

**AIR OPERATED GREASE PUMPS AND KITS**

AIR OPERATED PISTON PUMPS FOR GREASE . . . . .26  
PUMPMASTER 3 GREASE PUMPS . . . . .27  
PUMPMASTER 3+3 GREASE PUMPS . . . . .28  
PUMPMASTER 6 GREASE PUMPS . . . . .29  
GREASE PUMP AND CONNECTION KITS . . . . .30  
GREASE PUMP ACCESSORIES . . . . .31



## AIR OPERATED PISTON PUMPS FOR GREASE

Effective greasing demands a pump capable to deliver the pressure required to force grease flow through the very narrow opening in a grease fitting. For this reason, high pressure, high ratio, pumps are used.

Samoa offers a range of high pressure grease pumps to handle a wide variety of applications. The selection of pumps will fit original container sizes and covers applications from mobile and portable units to large centralized systems.

Samoa's grease 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 pumps have a double acting design, pumping product on both the upstroke and downstroke. An effective priming piston provides positive pump feeding, even when used with high viscosity or tacky greases and a hardened foot valve minimizes pump damage due to dirt. A corrosion proof air motor design tolerates moisture in compressed air.

All Samoa pumps present on demand operation, pump adjusts speed to match system flow and pressure requirements and when the discharge is closed, for example by a closed control valve, then the pump stops. The pump can be left in this stalled condition without damaging the pump nor consuming compressed air.



### **PUMP MASTER 3 – 55:1**

55:1, pressure ratio pumps designed for mobile and portable units. These are light but powerful pumps with a highly effective pressure ratio. They are the right choice for light applications when high pressure is required. Pumps are available to fit all standard container sizes.

### **PUMP MASTER 3+3 – 60:1**

60:1, pressure ratio pumps. These are very reliable heavy duty pumps that offer the extra pressure and delivery required for the most demanding applications. They are dependable pumps for use in systems that include distribution lines and hose reels. Pump Master 3+3 pumps can also be used in mobile and portable applications when high pressure and high flow are required.

### **PUMP MASTER 6 – 55:1**

55:1, pressure ratio. These are heavy duty pumps for use in large system when high flow and high pressure are required.

**PUMPMASTER 3 GREASE PUMPS**

**PUMPMASTER 3, 55:1 PRESSURE RATIO GREASE PUMPS**

407 200

High pressure double acting pumps. Light weight and effective high pressure delivery make these pumps the right choice for use in mobile and portable high pressure greasing units. Pumps are available with four different suction tube lengths, to fit all commercial grease drums, from 12,5 - 20 kg (40 lb), 50 kg (120 lb) and 185 kg (400 lb). They include a height adjustable 2" BSP (M) bung adaptor.

FLUIDS HANDLED	APPLICATION
Grease up to NLGI-2	High pressure, low volume grease dispensing
	Mobile and portable high pressure units
	Fleet service, general industry, commercial, vehicles service facilities, agricultural, construction, min.ing

MODELS				
APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
12,5 - 20 kg (40 lb) pails	410 mm	650 mm	3.5 kg - 7.2 lb	<b>404 100</b>
50 kg (120 lb) drums	510 mm	710 mm	3.7 kg - 8.3 lb	<b>405 100</b>
50 kg (120 lb) drums	725 mm	925 mm	4.3 kg - 9.5 lb	<b>407 200</b>
185 kg (400 lb) drums	920 mm	1,120 mm	4.8 kg - 10.6 lb	<b>409 200</b>

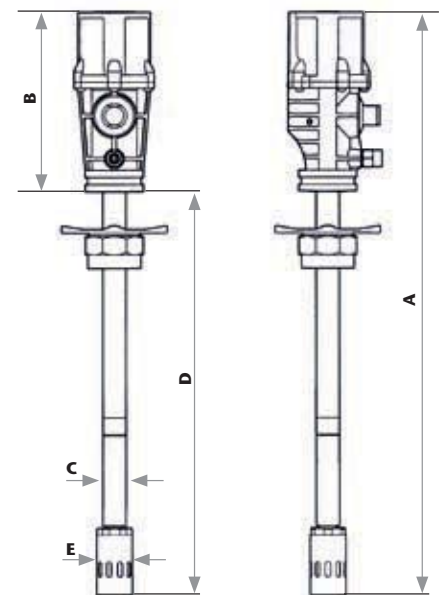
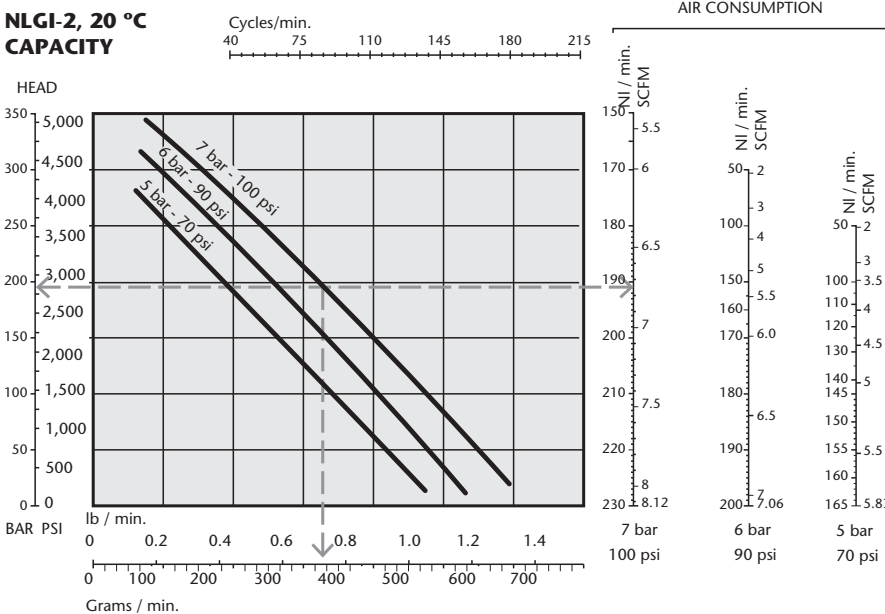
TECHNICAL DATA PRESSURE RATIO 55:1	
Air pressure operating range	3 to 10 bar (40 to 140 psi)
Air consumption (1)	230 NL/min. (8.1 cfm)
Maximum fluid outlet pressure	550 bar (7,700 psi)
Air motor diameter	70 mm (2.75")
Air motor stroke	35 mm (1.4")
Number of cycles per min.ute (2)	150
Maximum free flow delivery (3)	540 gr/min. (1.2 lb/min.)
Air inlet	1/4" BSP (F)
Fluid outlet	1/4" BSP (F)
Wetted and seal materials	Steel / Zinc /NBR / PTFE
Noise level (4)	92 dB

- (1) Maximum air consumption with 7 bar air inlet pressure and free delivery.
- (2) Number of cycles per min.ute for a flow rate of 200 gr/min. (7.1 ounces/min.).
- (3) Maximum free delivery at 7 bar. NLGI-2 grease.
- (4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.



DIMENSIONS				
MODEL	404 100	405 100	407 200	409 200
A (mm)	610	710	925	1,120
B (mm)	200	200	200	200
C (mm)	26	26	26	26
D (mm)	410	510	725	920
E (mm)	38	38	38	38

**NLGI-2, 20 °C CAPACITY**



402 050

PUMPMASTER 3+3, 60:1 PRESSURE RATIO GREASE PUMPS



High pressure and high delivery double acting pump. High efficiency pumps that combine high pressure ratio (60:1) and high volume delivery (up to 1.200 gr / min., free delivery). Recommended for use in medium to large distribution systems that include pipe lines, hose reels, etc. and single point dispense systems that require extra pressure and extra delivery. Very reliable pump, includes a removable screen filter at the grease intake area, for eliminating dirt and impurities that could damage the pump, and a built in filter at the air inlet connection. Pumps are available in sizes to fit the following commercial grease drum sizes: 12,5 - 20 kg (40 lb), 50 kg (120 lb) and 185 kg (440 lb). They include a height adjustable 2" BSP (M) bung adaptor.

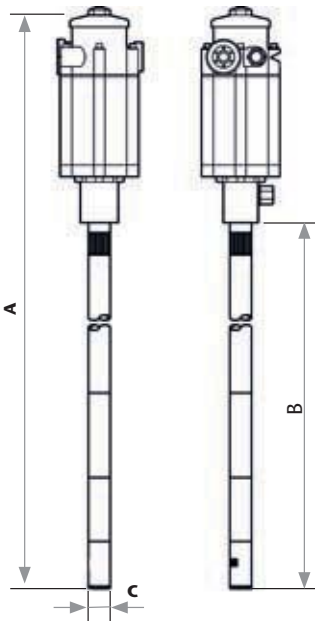
FLUIDS HANDLED	APPLICATION
Grease up to NLGI-2	High pressure, high volume grease dispense
	Centralized grease distribution systems
	Mobile and portable high pressure units
	Fleet service, general industry, heavy duty and commercial vehicles, agricultural, mining, construction, trains, etc.

MODELS				
APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
12.5 - 20 kg (40 lb) pails	516 mm	804 mm	6.5 kg - 14.3 lb	<b>402 050</b>
50 kg (120 lb) drum	730 mm	1,020 mm	7.5 kg - 16.6 lb	<b>402 000</b>
185 kg (400 lb) drum	925 mm	1,215 mm	8.5 kg - 18.7 lb	<b>402 025</b>

TECHNICAL DATA PRESSURE RATIO 55:1	
Air pressure operating range	3 to 10 bar (40 to 140 psi)
Air consumption (1)	650 NL/min. (22.9 cfm)
Maximum fluid outlet pressure	600 bar (8,400 psi)
Air motor diameter	75 mm (3")
Air motor stroke	75 mm (3")
Number of cycles per min.ute (2)	98
Maximum free flow delivery (3)	1,200 gr/min. (2.6 lb/min.)
Air inlet	3/8" BSP (F)
Fluid outlet	3/8" BSP (F)
Wetted and seal materials	Steel / Zinc / NBR / PTFE / Polyurethane
Noise level (4)	92 dB

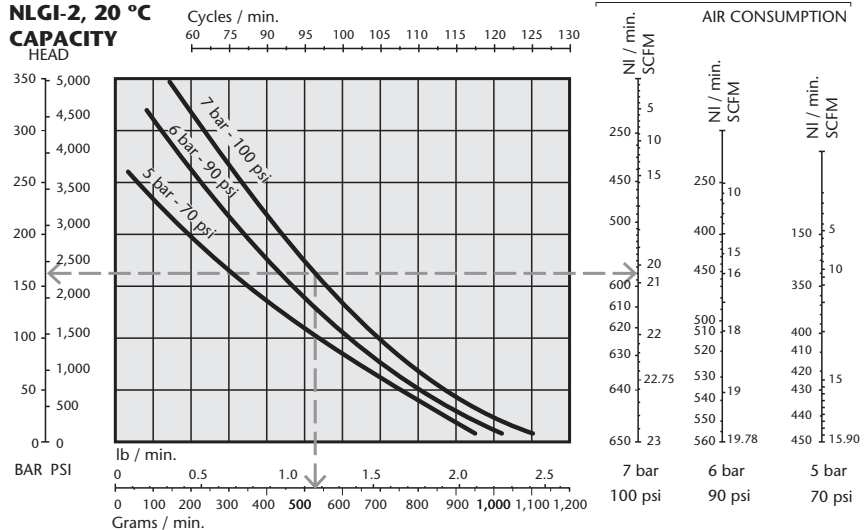
**DIMENSIONS**

MODEL	402 000	402 025	402 050
A (mm)	1,010	1,215	804
B (mm)	730	925	516
C (mm)	30	30	30



- (1) Maximum air consumption with 7 bar air inlet pressure and free delivery.
- (2) Number of cycles per min.ute for a flow rate of 500 gr/min. (1.1 lb/min.)
- (3) Maximum free delivery at 7 bar. NLGI-2 grease.
- (4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

**NLGI-2, 20 °C  
CAPACITY**



**PUMPMASTER 6 GREASE PUMPS**

**PUMPMASTER 6, 55:1 PRESSURE RATIO GREASE PUMP**

401 025

Heavy Duty high pressure and high delivery pump. Long stroke pump, requires a small number of cycles to deliver enough volume of grease required in most applications. Recommend for use in large systems that include pipe lines, hose reels, etc.

Very reliable double acting pump, includes a removable screen filter at the grease intake area for eliminating dirt and impurities that could damage the pump.

Pumps are available to fit 50 kg (120 lb) and 180 kg (440 lb) open drums. Pumps mount to a drum cover through a flange (2" BSP (M) bung adaptor available as an option, PN 410 001).

FLUIDS HANDLED	APPLICATION
Grease up to NLGI-2	High pressure, high volume grease dispense systems
	Fleet service, general industry, Heavy Duty and commercial vehicles service, mining, construction, trains, etc.

**MODELS**

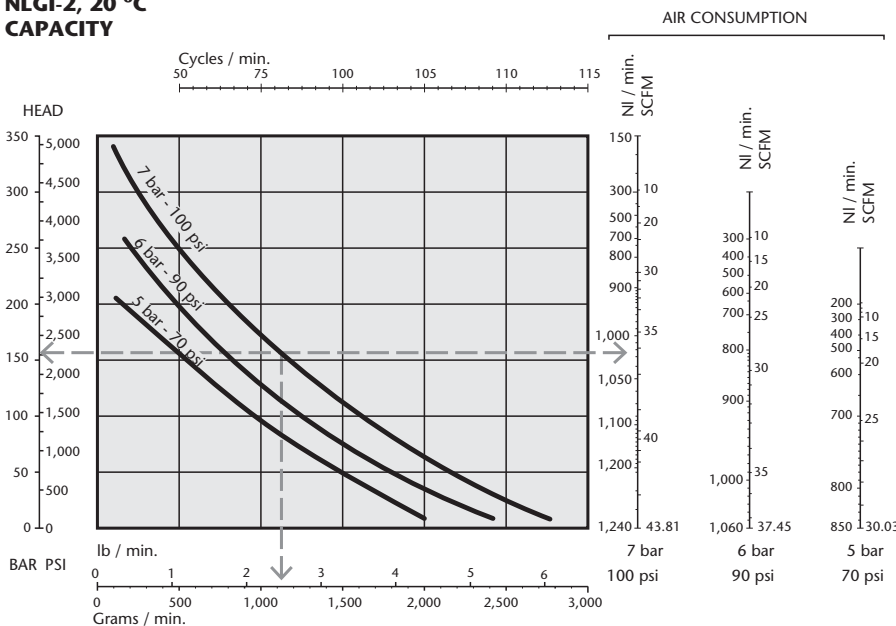
APPLICATION	PUMP TUBE HEIGHT	TOTAL HEIGHT	WEIGHT	PART No.
50 kg (120 lb) drum	640 mm	1,135 mm	15.3 kg - 33.71 lb	<b>401 000</b>
185 kg (400 lb) drum	835 mm	1,330 mm	16.8 kg - 37 lb	<b>401 025</b>

**TECHNICAL DATA PRESSURE RATIO 55:1**

Air pressure operating range	3 - 10 bar (40 to 140 psi)
Air consumption (1)	1,240 NL/min. (43.8 cfm)
Maximum fluid outlet pressure	550 bar (7,700 psi)
Air motor diameter	160 mm (6.3")
Air motor stroke	110 mm (4.3")
Number of cycles per minute (2)	104
Maximum free flow delivery (3)	3,000 gr/min. (6.6 lb/min. )
Air inlet	1.2" BSP
Fluid outlet	3/8" BSP
Wetted and seal materials	Steel/Zinc/ NBR /PTFE/Polyurethane
Noise level (4)	82.5 dB

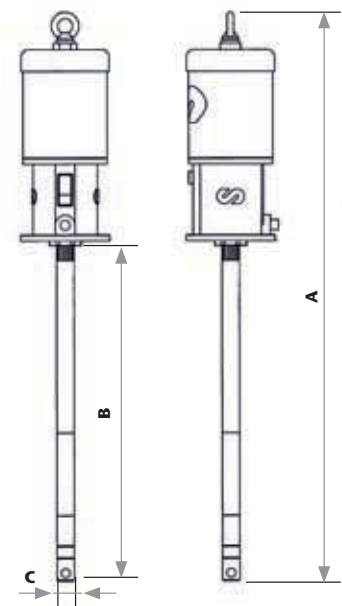
- (1) Maximum air consumption with 7 bar air inlet pressure and free delivery.
- (2) Number of cycles per minute for a flow rate of 2 kg/min. (4.4 lb/min.).
- (3) Maximum free delivery at 7 bar. NLGI-2 grease.
- (4) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

**NLGI-2, 20 °C CAPACITY**



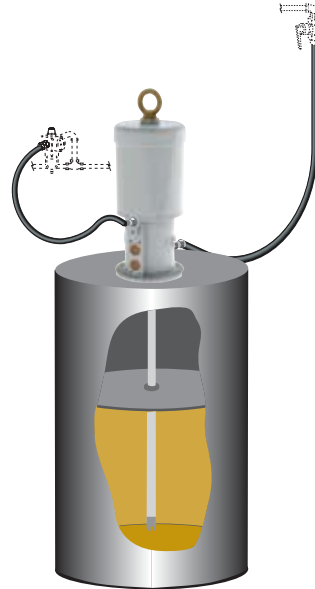
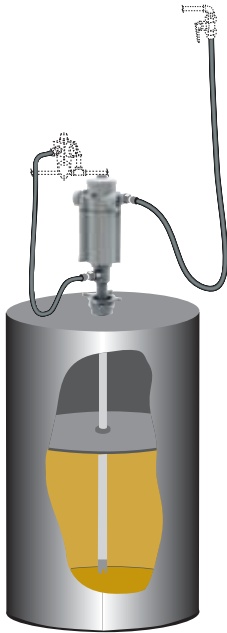
**DIMENSIONS**

MODEL	401 000	401 025
A (mm)	1,135	1,330
B (mm)	640	835
C (mm)	35	35



429 800

429 900



#### PUMPMaster 3+3 GREASE PUMP KITS

##### 429 810 PumpMaster 3+3 grease pump kit for 50 kg drums

**Includes:**

- 402 000: PumpMaster 3+3 high pressure grease pump with bung adaptor.
- 418 004: Drum cover for 50 kg drums.
- 412 920: PumpMaster 3+3 connection kit.

##### 429 800 PumpMaster 3+3 grease pump kit for 180 kg drums

**Includes:**

- 402 025: PumpMaster 3+3 high pressure grease pump with bung adaptor.
- 418 006: Drum cover for 180 kg drums.
- 417 004: Follower plate for 180 kg drums.
- 412 920: PumpMaster 3+3 connection kit.

#### PUMPMaster 6 GREASE PUMP KIT

##### 429 900 PumpMaster 6 grease pump kit for 180 kg drums

**Includes:**

- 401 025: PumpMaster 6 high pressure grease pump.
- 418 026: Drum cover for 180 kg drums.
- 417 004: Follower plate for 180 kg drums.
- 412 930: PumpMaster 6 connection kit.

**GREASE PUMP ACCESSORIES**

**DRUM COVERS** 360 125 - 418 004

Very solid construction. With 2" BSP (F) thread for the pump bung adaptor.

PART No.	DRUM TYPE	DRUM EXT. Ø (MAX. - MIN.)	PUMP FIXATION
418 013	12.5 - 18 kg pails	310 - 265 mm	2" BSP (F)
418 002	20 kg pails	330 - 285 mm	2" BSP (F)
418 016	50 kg drums	395 - 350 mm	2" BSP (F)
418 004	50 kg drums	405 - 360 mm	2" BSP (F)
418 006	180 kg drums	610 - 565 mm	2" BSP (F)
418 026	180 kg drums	620 - 580 mm	2 x (4 x Ø 9 mm)

**Drum cover accessories**

- 741 602: Carrying handle (for covers PN 418 013 and PN 418 002).
- 360 125: Grease gun holder for drum covers.



**FOLLOWER PLATES** 417 003

Elimin.ates air pockets and aids pump prime. Rubber flange min.imizes waste. With handle for easy removal from empty drums.

PART No.	DRUM TYPE	DRUM EXT. Ø (MAX. - MIN.)	PUMP TUBE Ø (MAX. - MIN.)
417 001	12.5 - 18 kg pails	298 - 260 mm	42 - 26 mm
417 005	20 kg pails	340 - 300 mm	42 - 26 mm
417 002	50 kg drums	370 - 330 mm	42 - 26 mm
417 003	50 kg drums	405 - 360 mm	42 - 26 mm
417 004	180 kg drums	590 - 550 mm	42 - 26 mm
417 006	12.5 kg pails	260 - 190 mm	42 - 26 mm



**BUNG ADAPTORS / 410 001 - 360 133** CONNECTION ADAPTORS



2" BSP (F) connection thread, with split collar to clamp the pump tube, adjusts to all drum covers except for cover 418 026 that requires converter 360 133.

PART No.	APPLICATION	INTERNAL JAW Ø
410 000	PumpMaster 3 pumps	26 mm
410 002	PumpMaster 3+3 pumps	30 mm
410 001	PumpMaster 6 pumps	35 mm

**360 133 - 2" BSP (F) converter plate for drum cover 418 026**



Required to connect high pressure hoses to the pump.

PART No.
945 590: 1/4" BSP (MM)
945 591: 3/8" BSP (M) - 1/4" BSP (M)
945 592: 3/8" BSP (MM)
945 593: 1/2" BSP (MM)
945 554: 3/4" BSP (M) - 1/2" BSP (M)
945 557: 1/2" BSP (M) - 3/8" BSP (M)
945 556: 1/2" BSP (M) - 3/8" BSP (F)
945 516: 1/2" BSP (M) - 1/4" BSP (F)

## AIR LINE ACCESSORIES

**For PumpMaster 3 and PumpMaster 3+3 pumps**

**240 200** Air pressure regulator, 10 -12 bar  
1/4" BSP (FF).

**240 400** Air lubricator 1/4" BSP (FF).

**241 401** Air lubricator

1/2" BSP (F) - 3/8" BSP (F).

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

**For PumpMaster 6 pumps**

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

**241 401** Air lubricator

1/2" BSP (F) - 3/8" BSP (F).

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

**Air hoses****For PumpMaster 3 and 3+3 pumps**

**246 006**, 0.6 m - 1/4" BSP (MM).

**246 010**, 1.0 m - 1/4" BSP (MM).

**246 015**, 1.5 m - 1/4" BSP (MM).

**For PumpMaster 6 pumps**

**362 100**, 1.0 m, 1/2" BSP (MM).

**362 101**, 1.5 m, 1/2" BSP (MM).

**Connection adapters for PumpMaster 3, PumpMaster 3+3 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).

**Air valves**

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

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

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

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



## GREASE PUMP ACCESSORIES

## GREASE HOSES AND VALVES



High pressure, nitrile rubber hoses reinforced with high a density of steel braids. Swaged fittings with swivelling nut and adaptors on both ends.

PART No.	LENGTH	INTERNAL Ø	FITTING THREADS	WORKING PRESSURE
<b>412 101</b>	1.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 190</b>	1.5 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 102</b>	2.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 103</b>	3.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 104</b>	4.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 106</b>	6.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 108</b>	8.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 110</b>	10.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 112</b>	12.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 115</b>	15.0 m	1/4"	1/4" BSP (MM)	350 bar (5,000 psi)
<b>412 391</b>	1.5 m	3/8"	1/4" BSP (M) x 3/8" BSP (M)	280 bar (4,000 psi)
<b>412 392</b>	1.5 m	3/8"	3/8" BSP (M) x 1/2" BSP (M)	280 bar (4,000 psi)

**VALVES**

PART No.	CONNECTION THREADS	WORKING PRESSURE
<b>950 304</b>	1/2" BSP (FF)	500 bar (7,140 psi)