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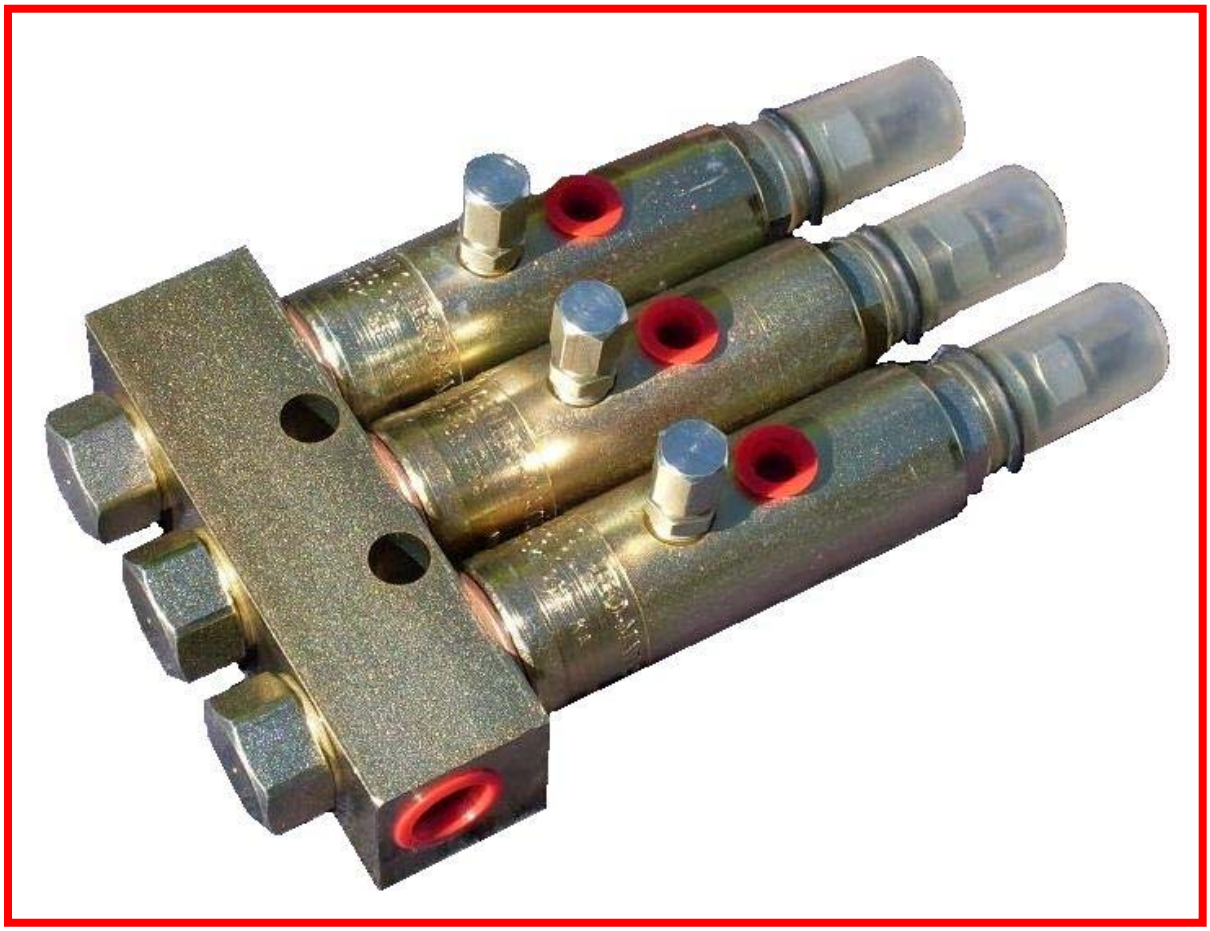
Easilube Product Manual

Manual Number: 06500639B **Manual Date: April 2013**

EASILUBE®

HYDEN199 Grease Injector

Fill → **Filter** → **Store** → **Pump** → **Distribute** **Monitor**



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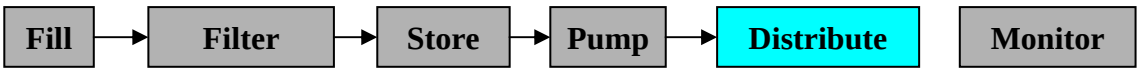
For further system information, please refer to **'Easilube Background, Installation and Commissioning'** and **'Easilube Diagnostics'** manuals



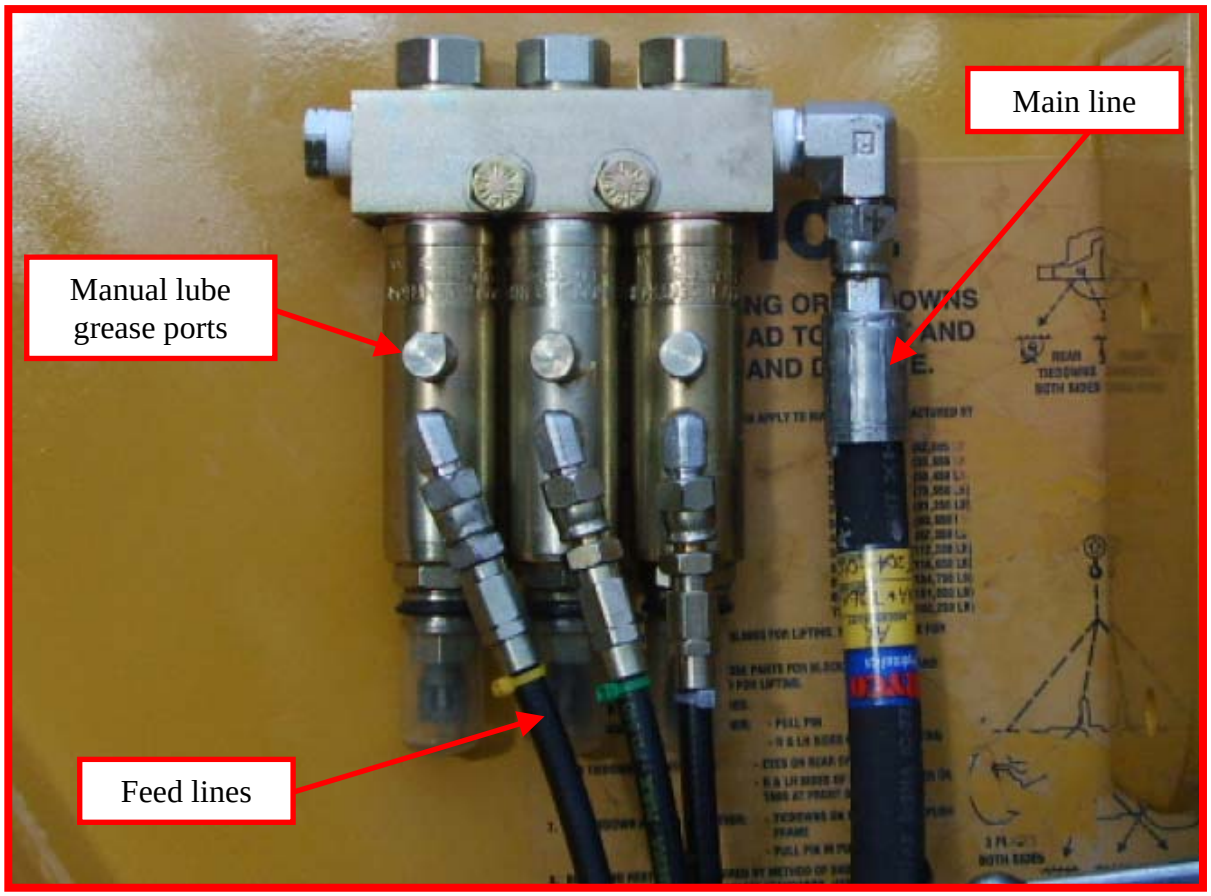
1. The HYDEN199 Grease Injector

1.1 General Description

The HYDEN199 is a grease injector for use in an Easilube automatic lubrication system. Available in banks of up to six, they operate on the rise and fall of main line pressure (created by a 'single-shot' pump such as the HYDEN500) and distribute individually set quantities of grease to each bearing feed line.

The HYDEN199 Grease Injector benefits from the following features:

- Accurate grease distribution to bearing points.
- Grease output between **0.131cc** and **1.31cc** per shot, individually adjustable at the each injector for each bearing output line.
- Operation between **1850-psi** and **3500-psi** supply pressure.
- High reset pressure of **600-psi**.
- Availability of individual units and banks of up to six units.
- Manual lubrication provision.



1.2 Options

- Single replacement injector, 1, 2, 3, 4, 5 and 6 injector banks

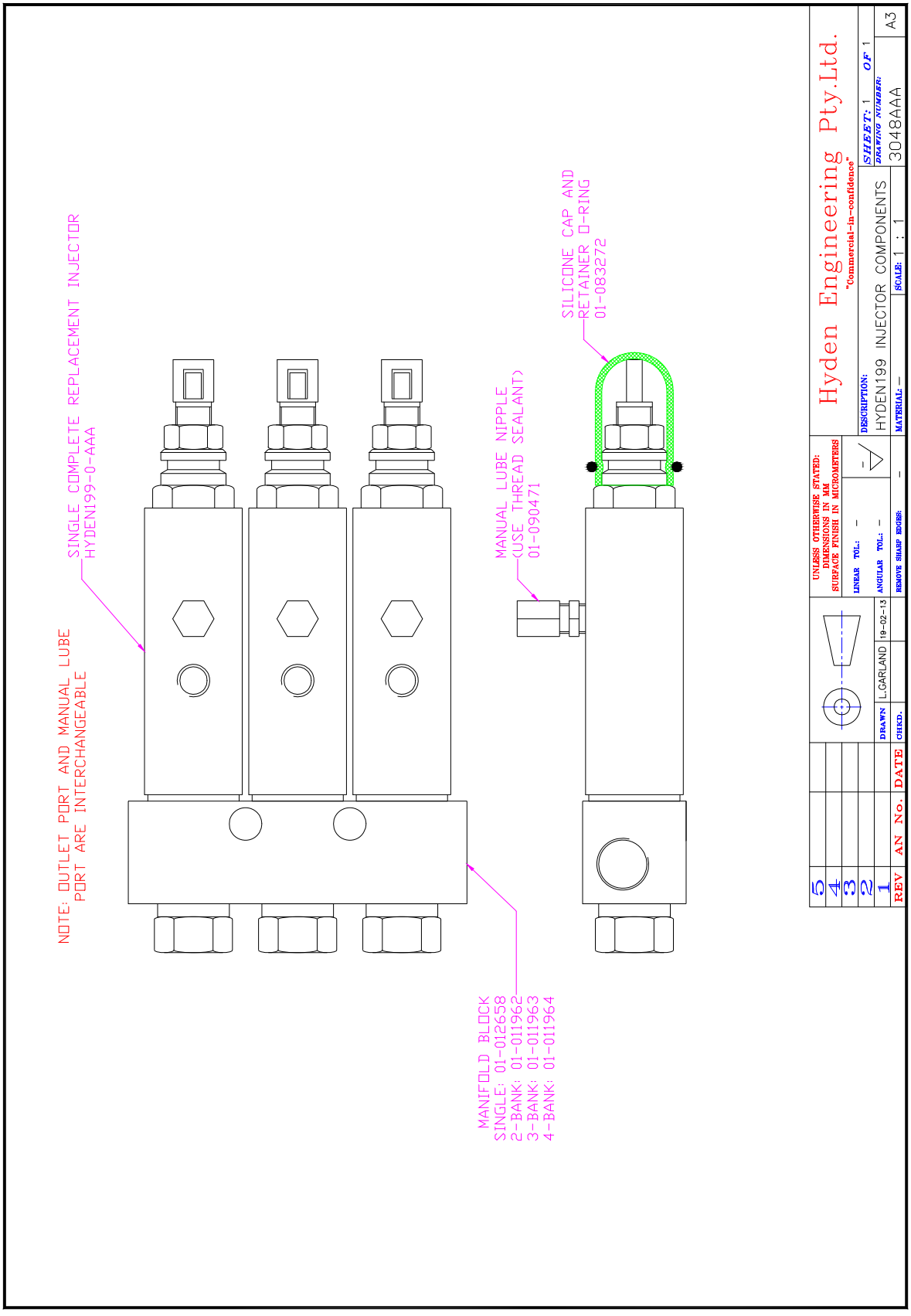
1.3 Ordering Code

HYDEN199-	0	-XXX
Product No		
Bank Size		
Single Replacement Injector	**0**	
1 Bank	**1**	
2 Bank	**2**	
3 Bank	**3**	
4 Bank	**4**	
5 Bank	**5**	
6 Bank	**6**	
Design Code		
Design One		**XXX**

2 Product Details

2.1 Assembly and Part Numbers

Please contact Hyden Engineering for current prices and availability of components.



2.2 Operation

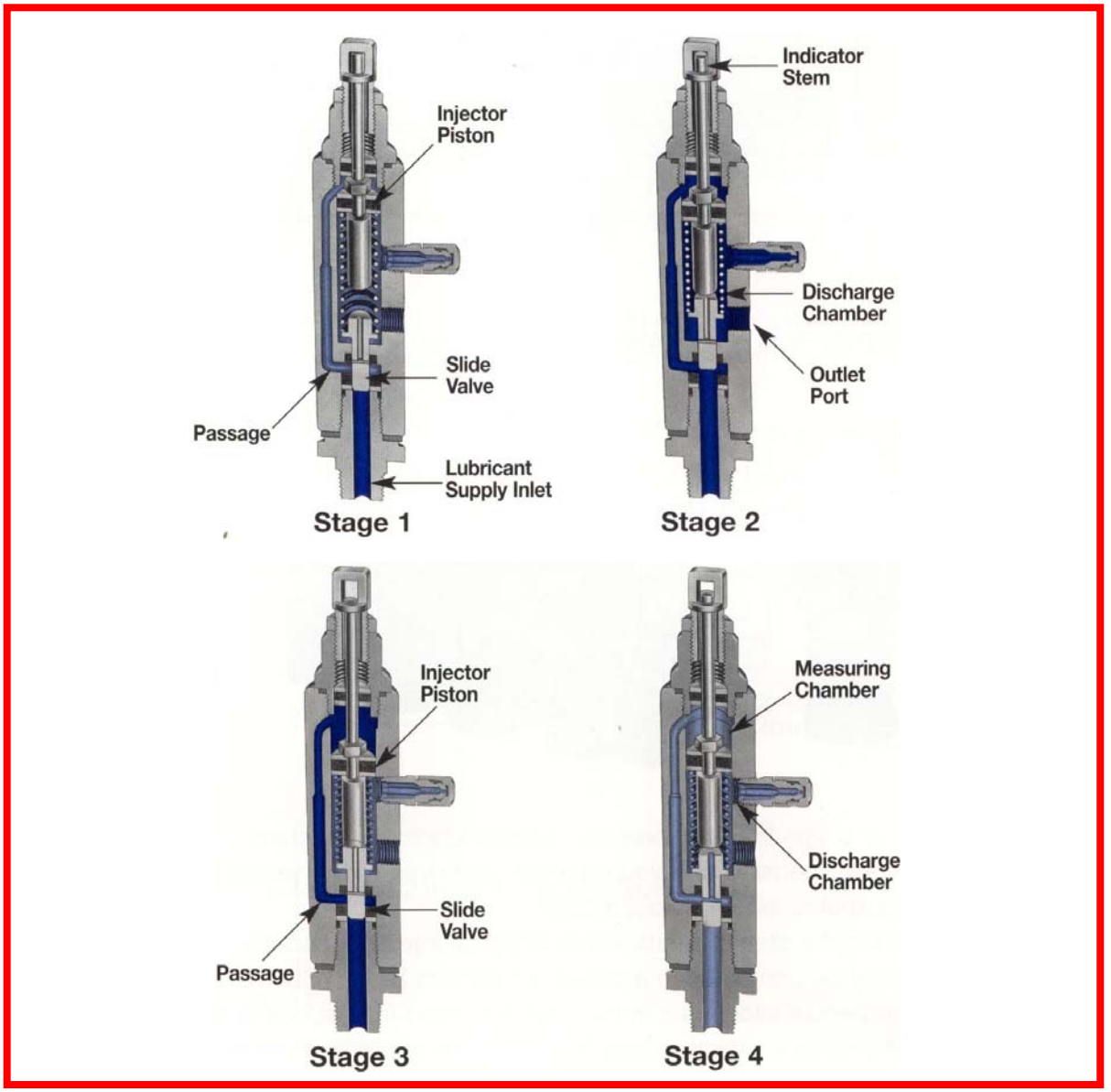
Stage 1) Grease pressure from the main line enters the injector via the *lubricant supply inlet* forcing the *slide valve* to seat on the *ported spring seat*.

Stage 2) As the *slide valve* and *ported spring seat* lift incoming grease flows through the *passage* to the top side of the *injector piston.*

Stage 3) As the incoming grease pressure forces the *injector piston* down in the *measuring chamber* the pre-charge of lubricant in the *discharge chamber* is displaced to the feed line via the *outlet port*.

Stage 4) When the grease main line pressure is vented (pump reset) the spring will force the *ported spring seat* and *slide valve* to lower and the *injector piston* to rise. Once the *slide valve* is unseated, the rising *injector piston* will cause the grease contained in the *measuring chamber* to move down through the *passage* and up into the *discharge chamber.* The injector is now fully reset ready for the next cycle.

Note: Injector operation may be checked by removing the dust cap and observing movement of the *indicator stem* whilst the grease pump is actuated.



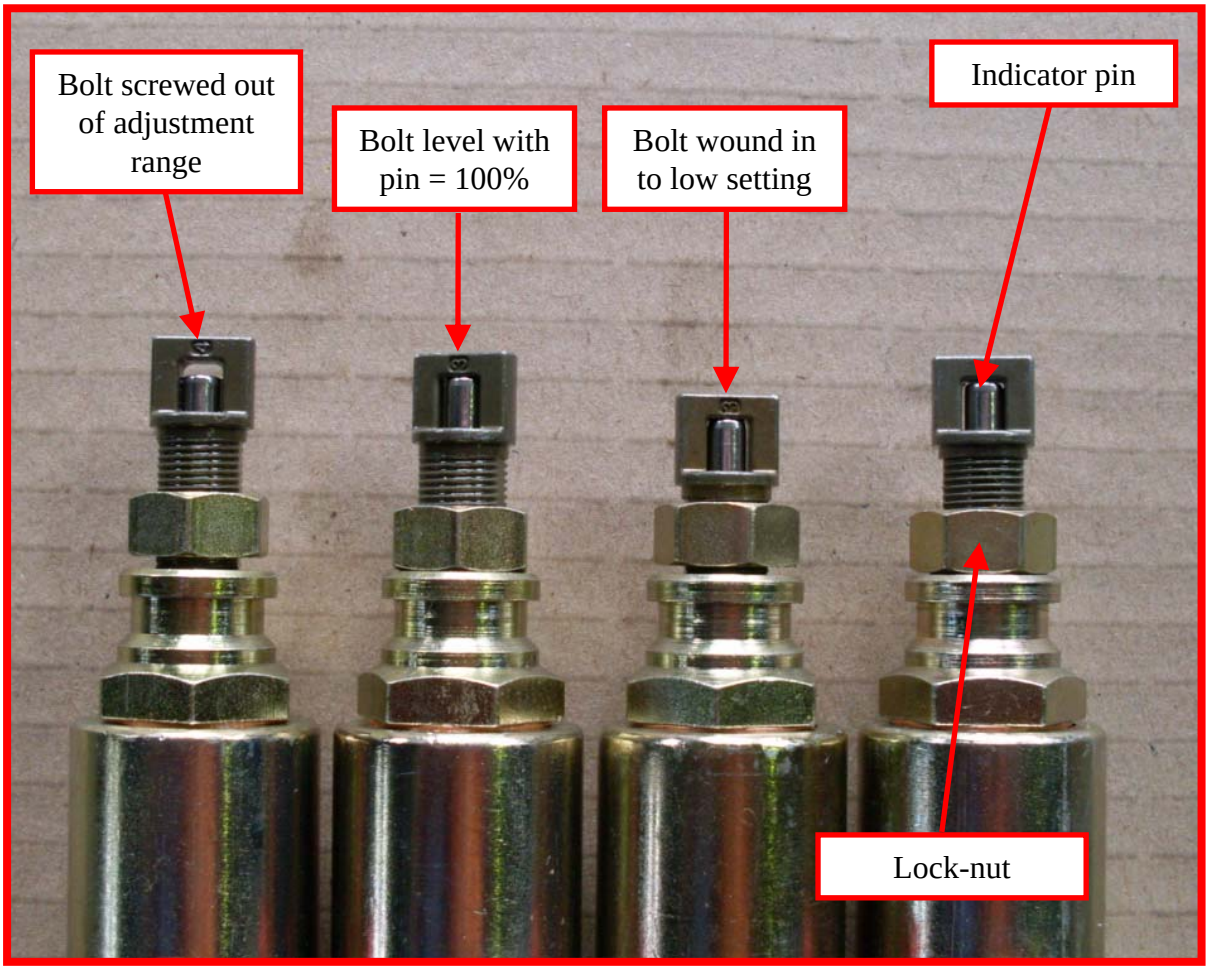
2.3 Adjustment

The injectors may be adjusted by turning the indicator bolt clockwise from level with the indicator pin or to a position measured with an adjustment tool.

Number of turns from level and corresponding setting:

- Level = 100%
- 2 Full turns = 75%
- 3.5 Full turns = 60%
- 4 Full turns = 50%
- 6 Full turns = 25%

The following figure illustrates the adjusting nuts wound up to be level ('flush') with the top of the indicator pins.



2.4 Mounting Details

➢	1 Bank	One Hole	B = 63-mm
➢	2 Bank	One Hole	B = 76-mm
➢	3 Bank	A = 32-mm	B = 108-mm
➢	4 Bank	A = 63-mm	B = 140-mm
➢	5 Bank	A = 95-mm	B = 171-mm