

Models

Shut-Off Gun

21650, 21650-16, 21650-32 & 21650-50

Gun with Lance Combos:

21650-16 = gun with 15" lance and side grip

21650-32 = gun with 31" lance and side grip

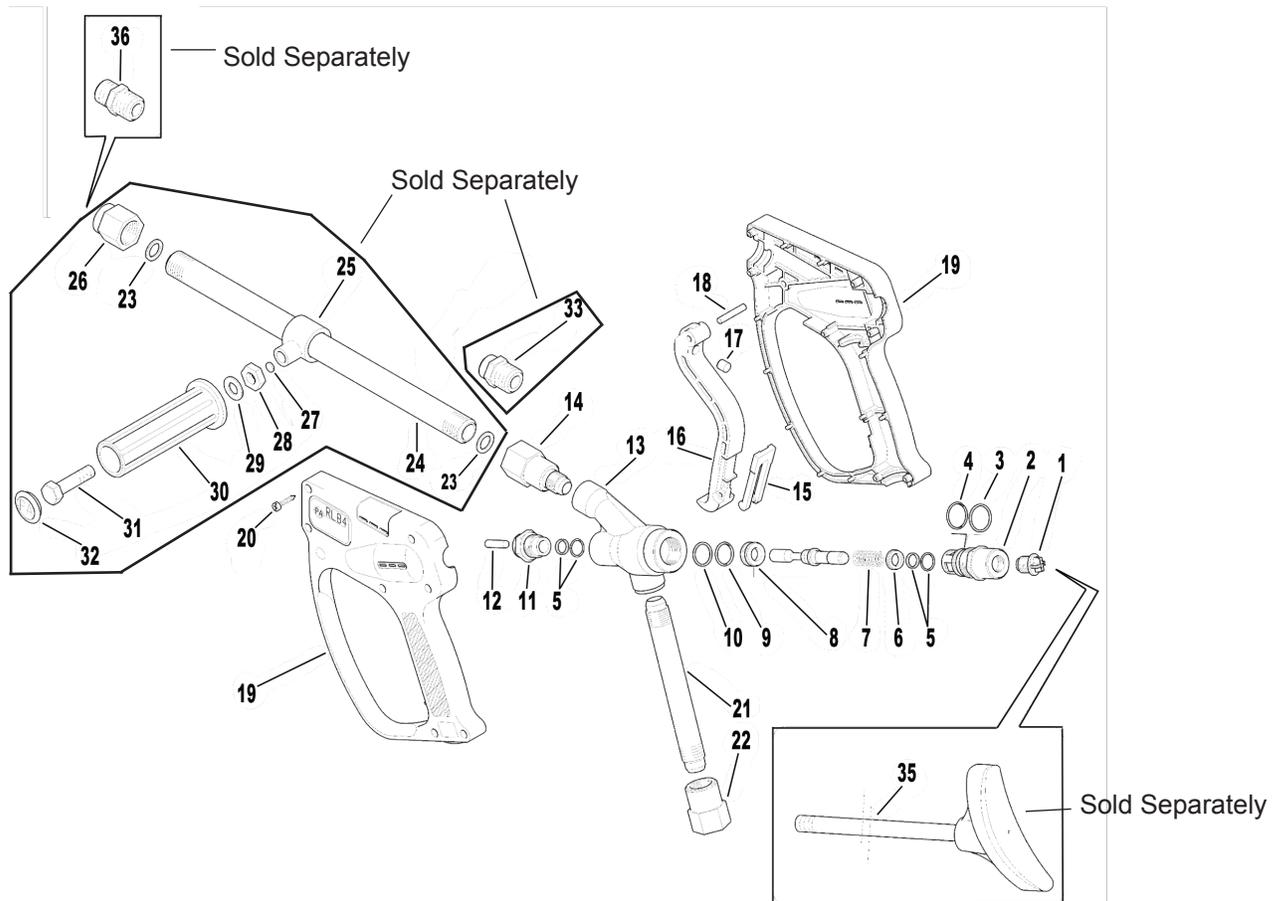
21650-50 = gun with 49" lance and side grip

Specifications

- Covered by Shockproof Plastic Housings
- Sturdy Construction of SS and Brass with Dynamic Teflon Seals
- Internal Metal Parts Constructed with Stainless Steel
- Valve Body Made from Forged Brass
- Ergonomic Design
- Minimum Fatigue for Trigger Opening
- Minimum Load Loss (see chart on back page)



Exploded View, Parts List, and Kits



<u>ITEM</u>	<u>PART</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>ITEM</u>	<u>PART</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	04038	Plug	1	25	04084	Tube Fastener	1
2	04344	Spring Holder	1	26	04172	Nozzle Holder, 1/2" FBSP x 1/4" FNPT (Sold Separately)	1
3	04345	Back-Up Ring	1	27	21771	Copper Spacer	2
4	08564	O-Ring	1	28	04085	Hex Nut	1
5	04310	Stem Seal	2	29	04086	Washer	1
6	04308	Spring Ring	1	30	13062	Plastic Handle	1
7	04309	Spring	1	31	04087	Screw for Handle	1
8	04346	Piston and Seat	1	32	04088	Handle Cover	1
9	08573	O-Ring	1	33	21677	Nozzle Holder, 1/2"MBSP (Sold Separately)	1
10	04347	Back-Up Ring	1	35	04089	Shoulder Rest (Sold Separately)	1
11	04304	Guide Sleeve	1	36	04358	Pipe Adapter 1/4" MBSP x 1/4" MNPT (Sold Separately)	1
12	04348	Control Bolt	1				
13	04349	Valve Body	1				
14	04350	Discharge Fitting	1				
15	04048	Safety Latch	1				
16	04049	Trigger, Black	1				
17	04351	Cam	1				
18	05990	Parallel Pin	1				
19	04352	Housing and Screws	1				
20	04052	Self-Tapping Screws	7				
21	04353	Inlet Tube	1				
22	04354	Inlet Fitting	1				
23	04080	Washer (Sold Separately)	2				
24	04355	Extension Tube, 15" (21650-16 only)	1				
24	04356	Extension Tube, 31" (21650-32 only)	1				
24	04357	Extension Tube, 49" (21650-50 only)	1				

Gun Repair Kit #09769	
includes	3, 4, 5, 7, 8, 9, and 10
Knob Repair Kit #04377	
includes	28, 29, 30, 31, and 32
Complete Lance Knob Repair Kit #09745	
includes	25, 27, 28, 29, 30, 31, and 32

Lance Assemblies (Items 23-32):

04359 = 15" lance and side grip

04343 = 31" lance and side grip

04360 = 49" lance and side grip

Operating Specifications:

	U.S.	Metric
Rated Pressure:	7250 PSI	(500 Bar)
Permissible Pressure:	8120 PSI	(560 Bar)
Maximum Temperature:	212 °F*	(100 °C)*
Maximum Flow:	21.1 GPM	(80 l/min)
Inlet:		1/2" FNPT
Discharge (21650):		1/2" FNPT
Discharge (21650-16, 21650-32, 21650-50):		1/4" FNPT

* The gun has been designed for continuous use at a water temperature of 140 °F (60 °C). It can resist the max temperature of 212 °F (100 °C) 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 and dangerous levels. Using the gun at a water temperature higher than 140 °F (60 °C) requires that the operator use adequate safety devices such as gloves, etc.

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 Giant Industries. 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 rating imprinted on the gun.

Installation

This gun was designed to operate with **hot water** (in compliance with technical specifications). Make sure there is a safety device attached to prevent accidental increase in temperature. **Always fit a safety valve to protect the discharge plumbing when it is under pressure.** Choose a suitable nozzle and adjust the valve mounted in the front of the gun, in order to obtain a constant supply and avoid a 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.

Operation

The gun opens and closes a high pressure conduct by means of a piston action on a seat; the return is controlled by a spring which releases the trigger.

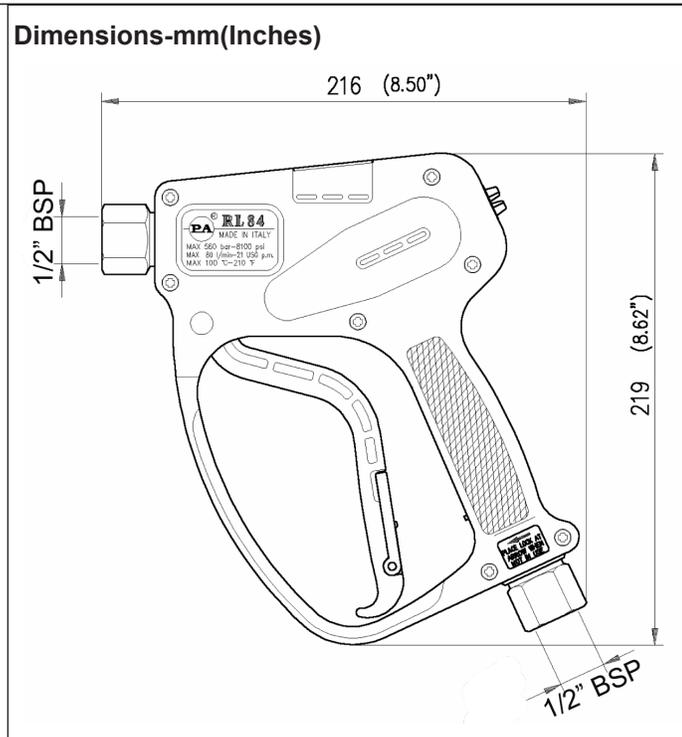
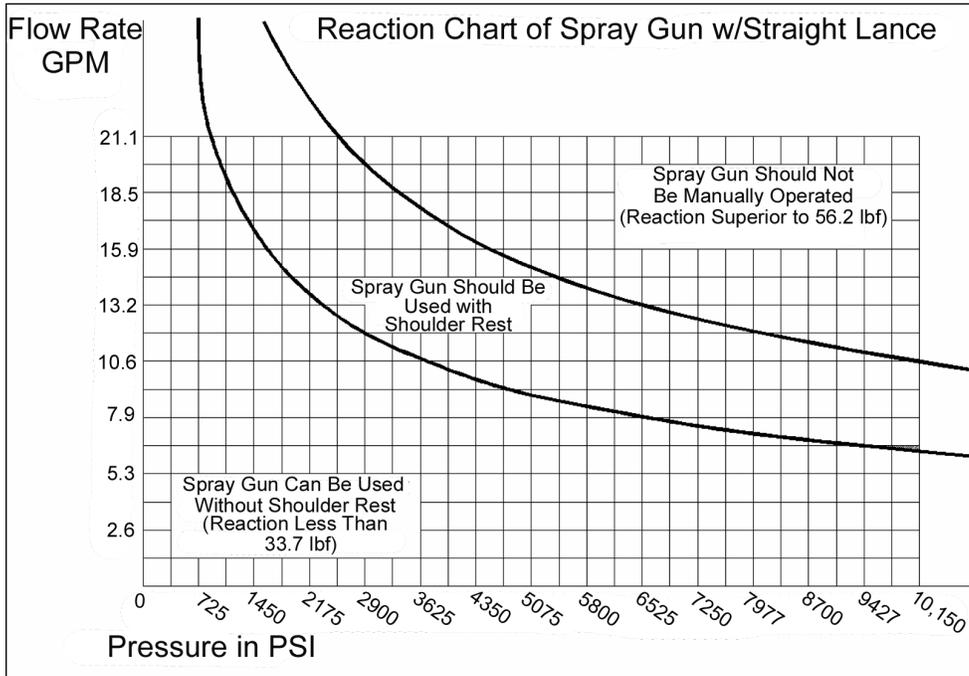
Water Hose Feed

If there is fluctuating and high inlet pressure to the pump, it might be necessary to install a pressure reducer, which would 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

Attention! In order to prevent any risk of **INSTABILITY** of the gun due to pressure spikes, **CHECK** the enclosed **CHART** (below). the use of safety devices (**Shoulder Rest**) in function of the pressure/flow Rate parameters.



GIANT

Performance Under Pressure

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