

Delta™ Hand Guns

**Efficient,
Practical,
High Pressure
Grease Guns
for Use on
Most Types of
Valves**

The Delta 1002-09 and 1602-09 high pressure hand guns are heavy-duty, industrial grade and precision-made. Use them where proper valve lubrication is a part of a planned maintenance program and extreme high pressure requirements are not required.

They are inexpensive and many users dedicate a gun to each type of valve lubricant used at a plant or pump station.

They use "J" or "K" size sticks of heavy-duty valve lubricants or injectable packings and are used with industry-standard fittings where pressures of up to 10,000 p.s.i. are sufficient for efficient maintenance programs.

The Delta 1002-09 and 1602-09 hand guns are constructed of high-quality materials and engineered for years of heavy-duty use.

They are virtually maintenance-free, and in-stock replacement parts are immediately available to insure years of continuous service.

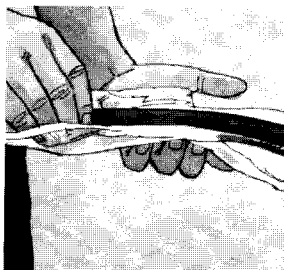
The 1002-09 and 1602-09 come equipped with a 10" or 16" swivel hose assembly and giant buttonhead coupler compatible with industry-standard valve lubrication fittings.

The Delta 1500-09 high pressure gauge and adapter accessory is available to assist maintenance people in better valve maintenance.

Four easy steps to loading the Delta Hand Gun

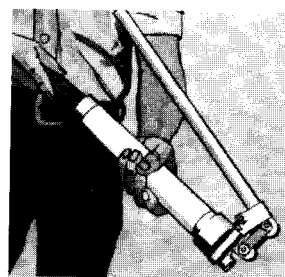
A.

Sticks of "J" and "K" size lubricants are wrapped in easy to remove plastic. Lubricant sticks are soft, may be broken apart as needed.



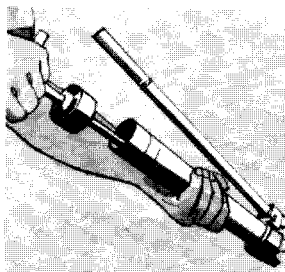
B.

Insert the stick into the empty barrel. One stick fills a barrel.



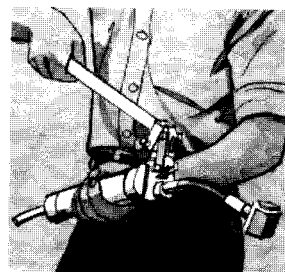
C.

Replace screw and handle, then tighten collar and turn handle until lubricant is pressed into the head end of gun. If desired, purge old lubricant from pump, hose and coupler by stroking the pump handle until new grease is visually observed being forced out of the exit of the coupler.



D.

To continue pumping, it is necessary to screw in the handle after several strokes of the pump handle.



Tips on proper valve lubrication

There are five kinds of fittings that the buttonhead coupler will attach to (see fittings detail sheet). When fitted together, lubrication can be made while the valve is under pressure.

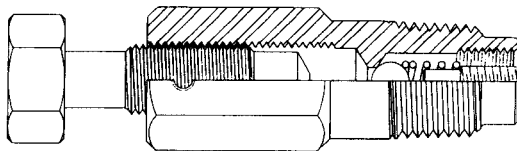
Caution: Do not disengage until gun is free of pressure.

Amount of lubricant. On guns with a pressure gauge, pump lubricant into the valve as long as the pressure rises and the valve takes lubricant. When the valve is full, the pressure will cause a drop reading on the gauge.

If no gauge is used, the lubricant begins pumping freer. Stop the pumping and turn the valve to check operation, if possible.

Lubrication cycles. The amount of lubricant varies greatly depending on how often the valve is opened and closed. Less lubricant in the seating area is lost when valves remain open. Constant opening and closing may require more frequent lubrication.

If a lubrication cycle is regularly scheduled, valves will work better and seating surfaces will be preserved longer, preventing leakage.



Delta™ Max-Flo™ Packing injector

Description

The **Max-Flo** Packing Injector incorporates the same design features as the **Max-Flo** Capped Body Fitting for ease of injection of high solids content packing materials.

Materials

- Body and screw / 1215 low-carbon steel
- Ball / chrome alloy
- Spring / 302 SS

Ordering Information

- 4117-09 / 1/2" NPT thread

Stainless (NACE MR-01-75)

Materials

- Body and screw / 316 SS
- Ball / K-Monel*
- Spring / Inconel* X 750

Ordering Information

- 4121-09 / 1"-14 cap 1/2" NPT thread

4140 (NACE MR-01-75)

Materials

- Body and screw / 4140
- Ball / K-Monel
- Spring / Inconel* X 750

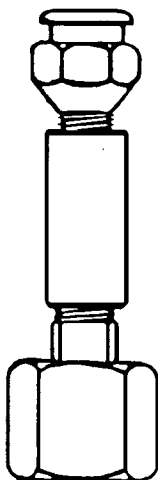
Ordering Information

- 4125-09 / 1"-14 cap / 1/2" NPT thread

NOTE:

- Stinger and ball support of same materials as body and cap.
- Other sizes available on inquiry.

*Reg. Inco Alloy, International TM



Delta™ Lubrication Adapter with Buttonhead Fitting

Ordering Information

- VFBJ-09 / for $\frac{3}{4}$ "-16
- VFBK-09 / for $\frac{7}{8}$ "-14
- VFBH-09 / for 1"-14
- VFBM-09 / for 1"-14 (WKM® style)

Reg. Cooper Oil Tool T.M.

Delta™ Max-Flo™ Capped Body Vent Fitting

Description

The **Max-Flo** series of capped body fittings utilizes a specially designed spring retainer with ball guide and spring retainer within the fitting.

This arrangement allows the lubricants and/or sealants to flow around the spring instead of through it.

The **Max-Flo** design offers and unrestricted passageway and positive back pressure sealing without cold working of materials.

Materials

- Body and cap / 1215 low-carbon steel
- Ball / chrome alloy
- Spring / 302 SS

Ordering Information

- 4007-09 / 1-14 cap, $\frac{1}{2}$ " NPT thread

Stainless (NACE MR-01-75)

Materials

- Body / 316 SS
- Heat treat / annealed (NACE)
- Ball / K-Monel*
- Spring / Inconel* X 750

Ordering Information

- 4011-09 / 1-14 cap, $\frac{1}{4}$ " NPT thread

4140 (NACE MR-01-75)

Materials

- Body and cap / 4140
- Ball / K-Monel*
- Spring / Inconel* X 750

Ordering Information

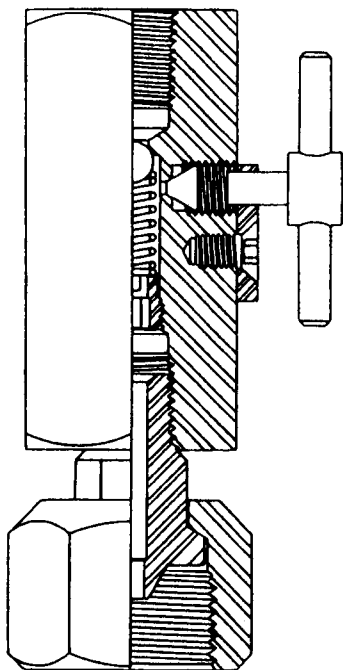
- 4014-09 / $\frac{1}{2}$ " NPT thread

NOTE:

- Stinger and ball support of same materials as body and cap.
- Other sizes available on inquiry.

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Delta™ SAF-T-VENT™ Coupler

Description

Lubrication adapter with pressure release and internal check valve, $\frac{1}{4}$ " NPT female hose connection.

Materials

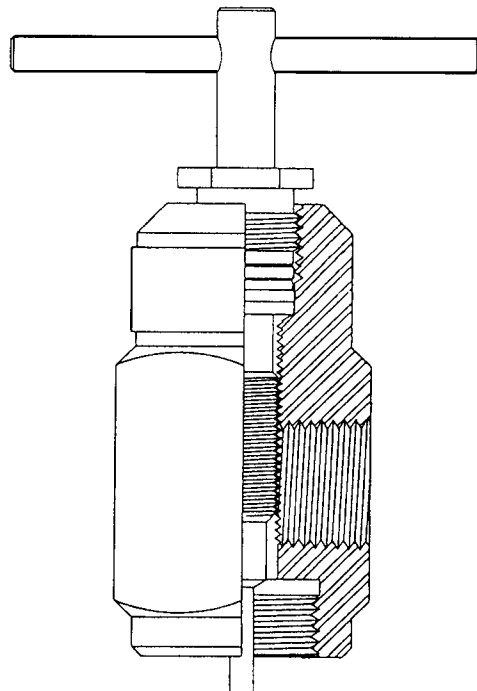
- Body / 1215 low carbon steel
- Ball / chrome alloy
- Spring / 302 stainless steel

Ordering Information

- 2027-09 / for $\frac{3}{4}$ "-16 body fitting
- 2028-09 / for $\frac{7}{8}$ "-14 body fitting
- 2029-09 / for 1"-14 body fitting (WKM® style)
- 2030-09 / for 1"-14 body fitting
- 2031-09 / coupler valve only

Reg. Cooper Cameron Corp. TM

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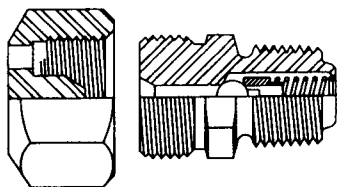
Delta™ Pressure Relief Tool

Materials*

- Body Screw / 1215 low-carbon steel
- Stem / 1215 low-carbon steel
- $\frac{1}{2}$ " NPT thread side outlet
- Zinc plated for durability

Ordering Information

- RT12-09 / for 1"-14 body fitting



Delta™ "W" Series Capped Body Vent Fitting

Description

The "W" series capped body fitting has a single spring loaded check with ball support. Body is of round stock with machined wrench flats.

Rated for service to 10,000 p.s.i.

Materials

- Body and cap / 1215 low-carbon steel
- Ball / chrome alloy

Ordering Information

- AM12-09 / 1-14 cap, $\frac{1}{2}$ " NPT thread

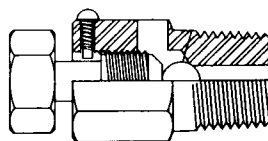
Materials

- Body and cap / 316SS
- Spring / Inconel* X 600
- Ball / K-500 Monel*

Ordering Information

- AS12-09, 1-14 cap, $\frac{1}{2}$ " NPT thread

* Reg. Inco Alloys, International T.M.



Delta™ "R" Series Bleed Fitting

Description

The "R" series is a loose ball-type check relief fitting. Features a positive pin-type stop to prevent the complete removal of the bleed screw.

Rated for service to 10,000 p.s.i.

Materials*

- Body and screw / 1215 low-carbon steel
- Plating / zinc with dichromate
- Ball / 440 SS

Ordering Information

- R012-09 / $\frac{1}{2}$ " NPT thread
- R014-09 / $\frac{1}{4}$ " NPT thread
- R038-09 / $\frac{3}{8}$ " NPT thread

*Also available in other NACE specification materials

4140 [NACE MR-01-75]

Materials*

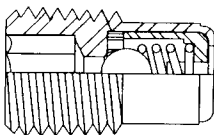
- Body / 4140
- Screw / 4140
- Ball / K-monel
- Heat treat / RC 22 Max.

Ordering Information

- R314-09 / $\frac{1}{4}$ " NPT thread
- R338-09 / $\frac{3}{8}$ " NPT thread
- R312-09 / $\frac{1}{2}$ " NPT thread

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Delta™ "IS" Series Internal Check

Description

The "IS" series is a single ball internal check valve fitting. It features a soft seat as well as a metal-to-metal seal.

Rated for service to 10,000 p.s.i.

Stainless (NACE MR-01-75)

Materials

- Body / 316 SS
- Heat treat / annealed (NACE)
- Ball / K-Monel*

Ordering Information

- I214-09 / $\frac{1}{4}$ " NPT thread
- I238-09 / $\frac{3}{8}$ " NPT thread
- I212-09 / $\frac{1}{2}$ " NPT thread

4140 (NACE MR-01-75)

Materials

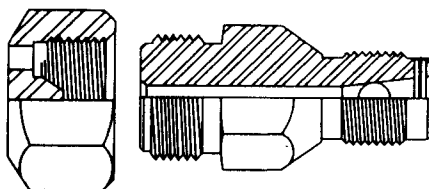
- Body / 4140
- Heat treat / RC 22 MAX
- Ball / K-Monel*
- Spring / Inconel* 600

Ordering Information

- I314-09 / $\frac{1}{4}$ " NPT thread
- I338-09 / $\frac{3}{8}$ " NPT thread
- I312-09 / $\frac{1}{2}$ " NPT thread

*Reg. Inco Alloys, International T.M.

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Delta™ "M" Series Capped Body Vent fitting

Description

The "M" series capped body fitting has a single loose ball check which seats on a taper.

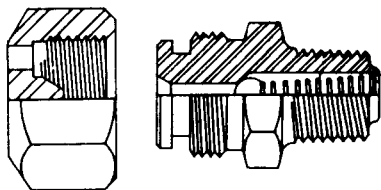
Rated for service to 10,000 p.s.i.

Materials

- Body and cap / 1215 low-carbon steel
- Ball / chrome alloy

Ordering Information

- A078-09 / $\frac{7}{8}$ "-14 cap, $\frac{3}{4}$ "-16 body thread
- A081-09 / 1"-14 cap, $\frac{3}{4}$ "-16 body thread



Delta™ "B" Series Capped Vent Fittings with Giant Buttonhead Fitting

Description

Identical to "A" series fittings but with a giant buttonhead flange arrangement

This allows lubrication with high-pressure lubrication equipment and a giant buttonhead coupler.

Rated for service to 10,000 p.s.i.

Materials

- Body and cap / 1215 low-carbon steel
- Ball / chrome alloy
- Spring / 302 SS

Ordering Information

- B014-09 / $\frac{1}{4}$ " NPT thread
- B038-09 / $\frac{3}{8}$ " NPT thread
- B012-09 / $\frac{1}{2}$ " NPT thread

Stainless (NACE MR-01-75)

Materials

- Body / 316 SS
- Heat treat / annealed (NACE)
- Ball / K-Monel*
- Spring / Inconel* 600

Ordering Information

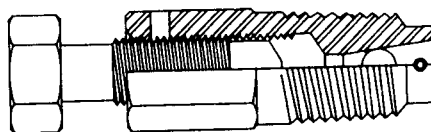
- B214-09 / $\frac{1}{4}$ " NPT thread
- B238-09 / $\frac{3}{8}$ " NPT thread
- B212-09 / $\frac{1}{2}$ " NPT thread

Materials

- Body / 4140
- Heat treat / RC 22 MAX
- Ball / K-Monel*
- Spring / Inconel* 600
- Plating / zinc with dichromate

- B314-09 / $\frac{1}{4}$ " NPT thread
- B338-09 / $\frac{3}{8}$ " NPT thread
- B312-09 / $\frac{1}{2}$ " NPT thread

*Reg. Inco Alloys, International T.M.



Delta™ "F" Series Packing Injector

Description

The "F" series is designed for easy injection of heavy, fibrous packing stick.

"F" series fittings have a loose ball check valve to allow passage of the fibrous packing easily around the ball.

A vent hole allows pressure relief prior to complete removal of the injection screw.

Materials

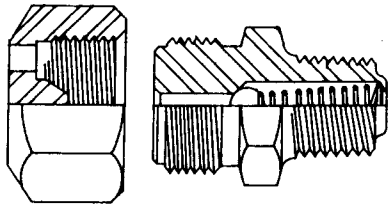
- Body and screw / 1215 low-carbon steel
- Ball / chrome alloy

Ordering Information

- F014-09 / $\frac{1}{4}$ " NPT thread
- F038-09 / $\frac{3}{8}$ " NPT thread
- F012-09 / $\frac{1}{2}$ " NPT thread
- F058-09 / $\frac{5}{8}$ "-11 TPI
- F034-09 / $\frac{3}{4}$ "-10 TPI

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Delta™ "A" Series Capped Vent Fitting

Description

A precision-made standard body fitting for gate, ball and plug valves.

Features a long-thread body and deep seating. This fitting is also a spring loaded, single check valve.

Materials

- Body / low-carbon steel
- Plating / zinc with dichromate
- Ball / chrome alloy
- Spring / 302 SS

Ordering Information

- A014-09 / $\frac{1}{4}$ " NPT thread
- A038-09 / $\frac{3}{8}$ " NPT thread
- A012-09 / $\frac{1}{2}$ " NPT thread

Stainless (NACE MR-01-75)

Materials

- Body / 316 SS
- Heat treat / annealed (NACE)
- Ball / K-Monel*
- Spring / Inconel* 600

Ordering Information

- A214-09 / $\frac{1}{4}$ " NPT thread
- A238-09 / $\frac{3}{8}$ " NPT thread
- A212-09 / $\frac{1}{2}$ " NPT thread

4140 (NACE MR-01-75)

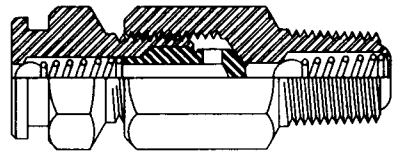
Materials

- Body / 4140
- Heat treat / RC 22 MAX
- Ball / K-Monel*
- Spring / Inconel* 600
- Plating / zinc with dichromate

Ordering Information

- A314-09 / $\frac{1}{4}$ " NPT thread
- A338-09 / $\frac{3}{8}$ " NPT thread
- A312-09 / $\frac{1}{2}$ " NPT thread

*Reg. Inco Alloys, International T.M.



Delta™ "HF" Series Two-piece Sure Seal Fitting

Description

Two-piece double check fittings are designed for a positive seal under extreme conditions such as hydrofluoric acid service.

In application the top fitting is backed out a few turns, and the valve is lubricated using a Delta high-pressure grease gun.

The top fitting is then screwed back into the bottom fitting until the tapered metal-to-metal seat forms a positive seal.

Two-piece construction, one check ball in each of the two pieces. Rated for service to 10,000 p.s.i.

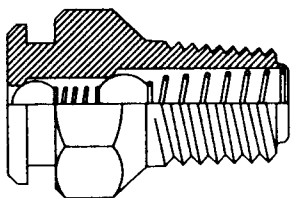
Materials*

- Body / 1215 low-carbon steel
- Ball / chrome alloy
- Spring / 302 SS

Ordering Information

- HF14-09 / $\frac{1}{4}$ " NPT thread
- HF38-09 / $\frac{3}{8}$ " NPT thread
- HF12-09 / $\frac{1}{2}$ " NPT thread

*Also available in NACE specification materials



Delta™ "P" Series Double Check Giant Buttonhead Fitting

Description

The double check design has a ball check in both the head and body.

A "P" series fitting is used where safety is required in handling gas and volatile liquids under

One-piece construction of button and body. Rated for service to 10,000 p.s.i.

Materials

- Body / 1015 low-carbon steel
- Ball / chrome alloy

Ordering Information

- P014-09 / $\frac{1}{4}$ " NPT thread
- P038-09 / $\frac{3}{8}$ " NPT thread
- P012-09 / $\frac{1}{2}$ " NPT thread
- P034-09 / $\frac{3}{4}$ " NPT thread

316 Stainless Steel

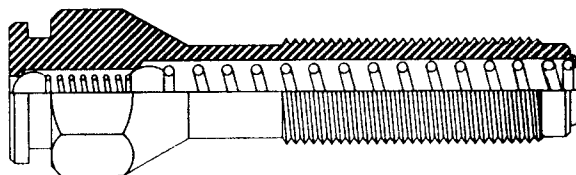
Materials

- Body / 316 stainless steel
- Ball / K-Monel*
- Spring / Inconel* 600

Ordering

- P214-09 / $\frac{1}{4}$ " NPT thread
- P238-09 / $\frac{3}{8}$ " NPT thread
- P212-09 / $\frac{1}{2}$ " NPT thread

*Reg Inco Alloys, International T.M.



Delta™ "H" Series Double Check Combination Lube Screw With Giant Buttonhead

Description

Combines a lubricant screw and gun fitting to convert valve lubrication from stick lubricant use to bulk lubricant use. This utilizes the high-pressure hand or automatic lubrication gun.

The double check design has a ball check both in the head and body.

One-piece construction of button and body. Rated for service to 10,000 p.s.i.

Materials

- Body / 1215 low-carbon steel
- Ball / chrome alloy
- Spring / 302 SS

Ordering Information

- H014-09 / $\frac{1}{4}$ " (NPSM)
- H038-09 / $\frac{3}{8}$ " (NPSM)
- H012-09 / $\frac{1}{2}$ " (NPSM)
- H034-09 / $\frac{3}{4}$ " (NPSM)

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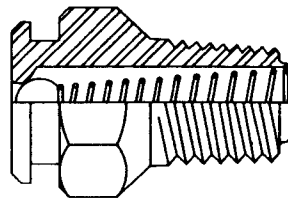
Delta™ Lubrication Fittings

Designed for in-service lubrication where pressure is a factor. Each fitting has one or more ball-type checks which prevent product escape during the pumping operation.

The fittings are precision made from mild steel with long thread bodies giving deep valve seating.

Standard sizes are 1/4", 3/8" and 1/2" with tapered or straight threads for leakproof makeup.

Other metals and sizes are available on request.



Delta™ "C" Series Single Check Giant Buttonhead Fitting

Description

"C" series fittings feature one ball-type check valve design. This feature prevents the escape of product through the fitting while the valve lubricant or sealant is being pumped into the valve.

One-piece construction of button and body. Rated for service to 10,000 p.s.i.

Materials

- Body / 1215 low-carbon steel
- Ball / chrome alloy
- Spring / 302SS

Ordering Information

- C014-09 / 1/4" NPT thread
- C038-09 / 3/8" NPT thread
- C012-09 / 1/2" NPT thread



Delta™ 120D-09

Air-operated Drum Pump Lubricator

The 120D-09 lubricator is an air-operated volume pump which clamps directly to a 120 lb. (16 gallon) open top refinery drum.

The 120D-09 lubricator features a 70:1 ratio pressure pump with a sealed-in air motor. Maximum air inlet pressure of 185 p.s.i. may be used, but recommended inlet pressure of 100 to 150 p.s.i. gives optimum operating range. A follower plate assures positive priming of lubricants up to NLGI 4.

The 120D-09 lubricator is complete with:

- 10 ft., 1/2" I.D., 16,000 p.s.i. hose
- Straight and "Z" swivels
- Volume control handle
- 15,000 p.s.i./kpa liquid filled pressure gauge and adapter (tee)
- 16" whip hose with giant buttonhead coupler
- Follower plate
- Lubrication adapter F/ 1"-14 capped body fitting

Additional information

- At air inlet pressure of 150 p.s.i., a delivery rate of 15 oz./min. of NLGI 2 lubricant may be achieved with a discharge pressure of 6,500 p.s.i.

Dimensions

- 38" high by 16" wide
- Approximate shipping weight 80 lbs.

Larger size availability

- Lubricator for 55 gal. open-top drum available on inquiry



Delta™ 300H-09 Type "H"™ Air-operated Lubricator

The 300H-09 lubricator is an air-operated portable volume pump, mounted on a rubber-tired swing dolly that keeps the lubricant container in an upright position at all times. It can be used indoors, outdoors and moves easily up and down steps.

The 300H-09 lubricator features a 70:1 ratio pressure pump with sealed-in air motor. Maximum air inlet pressure of 185 p.s.i. may be used, but recommended inlet pressure of 100 to 150 p.s.i. gives optimum operating range. Special follower plate and spring assembly assures positive priming of lubricants up to NLGI 4.

The Type H lubricator is complete with:

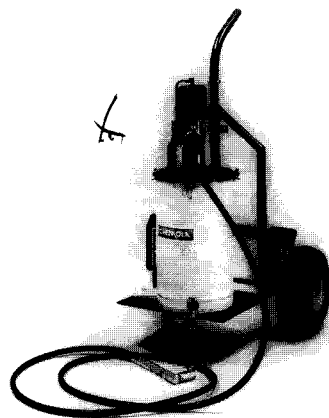
- 10 foot, $\frac{1}{2}$ " I.D. 16,000 p.s.i. burst pressure lubricant hose
- Straight and "Z" swivels
- 15,000 p.s.i./kpa liquid filled pressure gauge and adapter (tee)
- Volume control handle with 16" whip hose and giant buttonhead coupler
- Pail stabilizer ring

Additional information

- The 300H-09 accommodates either a five gallon or six gallon lubricant pail
- At air inlet pressure of 150 p.s.i., a delivery rate of approximately 15 oz. / min. of NLGI 2 lubricant at 77°F (25°C) may be achieved, with discharge pressure of 6,500 p.s.i.

Dimensions

- 41" high by 24" wide
- Approximate shipping weight 88 lbs.



Delta™ 30PP-09 Porta-Power™ Air-operated Lubricator

The 30PP-09 lubricator is an air-operated portable volume pump, mounted on a rubber-tired dolly. It can be used indoors, outdoors and moves easily up and down steps.

The 30PP-09 lubricator features a 70:1 ratio pressure pump with sealed-in air motor. Maximum air inlet pressure of 185 p.s.i. may be used, but recommended inlet pressure of 100 to 150 p.s.i. gives optimum operating range. Special follower plate and spring assembly assures positive priming of lubricants up to NLGI 4.

The 30PP-09 lubricator is complete with:

- 10 foot, $\frac{1}{4}$ " I.D. 20,000 p.s.i. burst pressure lubricant hose with built-in swivels
- "Z" swivel
- 15,000 p.s.i./kpa liquid filled pressure gauge and adapter (tee)
- Saf-T-Vent block and bleed valve with giant buttonhead coupler (other hose and connections available on inquiry)

Additional information

- The 30PP-09 accommodates a five quart lubricant can
- At air inlet pressure of 150 p.s.i., a delivery rate of approximately 15 oz. / min. of NLGI 2 lubricant at 77°F (25°C) may be achieved with discharge pressure of 6,500 p.s.i.

Dimensions

- 38" high by 20" wide
- Approximate shipping weight 60 lbs.

Delta Canister Lubricators



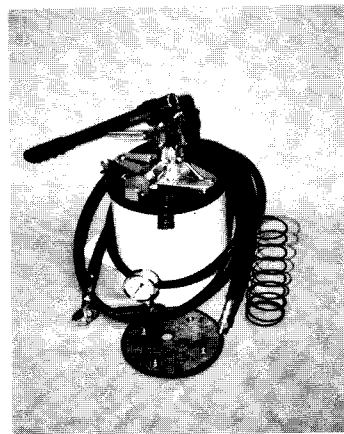
2023-09

The Delta 2023-09 hand operated canister lubricator has a capacity for 30 lbs. of bulk lubricant/sealant.

The Delta 2023-09 is a two-stage pump and will develop up to 15,000 psi delivery pressure.

The Delta 2023-09 hand operated lubricator is complete with 10 foot delivery hose with built-in swivels, z-swivel, 15,000 psi/kpa liquid filled pressure gauge and adapter (tee) and Delta Saf-T-Vent coupler for 1"-14 body lubrication fitting.

Other hose-end connections are available on inquiry.

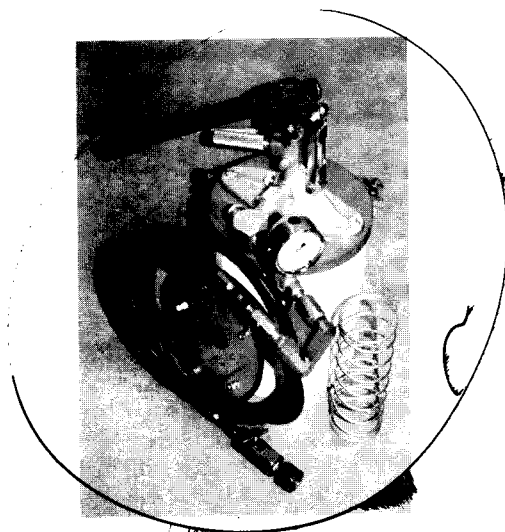


2020-09

The Delta 2020-09 hand operated canister lubricator will accommodate a 5 quart (10 lb.) container of lubricant/sealant with a delivery rate of approximately $\frac{1}{16}$ ounce per stroke.

The Delta 2020-09 is a two-stage pump and will develop up to 15,000 psi delivery pressure.

The Delta 2020-09 hand operated canister lubricator is complete with 10 foot delivery hose with built-in swivels, z-swivel, 15,000 psi liquid filled pressure gauge and adapter (tee), giant buttonhead coupler, follower plate and follower plate spring.

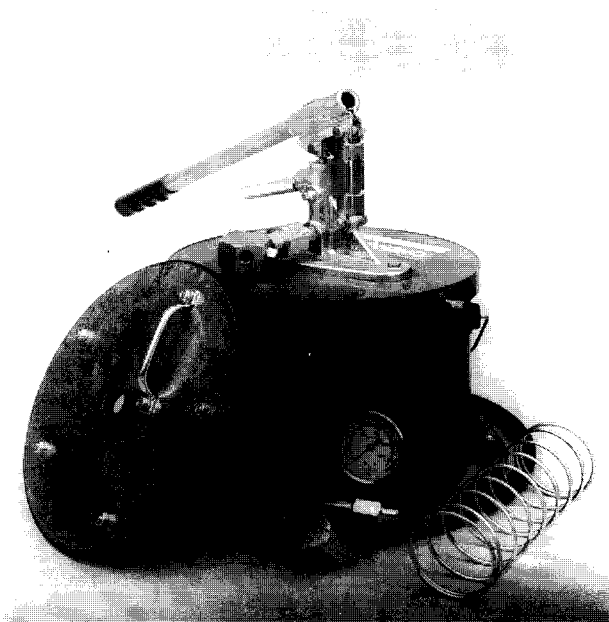


2022-09

The Delta 2022-09 hand operated lubricator is the same as 2020-09, except it is equipped with the Delta Saf-T-Vent coupler for 1"-14 body lubrication fitting.

Other hose-end connections are available on inquiry.





Delta Hand Bucket Guns

They Fit Three Gallon and Five Gallon Pails of Valve Lubricants and Sealants

There are two models of bucket guns. The Model 2015-09 is a light weight, compact gun that is easily attached to a three gallon, 20 lb. pail of lubricant/sealant.

Model 2016-09 attaches to a five gallon, 40 lb. pail.

Each two-stage pump mechanism develops up to 15,000 p.s.i. Delivery rate is $\frac{1}{16}$ oz. per stroke.

Both models combine the advantage and convenience of an easy pumping operation with hand gun maneuverability.

The strong spring and follower plate assembly assures positive priming of all types of heavy or light bodied lubricants or sealants even in cold weather.

Each Delta Hand Bucket Gun comes complete with a 10 ft., $\frac{1}{4}$ " I.D. high pressure swivel hose with giant buttonhead coupler, follower plate and spring, 15,000 p.s.i./kpa liquid filled gauge and an adapter (tee).

Ordering Information

- 2015-09 Delta Hand Bucket Gun with 10 ft., $\frac{1}{4}$ " I.D. high pressure swivel hose with giant buttonhead coupler, 15,000 p.s.i./kpa liquid filled gauge and adapter (tee), follower plate and spring for 20 lb. pail
- 2016-09 / Same as above for 40 lb. pail

Replacement assemblies

- 1501-09 / Delta 15,000 p.s.i./kpa liquid filled gauge only
- 2010-09 / Additional 10 ft. high pressure hose
- 1035-09 / Giant buttonhead coupler and $\frac{1}{4}$ " NPT adapter
- 10N5-09 / Giant buttonhead coupler washer assembly
- 2024-09 / Follower plate
- 2025-09 / Follower plate spring F/ 2015-09

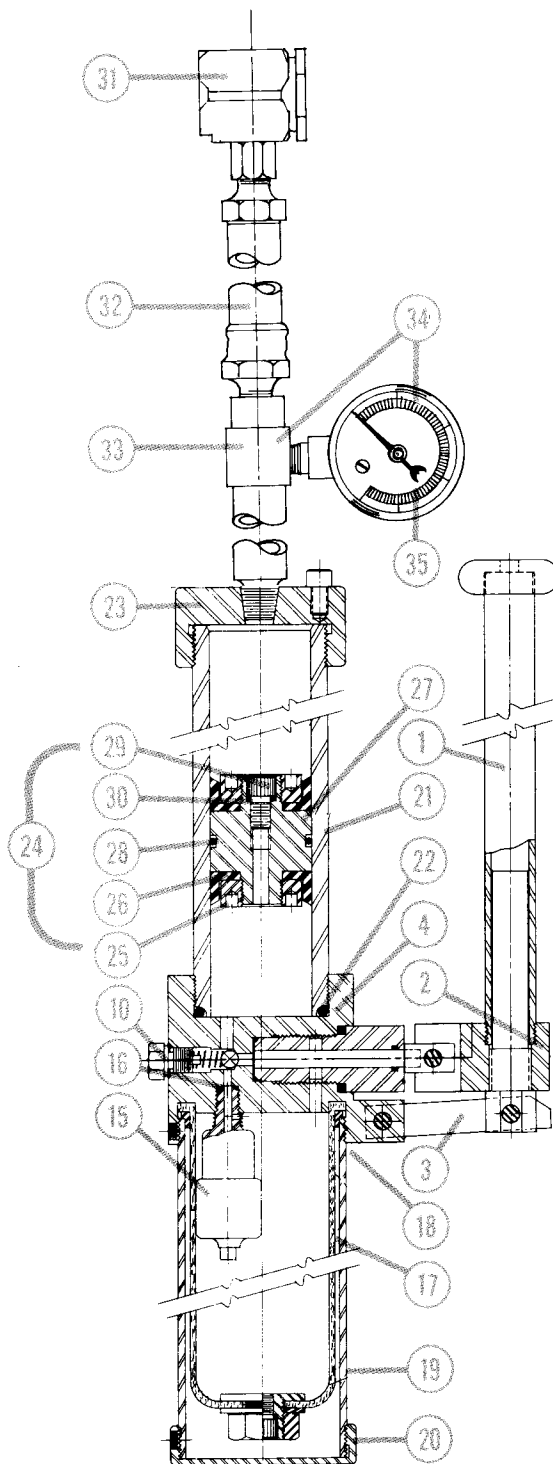
Optional accessories

- VFBJ-09 / Vent fitting lubrication adapter with button head fitting for $\frac{3}{4}$ "-16 capped body fitting
- VFBK-09 / Vent fitting lubrication adapter with buttonhead fitting for $\frac{7}{8}$ "-14 capped body fitting
- VFBH-09 / Vent fitting lubrication adapter with buttonhead fitting for 1"-14 capped body fitting
- VFBM-09 / Vent fitting lubrication adapter with buttonhead fitting for 1"-14 WKM® style capped body fitting
- LH16-09 / Vent fitting lubrication adapter with 16" hose for 1"-14 capped body fitting

Delta 1699-09

High Pressure Hydraulic Gun Repair Parts and Accessories

Drawing Number	Part Number	Part Description
—	1699-09	Hydraulic lubricator complete
—	1701-09	Hydraulic lubricator only
1.	1603-09	Handle
2.	1604-09	Fulcrum assembly
3.	1605-09	Linkage assembly
—	1606-09	Links (2 required)
—	1607-09	Link bolts (3 required)
—	1608-09	Link nuts (3 required)
—	1609-09	Body assembly (* these items included)
4.	1610-09	Body *
5.	1611-09	Hydraulic pump cylinder.(with piston "O" ring) *
6.	1612-09	"O" ring (piston seal)
7.	1613-09	"O" ring (top of pump cylinder) *
8.	1614-09	"O" ring (bottom of pump cylinder) *
9.	1615-09	Pump piston *
10.	1616-09	Check valve assembly *
11.	1617-09	By-pass valve with "O" ring *
12.	1618-09	"O" ring (by-pass valve)
13.	1619-09	By-pass valve stop *
14.	1620-09	By-pass valve stop screw *
15.	1621-09	Internal relief valve *
16.	1622-09	"O" ring * (internal relief valve)
17.	1623-09	Hydraulic fluid bag w/bleeder
18.	1624-09	Hydraulic fluid bag seal ring
19.	1625-09	Hydraulic fluid bag barrel
20.	1626-09	Hydraulic fluid bag barrel cap
21.	1627-09	High pressure sealant barrel
22.	1628-09	"O" ring (sealant barrel)
23.	1629-09	Sealant barrel cap
24.	1630-09	Piston assembly (** these items included)
25.	1631-09	Washer nut (2 required) **
26.	1632-09	Cut leathers (2 required) **
27.	1633-09	Piston body **
28.	1634-09	"O" ring (piston body) **
29.	1635-09	Piston cap screw **
30.	1636-09	"O" ring (piston cap screw) **
31.	1015-09	Giant buttonhead coupler with adapter
—	1014-09	Giant buttonhead coupler adapter only
—	10A5-09	Giant buttonhead coupler only
32.	1021-09	16" swivel hose only
33.	1495-09	Gauge adapter 1/4" NPT
34.	1500-09	High pressure gauge with adapter
35.	1501-09	High pressure (15,000 p.s.i.) gauge only
—	1637-09	One pint can of hydraulic fluid
—	1638-09	One gallon can of hydraulic fluid
—	1639-09	Spanner wrench for sealant pison



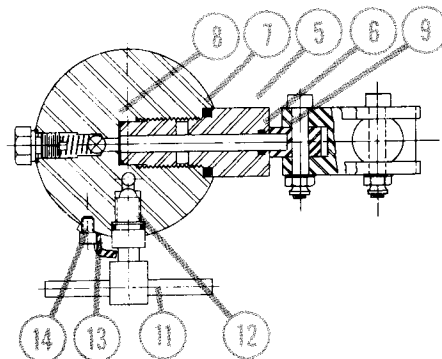
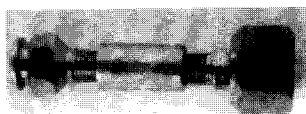
Vent fitting lubrication adapter with buttonhead fitting

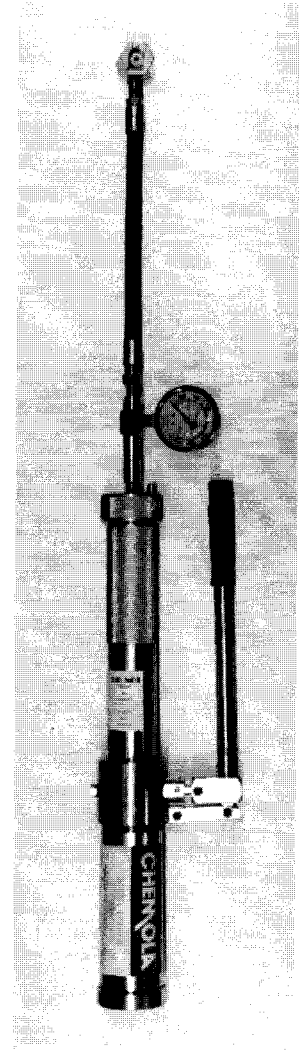
VFBJ-09 F/3/4-16

VFBK-09 F/7/8-14

VFBH-09 F/1-14

VFBM-09 F/1-14 (WKM style)





Delta™ High Pressure Hydraulic Hand Gun 1699-09

**For Use Where
High Pressure
Valve Lubrication
is an Operating
Requirement**

The Delta 1699-09 high pressure hydraulic hand gun has earned a worldwide reputation in pipeline, refinery and chemical plant service.

Its dependability, ease of operation and rugged construction have made it the standard for over half-a-century.

Its light weight (15 pounds) and ability to stand the rigors of field operation are appreciated by maintenance people from the desert to the arctic. It uses "J" stick of valve lubricants and injectable packings.

In operation the hydraulic fluid is pumped into the space behind the piston, which in turn drives the free-moving, polished, hard metal alloy piston forward through the strong, precisely machined barrel. The lubricant is then forced through the high pressure hose into the giant buttonhead lubrication fitting.

The Delta 1699-09 was originally designed and built for plug valve lubrication. The self-priming hydraulic hand gun has emerged, however, as an excellent lubricator also for injecting both lubricant and sealant into gate and ball valves

plus other equipment that requires periodic lubrication.

An important feature is a built-in relief valve that protects the Delta 1699-09 Hand Gun from damage when the supply of lubricant/sealant is unknowingly depleted; if the maintenance person continues the pumping action.

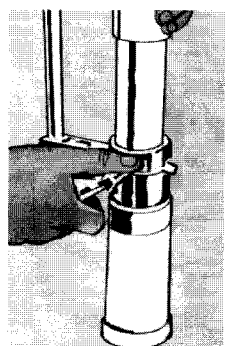
The 15,000 p.s.i. gauge, furnished with each 1699-09, is an aid in determining the point where sufficient lubrication has been developed in the valve. This one feature gives the maintenance person precise control of lubrication for each valve plus economical lubricant use.

Also furnished with each 1699-09 is a giant buttonhead coupler with adapter. The device fits onto standard lubricant fittings and a 16-inch-long (20,000 p.s.i. burst) flexible swivel hose that allows lubrication in the tightest of valve manifold systems.

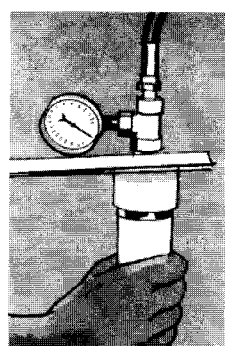
Other available accessories include a vent lubrication adapter with buttonhead fitting and an adapter with hose.

Five easy steps to loading the Delta Hand Gun

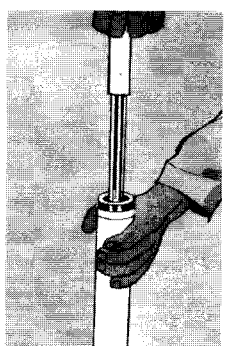
A.
Relieve pressure by opening bypass valve one full turn.



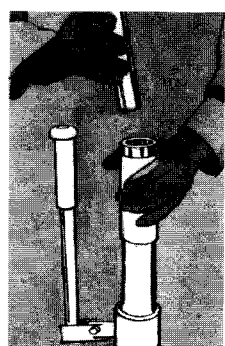
B.
Unscrew handle from fulcrum of lubricator, placing the hole drilled in handle over the protruding button on the sealant barrel cap. Rotate counter clockwise



C.
Using the handle, return piston to bottom of sealant barrel and close by-pass valve firmly.



D.
Insert "J" size stick of recommended Desco lubricant / sealant for service conditions.



E.
Replace cap and hose assembly. Tighten with handle as in "B" above.

NOTE: Use only Delta hydraulic fluid specially compounded for this lubricator. **Do Not** carry by handle.



Delta™ 1002-09 and 1602-09

High Pressure Screw-prime Hand Gun

Repair Parts List

Drawing Number	Part Number	Part Description
1.	1002-09	<i>Screw-Prime lubricator w / 10" swivel hose</i>
2.	1602-09	<i>Screw-Prime lubricator w / 16" swivel hose</i>
-	1003-09	<i>Screw-Prime lubricator only</i>
3.	1695-09	<i>Head and handle assembly includes</i>
4.	1696-09	Head only w/ Allen head plug
5.	1502-09	Piston
6.	1681-09	Piston stud nut
7.	1682-09	Piston stud
8.	1683-09	Piston packing
9.	1684-09	Piston packing nut
10.	1686-09	Link (2 required)
11.	1687-09	Link nut (2 required)
12.	1688-09	Link stud (2 required)
13.	1692-09	Piston handle
14.	1690-09	Sealant barrel
15.	1012-09	<i>10" swivel hose assembly</i>
16.	1013-09	<i>16" swivel hose assembly</i>
		<i>Hose assemblies include</i>
17.	1015-09	Giant buttonhead coupler w /adapter 1/8" NPT
18.	1014-09	Adapter, 1/8" NPT
19.	10A5-09	Coupler body
20.	10N5-09	Coupler washer w /"O" ring
21.	10S5-09	Coupler spring
22.	10C5-09	Coupler cap
23.	10G5-09	Coupler cap gasket
24.	1020-09	10" swivel hose only
25.	1021-09	16" swivel hose only
—	1016-09	Std. buttonhead coupler w/adapter 1/8" NPT
		<i>Spring primer assembly includes</i>
26.	1090-09	Bottom collar
27.	1097-09	Screw and handle
28.	1025-09	Screw and handle
29.	1023-09	Primer cup (*)
30.	10R3-09	Cup retainer plate (*)
31.	10N3-09	Safety nut
32.	10S3-09	Spring assembly (*includes)
—	10S4-09	Spring unit only (*)

Optional Delta™ high pressure gauge and adapter

A high pressure, liquid filled gauge with 15,000 p.s.i./kpa dual reading face. Case is stainless steel with male connection. Equipped with heavy-duty glass cover.

It is designed specifically for lubrication equipment. When the lubricant pressure reaches the proper point, the gauge needle will drop, indicating the valve is fully serviced.

It can be used to indicate proper valve adjustment and other valve functions.

Part Number	Description
1500-09	Delta high pressure gauge and adapter
1501-09	Delta high pressure gauge <i>only</i>

