P.A. - S.r.l. - EQUIPAGGIAMENTI TECNICI DEL LAVAGGIO
VIA MILANO, 13 - 42048 RUBIERA (REGGIO EMILIA) - ITALY - Tel. +39 0522 623611 (10 linee)
Fax +39 0522 629600 - R.E.A. RE 156319 - Registro Imprese RE 11535 - Mecc. RE 013446
C.F. e P. IVA 01035950359 - Cap. Soc. i.v. € 750.000,00 - Codice Identificativo C.E.E. IT 01035950359
ART. 2497 - BIS C.C. DIREZIONE E COORDINAMENTO BENETTI srl R.I. TRIB. DI RE 01480690351
http://www.pa-etl.it - E-mail: info@pa-etl.it

RL26 ï Spray gun - 250 barï 25 MPa

Technical manual: **E 135**

Guns suitable for use up to 250 barï 25 MPa rated pressure pump. DN10
No fluid passage upon trigger release.

- **30.1755.00** RL26 G3/8 G1/4 MF 250 bar 25 MPa
- **30.1755.50** RL26 3/8 NPT 1/4 NPT FF 250 bar 25 MPa

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

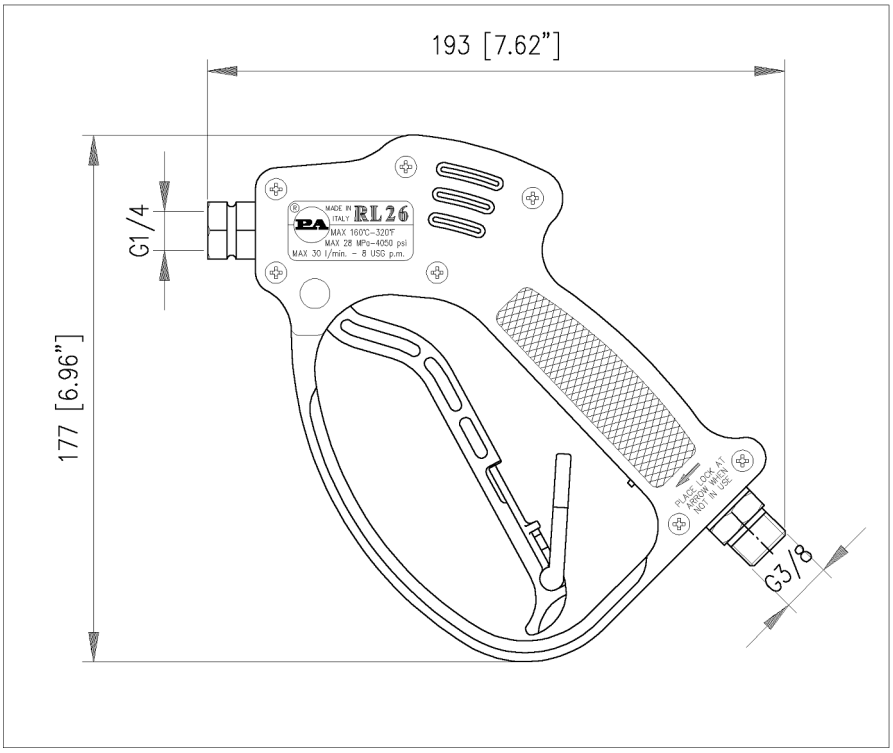
TECHNICAL SPECIFICATIONS

P/N	RATED PRESSURE bar - MPa	PERMISSIBLE PRESSURE bar - MPa	MAX FLOW RATE l/min	(1) MAX TEMPERATURE °C	INLET OUTLET	WEIGHT gr
30.1755.00	250 - 25	280 - 28	30	160	G3/8 G1/4 MF	390
30.1755.50	250 - 25	280 - 28	30	160	3/8 1/4 NPT FF	390

(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, glasses, etc.

Instruction manual, maintenance, installation, spare parts. For a correct utilization, follow the directions of this manual **Re-print them on the Use and Maintenance booklet of the machine.**	n. 12.9135.00

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 the seat Fit adequate filters and/or check
Leaking seals	Seals worn out	Replace seal
Difficult trigger opening	High pressure inside circuit	Check the bypass valve and adjust it 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 **RL 26.**

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.

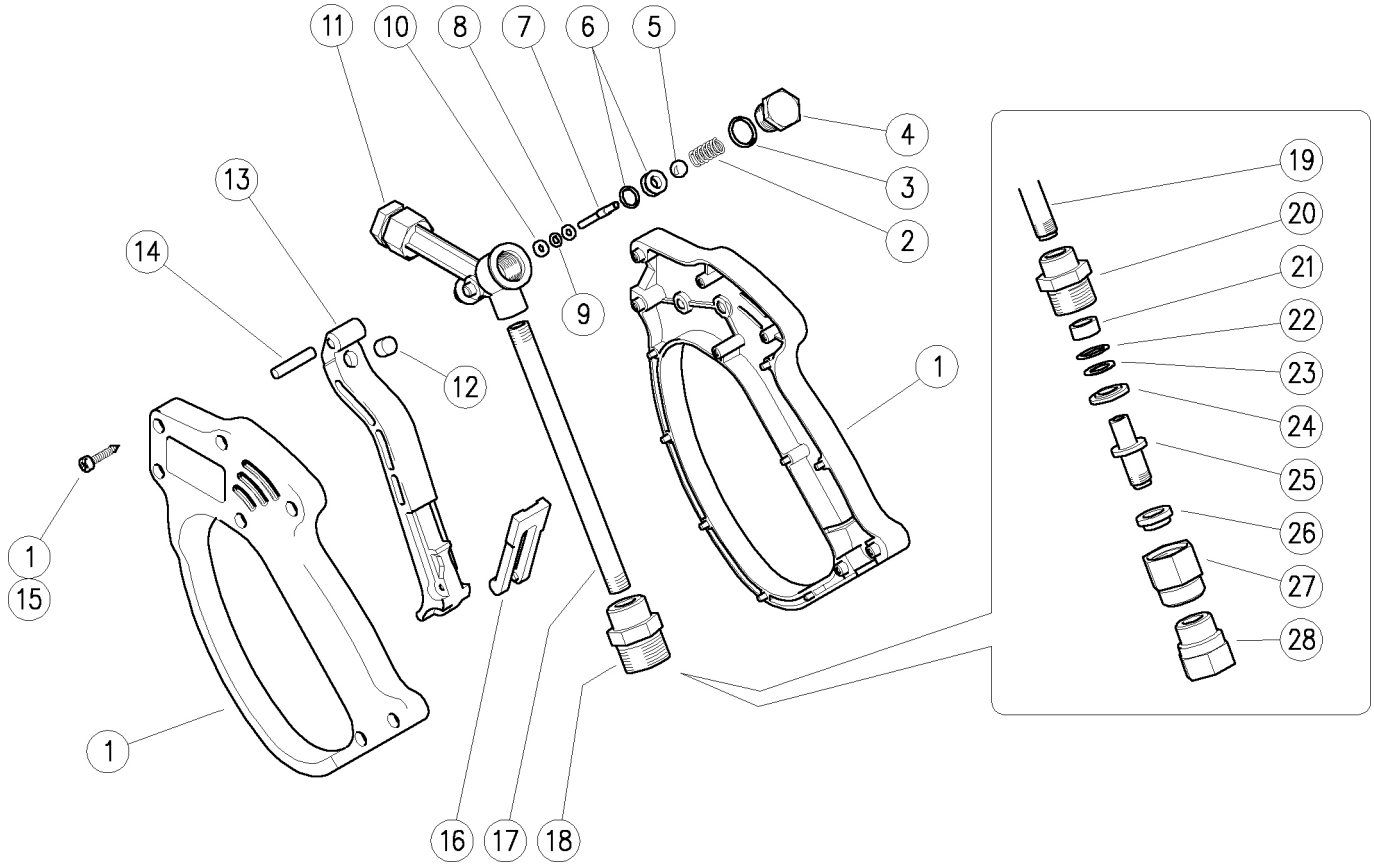
CAUTION: re-assemble the gun restoring the original conditions.

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.

30.1755.00 RL26 spr.gun 3/8M-1/4F Bsp
30.1755.30 RL26 spr.gun 3/8F-1/4F Bsp
30.1755.50 RL26 spr.gun 3/8F-1/4F Npt

30.1755.60 RL26 spr.gun A M22-1/4F Bsp
30.1772.00 RL26 spr.gun+sw.8 3/8F-1/4F Bsp



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	30.1759.24	Casing-kit -RL26 +screws, Sst.	1					1
2	30.0703.51	Spring, 1,3x8,5x19 mm Sst.	1					10
3	10.3060.01	O-ring, 1,78x12,42 mm Ni 85	1	'	'			10
4	30.0702.31	Plug, M14x1 brass	1					10
5	14.7448.00	Ball, 5/16" Sst.	1	'	'			10
6	30.1708.20	Seat, 6mm Sst.+O-ring 1,78mm NBR85	1	'	'			10
7	30.0704.51	Piston, 3-4 mm Sst.	1	'	'			10
8	14.3511.00	Washer, 3,2x7x0,5 mm sst.	1	'	'			10
9	10.3165.00	O-ring, 2,62x2,84 mm Vi 70	1	'	'			10
10	10.4018.00	Back-up ring, 3,2x7,5x1,2 mm	1	'	'			10
11	30.1700.35	Central housing -RL26, 1/4F Bsp brass	1					5
11	30.1701.35	Central housing -RL26, 1/4F Npt brass (1)	1					5
12	30.0675.84	Stop pin, 8x7,1mm PA	1					10
13	30.1704.84	Trigger -RL26, PA black	1					10
14	30.0509.31	Parallel pin, 5x24,5 mm brass	1					10
15	16.3077.00	S/tapping screw, DIN7981 3,5x18 mm	7					10

Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
16	30.1510.84	Safety latch, PA red	1					10
17	30.0706.56	Tube, 1/8Bsp MM Sst.	1					10
18	30.1521.31	Coupl., 1/8F-3/8M Bsp c/sunk brass (2)	1					5
18	30.1517.31	Coupl., 1/8F Bsp-3/8F Npt brass (1)	1					10
18	30.0718.31	Coupl., 1/8F Bsp-M22x1,5M brass (3)	1					5
18	30.1512.31	Coupl., 1/8F-3/8F Bsp brass (4)	1					5
19	30.0734.56	Tube, 1/8Bsp MM 97mm Sst. (5)	1					5
20	30.0727.31	Coupl., 1/8F Bsp-M20x1M brass (5)	1					10
21	30.0728.84	Bushing, 9x13x6 mm plast. black (5)	1		'			10
22	10.3109.93	O-ring, 2,4x8,3 mm Vi 70 (5)	1		'			10
23	10.4008.50	Back-up ring, 9x13,2x1,2 mm (5)	1					10
24	30.0729.31	Spacer ring, 9x19x3 mm brass (5)	1					10
25	30.1553.31	Pin -SW, M10x1,25 M brass (5)	1					5
26	30.0730.84	Bushing, 10x17x6 mm plast. black (5)	1		'			10
27	30.0733.31	Nipple, M20x1 F brass (5)	1					5
28	30.1554.31	Coupl., M10x1,25F-3/8F Bsp brass (5)	1					5

Kit	P/N	Description	
K1	30.0736.24	Repair kit - RL26, 8x1pcs.	1
K2	30.0723.24	Spares kit -RL26+sw8 11x1pcs.	1

(1) 30.1755.50 (2) 30.1755.00 (3) 30.1755.60 (4) 30.1755.30 (5) 30.1772.00

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RL30 – Spray gun - 310 bar – 31 MPa

Technical manual : **E 107**

Guns suitable for use up to 310 bar – 31 MPa rated pressure pumps. DN10
No fluid passage upon trigger release.

- **30.2500.00** RL30 G3/8 G1/4 FF
- **30.2500.20** RL30 A-M22 G1/4MF
- **30.2500.30** RL30 G3/8 G1/4 MF
- **30.2500.50** RL30 3/8NPT 1/4NPT FF
- **30.2511.00** RL30 + SW6 G3/8 G1/4 FF
- **30.2512.50** RL30 Weeping 3/8NPT 1/4NPT FF
- **30.2515.00** RL30 Ceramic ball G3/8 G1/4 FF

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

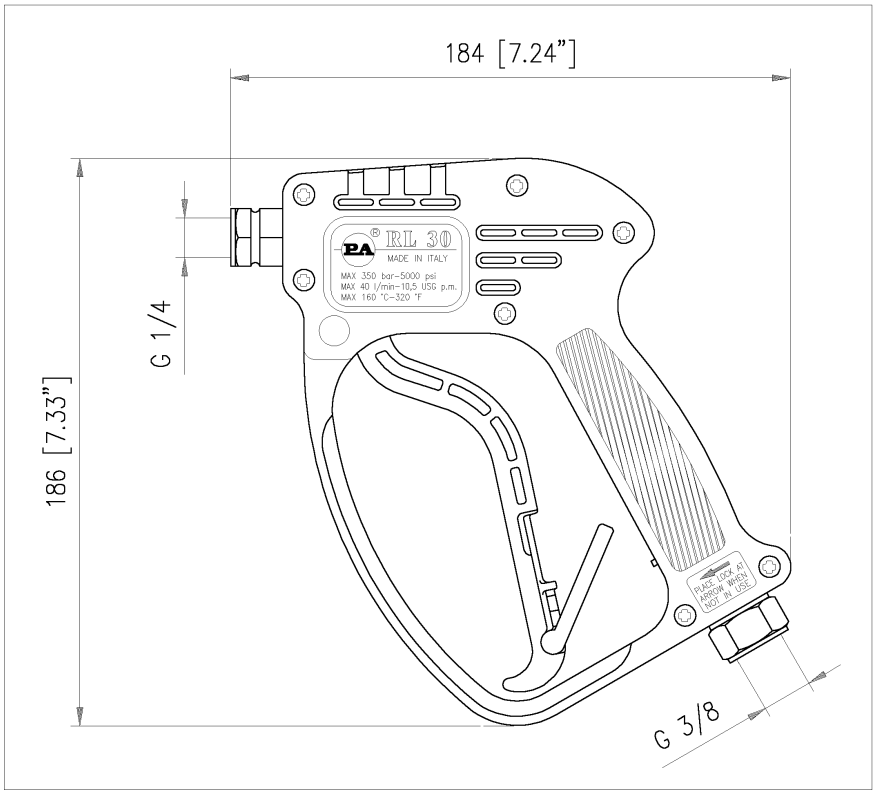
TECHNICAL SPECIFICATIONS

P/N	RATED PRESSURE bar - MPa	PERMISSIBLE PRESSURE bar - MPa	MAX FLOW RATE l/min	(1) MAX TEMPERATURE °C	INLET OUTLET	WEIGHT gr
30.2500.00	310 - 31	350 - 35	40	160	G3/8 G1/4 FF	740
30.2500.20	310 - 31	350 - 35	40	160	A-M22 G1/4MF	740
30.2500.30	310 - 31	350 - 35	40	160	G3/8 G1/4 MF	740
30.2500.50	310 - 31	350 - 35	40	160	3/8NPT 1/4NPT FF	740
30.2511.00	310 - 31	350 - 35	40	160	G3/8 G1/4 FF	750
30.2512.50	310 - 31	350 - 35	40	160	3/8NPT 1/4NPT FF	740
30.2515.00	310 - 31	350 - 35	40	160	G3/8 G1/4 FF	740

(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, glasses, etc.

Instruction manual, maintenance, installation, spare parts. For a correct utilization, follow the directions of this manual **Re-print them on the Use and Maintenance booklet of the machine.**	n. 12.9107.00

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 the seat Fit adequate filters and/or check
Leaking seals	Seals worn out	Replace seal
Difficult trigger opening	High pressure inside circuit	Check the bypass valve and adjust it 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 **RL 30.**
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.**

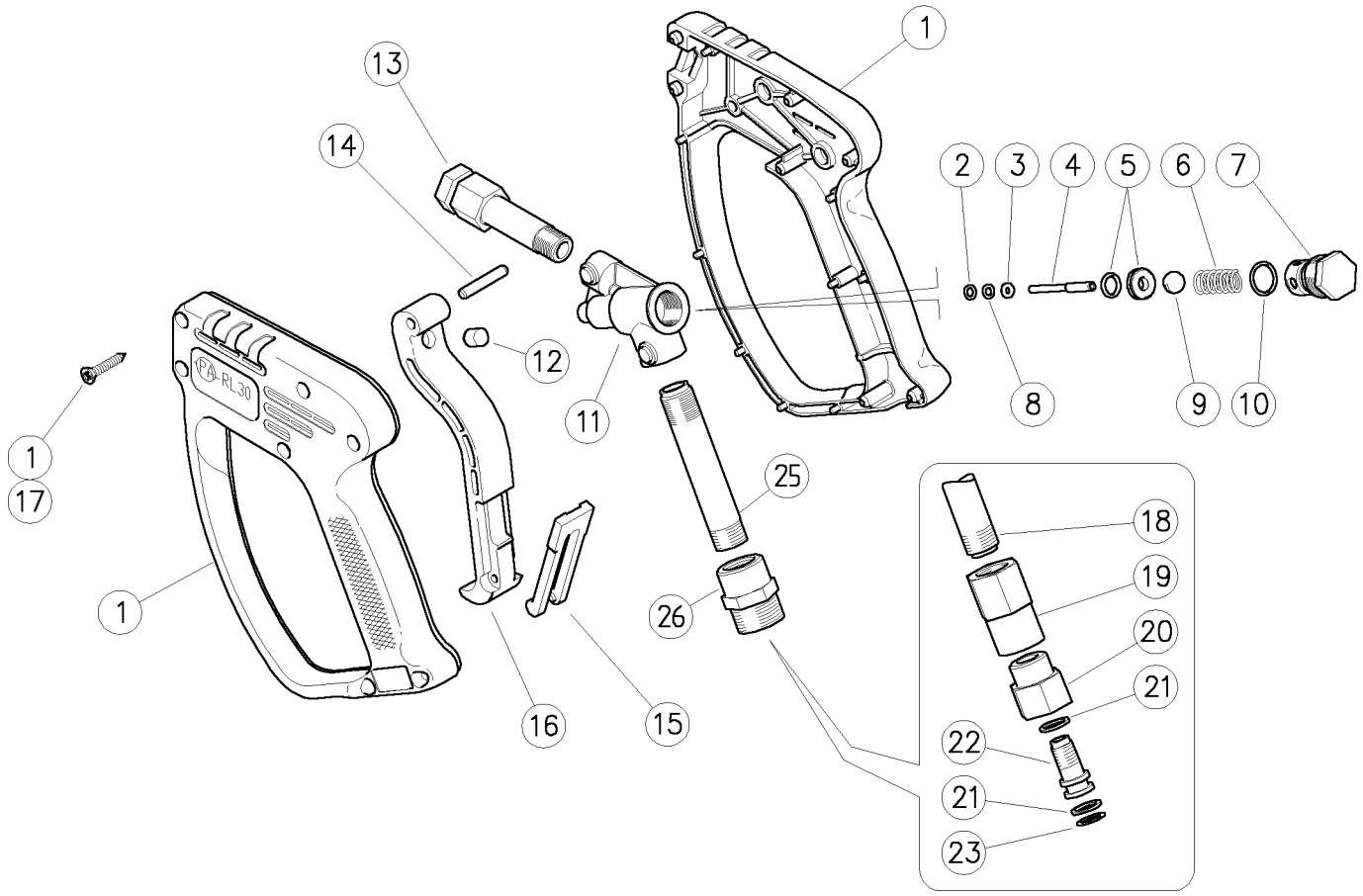
STANDARD: every 400 working hours (circa 10,000 cycles), check and lubricate the seals with water resistant grease.
SPECIAL: every 800 working hours(circa 20,000 cycles), check the wear of the seals and internal parts and if necessary, replace with original PA parts, taking care during installation to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

30.2500.00 RL30 spr.gun 3/8F-1/4F Bsp
30.2500.20 RL30 spr.gun A M22-1/4F Bsp
30.2500.30 RL30 spr.gun 3/8M-1/4F Bsp
30.2500.50 RL30 spr.gun 3/8F-1/4F Npt
30.2511.00 RL30 spr.gun+sw.6 3/8F-1/4F Bsp
30.2511.20 RL30 spr.gun+sw.6 A M22-1/4F Bsp
30.2515.00 RL30 spr.gun 3/8F-1/4F Bsp+ceram.ball



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	30.2501.24	Casing-kit -RL30 +screws, Sst.	1					1
2	10.4018.00	Back-up ring, 3,2x7,5x1,2 mm	1	•	•	•	•	10
3	14.3511.00	Washer, 3,2x7x0,5 mm sst.	1					10
4	30.2516.51	Piston, 3 mm Sst.	1	•	•	•	•	10
5	30.1708.20	Seat, 6mm Sst.+O-ring 1,78mm NBR85	1	•	•		•	10
5	30.0716.20	Weep.seat,5,8mm+O-ring (l.1,1)	1			•		10
6	30.2596.51	Spring, 1,5x6,1x23 mm Sst.	1					10
7	30.2595.31	Spring plug, M16x1 brass	1					10
8	10.3165.00	O-ring, 2,62x2,84 mm Vi 70	1	•	•	•	•	10
9	14.7448.00	Ball, 5/16" Sst.	1	•	•	•		10
9	14.7448.78	Ball, 5/16" ceramics (1)	1				•	10
10	10.3020.02	O-ring, 1,5x10 mm Ni 85	1	•	•	•	•	10
11	30.2597.35	Housing -RL30, brass	1					5
12	30.0675.84	Stop pin, 8x7,1mm PA	1					10
13	30.2006.35	Front tube, 1/4F Bsp 72 mm brass	1					5
13	30.2008.35	Front tube, 1/4F Npt 72 mm brass (2)	1					10
14	30.2517.31	Parallel pin, 5x27,5 mm brass	1					10

Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
15	30.1510.84	Safety latch, PA red	1					10
15	30.1515.84	Safety latch, PA blue	1					10
15	30.1516.84	Safety latch, black (1)	1					10
16	30.2506.84	Trigger -RL31, PA black	1					10
17	16.3077.00	S/tapping screw, DIN7981 3,5x18 mm	7					10
18	30.2547.36	Tube, M15 MM 103mm brass (3)	1					5
19	30.2546.31	Adapt., M15F-M10x1F brass (3)	1					5
20	30.2019.31	Coupl., 3/8F Bsp brass (3)	1					5
20	30.2015.31	Swivel connection A M22 M	1					3
21	10.4010.01	Back-up ring,10,2x13,9x1,2mm (4)	2		•			50
22	30.2017.51	Pin, SW M10x1 M Sst. (3)	1					5
23	10.3171.10	O-ring, 2,62x9,19 mm Vi 70 (3)	1		•			10
25	30.1011.36	Tube, M15 127 mm brass	1					5
26	30.2523.31	Coupl., 3/8 Bsp F brass	1					5
26	30.2525.31	Coupl., A M22x1,5 brass (5)	1					5
26	30.2524.31	Coupl., 3/8M Bsp brass (6)	1					5
26	30.1012.31	Coupl., 3/8 Npt F brass (2)	1					3

Kit	P/N	Description	
K1	30.2559.24	Spares kit -RL30, 6(7)x1pcs.	1
K2	30.2519.24	Spares kit -RL30, 8(9)x1pcs.	1
K3	30.2545.24	Spares kit -RL30, 6(7)x1pcs.	1
K4	30.2563.24	Spares kit -RL30+ceram.ball, 6(7)x1pcs.	1

(1) 30.2515.00 (2) 30.2500.50 (3) 30.2511.00 (4) 30.2511.20 (5) 30.2500.20 (6) 30.2500.30

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http://www.pa-etl.it - E-mail: info@pa-etl.it

RL56 – Spray gun 350 bar – 35 MPa

Technical manual : **E 132**

Guns suitable for use up to 350 bar – 35 MPa rated pressure pumps.
No fluid passage upon trigger release.
New mechanical device with double connecting rods to guarantee less strain when opening and holding

DN10

- **30.4500.10** RL56 G3/8 G1/4 FF

  - Covered by shockproof plastic semi-housings.
  - Sst seat and ball.
  - Internal structure in brass and Sst.
  - Ergonomic construction.
  - Minimum fatigue for trigger opening and use
  - New mechanical opening device with double connecting rods
  - New trigger design, rotating on a fixed pin to guarantee better mobility and steadiness

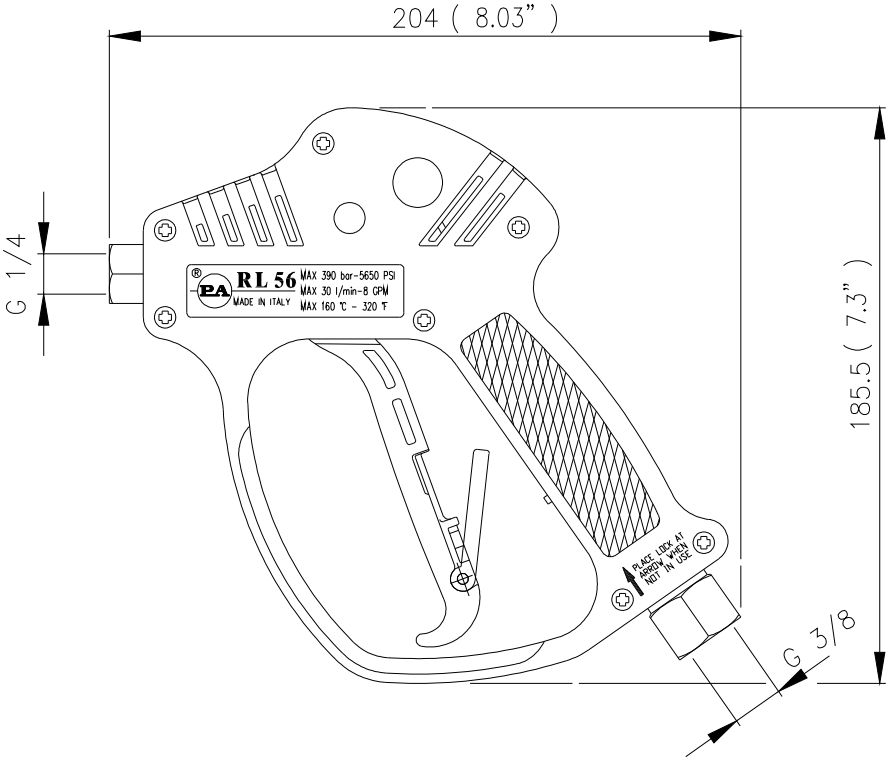
TECHNICAL SPECIFICATIONS

P/N	RATED PRESSURE bar - MPa	PERMISSIBLE PRESSURE bar - MPa	MAX FLOW RATE l/min	(1) MAX TEMPERATURE °C	INLET OUTLET	WEIGHT gr
30.4500.10	350 - 35	390 - 39	30	160	G3/8 G1/4 FF	660

(1) The gun has been designed for continuous use, at a water temperature of 90°C (195°F). It can resist a t 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 sa fety devices, such as gloves, glasses, etc.

Instruction manual, maintenance, installation, spare parts. For a correct utilization, follow the directions of this manual **Re-print them on the Use and Maintenance booklet of the machine.**	n. 12.9132.00

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 the seat Fit adequate filters and/or check
Leaking seals	Seals worn out	Replace seal
Difficult trigger opening	High pressure inside circuit	Check the bypass valve and adjust it 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 **RL 56.**
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.**

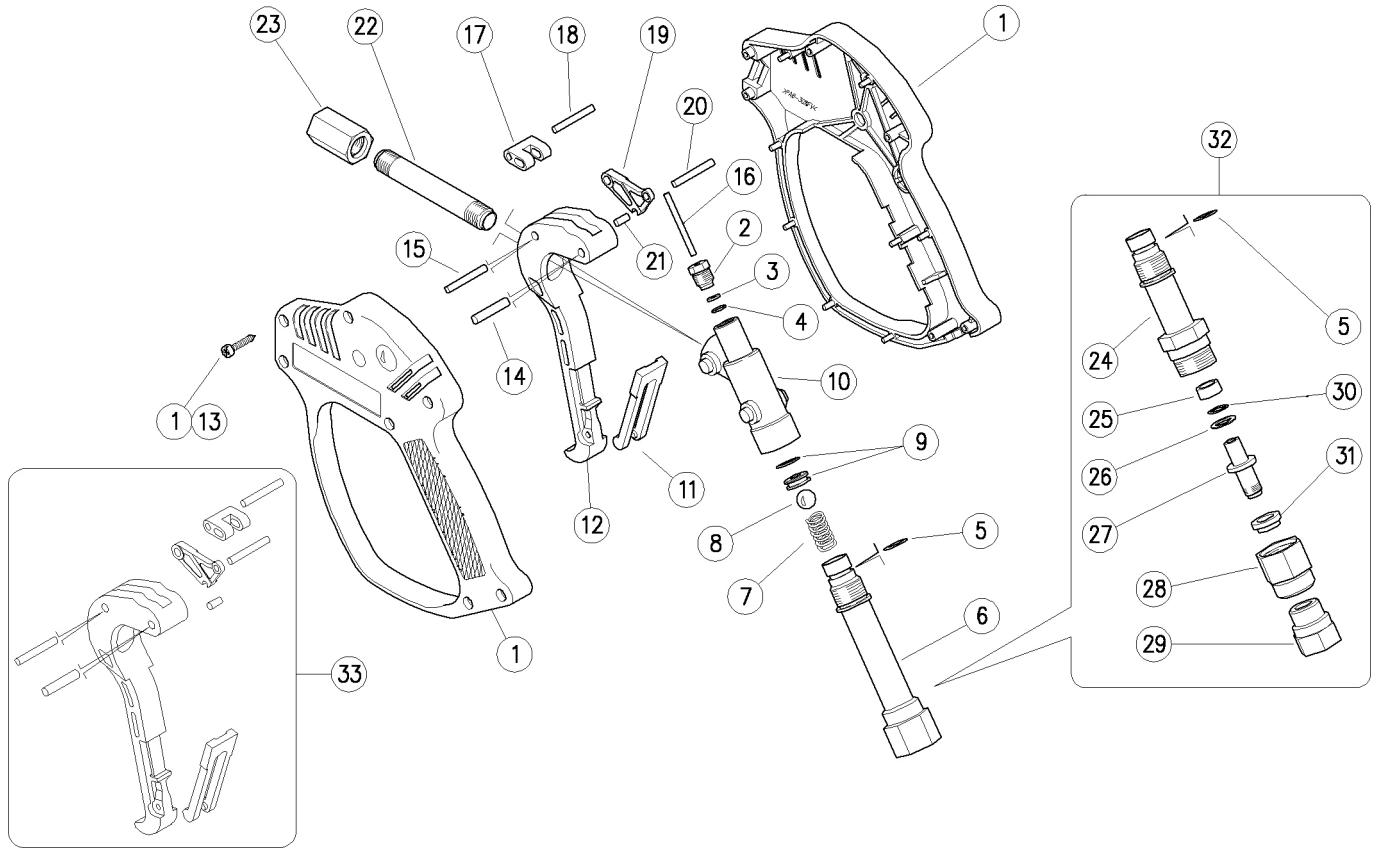
STANDARD: every 400 working hours (circa 10,000 cycles), check and lubricate the seals with water resistant grease.
SPECIAL: every 800 working hours(circa 20,000 cycles), check the wear of the seals and internal parts and if necessary, replace with original PA parts, taking care during installation to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

30.4500.10 RL56 spr.gun 3/8F-1/4F Bsp



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	30.4526.24	Casing-kit -RL56 +screws	1					1
2	30.4115.31	Front Plug, M10x1 brass	1					10
3	10.4018.00	Back-up ring, 3,2x7,5x1,2 mm	1	•	•			10
4	10.3165.00	O-ring, 2,62x2,84 mm Vi 70	1	•	•			10
5	10.3060.01	O-ring, 1,78x12,42 mm Ni 85	1	•	•			10
6	30.4106.35	Inlet housing, 3/8F Bsp brass (1)	1					3
6	30.4119.35	Inlet housing, 3/8F Npt brass (2)	1					3
7	30.4108.51	Spring, 1,6x8,8x24 mm Sst.	1					10
8	14.7443.10	Ball, 11/32" Sst.	1	•	•			10
9	30.2014.20	Seat, 6mm Sst.+O-ring 1,78mm	1	•	•			10
10	30.4105.35	Housing -RL51/56, brass	1					3
11	30.1510.84	Safety latch, PA red	1					10
12	30.4127.84	Trigger -RL51/56, PA black	1					10
13	16.3077.00	S/tapping screw, DIN7981 3,5x18 mm	7					10
14	30.4114.51	Parallel pin, 5x33 mm Sst.	1					10
15	30.4121.51	Parallel pin, 5x22 mm Sst.	1					10
16	30.4109.51	Piston, 3x37,6 mm Sst.	1	•	•			10
17	30.4104.84	Connecting rod , PA black	1					10

Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
18	30.4113.51	Parallel pin, 4x29 mm Sst.	1					10
19	30.4124.84	Connecting rod -RL51/56, PA black	1					10
20	30.4112.51	Parallel pin, 4x20 mm Sst.	1					10
21	30.4122.51	Parallel pin, 4x13 mm Sst.	1					10
22	30.4110.56	Front tube, 1/4Bsp MM 85mm Sst.	1					3
23	30.4508.31	Outlet coupl., 1/4Bsp FF brass (1)	1					5
23	30.4509.31	Outlet coupl., 1/4F Bsp-1/4F Npt brass (2)	1					5
24	30.4521.31	Swivel inlet housing, brass (3)	1					3
25	26.1046.84	Bushing, 10x14x7 mm Plast.	1		•			5
26	10.4010.01	Back-up ring, opn. 10,2x13,9x1,2 mm	1		•			50
27	26.1041.51	Pin, M12x1,25 Sst.	1					5
28	26.1042.51	Ring nut, M22x1 Sst.	1					5
29	30.4522.31	Coupl., M12x1,25F-3/8F Bsp brass	1					3
30	10.3109.95	O-ring, 2,4x9,3 mm Vi 70	1		•			25
31	26.1045.84	Bushing, 12x20x6 mm Plast.	1		•			5
32	30.4525.24	Tube+sw. -RL55-6, 3/8F Bsp	1					3
33	30.4512.24	Trigger+pin kit -RL55-56	1					1

Kit	P/N	Description	
K1	30.4504.24	Spares kit -RL55/6, 7x1pcs.	1
K2	30.4524.24	Repair kit -RL55-6+sw, 11x1pcs.	1

(1) 30.4500.10 (2) 30.4500.50 (3) 30.4520.00

P.A. - S.r.l. - EQUIPAGGIAMENTI TECNICI DEL LAVAGGIO
VIA MILANO, 13 - 42048 RUBIERA (REGGIO EMILIA) - ITALY - Tel. +39 0522 623611 (10 linee)
Fax +39 0522 629600 - R.E.A. RE 156319 - Registro Imprese RE 11535 - Mecc. RE 013446
C.F. e P. IVA 01035950359 - Cap. Soc. i.v. € 750.000,00 - Codice Identificativo C.E.E. IT 01035950359
ART. 2497 - BIS C.C. DIREZIONE E COORDINAMENTO BENETTI srl R.I. TRIB. DI RE 01480690351
http://www.pa-etl.it - E-mail: info@pa-etl.it

RL84 Spray Gun – 500 bar – 50 MPa

Technical manual: E 130

Gun suitable for use with 500 bar – 50 MPa rated pressure pumps.

DN15

- **30.5400.00** RL84 G1/2 FF
- **30.5000.40** Extension 400 G1/2 1/4Npt FF
- **30.5000.80** Extension 800 G1/2 1/4Npt FF
- **30.5000.92** Extension 1250 G1/2 1/4Npt FF

- Covered by shockproof plastic semi-housings
- Sturdy construction of Sst & brass with dynamic teflon seals
- Assembly on hoses equipped with G 1/2" fittings
- Entirely built of Sst & body in brass
- Ergonomic construction
- Minimum fatigue for trigger opening
- Minimum load loss (see chart)

TECHNICAL SPECIFICATIONS

P/N	RATED PRESSURE bar - MPa	PERMISSIBLE PRESSURE bar - MPa	MAX FLOW RATE l/min	(1) MAX TEMPERATURE ℃	INLET OUTLET	WEIGHT gr
30.5400.00	500 - 50	560 - 56	80	100	G1/2 F-F	1417
30.5000.40	500 - 50	560 - 56	80	100	G1/2 1/4Npt FF	865
30.5000.80	500 - 50	560 - 56	80	100	G1/2 1/4Npt FF	1480
30.5000.92	500 - 50	560 - 56	80	100	G1/2 1/4Npt FF	2150

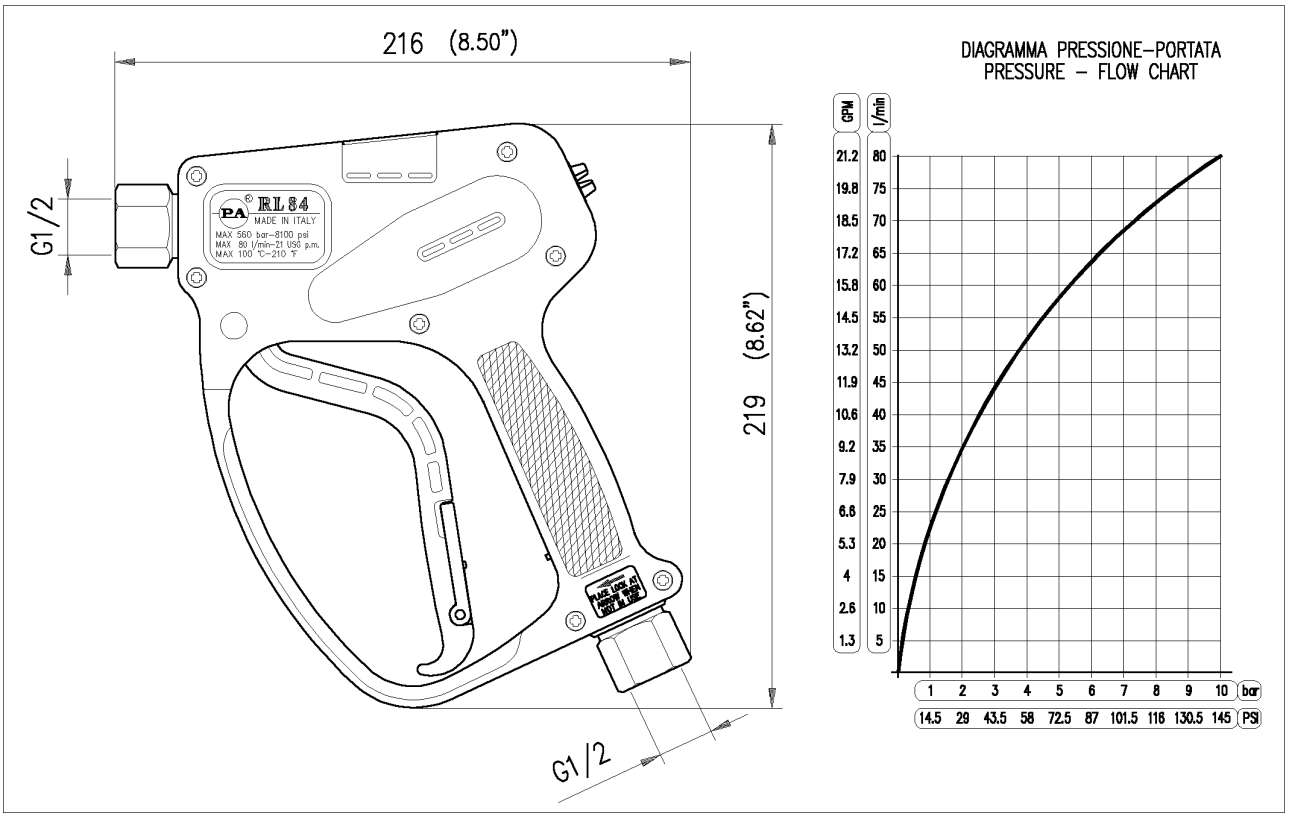
(1) The gun has been designed for continuous use, at a water temperature of 60℃ (140℉). It can resist a t the max temperature of 100℃ (210℉) for short periods only , as, when the gun shuts off, the heater continues to transmit the heat to the water, thus increasing both temperature and pressure up to high, dangerous values.
Using the gun at a water temperature higher than 60℃ involves for the operator the use of adequate sa fety devices, such as gloves, etc.

Attention ! ! !

In order to prevent any risk of INSTABILITY of the gun due to pressure spikes, CHECK in the enclosed CHART (fig. 3) the use of safety devices (SHOULDER REST) in function of the Pressure / Flow Rate parameters.

Instruction manual, maintenance, installation, spare parts. For a correct utilization, follow the directions of this manual **Re-print them on the Use and Maintenance booklet of the machine.**	n. 12.9130.00

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.

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 side of the gun	Presence of impurities Gun seat worn out	Clean Replace the seat
Leakages from the seals	Seals worn out	Replace the seals
The trigger opens up with difficulty	The pressure inside the circuit is too high	Check the bypass valve and adjust it if necessary

REGULATIONS

The project and construction of our guns comply with: the essential safety requirements presented in Enclosure 1of NORM 97/23/CE (PED) dated 29 May1997; norm CEI EN 60335-2-79 first edition, published in 1999-03; the regulating project prEN1829. REMARK: The conformity of the gun to the safety requirements is shown by the "CE 0409" marking applied on the gun itself.

They bear the markings provided for by the law.

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.

Make sure that you are given **the Original Conformity Declaration** for the accessory chosen. The present manual is valid for all the guns named **RL 84.**

HOW TO RECOGNIZE IT

Printed on the valve body: Technical specs PA Logo Name of the product CE marking

SPARES

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

MAINTENANCE

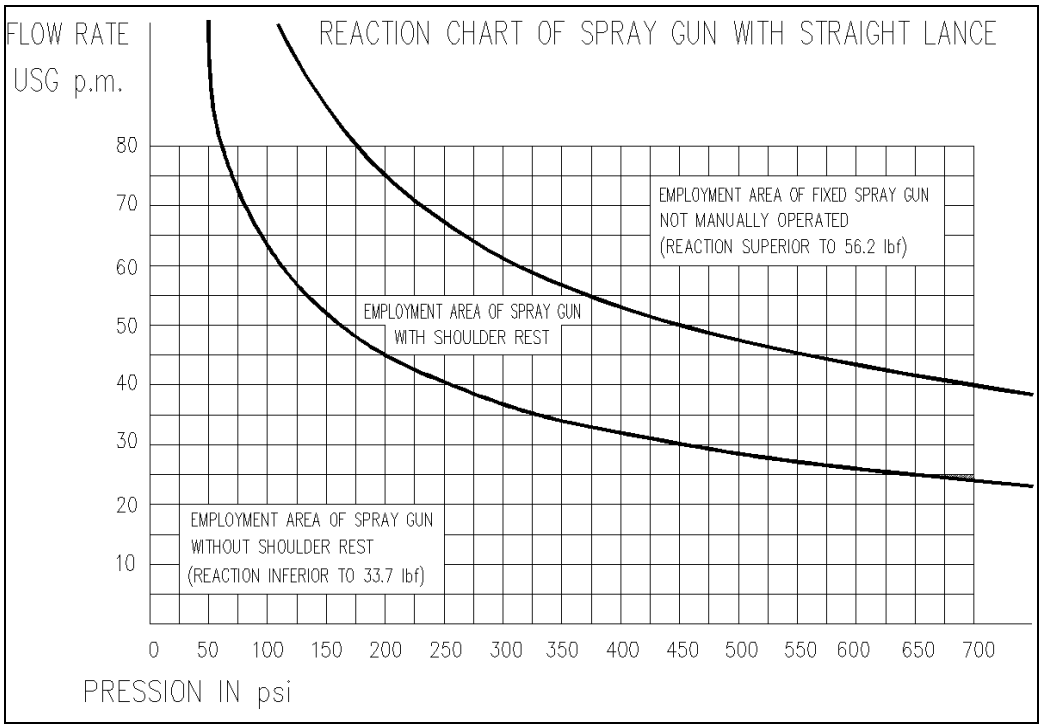
Maintenance has to be carried out by **Specialized Technicians.**

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 responsible for damage as a result from incorrect fitting and maintenance-

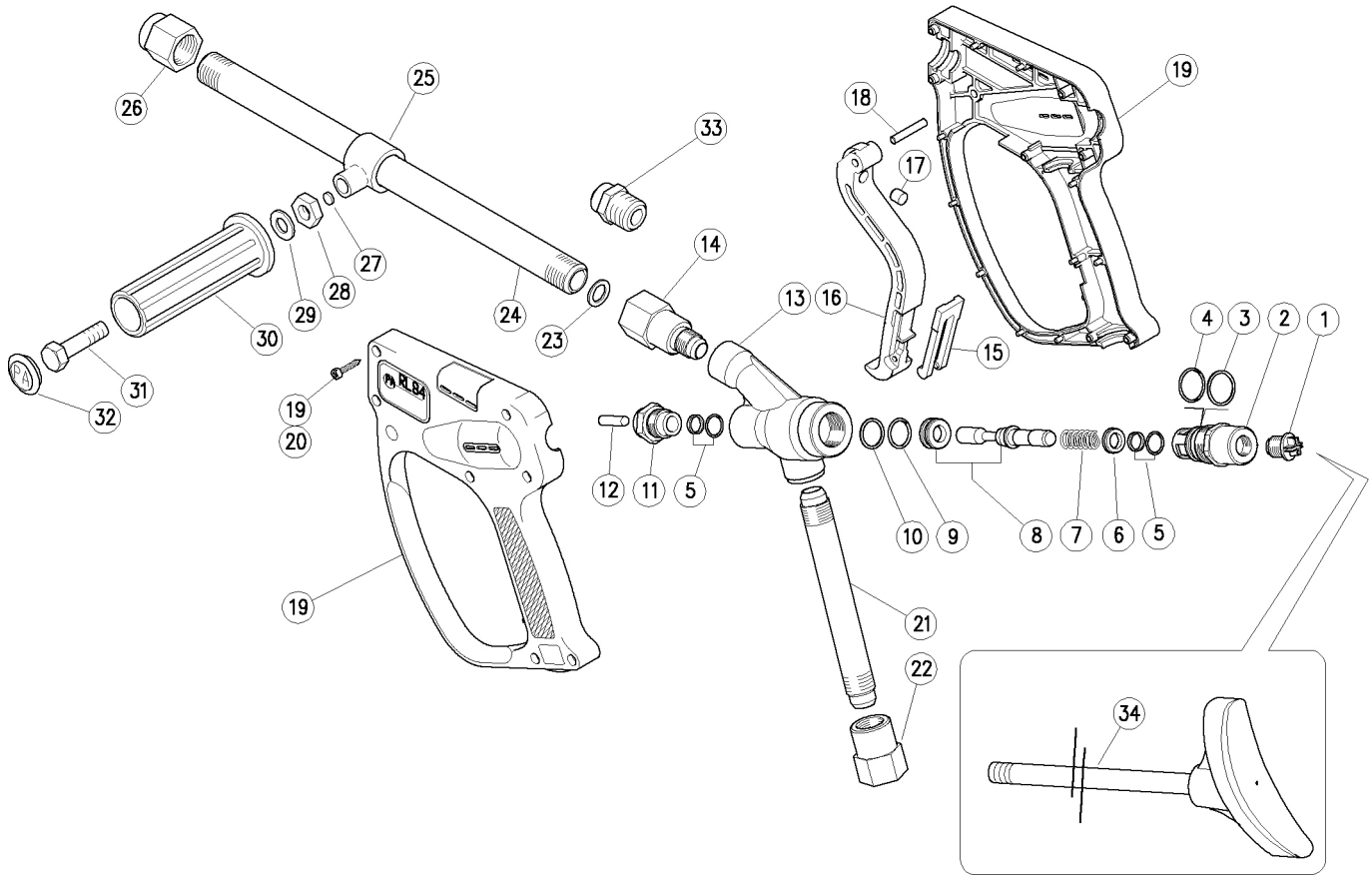


(fig. 3)

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

30.5000.40 Lan.sst. RL84-RL204 1/2M Bsp 400mm
30.5000.80 Lan.sst. RL84-RL204 1/2M Bsp 800mm

30.5000.92 Lan.sst. RL84-RL204 1/2M Bsp 1250mm
30.5400.00 RL 84 spr.gun 1/2FF Bsp



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	30.5815.84	Plug, 1/4M Bsp DIN259 Plast. black	1					10
2	30.5408.31	Spring holder	1					5
3	10.4041.00	Back-up ring, 19,3x22x1,2 mm PTFE	1	•				10
4	10.3070.02	O-ring, 1,78x18,77 mm Ni 85	1	•				10
5	10.2027.00	Stem seal, 10x15x2,2 mm +O-ring	2	•				4
6	30.4040.31	Spacer ring, 10,1x15,8x3,8 mm brass	1					3
7	30.4042.51	Spring, 2,4x15,3x30 mm Sst.	1	•				10
8	30.5411.24	Piston + seat -RL84	1	•				1
9	10.3066.01	O-ring, 1,78x15,6 mm Ni 85	1	•				10
10	10.4042.00	Back-up ring, 16,3x19x1,2 mm	1	•				10
11	30.4038.31	Front plug, M18x1,5 brass	1					10
12	30.4041.31	Parallel pin, 6x25,8 mm brass	1					3
13	30.5405.35	Housing -RL84, brass	1					1
14	30.5403.51	Coupling, 1/2" Bsp sst.	1					3
15	30.1510.84	Safety latch, PA red	1					10
16	30.5303.84	Trigger, black	1					5
17	30.0675.51	Stop pin, 8x7,1mm Sst.	1					10
18	30.2517.31	Parallel pin, 5x27,5 mm brass	1					10

Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
19	30.5412.24	Casing kit -RL 84 + screws	1					1
20	16.3075.51	S/tapping screw, DIN7981 3,5x18 mm Sst.	7					10
21	30.5407.56	Back tube,M16Mx1,5M 141,5 mm Sst.	1					5
22	30.5406.51	Coupling, 1/2" Bsp Sst.	1					3
23	14.3802.00	Washer, 12x18x1,5 mm Cu	2					10
24	30.5016.56	Tube, 1/2Bsp MM 390 mm Sst. (1) **	1					1
24	30.5026.56	Tube, 1/2Bsp MM 790 mm Sst. (2) **	1					1
24	30.5037.56	Tube, 1/2Bsp MM 1250mm Sst. (3) **	1					1
25	30.5017.35	Tube fastener, 1/2" Bsp	1		•			5
26	30.5015.51	Nozzle Holder, 1/2F Bsp-1/4F Npt Sst.	1					3
27	13.5305.00	Plate, 8x1,5 mm Cu	2		•			10
28	11.4627.00	Hex. nut, M10	1		•	•		10
29	14.3799.00	Washer, 10x21x2 mm	1		•	•		10
30	41.0409.84	Knob, 32x115 mm PP black	1		•	•		5
31	16.2035.00	Screw, DIN933 M10x35 mm z.pl.	1		•	•		10
32	41.0411.84	Plug, Knob PP black	1		•	•		5
33	30.5018.51	Nzl.holder,sst, RL80-RL204 1/2M Bsp **	1					1
34	30.5060.00	Shoulder rest -RL600 1/4M Bsp 300mm **	1					1

** On request

Kit	P/N	Description	
K1	30.5414.24	Spares kit -RL84, 8x1pcs.	1
K2	30.5038.24	Spares kit -Lance knob	1
K3	30.4019.24	Knob-kit, M10x35	5

(1) 30.5000.40 (2) 30.5000.80 (3) 30.5000.92

● SPRAY GUN ST-3600

PROFESSIONAL ULTRA HIGH PRESSURE SPRAY GUN

MAX. 600 bar / 80 l/min / 150 °C, Stainless steel spray guns

INLET: 1/2"F, OUTLET: 1/2"F

LANCE FOR ST-3600 SPRAY GUN

- STAINLESS STEEL LANCE & STAINLESS STEEL LANCE ASIDE
- Length: 700mm/1000mm

● SPRAY GUN ST-2750

PROFESSIONAL HIGH PRESSURE SPRAY GUN

MAX. 500 bar / 30 l/min / 150 °C

INLET: 3/8"F, OUTLET: 1/4"F, Stainless steel spray guns

LANCE FOR ST-2705 SPRAY GUN

- 500 bar STAINLESS STEEL LANCE (COLOR: RED), LENGTH: 1000mm

● SPRAY GUN ST-2700

PROFESSIONAL HIGH PRESSURE SPRAY GUN

MAX. 310 bar / 45 l/min / 150 °C, Stainless steel spray guns

INLET: 1/4"F, OUTLET: 1/4"F

LANCE FOR ST-3600 SPRAY GUN

- STAINLESS STEEL LANCE (COLOR: BLACK), LENGTH: 700mm/900mm etc.,)

● SPRAY GUN ST-2300, M22 SWIVEL

PROFESSIONAL HIGH PRESSURE SPRAY GUN

MAX. 310 bar / 45 l/min / 150 °C

INLET: M22 M swivel, OUTLET: 1/4"F

● SPRAY GUN ST-2315

PROFESSIONAL HIGH PRESSURE SPRAY GUN

-Ceramic ball, chemically resistant valve and acid-resistant stainless steel seal seat.

MAX. 350 bar / 45 l/min / 150 °C

INLET: 3/8"F, OUTLET: 1/4"F

● SPRAY GUN ST-2620

PROFESSIONAL HIGH FLOW-RATE SPRAY GUN

-Particularly designed for huge water amounts.

MAX. 125 bar / 80 l/min / 150 °C

INLET: 3/8"F, OUTLET: 1/4"F

● SPRAY GUN ST-1500/ ST-1500 3/8"SWIVEL

PROFESSIONAL HIGH PRESSURE SPRAY GUN

MAX. 275 bar / 45 l/min / 150 °C

INLET: 3/8"F & 3/8"F stainless steel swivel, OUTLET: 1/4"F

● SPRAY GUN ST-2000

PROFESSIONAL HIGH PRESSURE SPRAY GUN

MAX. 275 bar / 45 l/min / 150 °C

INLET: 3/8"F, OUTLET: 1/4"F

● SPRAY GUN ST-1100, 3/8"SWIVEL

PROFESSIONAL HIGH PRESSURE SPRAY GUN

MAX. 210 bar / 25 l/min / 150 °C

INLET: 3/8"F stainless swivel, OUTLET: 1/4"F

● SPRAY GUN ST-810 with extension

PROFESSIONAL HIGH PRESSURE SPRAY GUN

-Gun ST-810 with extension 340mm and quick hand screw coupling M22

MAX. 210 bar / 30 l/min / 150 °C

INLET: M22 M, OUTLET: M22 F