



SPECIFICATIONS

EXTRUSION PUMP

Model 40-302

Manual : 1003 573.046.212

Date : 31/03/10- Supersede : 5/02/04

Modif. : Update

ORIGINAL MANUAL

IMPORTANT : before assembly and start-up, please read and clearly understand all documents relating to this equipment (professional use only).

PICTURES AND DRAWINGS ARE NON CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR

ADDITIONAL DOCUMENTATIONS FOR PUMP, MODEL 40-302

SPARE PARTS :	Wall mounted unit	(doc. 573.191.050)
	Fluid section	(doc. 573.522.040)
	Air motor	(doc. 573.507.040)
	Reversing block	(doc. 573.087.040)

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SPECIFICATIONS
EXTRUSION PUMP, model 40-302

1. TECHNICAL FEATURES

- Ball pump
- Cold extrusion pump

Recommended for :

- Supplying one or several spray guns
- Extruding semi-thick or very viscous materials.

Motor model8000-6
 Pump body model302
 Pressure ratio 40/1

Air motor stroke	150 mm	6"
Air motor section	748 cm ²	116 sq.in
Fluid section	17,5 cm ²	2.7 sq.in
Delivery per cycle	540 cm ³	33 cu.in
Number of cycle	1,8 per liter	7 per US gal
Fluid flow rate (10 cycles).	5,3 l	1.4 US gal
Maximum power air pressure	6 bar	87 psi
Maximum piloting air pressure	4 bar	58 psi
Maximum fluid pressure	240 bar	3480 psi
Noise level	< 82 dBa	< 82 dBa
Maximum operating temperature	50°C	122 ° F
Air consumption per cycle (under 4 bar / 58 psi air pressure)	135 l	36 US gal

Wetted parts :

Hard chrome stainless steel, stainless steel, aluminium alloy, treated steel

Tightness packings :

Upper : PTFE G (x 3) + POLYFLUID (x 3)
 or PTFE B (x 8)

Lower : PTFE G (x 4) + POLYFLUID (x 3)

Weight 105 kg / 231.4 lb

■ FITTINGS

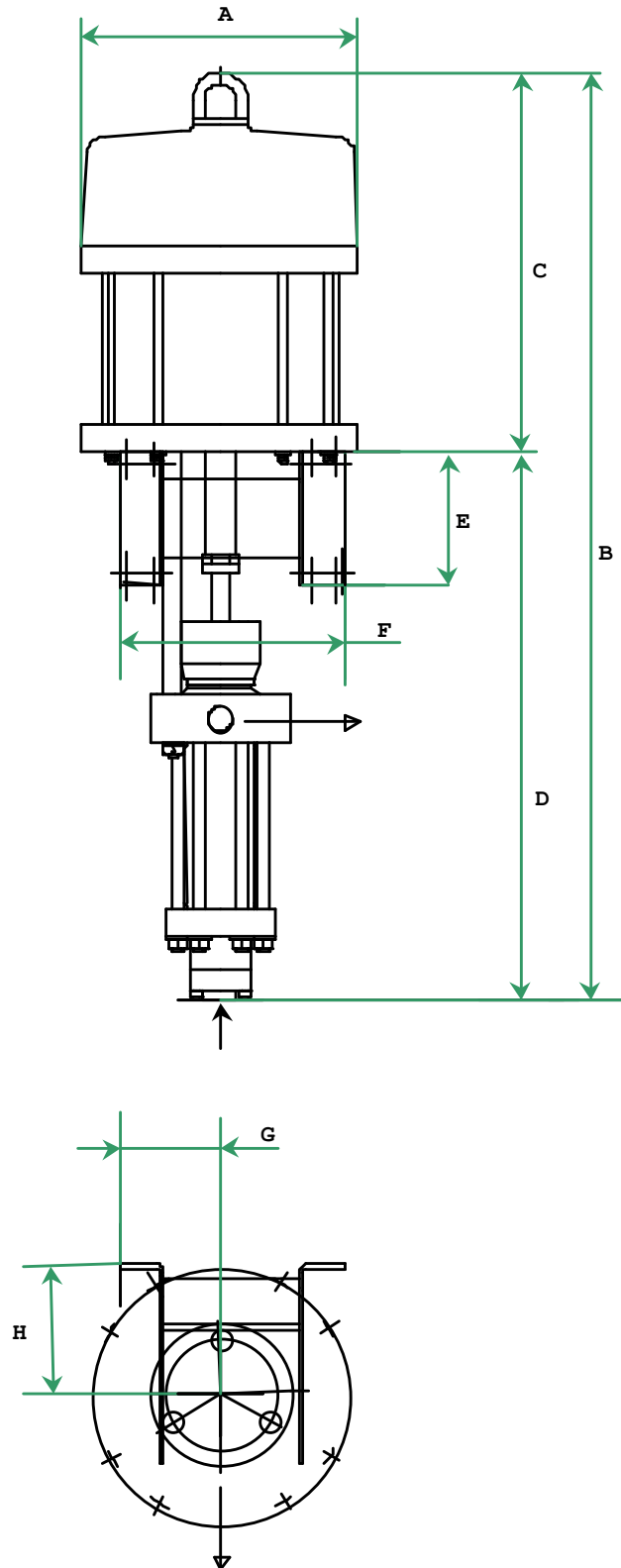
Bare pump		
Air	Inlet	F 3/4" BSP
Material	Inlet	Standard flange for plate Ø 360 or 560 or suction flange 2" BSP
	Outlet	F 1" BSP

■ HOSES WITH FITTINGS

Pump air supply hose (minimum Ø for a 5 m / 16.5 ft length) : Ø 20 mm / 3/4" dia

■ DIMENSIONS

Ind.	A	B	C	D	E	F	G	H
mm	∅ 380	1 270	520	750	180	305	136,5	175
"	15	50	20.5	29.5	7.1	12	5.4	7



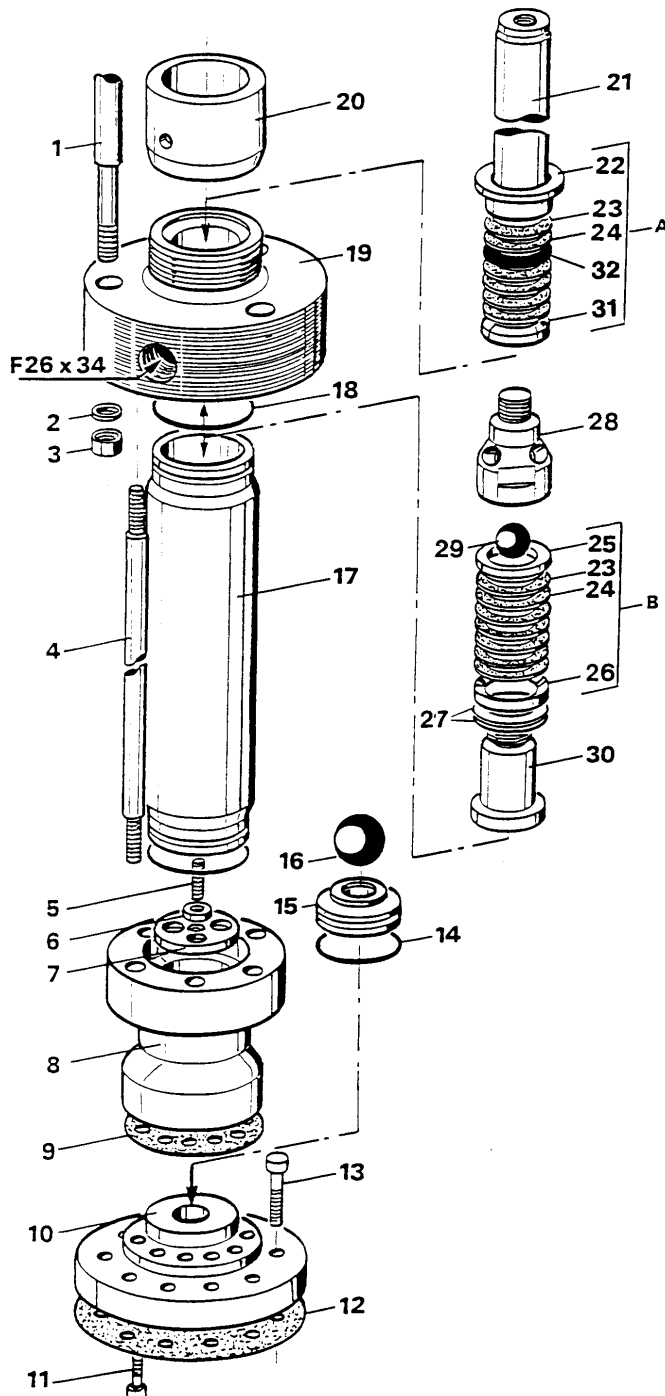
2. MAINTENANCE



WARNING : Before any intervention on the pump, shut off the compressed air supply, depressurize the systems by triggering the spray gun and opening the drain valve.

Guards (motor cover, coupling shields, connectors,...) have been designed for a safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or property damage due to destruction, the overshadowing or the partial or total removal of the guards.



■ DISASSEMBLY

Separate the fluid section from the air motor.

Unscrew cup (20).

Remove the nuts (3) and the tie-rods (4).

Remove the upper flange (19).

→ Remove A packing.

Disassemble the cylinder (17) from the lower flange (8).

→ Pull piston (21).

→ Remove B packing by unscrewing the exhaust valve seat (30).

Unscrew the screws (11) to separate the lower flange (8) from the suction flange (10).

→ Remove the suction valve (14, 15, 16).

■ REASSEMBLY

Replace all flat seals - Lubricate them.

Clean the parts with white spirit.

UPPER PACKING (A)

Lubricate the chevron seals (23 & 24). Install them as well as the rings (22-31-32) into the upper flange (19). **Make sure you properly install the parts (refer to detail on drawing).**

Screw the cup (20) by hand without tightening on the upper flange (19).

Insert piston (21) into parts (19, A, 20) from the bottom to the top.

LOWER PACKING (B)

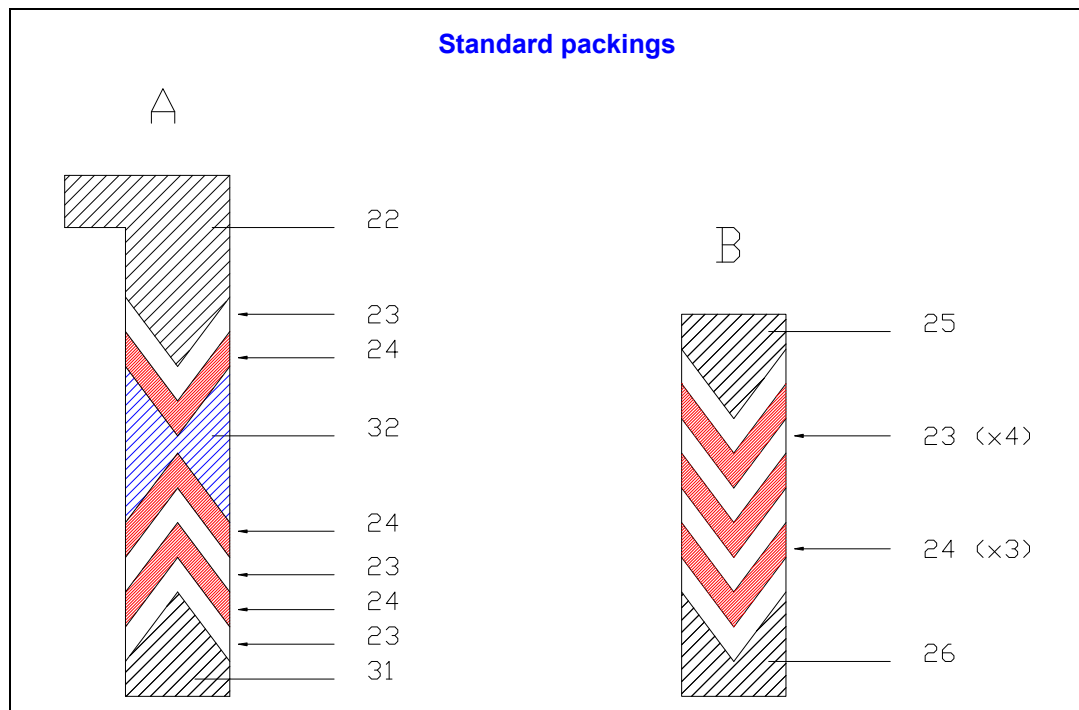
Install the chevron seals (23 & 24), the support washers (25 & 26) and 1 or 2 setting washer (s) into the exhaust valve seat (30). **Make sure you properly install the parts (refer to detail on drawing).**

Position the ball (29) on the seat (30) and screw the whole on the valve body (28).

Screw and tighten the valve body (28) into the piston (21).

First, apply low strength - Aneorobic Adhesive - Loctite 222 to prevent from the unscrewing of the whole.

Lubricate the seals (23 & 24) as well as the inside of the cylinder (17) to prevent from damaging the seals when assembling.



SUCTION VALVE

Position the ball seat (15), the seal (14) into the lower part of the lower flange (8).

Position the ball (16) in the upper part of the lower flange.

Tighten the screw (5) and the nut (6) on the ball stop (7). Comply with the dimension of **6.5 mm / 0.25"** for the screw exceeding in relation to the bottom of the stop. Install it into the lower flange (8).

Install the lower flange (8) on the cylinder (17). Do not forget to change the cylinder seals (18). Fix the whole by means of the 6 tie-rods (4), of the washers (2) and of the nuts (3). Tighten the screws on the tie-rods and torque to 8 m/kg.

Install suction flange (10) with paper seal (9) and assemble the whole on the lower flange (8) by means of the 12 screws (11). Do not forget the paper seal (12).

Warning : after reassembling on the air motor, fill up the cup with lubricant, supply the pump with air and gradually increase pressure to maximum for the setting of the seals.

After half an hour, depressurize the pump and check the torque.