



PNEUMATIC TORQUE WRENCH

Tools for every conceivable need.....

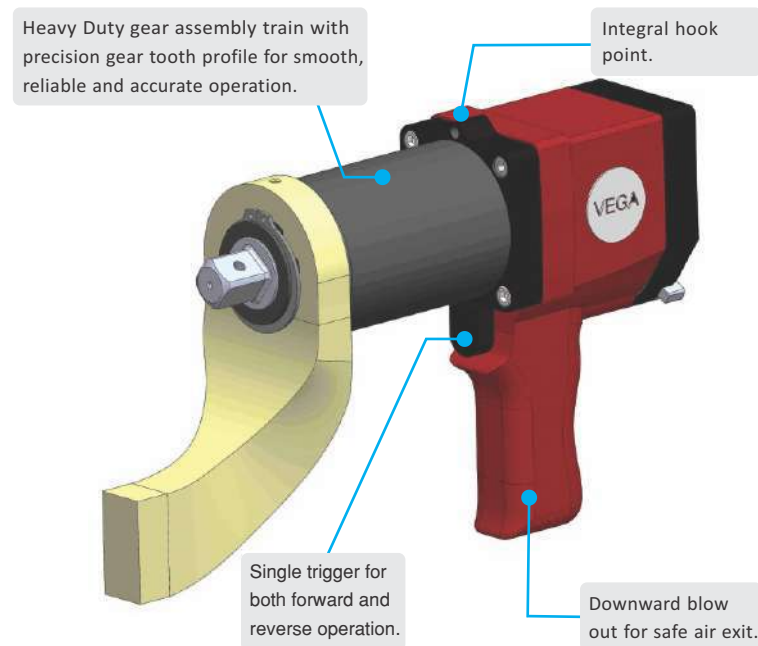
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VEGA SERIES

PNEUMATIC TORQUE WRENCHES

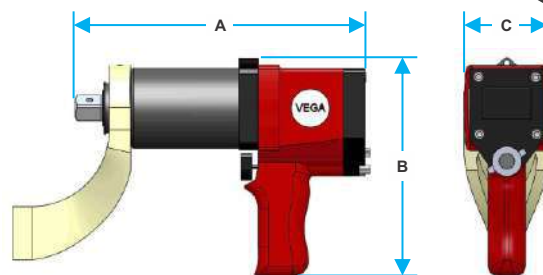
Torque Range 45 Nm to 9600 Nm (30 Lb.ft - 7102 Lb.ft)

A Pneumatic Torque Wrench is an air motor driven planetary gearbox with a very high reduction ratio. The gearbox is provisioned with a reaction arm to absorb the torque reaction. Unlike the impact wrench, a pneumatic torque wrench is driven by continuous gearing and hence has no noisy and hazardous hammering. This is why a pneumatic torque wrench has excellent accuracy and repeatability.



Technical Specification

| Model No. | Min. Torque | | Max. Torque | | Free Speed rpm | Square Drive inch | Weight with Reaction Arm Kg. |
|------------|-------------|------|-------------|------|-------------------|----------------------|------------------------------------|
| | Lb.ft | Nm | Lb.ft | Nm | | | |
| VEGA - 15 | 30 | 45 | 130 | 180 | 42 | 1/2 / 3/4 | 6.5 |
| VEGA - 50 | 125 | 170 | 500 | 680 | 25 | 3/4 | 7.5 |
| VEGA - 75 | 185 | 250 | 750 | 1020 | 15 | 3/4 / 1 | 7.5 |
| VEGA - 100 | 250 | 340 | 1040 | 1400 | 9 | 3/4 / 1 | 7.8 |
| VEGA - 200 | 560 | 750 | 2200 | 3000 | 6 | 1 / 1.1/2 | 10.5 |
| VEGA - 300 | 750 | 1010 | 3000 | 4050 | 3 | 1 / 1.1/2 | 13.5 |
| VEGA - 400 | 1000 | 1350 | 4000 | 5400 | 2.5 | 1.1/2 | 16.0 |
| VEGA - 500 | 1200 | 1650 | 4800 | 6500 | 2 | 1.1/2 | 17.0 |
| VEGA - 600 | 1630 | 2200 | 6000 | 8100 | 1.5 | 1.1/2 | 17.0 |
| VEGA - 900 | 1420 | 1950 | 7102 | 9600 | 1 | 1.1/2 | 19.8 |



| Model No. | A (mm) | B (mm) | C (mm) |
|------------|--------|--------|--------|
| VEGA - 15 | 260 | 205 | 85 |
| VEGA - 50 | 260 | 205 | 85 |
| VEGA - 75 | 260 | 205 | 85 |
| VEGA - 100 | 270 | 205 | 85 |
| VEGA - 200 | 320 | 240 | 102 |
| VEGA - 300 | 340 | 240 | 102 |
| VEGA - 400 | 350 | 240 | 109 |
| VEGA - 500 | 350 | 240 | 125 |
| VEGA - 600 | 350 | 240 | 125 |
| VEGA - 900 | 360 | 240 | 127 |

Features

- 1 LIGHT AND COMPACT** - Light and compact tool design, suitable for a variety of applications.
- 2 HEAVY DUTY GEARBOX** - Heavy duty gearbox with thrust bearing for low friction and longer operational life.
- 3 SINGLE TRIGGER** - Single trigger for both forward and reverse operations.
- 4 INTEGRAL HOOK POINT** - Integral hook to hook up a tool balancer or any other suspension method.
- 5 LOW NOISE LEVEL** - Low noise level with no vibration.
- 6 HIGH ACCURACY** - VEGA has an accuracy of more than $\pm 5\%$ with repeatability within a 2% variation.
- 7 CUSTOMISED REACTION ARM** - A wide range of standard and customized reaction arms are available as per the customer's requirement.
- 8 WHEEL EXTENSION** - A variety of wheel extensions are available for deep reach, where the tool clearance is a problem.
- 9 ACCESSORIES** - Accessories like universal sockets, universal joints and thin wall sockets are available.



Significant Advantages

- A Pneumatic motors offers a cleaner and tidier work environment.
- The Combination of Air motor and the planetary gear guarantees, a much faster, safer, and more economical operation.

▼ VEGA-50 is used where speed, power, accuracy are required.



FRL UNIT

AIR OPERATED FRL UNIT

Pressure Range 0 psi to 150 psi

The FRL Unit is used to regulate the air pressure and properly lubricate the air motor for a longer life of the tool. The Regulator regulates the inlet air pressure and controls the output torque of the pneumatic torque wrench.

All pneumatic tools must be used with an FRL Unit.

It is strongly advised not to exceed the maximum operating pressure as specified in the individual tool certificate.

A Pressure Regulating Knob is provided with a safety lock to easily set the pressure.



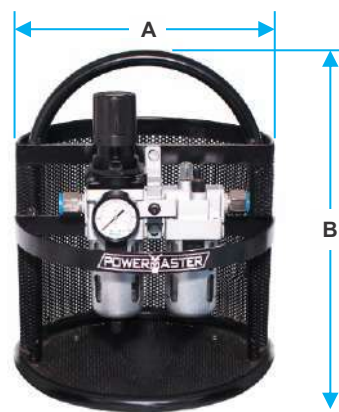
Calibrated 0 - 150 psi pressure gauge for perfect torque output.

Easy push type manual drain to clear the water dispenser.

Strong Handy Metallic Cage.

Technical Specification

| FRL UNIT | |
|-----------------------------|---------------------------------|
| Adaptor Size | 1/2" BSP |
| Element | Sinter, Bronze (25 micron) |
| Bowl Capacity | 150 ml |
| Bowl Guard | Steel |
| Pressure Gauge | 0 - 150 psi |
| Diaphragms and Seals | Nitrile |
| Recommended Oil | ISO VG 32 |
| Media (inlet air) | Compressed Air |
| Hose | 3 mtrs. |
| Adaptor Size | 1/2" BSP |
| Metallic Handy and Portable | Wt. 6 Kg. of Complete Assembly. |



| Model No. | A (mm) | B (mm) |
|-----------|--------|--------|
| FRL Unit | 304 | 432 |

Features

- 1 METALLIC CAGE** - The Filter, Regulator, Lubricator, and Hose are mounted on a strong handy metallic cage.
- 2 CALIBRATED PRESSURE GAUGE** - Calibrated 0 - 150 psi pressure gauge for perfect torque output.
- 3 REGULATOR KNOB** - A Smooth operating regulator knob is provided with a safety lock for an easy pressure setting.
- 4 FINE ADJUSTMENT KNOB** - You can adjust the lubrication of the tool through the adjustment knob on the FRL.
- 5 MANUAL DRAIN** - Easy push type manual drain to clear the water dispenser.
- 6 SAFETY BOWL GUARD** - Steel bowl guard for double safety in case the glass bowl breaks.
- 7 EASY DETACHABLE BOWL** - Easily detachable bowl for replenishing the oil / cleaning.
- 8 QUICK CONNECT ADAPTORS** - FRL comes fitted with quick connect adaptors for easy connection to Tool.



Pre-Usage Checks

- The air supply hose connection must be of a minimum 1/2" to allow adequate air flow to the tool.
- Air supply must be 90psi @ 30cfm minimum.
- On receipt / before usage: Inspect that all the FRL components are intact.
- Check whether all the air connections are intact and leak proof.
- Check oil level in lubricator reservoir. The reservoir should be filled to 2/3 of its maximum level.
- Drain the Filter reservoir before use.
- Drain the water from the filter reservoir daily depending upon the moisture content in your air line.

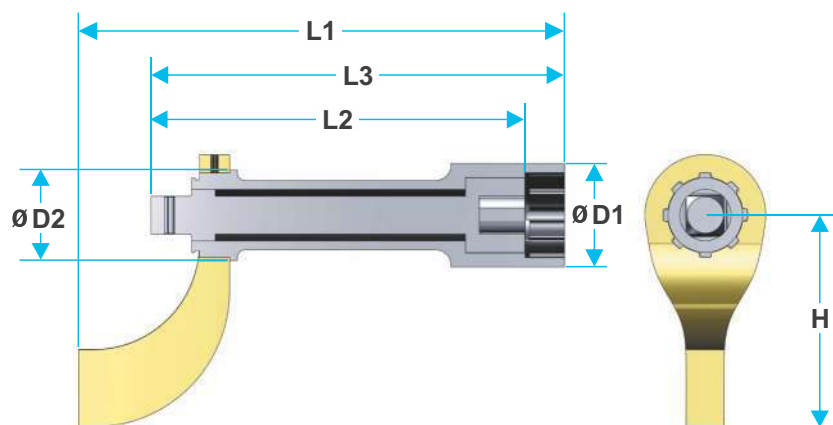
▼ FRL UNIT is used for precisely regulating air pressure.



ACCESSORIES

WHEEL EXTENSION

Wheel extensions are used to reach the wheel hub bolts and nuts, where fitment of the tool is not feasible. POWERMASTER has a complete range of wheel extensions as referred below:



Technical Specification

| Model No. | Sq. Drive | L1 | L2 | L3 | D1 | D2 | H |
|-----------|-----------|-----|-----|-----|----|----|-----|
| | inch | mm | mm | mm | mm | mm | mm |
| PE 1206 | 3/4 | 210 | 150 | 185 | 70 | 45 | 142 |
| PE 1208 | 3/4 | 260 | 200 | 235 | 70 | 45 | 142 |
| PE 1210 | 3/4 | 310 | 250 | 285 | 70 | 45 | 142 |
| PE 1608 | 1 | 265 | 200 | 235 | 70 | 52 | 142 |
| PE 1610 | 1 | 315 | 250 | 285 | 70 | 52 | 142 |
| PE 1608H | 1 | 265 | 200 | 235 | 90 | 60 | 168 |

REACTION ARM

Different types of reaction arms are available for a variety of applications. Customized reaction arms are available on request.



Blank Reaction



Double End Blank



Standard Reaction



Deep Reaction



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