



## LG1DN SERIES GASGUARD NOZZLE

### RECOMMENDED MAINTENANCE & REPAIR PROCEDURES

The following statements on the maintenance and repair of the GasGuard LG1DN Series L.P.Gas Nozzle are designed to offer L.G. Equipment's (LGE) authorised international Distributors, O.E.M's & Service Centres recommended methods to bring back into serviceable condition Nozzles which require maintenance or repair.

LGE's recommendations are based on over twenty years of experience in the manufacture, assembly and testing, and repair of such Nozzles. Whilst LGE's recommended procedures, as set out below, allow for proper repair and maintenance to be carried out on Nozzles, LGE cannot be held responsible for performance of repaired Nozzles.

LGE has available a LG3N SEAL KIT for the GG1DN Nozzle Series. It contains seal components and wear items for proper service of the LG1DN Nozzle. Other components that are worn or damaged should be replaced on a needs basis. Refer to the assembly drawing for component detail and part numbers.

Age, wear and abuse of the product can render repair inappropriate, and it may be considered more economical to replace full Assemblies or even scrap the Nozzle where service inspection clearly indicates such action is required.

#### A. THE GASGUARD LG1DN SERIES NOZZLE

The LG1DN Series GasGuard Nozzle is available in the following combinations:-

- LG1DNS - Nozzle with Strainer fitted.
- LG1DNSL - Nozzle with Strainer and Latch.

All GasGuard Nozzles are supplied with either a 15mm (1/2"), 20mm. (3/4") N.P.T. internal inlet thread for hose end connection. Nozzles are also available as a "J" version; this includes a magnet in the nozzle body.

The LG1DN Nozzle Assembly consists of the following Sub-assemblies:

- |                                     |                       |
|-------------------------------------|-----------------------|
| i) Body sub-assembly – 1/2"         | Part No. 10-0785-804, |
| Body sub-assembly – 3/4"            | Part No. 10-0819-804, |
| ii) Lever/Latch Assembly (optional) | Part No. LG5SL        |
| iii) Valve Assembly                 | Part No. LG4N,        |
| iv) Connector Assembly              | Part No. LG7N,        |
| v) Strainer (optional)              | Part No. EK172.1.     |

## B. TOOLS RECOMMENDED FOR SERVICE ON THE GASGUARD NOZZLE

L.G.E. recommends the following tools be available to facilitate repair and maintenance of the Nozzle:-

- i) Adjustable Spanner (Wrench) – Opening to 38mm (1.50”) across flats,
- ii) Internal Circlip pliers,
- iii) Light ball-peen hammer,
- iv) 3.2mm (1/8”) dia. drift,
- v) Screw driver (medium size),
- vi) Bench vice,
- vii) 2.5 and 3.0mm across flats allen keys,
- viii) Spring clamps (medium size) - two only,
- ix) Sharp Nose Punch,
- x) Drill Bit – 5mm dia.
- xi) Nose Piece Assembly tool (available from L.G.E.)
- xii) Loctite 263 or similar

## C. ASSEMBLY GREASE RECOMMENDED FOR SERVICE ON THE GASGUARD NOZZLE

L.G.E. recommends and uses the following greases for general lubrication of moving parts and threads in the assembly of the GasGuard Nozzle:-

- i) Aeroshell 22 (Grease) or equivalent grease for use on all threads – Apply to external threads only,
- ii) Dow Corning Molycote FS3451 Fluorosilicone Grease (Molycote) for use on all dynamic O Ring seals – a thin film of Molycote is adequate.
- iii) Nulon – L90 “Xtreme Pressure” Anti seize Lubricant.

The particular grease should be applied sparingly by a good quality small brush.

L.G.E. particularly recommends the use of the above greases where ambient temperatures can get down to -55 degrees Celsius. Of course they provide satisfactory properties up to +80 degrees Celsius.

Aeroshell 22 Grease should be applied sparingly by a small brush. It should be used to lubricate all threads and close fitting parts prior to their assembly to mating components and/or assemblies.

Molycote grease may be used to assist easy fitment of seals: U cup, Back-up ring concave face and O-Ring type before their assembly into their related grooves/recesses, or shoulders. A thin film of Molycote is adequate

Nulon L90 Grease is recommended to be used on rotating parts. Used sparingly with a small brush it should be applied to the slide sleeve, from the bearing at the top down to the ball groove, after seals and bearings have been assembled.

The above greases are available from most lubricant specialist outlets.

## D. DISASSEMBLY OF LG1DN MAJOR ASSEMBLIES - Refer Dwg. X0879 C

### a. Body Sub-assembly - refer Dwg. No. X0819 C

#### i) Inlet Swivel - Items 5 through 12.

1. The Inlet Swivel is maintained by firstly removing same from the Nozzle Body (1).
2. Remove the Locking Screw (13) and unscrew the Inlet Swivel from the Nozzle Body via the spanner flats of the internal Swivel Body (5).
3. Remove the Ball Race Plug (12) and remove the Ball Bearings (7) –13 only by counter-rotation and if necessary using some turps or similar to loosen the ball race grease. Pull apart the Internal and External Swivel Bodies. Remove all Seals, Back-up Rings and discard.
4. Clean all parts and wipe dry. Obtain and check new Seals etc. from the L.G.3SW Seal Set for the Inlet Swivel, i.e. items 8, 8A, 10, 10A, 11.
5. Apply a thin film of Molycote or similar grease to the Seal areas and Ball Race grooves of both the Internal and External Swivel Bodies.
6. Assemble the Main O Ring Seal –2 off (10) then its Back-up Ring (10A) to the Internal Body, ensuring that the concave section of the Back-up Ring is against the O Ring. Ensure that this set is properly housed square in bore of the Internal Body.
7. Assemble the O Ring Dust Seal (11) to the External Body.
8. With an easy twisting and pushing motion, assemble the External Swivel to the Internal Swivel. Place this assembly in the vice, using the flats of the Internal Swivel, and assemble the Ball Bearings (7) through the hole concerned. A slight axial pressure may be necessary to insert the first Ball, thereafter they can be inserted by turning the External Swivel Body slowly to facilitate assembling all 13 Ball Bearings
9. Fit the Ball Race Plug (12) to the hole, ensuring that its extraction hole is facing outward.
10. With a slight smear of grease to the external diameters and external thread of the Swivel Assembly only, fit the O Ring Body/Swivel Seal (8) and then its Back-up Ring (8A) to the bore of the Nozzle Body. Refer to para 6 above for orientation of Back-up Ring to this O Ring.
11. Screw connect the Inlet Swivel Assembly to the Nozzle Body (1) using a spanner on the flats of the Internal Swivel (5). Screw both together to the face of contact with a maximum 41 Nm (30 ft.lbs.) torque. Assemble Locking Screw (13) to Nozzle Body with Allen Key.
12. Rotate External Swivel relative to Internal Swivel. This rotational torque may be high initially, but it will become easier with use.

**ii) Pawl Sub-assembly - Items 2,3 and 4.**

1. In the unlikely event of maintenance required on this Pawl Sub-assembly, unscrew the Pawl Adjusting Nut (4), remove the Pawl (2) and Spring (3). Check all three (3) Items for damage, and if replacement of any part is necessary, it is recommended that all three (3) Items be replaced with new parts.
2. Use a little Grease on the Body internal thread, assemble the Spring, Pawl and Adjusting Nut, preferably with a slotted screw driver. Check that the Pawl leading radius point is 3.9 – 4.0mm. from the machined face of the Nozzle Body. Using a sharp nose punch and hammer, punch the Nozzle Body next to the Pawl Nut. This stops Pawl Nut rotation in service.

**b. Swivel Nut Sub-assembly (L.G.7N) - refer Dwg. No. X0883B.**

1. Remove Swivel Nut Sub-assembly from Nozzle by removing Split Pin (5) of L.G.5SL lever Sub-assembly, withdrawing the Lever Pivot Pin (4) of same and removing the Swivel Nut Sub-assembly.
2. Unscrew the Ball Plug (8) of the Swivel Nut Sub-assembly and remove the Ball Bearings - 31 only. A small amount of turps or similar dropped into the Ball Plug screw hole could assist the Ball Bearing removal.
3. Withdraw the Swivel Nut (5) and remove the Internal (4) and External (3) Lip Seals from their grooves in the Slide Sleeve (1) and discard same. Remove the L.G.6N Split Nose Piece Sub-assembly (Refer to Drawing No. X0832C).
4. Remove Circlip (4) from the Tail Piece (3) of the L.G.6N Split Nose Piece Sub-assembly (also refer to Drawing X0832C). With a pulling and screwing action, disengage the Nose Piece (1) from the Tail Piece (3). This will expose the Lip Seal (2). This elastomers should be discarded and replaced prior to re-assembly. Refer to L.G.3NNP Split Nose Piece Kit, available from L.G.E's distributors/service organisations.

*Note: Special care should be taken to ensure the Lip Seal Groove is clean. LGE recommends that the Groove is lightly greased prior to fitment of Lip Seal.*

5. Thoroughly clean the Nose and Tail Pieces, and lightly grease the new Lip Seal (2). Assemble same into the Nose Piece (1) Seal groove, ensuring that Lip Seal is correctly orientated. Re-assemble the Tail Piece to the Nose Piece with a screwing and pushing action, and check that there is easy to and fro sliding action between the two metal components.
6. Refit the Circlip (4) into its groove in the Tail Piece. A special tool is recommended for this procedure. L.G.E. can recommend its sourcing. Again check the free movement between the Nose and Tail Pieces when pulled and pushed together to their respective stops.

7. Clean all parts removed and to be used in the re-assembly of this L.G.7N Sub-assembly and dry thoroughly.
8. Assemble the External Lip Seal (3) into its groove in the Slide sleeve. This is facilitated by using a smooth 3mm dia. stainless steel rod, placing the Lip Seal over same, and assembling same to the external groove, diametrically opposite to the rod, and whilst rotating the rod around the outside diameter of the Slide Sleeve, ease the Lip Seal onto the Slide Sleeve and thence into the groove.
9. Ensure that the External Lip Seal (3) is sitting squarely and untwisted in its groove and the Lips facing towards the front of the Nose Piece.
10. Assemble the Internal Lip Seal (4) into its internal groove of the Slide Sleeve, with the same precautions as per the External Lip Seal (3) above. Lightly smear Nulon L90 lubricant onto the exposed lips on each of the seals. Apply with a small brush from the split bearing at the top end down to the ball groove. Applying too much Nulon L90 lubricant around the ball groove will inhibit insertion of ball bearings.
11. Insert the L.G.6N Split Nose Piece Sub-assembly (6) into the Swivel Nut (5) and ensure that it is sitting squarely and centrally against the back of the ACME thread of same. Gently rotate and push the Slide Sleeve (1) with Lip Seals into the Swivel Nut (5) and align the ball race groove of the Slide Sleeve with the Ball Plug tapped hole of the Swivel Nut.
12. Hold the Swivel Nut lightly in a vice with the Ball Race Plug hole facing upwards and insert the thirty-one (31) only cleaned Ball Bearings (7) into the groove at the same time slowly rotating the Slide Sleeve to assist entry.
13. Apply a small amount of Loctite 262 Thread locker or similar to the Ball Plug (8) and screw same into its position flush with the Lug of the Swivel Nut.
14. Rotate the Swivel Nut (5) on the Slide Sleeve (1) to ensure free movement of same.
15. Insert the Valve Body/ Connector Spring (9) and place on one side for final assembly to the repaired L.G.1DN Nozzle.

### ***c. Lever Sub-assembly L.G.5SL – refer Dwg. No. X0768B***

1. If the L.G.5SL Lever Sub-assembly is fitted to the Nozzle, check for wear on the two Slippers (3). The Slippers can be rotated and changed to the opposite side of the Lever Clevis to improve the operating characteristics of the Nozzle. Replace the Slippers if necessary.
2. Check that the Lever Latch Pin (3) is not worn, replace if necessary.

***d. Valve Body Sub-assembly (L.G.4N) - refer Dwg. No. X0881B***

1. Unscrew Valve Body Assembly from Nozzle Body, holding Nozzle in a vice and applying close fitting wrench to the flats on the Valve Body (3). Discard the O-Ring Valve/Body (9).
2. Remove Circlip (8) with pliers and remove Spring Guide (7), Ball Valve, Guide/Spring Assembly (6).
3. Remove Valve Body Connector Spring (9) (from Drawing X0883) if still attached to the outside of the Valve Assembly. Place Valve Body in vice, using the flats of the Body and carefully apply close fitting wrench pressure to unscrew the U cup Spacer Housing (1).
4. Remove and discard U cup Seal (2), Housing O Ring (5) and Valve Seat (4) from the Valve Body.
5. Thoroughly clean all metal parts, and closely inspect the seating face of the Ball Valve (6) for pitting due to corrosion. If there are signs of corrosion, replace the Ball Valve.
6. Using parts from the L.G.3N Seal Kit, fit the Valve Seat (4) into its recess in the Body (3), followed by the Housing O Ring (5) and U Cup Spacer Housing (1). This should be carried out without any greasing of the Valve Body.
7. Fit the U cup Seal (2) to the U cup Spacer Housing (1) in its correct orientation. Lightly grease the U cup Spacer Housing and screw the Housing (1) to the Valve Body (3) with a close fitting spanner or wrench to a maximum of 14 Nm (10ft.1bs.) torque. Check that the Seat (4) is squared up with the internals of the Valve Body (3) and the U cup Spacer Housing (1) does not distort the Valve Seat(4).
8. Stand the Valve body vertically and fit the stem of the Ball Valve, Guide/Spring Assembly (6) into the Valve Spring Guide (7) and place on what is now the underside of the Valve Seat (4). Press the Valve Guide to expose the groove and fit the Circlip (8). Ensure Circlip (8) is correctly fitted and secure in the groove. Check spring action.
9. Fit the new O Ring Valve/Body O'ring (9) to the Valve Body, slightly grease the outside diameter of the Valve Body (3).
10. Screw connect the Valve Body Sub-assembly to the Nozzle Body, using a smear of Grease on the external thread of the Valve Body (3). Tighten to a maximum of 41Nm (30ft.1bs.) torque.
11. If a Strainer Sub-assembly L.G.9 is to be fitted, place the cleaned Strainer into the bore of the Nozzle Body in the correct orientation and screw connect the Valve Body Sub-assembly to the Nozzle Body as per para.10 above.

***e. Latch Sub-assembly L.G.8 (Optional) - refer Dwg. No. X0787A***

1. If a new Latch Assembly is to be fitted to the Nozzle, firstly remove the damaged Assembly by carefully knocking out the Latch Pin (3) with a 1/8" (3mm.) drift, and discard the Assembly.
2. Gently hammer one end of the new Latch Pin (3) to one of the Bushes (4) oriented as per the Dwg. No. X0787.
3. Assemble the special Latch Spring (2) to the Latch (1) using the closed end of same, thread the Bush fitted Latch Pin through the Spring circle and start hole of the Latch (1). Fit this assembly to the Nozzle Body rear web, aligning the free end of the Latch Pin (3) with the 1/8" dia. hole in the web and carefully tap the fitted Bush (4)/Latch Pin (3) through the hole, ensuring that the open end of the Latch Pin extends through the Spring circle on its opposite side.
4. Using a suitable metal block as a steady, carefully apply the other Bush (4) to the free end of the Latch Pin (3) and tap home flush with the end of the Latch Pin.
5. Centralise the Latch Assembly with the Flange of the Nozzle Body by carefully tapping either Bush.
6. Operate the Latch Assembly for free and spring return condition and, on assembly of the Gasguard Nozzle, check its proper latching to the Lever Latch Pin (2) of the L.G.5SL Lever Sub-assembly.

***f. EK172.1 Strainer Assembly – Dwg. No. EK172.1***

1. This Strainer Assembly, if originally fitted, should be cleaned. If there is damage to the mesh or the ring seal, replace with a new strainer.

**E. ASSEMBLY OF GASGUARD NOZZLE - Refer Dwg. X0879 C**

1. You will have six (6) Sub-assemblies ready for assembling into a Nozzle Assembly, i.e. Nozzle Body, Swivel Nut, Lever, Valve Body, Latch (optional) and Strainer (optional).
2. Having already assembled the Nozzle Body Sub-assembly to the Valve Body Sub-assembly (with or without Strainer Assembly fitted), assemble the Swivel Nut Sub-assembly to the Valve Body Sub-assembly and ensure that there is free but spring loaded movement between the two.
3. The Lever Sub-assembly can now be fitted. Firstly, fit the Lever to the Nozzle Body, ensuring that the fork at the heel of the Lever is engaged on the web of the Nozzle Body. Then fit the two Slippers to the slipper pivot points on the lever. Check that the Slipper orientation is correct.
4. Resisting the Valve Body/Connector Spring (9) (in Dwg. No. X0883B) against a firm stop, push the Nozzle Body/Valve Body Sub-assembly into the Swivel Nut Sub-assembly, until the pivot pin hole in the Slide Sleeve (1) aligns with the

holes in the Lever. Fit the Lever Pivot Pin (4) (in Dwg. No. X0768B) fully through these aligned holes.

5. Operate the Nozzle Lever in the normal manner to ensure free and full operation of same. Prior to operation of the Lever, the open end of the Pawl should be no more than 1.0mm. free of the Pawl teeth in the Swivel Nut.

## F. LG1DN NOZZLE TEST PROCEDURE

LGE recommends two (2) series of tests be carried out, i) **static** and ii) **dynamic** flow test.

It is recommended that the Nozzle be flow and pressure tested using LPGas (propane) as the testing medium (when performing Dynamic tests) at the normal flow pressures of 1300-1600 kPa (200-220 p.s.i.) experienced in the field. If LPGas (propane) is not available, a satisfactory substitute testing medium is bottle nitrogen set on its regulator at 1800 kPa or Compressed Air.

**L.G.EQUIPMENT STRESSES THAT THE OPERATING PROCEDURES OVER-LEAF, BE PRECISELY PERFORMED BEFORE IT GOES ON-SITE AND THEN AGAIN ON THE SITE ITSELF.**

### STATIC TEST:

- 1) The **Static Test (with pressurised Air or Nitrogen)** should be performed firstly without connector (C) or Lever Assy (E), the Nozzle is connected to the supply hose, essentially fitted with an isolating valve immediately upstream of the hose end connection to the Nozzle. Apply pressure from the pressure unit at the above stated flow pressures, and slowly open the isolating valve.
- 2) With the Nozzle closed, check gas pressure security at all joints on the Nozzle especially at the Inlet Swivel connection to the Nozzle. Carry out this test by immersing the Nozzle Assembly in a container of detergent loaded water. Whilst checking pressure security, apply a bending moment to the Inlet Swivel of approx. 27Nm (20 foot pounds) whilst rotating the Swivel Assembly slowly.
- 3) Once point 2) is completed apply Connector (C) and Lever Assy (E), without allowing gas into the Nozzle, connect the Nozzle Assembly via its ACME thread to an approved (vehicle) or Adaptor (ie. blanked connector), and check that the Nozzle locks firmly onto the Adaptor when the Lever is fully operated. If firm locking takes place, it can be assumed that the Valve of the Nozzle has opened and would allow LPGas to pass through same during normal pump operation.
- 4) Check Lever movement and where fitted that the Latch engages when the Lever is pulled back and allowed to rest open. Disengage the Latch by pulling back on the Lever and releasing to return Lever to the closed position.



### DYNAMIC FLOW TEST:

- 1) For a **Dynamic Flow Test (with LPGas)**, connect the Nozzle to a vehicle connector fitted to the vapour return line on a dispenser or test rig, with a downstream connector to a receiving tank.
- 2) Allow gas into the Nozzle and check for gas vapour while valve is closed (ideally spraying a liquid diluted with a detergent, to see any apparent leaks).

*Note: Special attention should be given to checking that there is no leakage from the Swivel Nut Vent Holes when the Lever is activated. Any leakage from Vent Holes will indicate that:-*

- a) *U Cup Seal is not seating correctly in the U Cup Spacer Housing.*
  - b) *LG6N Nose Assembly Seals or Tail Piece Ramp are damaged.*
- 3) Activate Lever to allow gas flow. Check for leaks from the Connector sides (using same method as above). Release the lever and unscrew the Nozzle off  $\frac{1}{2}$  to  $\frac{3}{4}$  of a turn and test again, making sure the Dual Nose Piece operates properly. On releasing the Lever the second time check that there is a small amount of gas caused to escape to atmosphere.
  - 4) At the conclusion of satisfactory static and dynamic tests, close the hose end isolating valve, operate the Lever to depressurise the Nozzle and remove the Nozzle from the supply hose. Fit the Split Pin (5) of the Lever Sub-assembly to the Lever Pivot Pin (4).

IF ALL THE ABOVE PROCEDURES ARE CARRIED OUT WITH CARE AND ATTENTION TO DETAIL, YOUR GASGUARD NOZZLE WILL PROVIDE YOU WITH SATISFACTORY SERVICE. HOWEVER, LGE CANNOT BE HELD RESPONSIBLE FOR ANY INCORRECT OPERATING PROCEDURES ASSOCIATED WITH THIS RECOMMENDED REPAIR AND MAINTENANCE PROCEDURE.

IF YOU FIND THAT THERE ARE OPERATING FEATURE FOR WHICH YOU DRAW CONCERN, LGE RECOMMENDS THAT YOU CONTACT ITS DISTRIBUTOR OR HEAD OFFICE FOR ASSISTANCE.

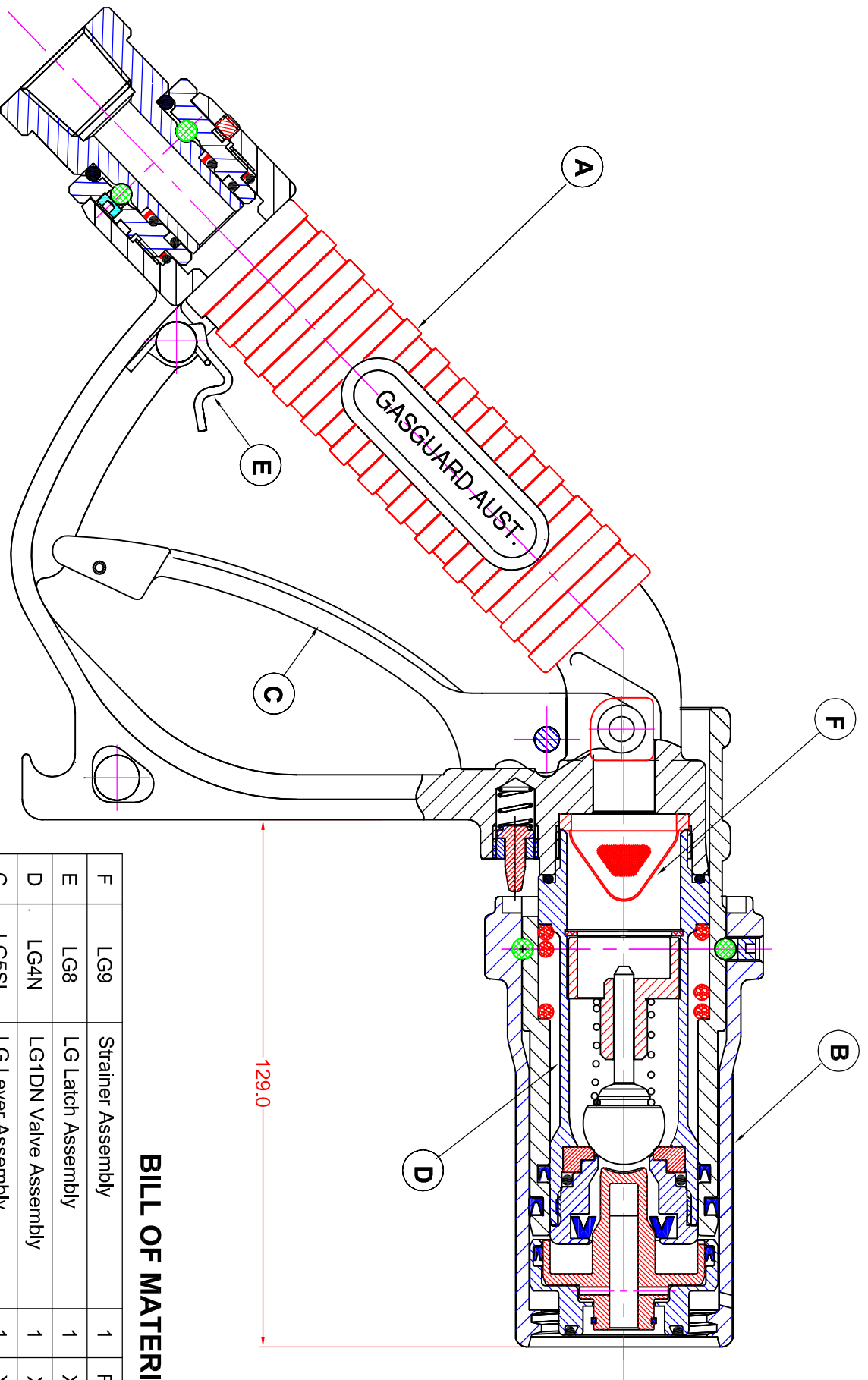
**Prepared By:**

**L.G. Equipment Pty. Ltd**

*a division of ELAFLEX HIBY GmbH & Co. KG*


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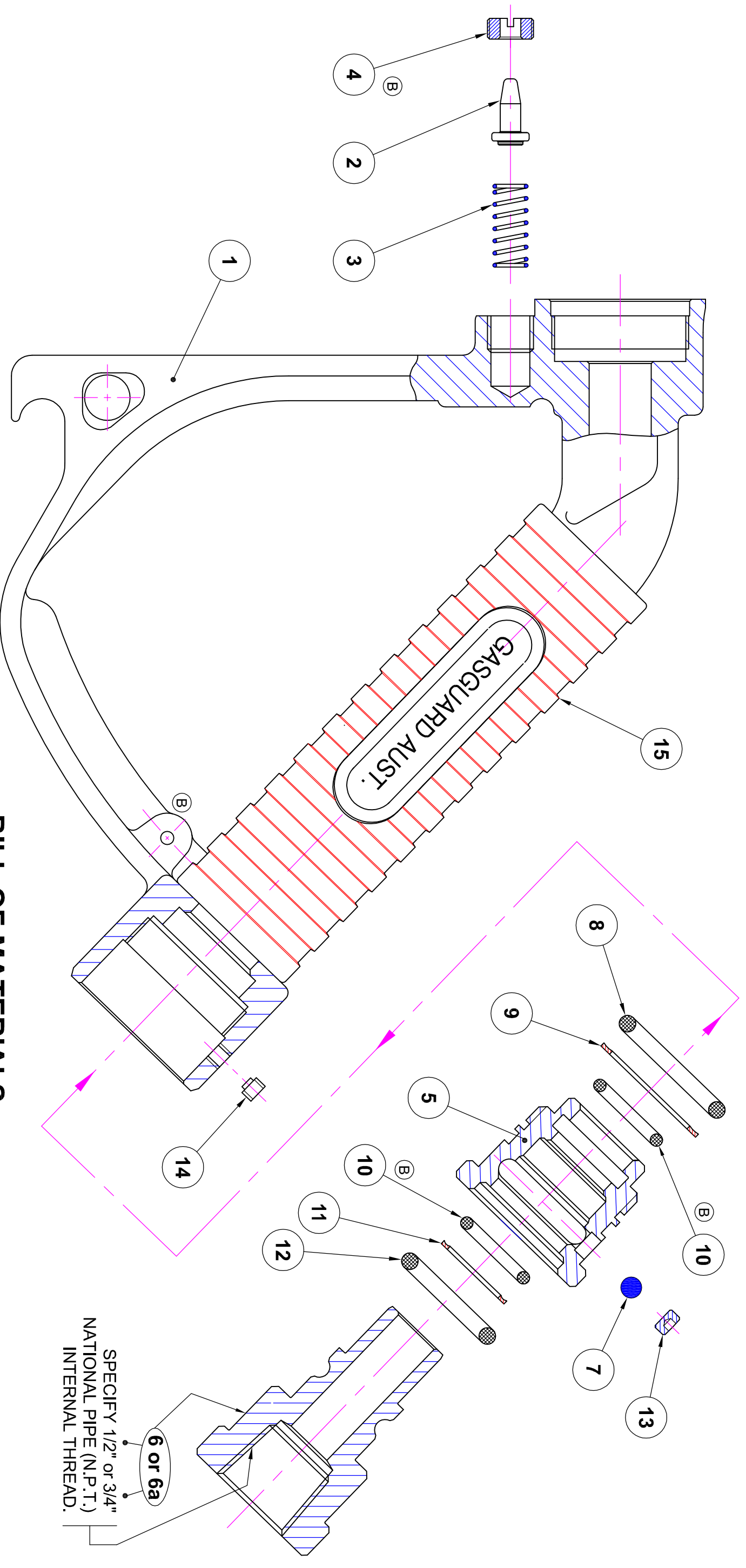


### BILL OF MATERIAL

Item	PART No.	DESCRIPTION	Req	Drawing	Options
F	LG9	Strainer Assembly	1	R0872	Optional
E	LG8	LG Latch Assembly	1	X0787	Optional
D	LG4N	LG1DN Valve Assembly	1	X0881	Standard
C	LG5SL	LG Lever Assembly	1	X0768	Standard
B	LG7N	LG1DN Connector Assembly	1	X0863	Standard
A	10-0785/819-804	LG1 Body / Inlet Assembly	1	R0785	1/2" NPT or 3/4" NPT

LG1DN(S)(L)   LG1DN(S)(L) Nozzle Assembly		Refer to Assembly Drawings above	
<b>Part No.</b>	<b>Description</b>	<b>Material</b>	<b>Finish</b>
 <b>LG1DN Nozzle</b> <small>Proprietary. This document and its contents may not be used or reproduced in any manner without the written authorisation of L.G.EQUIPMENT Pty. Limited.</small>			
<b>Drawn Scale</b>	<b>1:1</b>	<b>A3</b>	
<b>L.G.EQUIPMENT PTY.,LTD.</b> SYDNEY, N.S.W. AUSTRALIA ABN 70 003 275 250		<b>LG1DN(S)(L) Nozzle Assembly</b>	<b>X0879</b>
		<b>Drawing No.</b>	<b>Revision</b>
			<b>C</b>

<b>Rev</b>	<b>Change Detail</b>	<b>Drw Ckd</b>	<b>Date</b>	<b>PT</b>	<b>30-11-09</b>
C	Ball Guide added to Valve(D), Lever profile updated	PGS	12-10-04	PT	
B	Redrawn on C.A.D.	JFT			



## BILL OF MATERIALS

7	10-0500-603	Ball Bearings	13	Stainless Steel	15	10-0615-706	LG Comfi Grip	1	PVC Nitrile
6a	10-0818-803	Inlet Swivel External 3/4"	1	Steel - nickle plated	14	10-0505-544	Locking Screw - Inlet	1	Stainless Steel
6	10-0780-803	Inlet Swivel External 1/2"	1	Steel - nickle plated	13	10-0702-130	Ball race plug	1	Stainless Steel
5	10-0781-803	Inlet Swivel Body	1	Steel - nickle plated	12	10-0212-703	O-ring - Dust Seal	1	Nitrile
4	10-0664-803	LG1 Pawl Adjusting Nut	1	Brass - nickel plated	11	10-B124-701	B/up ring - Main Seal	1	Nitrile
3	10-0902-130	LG1 Pawl Spring	1	Stainless Steel	10	10-0317-703	O-ring - Main Seal	2	Nitrile
2	10-0704-130	LG1 Pawl	1	Stainless Steel	9	10-B214-701	B/up ring - Body / Inlet	1	Nitrile
1	10-0703-803	LG Nozzle Body	1	Aluminium alloy casting	8	10-0214-703	O-ring - Body / Inlet	1	Nitrile
ITEM	PART NO.	DESCRIPTION	R'Q.D.	MATERIAL	ITEM	PART NO.	DESCRIPTION	R'Q.D.	MATERIAL

D	Items re-sequenced. 10-0785-804 was separ. Dwg		PGS	PGS	19-12-10	D	10-0785-804	LG1 Nozzle body sub-assembly 1/2"	See BOM	See BOM
C	Material List updated.		JFT	PT	30-09-04		10-0819-804	LG1 Nozzle body sub-assembly 3/4"	See BOM	See BOM
B	Item(10) 10-0317-703 x2 was 10-0115-702 x1		JFT	JFT	02-06-96					
B	Item(2)10-0664-803 Pl Brass <= 10-0664-110 SV/St		JFT	JFT	02-06-96					
B	Latch pivot pin boss added.		JFT	JFT	02-06-96					
A	Back-up rings (9) & (11) added. Rednmn on CAD		JFT	JFT	23-11-94					
Orig	Supercedes Dwg R0691		JFT	JFT	14-12-91					
Rev	Change Detail		Drw	Ckd	Date					



**GASGUARD**

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**LG1 Nozzle**  
Drawn Scale 1:1 A3

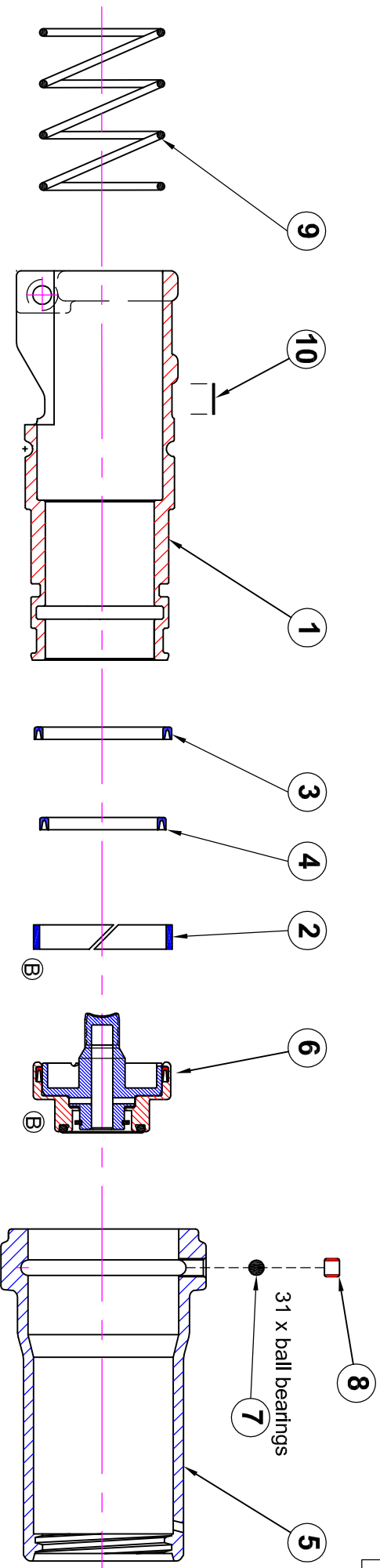
**BODY / INLET Assembly**  
Material Finish

**L.G. EQUIPMENT PTY. LTD.**  
SYDNEY, N.S.W. AUSTRALIA  
ABN 70 003 275 250

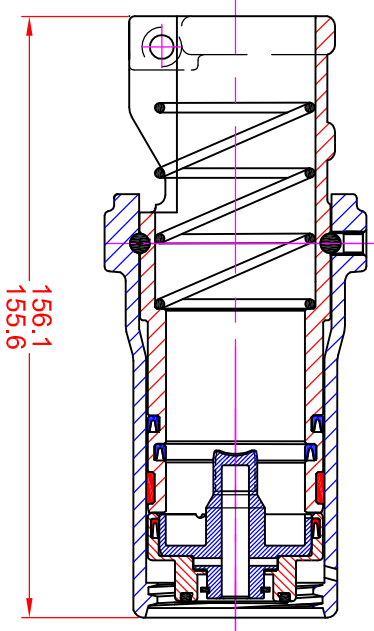
**X0819**

**D**

Drawing No. Revision




**FULL ASSEMBLY**

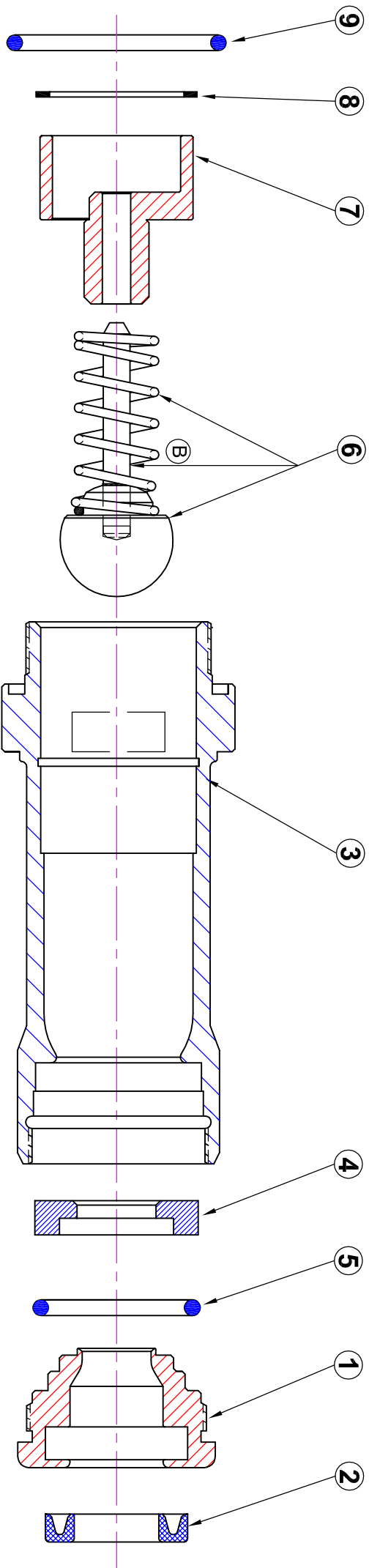


**BILL OF MATERIAL**

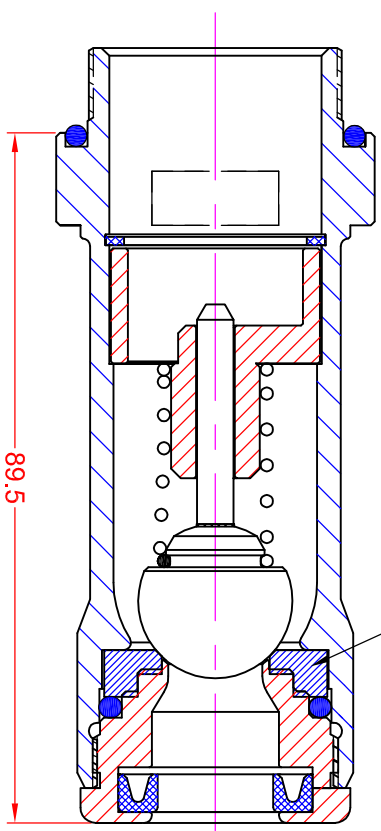
10	Decal - Model	10-0765-817	1	Label - plastic coated
9	Valve Body / Connector Spring	10-0595-400	1	Steel - plated
8	Ball Plug	10-0606-544	1	Stainless Steel
7	Ball Bearing	10-0500-603	31	Stainless Steel
6	LG1DN Nose Assembly (B)	LG6N	1	See B.O.M. for LG6N
5	LG1 ACME Connector	10-0854-803	1	Brass forging
4	Lip Seal Inner	10-0672-707	1	Polyurethane moulding
3	Lip Seal Outer	10-0674-707	1	Polyurethane moulding
2	Split Bearing (B)	10-0870-141	1	Acetal Moulding
1	LG1 Slide Sleeve	10-0740-803	1	Aluminium alloy casting
Item	Description	Part No.	R'q'd.	Material

Item	LG7N	Part No.	LG1DN Connector Assembly	Refer to Bill of Materials above	Material	Finish
		<p>PROPRIETARY: This document and its contents may not be used or reproduced in any manner without the written authorisation of L.G.EQUIPMENT Pty. Limited</p>		<p>LG1DN Nozzle</p> <p>Drawn Scale 1:2 A4</p>		<p>CONNECTOR Assembly</p>
<p><b>GASGUARD</b></p>		<p><b>L.G.EQUIPMENT PTY.LTD.</b></p> <p>SYDNEY, N.S.W. AUSTRALIA</p> <p>ABN 70 003 275 250</p>		<p><b>X0883</b></p> <p>Drawing No.</p>		<p><b>B</b></p> <p>Revision</p>

Rev	B	Split bearing added, LG6N now sub-assy	JFT	PNT	22-03-07
Rev		Change Detail	Drw	Ckd	Date



Tighten housing to compress seat evenly



**FULL ASSEMBLY**

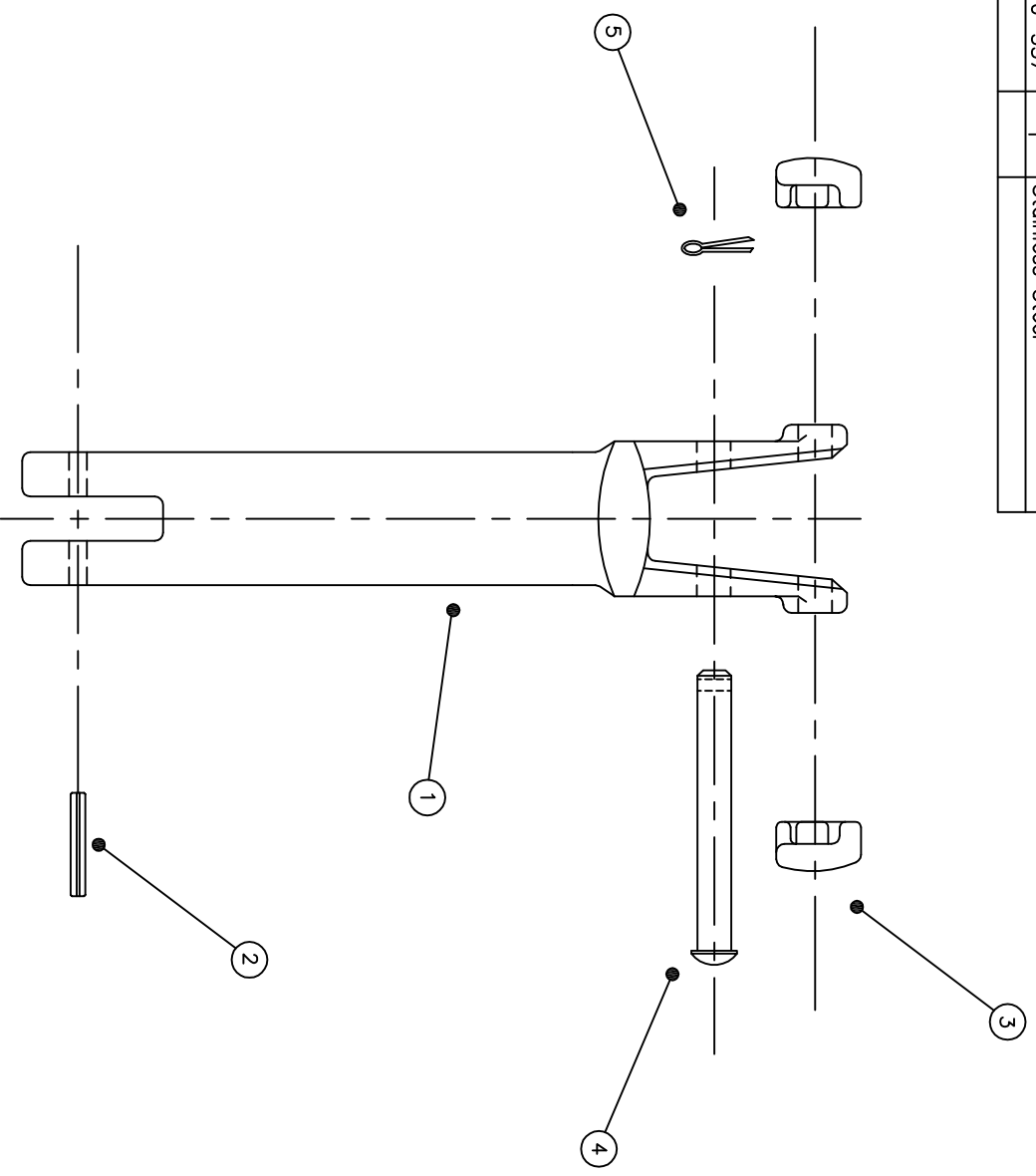
Item	Description	Part No.	R'q'd.	Material
9	O-ring Valve / Body	10-0124-703	1	L.T. Nitrile moulding
8	Spring Guide Circlip	10-0127-541	1	Steel
7	Valve Spring Guide	10-0835-141	1	Acetal moulding
6	Ball Valve, Guide/Spring Assem	10-0757-804	1	Stainless Steel/Steel - plated
5	Housing O-ring	10-0213-703	1	L.T. Nitrile moulding
4	DN Valve Seat	10-0840-711	1	Polyurethane moulding
3	LG1 Valve Body	10-0759-803	1	Steel - plated
2	LG U-cup Seal	10-PM50-705	1	Polyurethane moulding
1	LG DN U-cup Seal Housing	10-1064-110	1	Brass

**BILL OF MATERIAL**

Rev	Change Detail	Drw	Ckd	Date
B	Valve Ball Guide added to ball/spring assy	PGS	PT	26-10-09
B	Conn. spring 0593 removed. Items re-numbered	PGS	PT	26-10-09
A	Undated and re-drawn on CAD	JFT	JFT	01-10-04
Orig	Original	JT/PS	PNT	29-09-06

	Item	LG4N	Part No.	LG Dual Nose Valve Assembly	Description	See Bill of Materials above.	Material	Finish
	<small>PROPRIETARY: This document and its contents may not be used or reproduced in any manner without the written authorisation of L.G.EQUIPMENT Pty Limited</small>		<b>LG NOZZLE</b> Drawn Scale: 1:1 A4		<b>DUAL NOSE VALVE</b>			
<b>L.G.EQUIPMENT PTY.LTD.</b> SYDNEY, N.S.W. AUSTRALIA ABN 70 003 275 250			<b>X0881</b>			Drawing No. <b>B</b> Revision		

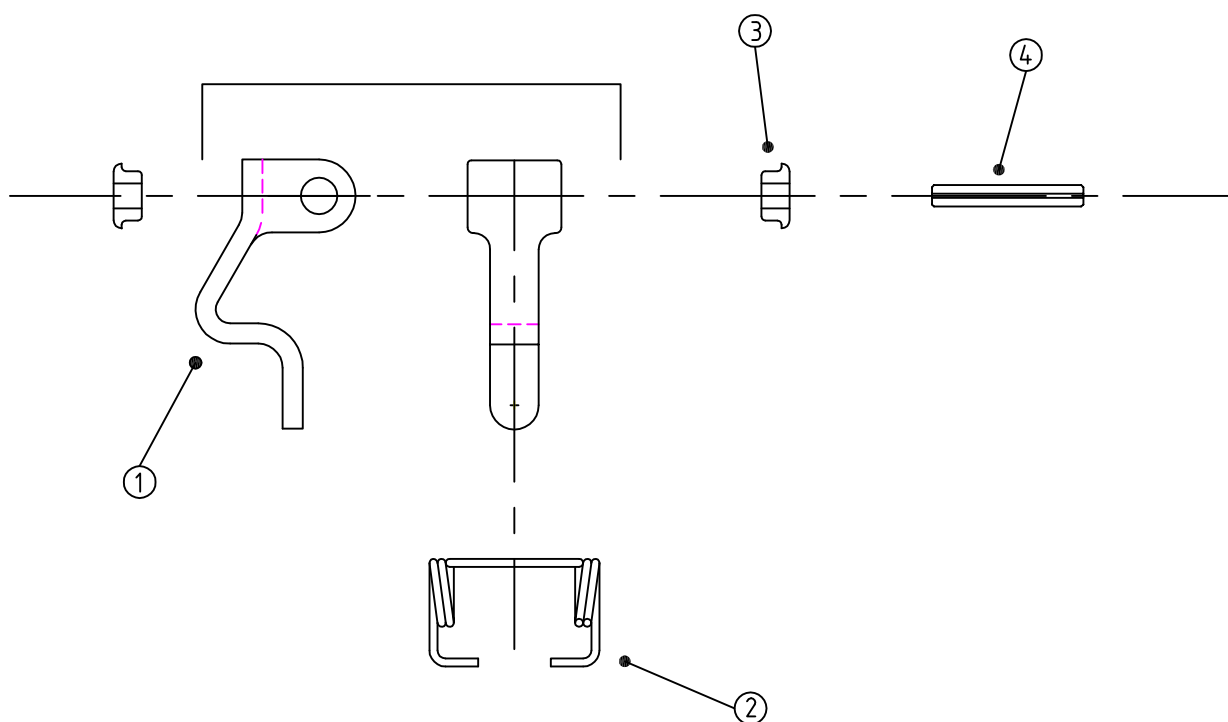
ITEM	DESCRIPTION	PART NO	REQ'D	MATERIAL
1	LEVER	10-0918-803	1	Brass - PVC Coated
2	LEVER LATCH PIN	10-0322-540	1	Spring Steel - plated
3	LEVER SLIPPERS	10-0917-141	2	Nylon
4	LEVER PIVOT PIN	10-0593-130	1	Stainless Steel
5	SPLIT PIN	10-0210-537	1	Stainless Steel



B	Pivot Pin Updated	26/11/04	PGS	
A	REDRAWN ON CAD	4/10/01	CNW	
REV	DETAIL	DATE	DRN	CKD

LEVER ASSEMBLY		LG5SL		SEE B.O.M.	
DESCRIPTION		PART No.		MATERIAL	
GASGUARD		CNW		DRAWING No.	
L. G. EQUIPMENT PTY. LTD.		DATE		X 0768	
		CHECKED		REV.	
		25/8/01		B	

ITEM	DESCRIPTION	PART NO	REQ'D	MATERIAL
1	Latch	10-0766-803	1	Stainless Steel
2	Latch Spring	10-0783-402	1	Stainless Steel
3	Alum Bush	10-0782-100	2	Aluminium alloy
4	Latch Pin	10-0322-540	1	Carbon steel - zinc plated
5	Decal - Latch Warning	10-0764-807	1	Self Adhesive Printed Decal



**Warning:** Please Release Lever Latch, if fitted, before disconnecting the Nozzle.

**NOTE:**  
This decal is sold with latch kits and to be applied to the slide sleeve of latched nozzles

A	Warning Label Added	PGS	PT	17-02-04
CHNG	DETAIL	DRWN	CHKD	DATE

LATCH ASSEMBLY		LG8		SEE B.O.M.	
SCALE	DESCRIPTION	PART No.	REQ'D	MATERIAL	
L. G. EQUIPMENT PTY. LTD.			DRAWN	CNW	DRAWING No.
L.P. GAS NOZZLE ASSEMBLY			DATE	25/9/01	REV.
			CHECKED		X0787
					<b>A</b>