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ART. 2497 – BIS C.C. DIREZIONE E COORDINAMENTO BENETTI srl R.I. TRIB. DI RE 01480690351
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RL 37 – Spray gun 310 bar – 31 MPa

Technical manual : **E 126**

Guns suitable for use up to 310 bar – 31 MPa rated pressure pumps.
No fluid passage upon trigger release.

DN10



- **30.1200.00** RL 37 G3/8 G1/4 FF
- **30.1200.80** RL 37 G3/8 G1/4 MF
- **30.1220.00** RL 37 con SW6 G3/8 G1/4 FF

- Covered by shockproof plastic semi-housings
- Sst seat and ball
- Internal structure in brass and zinc plated steel and Sst.
- Ergonomic construction
- Minimum fatigue for trigger opening and use

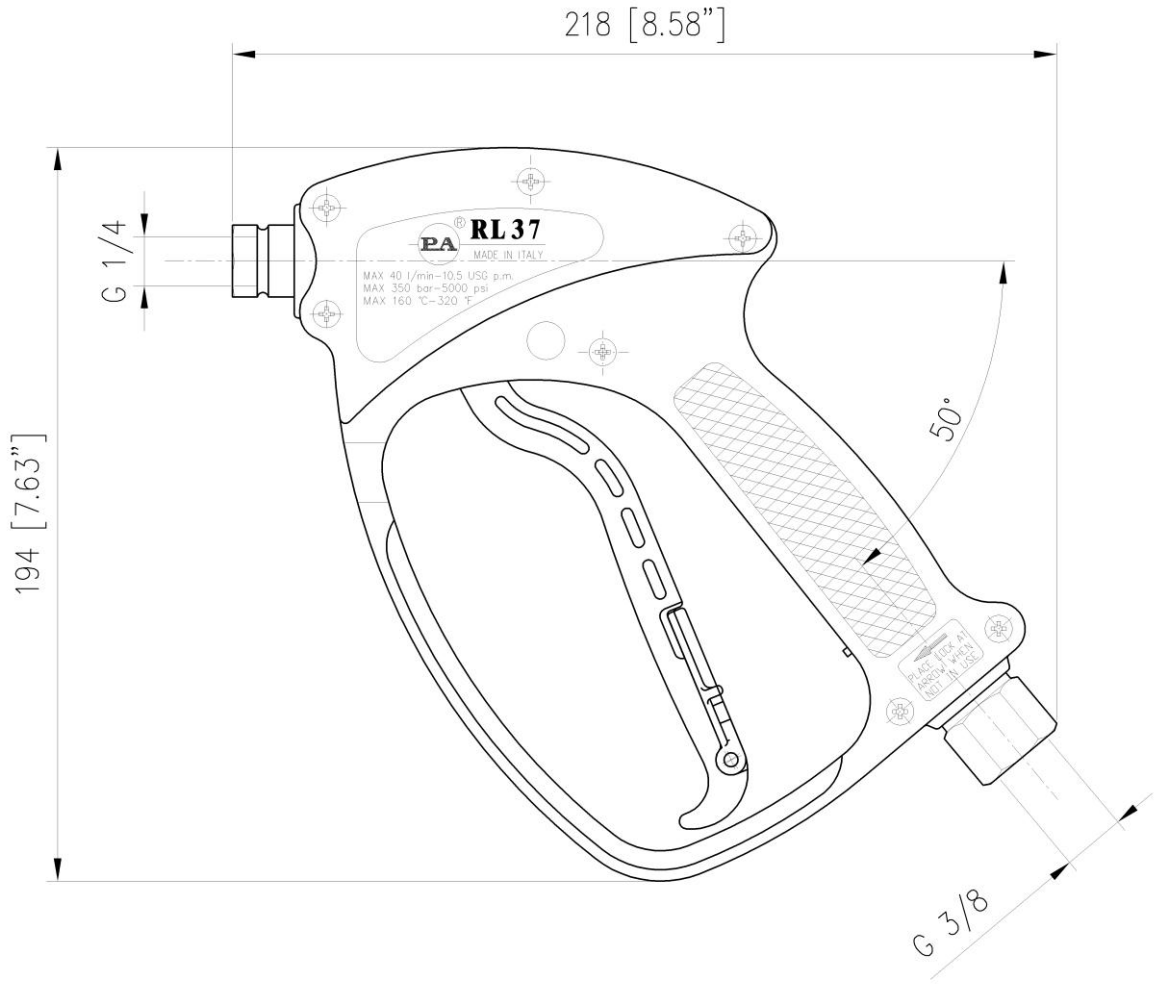
TECHNICAL SPECIFICATIONS

P/N	RATED PRESSURE bar - MPa	PERMISSIBLE PRESSURE bar - MPa	MAX FLOW RATE l/min	(1) MAX TEMPERATURE °C	INLET - OUTLET		WEIGHT g
30.1200.00	310 - 31	350 - 35	40	160	G3/8 G1/4	FF	573
30.1200.80	310 - 31	350 - 35	40	160	G3/8 G1/4	MF	565
30.1220.00	310 - 31	350 - 35	40	160	G3/8 G1/4	FF	626

(1) The gun has been designed for continuous use, at a water temperature of 90°C (195°F). It can resist at the max temperature of 160°C (320°F) for short periods only, as, when the gun shuts off, the heater continues to transmit the heat to the water, thus increasing both temperature and pressure up to high, dangerous values.
Using the gun at a water temperature higher than 60°C involves for the operator the use of adequate safety devices, such as gloves, eye-glasses, etc..

Manuale di istruzione, manutenzione, installazione, ricambi. Per un corretto utilizzo seguire le avvertenze contenute in questo manuale **Riportarle nel libretto Uso e Manutenzione delle macchine.**	n. 12.9126.00

DIMENSIONAL DRAWING



INSTRUCTIONS

This product is to be utilized with clean fresh water, even slightly additivated with normal detergents. For use involving different or corrosive liquids, contact the PA Technical department. Appropriate filtration should be installed when using unclean liquids. Choose the gun in line with the data of nominal running (system rated pressure, max flow and max temperature). In any case, the pressure of the machine should not exceed the permissible pressure rate imprinted on the gun.

INSTALLATION

This gun was designed to operate with **hot water** (in compliance with the technical specs). Provide the plant generating **hot water** with an equipment limiting the incidental increase of the fluid temperature.

Always fit a safety valve to protect the delivery conduct when the latter is under pressure.

Choose a suitable nozzle and ad just the valve mounted in the front of the gun, thus obtaining a constant supply and avoiding unpleasant pressure spike when closing the system.

If the nozzle wears out, the pressure falls. When you install a new nozzle, adjust the system back to the original pressure.

OPERATIONS

The gun opens and closes a high pressure conduct by means of a piston acting on a seat; the return is controlled by a spring which releases the trigger. **Attention: during pump activation always set the gun with its safety latch connected in order to prevent accidental openings.**

WATER HOSE FEED

By high or very unsteady pressure values on delivery, it is necessary to mount a pressure reducer , both to level the flow rate on delivery and to protect the system components.

PROBLEMS AND SOLUTIONS

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Leakage from the nozzle	Presence of impurities Gun seat worn out	Clean Replace Fit adequate filters and/or check
Leaking seals	Seals worn out	Replace seals
Difficult trigger opening	High pressure inside circuit	Check the bypass and adjust if necessary

REGULATIONS

The design and construction of our products comply with: norm CEI EN 60335-2-79 first edition, published in 1999-03 and its respective variations on the project norm prEN 1829.

Read this manual before starting the assembly.
For a correct utilization, follow the directions described in this manual and re-print them on the Use and maintenance manual of the machine.

The present manual is valid for all the guns named **RL37.**

SPARES

Use original PA spares only in order to get both a correct operation and a long lasting, reliable product.

MAINTENANCE

Maintenance has to be carried out by **Specialized Technicians.**

STANDARD: every 400 working hours (circa 10,000 cycles), check and lubricate the seals with water resistant grease.
SPECIAL: every 800 working hours(circa 20,000 cycles), check the wear of the seals and internal parts and if necessary, replace with original PA parts, taking care during installation to lubricate with water resistant grease.

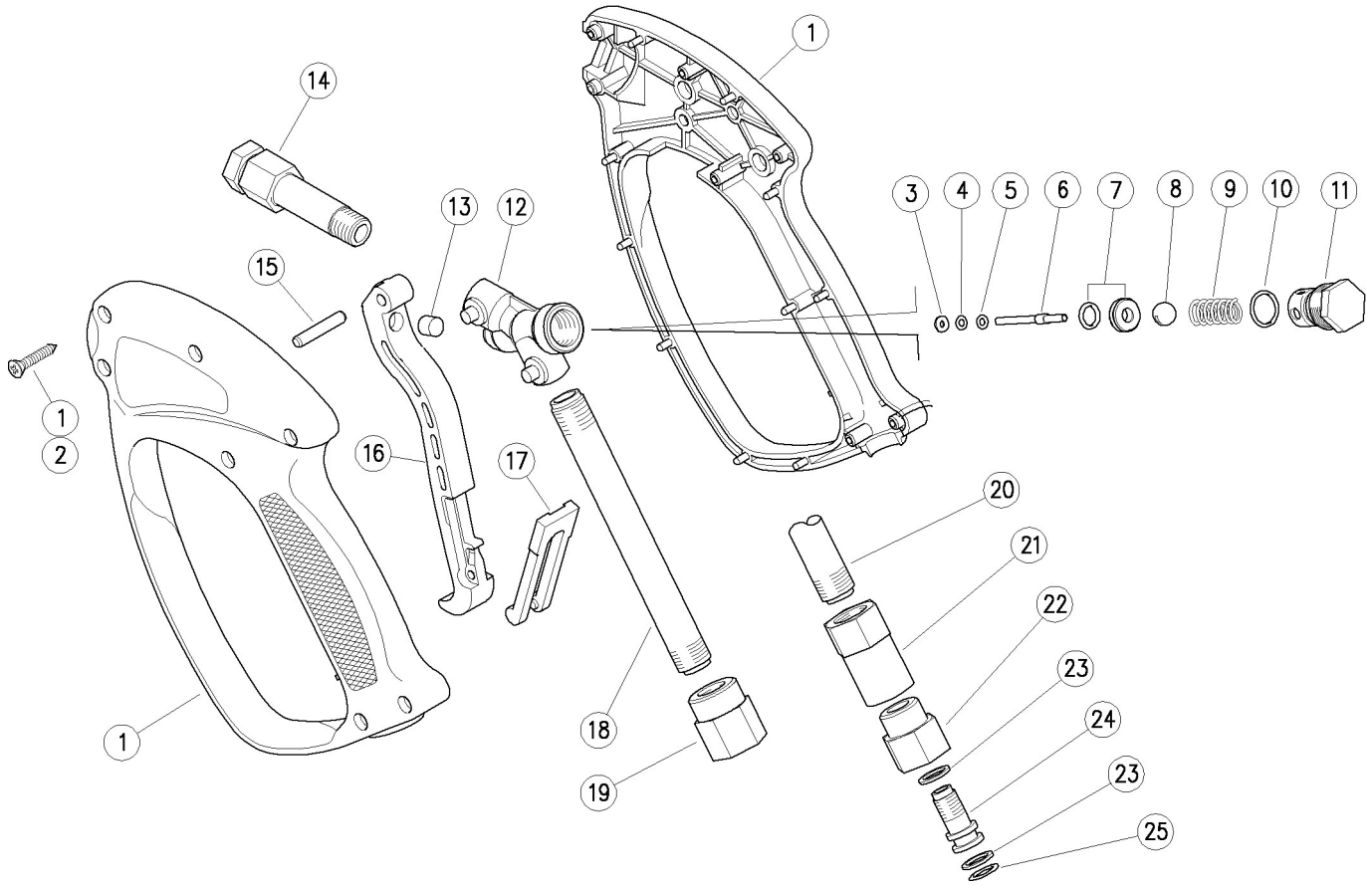
CAUTION: re-assemble the gun restoring the original conditions.

The manufacturer is not to be considered responsable for damage as a result from incorrect fitting and maintenance.

Technical data, descriptions and illustrations are indicative and liable to modification without notice.

30.1200.00 RL37 spr.gun 3/8F-1/4F Bsp
30.1200.50 RL37 spr.gun 3/8F-1/4F Npt
30.1200.80 RL37 gun -3/8-1/4Bsp MF

30.1210.00 RL37 weep gun -3/8-1/4Bsp FF
30.1215.00 RL37 weep gun+sw6 -Bsp3/8F x 1/4F
30.1220.00 RL37 spr.gun +sw.6 3/8F-1/4F Bsp



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	30.1207.24	Casing-kit -RL37 +screws, Sst.	1					1
2	16.3077.00R	S/tapping screw, DIN7981 3,5x18 mm	7					10
2	16.3075.51R	S/tapping scr. 3,5x18 mm sst. (1)	7					10
3	10.4018.00R	Back-up ring, 3,2x7,5x1,2 mm	1	•	•			10
4	10.3165.00R	O-ring, 2,62x2,84 mm Vi 70	1	•	•			10
5	14.3511.00R	Washer, 3,2x7x0,5 mm sst.	1	•	•			10
6	30.0704.51R	Piston, 3-4 mm Sst.	1	•	•			10
7	30.1708.20R	Seat, 6mm Sst.+O-ring	1	•	•			10
7	30.0716.20R	Weep.seat,5,8mm+O-ring (I.1,1) (1)	1					10
8	14.7448.00R	Ball, 5/16" Sst.	1	•	•			10
9	30.2596.51R	Spring, 1,5x6,1x23 mm Sst.	1					10
10	10.3020.02R	O-ring, 1,5x10 mm Ni 85	1	•	•			10
11	30.2595.31R	Spring plug, M16x1 brass	1					10
12	30.1205.35R	Housing -RL37, brass	1					5
13	30.0675.84R	Stop pin, 8x7,1mm PA	1					10
14	30.2006.35R	Front tube, 1/4F Bsp 72 mm brass	1					5

Kit	P/N	Description	
K1	30.1209.24	Repair kit -RL37, 8x1pcs.	1
K2	30.1224.24	Repair kit -RL37+sw6 10x1pcs.	1

Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
14	30.2008.35R	Front tube, 1/4F Npt 72 mm brass (2)	1					10
15	30.2517.31R	Parallel pin, 5x27,5 mm brass	1					10
16	30.1204.84R	Trigger -RL37, PA black	1					10
17	30.1510.84R	Safety latch, PA red	1					10
17	30.1515.84R	Safety latch, PA blue (1,3)	1					10
18	30.1203.66R	Tube, 1/4Bsp MM 140 mm z.pl.	1					5
19	30.1206.31R	Coupl., 1/4F-3/8F Bsp brass (4)	1					5
19	30.1208.31R	Coupl., 1/4F Bsp-3/8F Npt brass (2)	1					5
19	30.1212.31R	Adapter, 1/4F-3/8M Bsp brass (5)	1					5
20	30.1221.66R	Tube, 1/4Bsp MM 115 mm z.pl. (6)	1					5
21	30.1222.31R	Adapt., M10x1F-1/4F Bsp brass (6)	1					5
22	30.2019.31R	Coupl., 3/8F Bsp brass (6)	1					5
23	10.4010.01R	Back-up ring,10,2x13,9x1,2mm (6)	2		•			50
24	30.2017.51R	Pin, SW M10x1 M Sst. (6)	1					10
25	10.3129.50R	O-ring, 2,5x9,5 mm Vi 70 (6)	1		•			10

(1) 30.1210.00 (2) 30.1200.50 (3) 30.1215.00 (4) 30.1200.00 (5) 30.1200.80 (6) 30.1220.00