, agriculture, armed forces, construction, trains, etc.

**Models**

APPLICATION	SUCTION TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART N.º
Wall mounted, short pump	280 mm	720 mm	7,1 Kg	<b>347 100</b>
200 l (55 gal) drum	920 mm	1.360 mm	8,8 Kg	<b>348 100</b>

**Technical data**

Pressure ratio	5:1
Pump tube diameter	42 mm (1.65")
Air piston diameter	90 mm (3.55")
Air piston stroke	100 mm (4")
Maximum free flow capacity <sup>1</sup>	35 l/min (9.1 gpm)
Minimum air pressure	3 bar (42 psi)
Maximum air pressure	10 bar (140 psi)
Maximum fluid pressure	50 bar (700 psi)
Air inlet	3/8" BSPT (F)
Fluid outlet	3/4" BSP (F)
Fluid inlet (short pump only)	1" BSP (F)



- Air inlet pressure 6 bar (84 psi).
- Air inlet pressure 4,5 bar (63 psi).
- Air inlet pressure 3 bar (42 psi).

<sup>1</sup> Free delivery at 7 bar air inlet pressure, using SAE 20 oil at 20°C.

**349 000**

**OIL PUMP, PRESSURE RATIO 8:1**



Double acting air operated high-pressure pump for dispensing lubricants in medium to large size installations including multiple dispensing points with no simultaneous use. Pump can pump all type of lubricants, even those of higher viscosity. Pump can also be used for rustproofing applications. Pump includes height adjustable bung adaptor 2" BSP (M).

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

**Models**

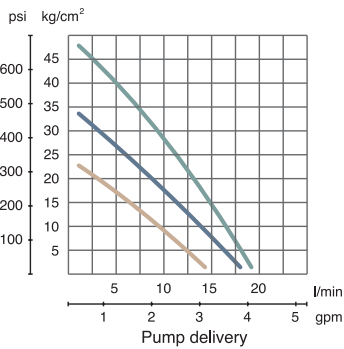
APPLICATION	SUCTION TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART N.º
Wall mounted, short pump	230 mm	670 mm	6,9 Kg	<b>349 000</b>

**Technical data**

Pressure ratio	8:1
Pump tube diameter	34 mm (1.33")
Air piston diameter	90 mm (3.55")
Air piston stroke	100 mm (4")
Maximum free flow capacity <sup>1</sup>	28 l/min (7.25 gpm)
Minimum air pressure	3 bar (42 psi)
Maximum air pressure	10 bar (140 psi)
Maximum fluid pressure	80 bar (1.120 psi)
Air inlet	3/8" BSPT (F)
Fluid outlet	3/4" BSP (F)
Fluid inlet	3/4" BSP (F)

<sup>1</sup> Free delivery at 7 bar air inlet pressure, using SAE 20 oil at 20°C.

Pump outlet pressure



- Air inlet pressure 6 bar (84 psi).
- Air inlet pressure 4,5 bar (63 psi).
- Air inlet pressure 3 bar (42 psi).

**343 000**

**OIL PUMP, PRESSURE RATIO 10:1**



Double acting air operated high-pressure pump for dispensing lubricants in very large installations including multiple dispensing points with simultaneous operation outlets. Pump can pump all type of lubricants, even those of higher viscosity. Recommended for use when low air pressure would limit the performance of a lower ratio pump.

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

**Models**

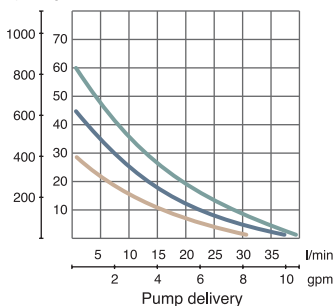
APPLICATION	SUCTION TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART N.º
Wall mounted, short pump	230 mm	690 mm	13,2 Kg	<b>343 000</b>

**Technical data**

Pressure ratio	10:1
Pump tube diameter	54 mm (2.1")
Air piston diameter	160 mm (6")
Air piston stroke	110 mm (4 1/4")
Maximum free flow capacity <sup>1</sup>	40 l/min (11.2 gpm)
Minimum air pressure	3 bar (42 psi)
Maximum air pressure	10 bar (140 psi)
Maximum fluid pressure	100 bar (1.400 psi)
Air inlet	1/2" BSPT (F)
Fluid outlet	3/4" BSP (F)
Fluid inlet (short pump only)	1 1/2" BSP (F)

<sup>1</sup> Free delivery at 7 bar air inlet pressure, using SAE 20 oil at 20°C.

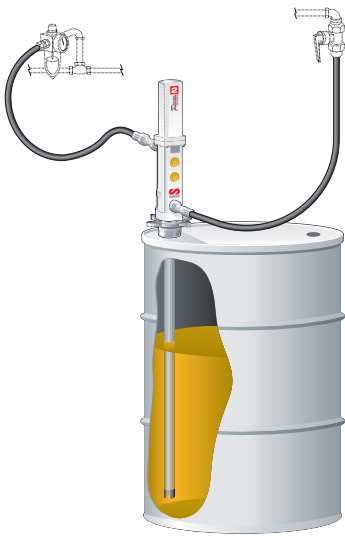
Pump outlet pressure



- Air inlet pressure 6 bar (84 psi).
- Air inlet pressure 4,5 bar (63 psi).
- Air inlet pressure 3 bar (42 psi).

**379 300 / 379 000 / 379 003**

**PUMPMaster 2 - 3:1 PRESSURE RATIO PUMP**



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

**379 300 - 200 l drum mounted pump kit - 3:1 ratio**

To install directly onto 200 l oil drums.

Includes:

- 354 100: 3:1 pump for 200 l drums.
- 362 910: PumpMaster 2/3:1 air and oil line connection kit.

**379 000 - Wall mounted pump kit for 200 l drum - 3:1 ratio**

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

Includes:

- 353 110: 3:1 short pump.
- 362 910: PumpMaster 2/3:1 air and oil line connection kit.
- 367 102: 205 l drums suction kit for wall mounted pumps.

**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: 1.600 mm.

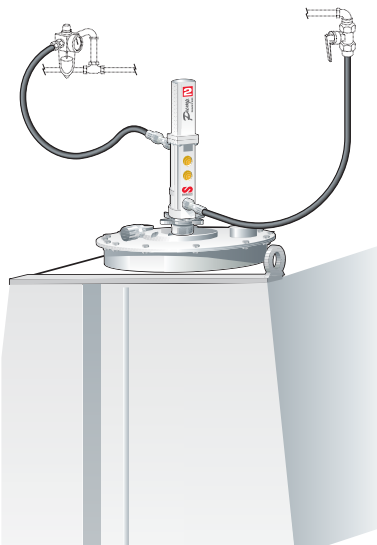
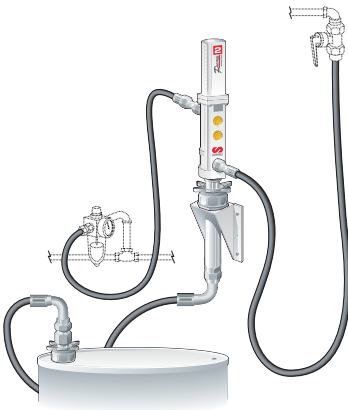
Includes:

- 353 110: 3:1 short pump.
- 362 910: PumpMaster 2/3:1 air and oil line connection kit.
- 368 104: 1400 mm suction tube.

Option:

To prevent air entering into the oil distribution line in metered systems:

- 368 004: Double threaded suction tube, for use instead of tube 368 104.
- 368 200: 3/4" air eliminator valve.



379 404 / 379 400 / 379 403

PUMPMaster 4 - 3:1 PRESSURE RATIO PUMP



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

**379 404 - 200 l drum mounted pump kit - 3:1 ratio**

To install directly onto 200 l oil drums.

Includes:

- 341 100: 3:1 pump for 200 l drums.
- 362 911: PumpMaster 4 pumps air and oil line connection kit.

**379 400 - Wall mounted pump kit for 200 l drum - 3:1 ratio**

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

Includes:

- 340 100: 3:1 short pump.
- 362 911: PumpMaster 4 pumps air and oil line connection kit.
- 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 pump kit - 3:1 ratio**

To install directly onto metal tanks with a 2" BSP (F) top bung opening.

Maximum interior height: 1.600 mm.

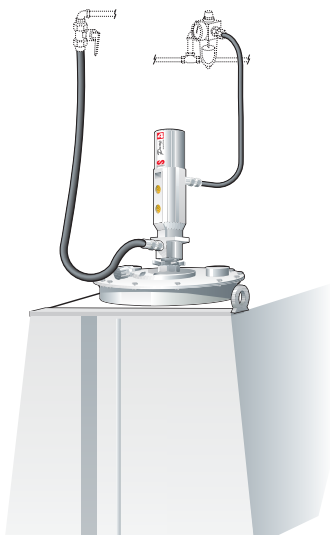
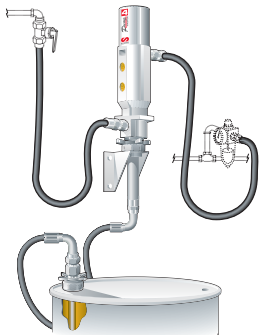
Includes:

- 340 100: 3:1 short pump.
- 362 911: PumpMaster 4 pumps air and oil lines connection kit.
- 368 105: 1400 mm suction tube.

Option:

To prevent air entering into the oil distribution line in metered systems:

- 368 005: Double threaded suction tube, for use instead of tube 368 105.
- 368 201: 1" air eliminator valve.



**379 504 / 379 500 / 379 503**

**PUMPMaster 4 - 5:1 PRESSURE RATIO PUMP**



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

**379 504 - 200 l drum mounted pump kit - 5:1 ratio**

To install directly onto 200 l oil drums.

Includes:

- 348 100: 5:1 pump for 200 l drums.
- 362 911: PumpMaster 4 pumps air and oil line connection kit.

**379 500 - Wall mounted pump kit for 200 l drum - 5:1 ratio**

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

Includes:

- 347 100: 5:1 short pump.
- 362 911: PumpMaster 4 pumps air and oil line connection kit.
- 367 102: Wall installation kit for 205 l drums.
- 945 670: 1" BSP (M) x 3/4" BSP (M) connection adaptor.

**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: 1.600 mm.

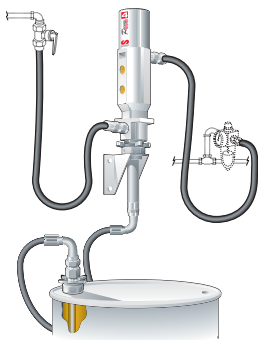
Includes:

- 347 100: 5:1 short pump.
- 362 911: PumpMaster 4 pumps air and oil line connection kit.
- 368 105: 1400 mm suction tube.

Option:

To prevent air entering into the oil distribution line in metered systems:

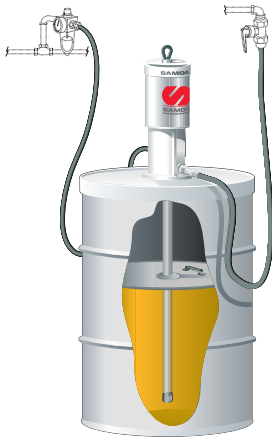
- 368 005: Double threaded suction tube, for use instead of tube 368 105.
- 368 201: 1" air eliminator valve.





**379 900 / 379 920 / 379 910**

**WITH PUMPMASER 6 – 10:1 PRESSURE RATIO PUMP**



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

**379 900 - 200 l drum mounted pump kit - 10:1 ratio**

To install directly onto 200 l oil drums.

Includes:

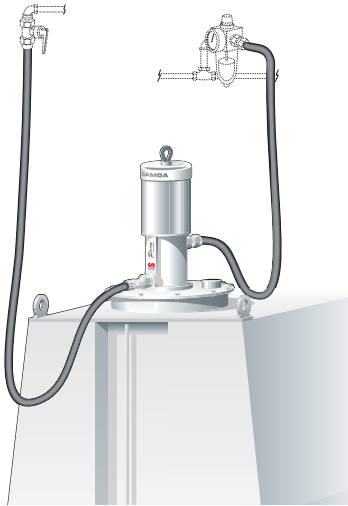
- 343 000: 10:1 short pump.
- 368 111: Suction tube for 200 l drums.
- 362 914: PumpMaster 6 pump air and oil line connection kit.
- 418 026: 200 l drum cover for PumpMaster 6 pumps.

**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 short pump.
- 368 112: Suction tube for 200 l tanks.
- 362 914: PumpMaster 6 pump air and oil line connection kit.
- 360 006: 2" BSP (M) bung adaptor.

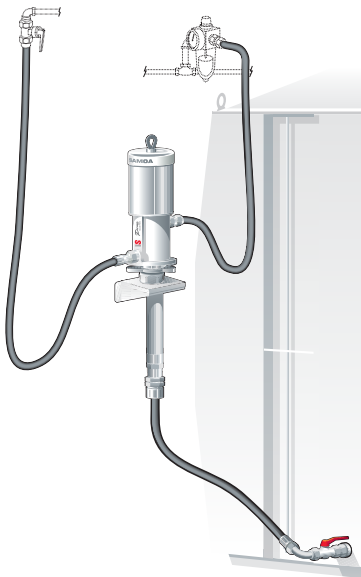


**379 910 - Wall mounted pump kit for tanks - 10:1 ratio**

For use with tanks with a 2" BSP (F) lower connection.

Includes:

- 343 000: 10:1 short 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 adapter.
- 362 914: PumpMaster 6 pump air and oil line connection kit.





**360 102 / 360 120**

**PUMP BRACKETS**



**360 102 - Wall bracket for PumpMaster 2 and PumpMaster 4 pumps**

**360 120 - Floor bracket for PumpMaster 2 and PumpMaster 4 pumps**  
Recommended use with tanks with low connection.

**360 109 - Wall bracket for PumpMaster 6 pumps**

**367 000**

**SUCTION ASSEMBLIES**



Suction assemblies for wall mounted short pumps. Assemblies include Ø 42 suction tube with foot valve, height adjustable 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 l drums and 1000 l IBCs, 1060 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, 1600 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 l drums and 1000 l IBCs, 1060 mm suction tube**

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

**367 011 / 362 400**

**SUCTION HOSES**



**367 011 - 3 m spring reinforced transparent suction hose for 200 l drums and 1000 l IBCs**

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

**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.

**368 102 / 368 104**

**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.
- 368 104: 1.400 mm length for tanks.
- 368 002: 660 mm length for 200 l drums. Threads on both ends for use with an air eliminator valve.
- 368 004: 1.400 mm length for tanks. Threads on both ends for use with an air eliminator valve.

**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.
- 368 105: 1.400 mm length for tanks.
- 368 007: 660 mm length for 200 l drums. Threads on both ends for use with an air eliminator valve.
- 368 005: 1.400 mm length for tanks. Threads on both ends for use with an air eliminator valve.

**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.

**362 201 / 368 200**

**AIR ELIMINATOR VALVES**



Valve with a float to avoid air from being sucked in by the pump when the drum or tank is at its minimum oil level. Recommended for metered distribution systems. To use with short pumps fitted with double threaded extension tubes.

**368 200 - Air eliminator valve - 3/4" BSP (F)**

For PumpMaster 2 - 3:1 pumps.

**368 201 - Air eliminator valve - 1" BSP (F)**

For PumpMaster 4 pumps.

**362 912**

**PRESSURE RELEASE VALVES**



When connected to a pump outlet, these valves prevent overpressure in the oil distribution line.

**362 912 - Pressure release valve - 1/2" BSP (MF)**

For PumpMaster 2 - 3:1 pumps.

**362 913 - Pressure release valve - 3/4" BSP (MF)**

For PumpMaster 4 and PumpMaster 6 pumps.

**360 150**

**PUMP PULSATION DAMPER**



**360 150 - Pump pulsation damper**

An air chamber to install vertically at the pump outlet in order to minimize the pulsating effects in short distribution circuits. Connection threads: 1/2" BSP (MF).

**362 104**

**OIL HOSES**



Medium pressure, nitrile rubber hoses reinforced with one steel braid. Swaged fittings, swiveling nut and adaptor on one end.

PART N.º	LENGTH	INTERNAL Ø	FITTING THREADS	WORK PRESSURE
<b>362 100</b>	1,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 101</b>	1,5 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 102</b>	2,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 103</b>	3,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 104</b>	4,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 106</b>	6,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 110</b>	10,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 115</b>	15,0 m	1/2"	1/2" BSP (MM)	180 bar (2570 psi)
<b>362 300</b>	1,0 m	3/4"	3/4" BSP (MM)	180 bar (2570 psi)
<b>362 301</b>	1,5 m	3/4"	3/4" BSP (MM)	180 bar (2570 psi)
<b>362 303</b>	3,0 m	3/4"	3/4" BSP (MM)	180 bar (2570 psi)
<b>362 305</b>	5,0 m	3/4"	3/4" BSP (MM)	180 bar (2570 psi)

**950 303**

**OIL VALVES**



PART N.º	CONNECTION THREADS	WORK PRESSURE
<b>950 320</b>	3/8" BSP (FF)	65 bar (930 psi)
<b>950 300</b>	1/2" BSP (FF)	65 bar (930 psi)
<b>950 303</b>	3/4" BSP (FF)	40 bar (570 psi)
<b>950 306</b>	1" BSP (FF)	40 bar (570 psi)
<b>950 317</b>	1 1/4" BSP (FF)	25 bar (360 psi)
<b>950 312</b>	1 1/2" BSP (FF)	25 bar (360 psi)
<b>950 308</b>	2" BSP (FF)	25 bar (360 psi)

240 500 / 246 010 / 950 321

**AIR LINE ACCESSORIES**



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

For PumpMaster 2 pumps.

**240 200 - Air pressure regulator. 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)**

For PumpMaster 4 and PumpMaster 6 pumps.

**241 201 - Air pressure regulator. 1/2" BSP (F) - 3/8" BSP (F)**

For PumpMaster 4 and PumpMaster 6 pumps.

**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)**



**246 006 - Air hose, 0.6 m.** For PumpMaster 2 pumps. 1/4" BSP (MM).

**246 010 - Air hose, 1.0 m.** For PumpMaster 2 pumps. 1/4" BSP (MM).

**246 015 - Air hose, 1.5 m.** For PumpMaster 2 pumps. 1/4" BSP (MM).

**247 706 - Air hose, 0.6 m.** For PumpMaster 4 pumps. 3/8" BSP(M) - 1/2" BSP(MM).

**247 710 - Air hose, 1.6 m.** For PumpMaster 4 pumps. 3/8" BSP(M) - 1/2" BSP(MM).

**247 715 - Air hose, 0.6 m.** For PumpMaster 4 pumps. 3/8" BSP(M) - 1/2" BSP(MM).



**362 100 - Air hose, 1.0 m** For PumpMaster 6 pumps. 1/2" BSP (MM).

**362 101 - Air hose, 1.5 m.** For PumpMaster 6 pumps. 1/2" BSP (MM).

**950 302 - Air needle valve, 1/4" BSP (MM)**

**950 321 - Air ball valve, 1/4" BSP (MM)**

**950 318 - Air ball valve, 3/8" BSP (MM)**

**950 319 - Air ball valve, 1/2" BSP (MM)**

950 371

**OIL LINE FILTERS**



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

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

**CONNECTION ADAPTORS**



**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)**

**945 670 - 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)**

**369 601 - 1/2" BSP (MM) 45°**

**945 572 - 1/2" BSP (M) - 3/4" BSP (F) 90°**

**945 548 - 1/4" BSP (MM) 90°**