

# AMETEK® Model HL Tester and HLG Gauge

- Accurate to ±0.05% of Indicated Reading
- Optional DADT Doubles Accuracy
- Multiple Ranges
  - 10 to 3000 PSIG
  - 100 to 22500 kPa
  - 1 to 225 Bar
  - 1 to 225 kg/cm<sup>2</sup>
- Interchangeable Weights
- Compact Design and Portability
  - Includes Compact Screw Pump with Ratchet Handle
- NIST Traceable

# PRODUCT DESCRIPTION

The AMETEK HYDRA-LITE Hydraulic Deadweight Tester is a primary standard that features a re-entrant type measuring piston and cylinder assembly that helps maintain accuracy as the test pressure increases. The HL Series tester is designed for rapid interchanging between high and low pistons and is NIST traceable and accurate to  $\pm 0.05\%$  using non-magnetic die-cast alloy or aluminum weights calibrated to international standard gravity at 980.665cm/sec². A compact screw pump with ratchet handle is easy-to-use.

The HL tester is self-regulating with accuracy independent of the operator. The tester's suspended weights feature a low center of gravity which reduces side thrust on the measuring piston and cylinder assembly.

TEFLON® seals on the pump piston reduce friction between the piston and bore and reduce maintenance requirements.

# Notes:

Guaranteed accuracy of any standard hydraulic deadweight pressure tester or deadweight gauge is  $\pm 0.1\%$  of output pressure traceable to NIST for gravity of 980.665cm/sec². Limitations due to decreasing sensitivity resulting primarily from friction make it difficult to reproduce accuracy at the low end of the tester range. Generally, deadweight testers are used only in the upper 90% of the range.

# **FUNCTIONAL SPECIFICATIONS**

# **Accuracy**

±0.1%, ±0.05% of indicated pressure traceable to US National Institute of Standards & Technology (NIST)

Test Fluid

AAA Tester Oil

**Maximum Operating Pressure** 

22,500 kPa (3,000 PSIG)

# Wetted Parts

Stainless steel, Brass ad Aluminum BUNA N O-rings and TEFLON backup rings

# PHYSICAL SPECIFICATIONS

# Connections

0.25 and 0.5-inch NPT

# Weight

25 - 45 lbs (11 - 20kg)

Shipping Dimensions (L x W xH)

9.0 x 9.0 x 10.0-inches (23.0 x 23.0 x 25.4cm)

# **OPTIONAL EQUIPMENT**

DADT Digital Converter



# MODEL HL HYDRAULIC DEADWEIGHT TESTER

# Order Number Description

Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

| HL-2<br>HL-2-1              | <ul> <li>0.1 PSI Minimum Increment, 0.05 Inch² Piston Area</li> <li>10 - 200 PSI, ±0.1% accuracy, Weight Set No. 1</li> <li>10 - 200 PSI, +0.05% accuracy, Weight Set No. 1</li> </ul>                     |
|-----------------------------|--|
| HL-4<br>HL-4-1              | 10 - 400 PSI, ±0.1% accuracy, Weight Set No. 2<br>10 - 400 PSI, +0.05% accuracy, Weight Set No. 2  |
| HL-6<br>HL-6-1              | 10 - 600 PSI, $\pm 0.1\%$ accuracy, Weight Set No. 3 10 - 600 PSI, $\pm 0.05\%$ accuracy, Weight Set No. 3   |
|                             |  |
|                             | 0.5 PSI Minimum Increment, 0.01 Inch <sup>2</sup> Piston Area  |
| HL-10                       | 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1  |
| HL-10<br>HL-10-1            | •  |
|                             | 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1  |
| HL-10-1                     | 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1 50 - 1000 PSI, +0.05% accuracy, Weight Set No. 1   |
| HL-10-1<br>HL-20            | 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1<br>50 - 1000 PSI, +0.05% accuracy, Weight Set No. 1<br>50 - 2000 PSI, ±0.1% accuracy, Weight Set No. 2   |
| HL-10-1<br>HL-20<br>HL-20-1 | 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1<br>50 - 1000 PSI, +0.05% accuracy, Weight Set No. 1<br>50 - 2000 PSI, ±0.1% accuracy, Weight Set No. 2<br>50 - 2000 PSI, +0.05% accuracy, Weight Set No. 2 |

# **NIST Certification Data**

/C Add suffix "/C" for optional NIST Traceable Calibration Data

# Sample Order Number

# HL-10-1/C

HL Deadweight Tester with a 50 - 1000 PSI range (0.5 PSI Minimum increment, 0.01inch2 piston area) supplied with NIST Data and protective carrying case

# Notes:

For low pressure applications (inches or cm H<sub>2</sub>O), the pneumatic tester is calibrated to give noted accuracies referenced to 20°C per ISA recommended practices. Calibration to 60°F per AGA standards is available on special order.



# AMETEK® DADT Deadweight Tester Digital Converter

The Model DADT Converter is a pre-programmed digital accessory which corrects for ambient conditions and inherent errors associated with any hydraulic or pneumatic deadweight tester applications- specific gravity of your location, masses of the weights, weight set buoyancy in the air which is effected by relative humidity and temperature effects. The instrument eliminates most measurement errors by calculating the NIST formula provided on Test III data. The Model DADT converter can automatically correct for these errors so that your hydraulic or pneumatic deadweight tester delivers an accuracy of ±0.0125% or better.

# Notes

For low pressure applications (inches or cm H<sub>2</sub>O), the pneumatic tester is calibrated to give noted accuracies referenced to 20°C per ISA recommended practices. Calibration to 60°F per AGA standards is available on special order.

# AMETEK® Model HLG Deadweight Gauge

- Accurate to ±0.05% of Indicated Reading
- Optional DADT Doubles Accuracy
- Multiple Ranges in PSI, kPa, kg/cm² and Bar
- ☐ Interchangeable Weights
- Compact Design and Portability
- Overhung Weight Carrier Improves Accuracy
- Positive Over-pressure Protection Prevents Piston Damage
- Converts Easily to a Deadweight Tester
- NIST Traceable



# PRODUCT DESCRIPTION

The AMETEK HYDRA-LITE HLG Gauge is a precision, portable instrument used to accurately measure pressure in field conditions. Standard accuracy is  $\pm 0.1\%$  of indicated pressure traceable to the U.S. National Institute of Standards and Technology (NIST). The instrument may also be specified with  $\pm 0.05\%$  accuracy. Accuracies can further be improved with the use of an optional DADT digital converter.

The HLG gauge is extremely portable with all components supplied in a protective carryng case. The entire unit, including case, is only 9.0 x 9.0 x 10-inches (22.9 x 22.9 x 25.4cm).

The instrument comes with interchangeable weights of hard, non-magnetic cast alloy, aluminum or stainless steel. Weights are suspended using an overhung weight carrier which lowers the center of gravity of the weights and reduces side thrust and friction on the measuring piston and cylinder assembly, thus improving measuriement accuracy. The measuring piston assembly features positive over-pressure protection so that the vertical movement of the measuring piston assembly is restricted by a piston cap. This positive stop will prevent the piston from damage due to accidental removal of the weights when pressurized.

# **FUNCTIONAL SPECIFICATIONS**

# **Accuracy**

±0.1%, ±0.05% of indicated pressure traceable to US National Institute of Standards & Technology (NIST)

# **Test Fluid**

AAA Tester Oil

# **Maximum Operating Pressure**

3,000 PSIG (22,500 kPa)

# **Wetted Parts**

Stainless steel, Brass and Aluminum BUNA N O-rings and TEFLON backup rings

# PHYSICAL SPECIFICATIONS

# Connections

0.25 and 0.5-inch NPT

# Weight

25 - 45 lbs (11 - 20kg)

# Shipping Dimensions (LxWxH)

9.0 x 9.0 x 10.0-inches (23.0 x 23.0 x 25.4cm)

# **OPTIONAL EQUIPMENT**

DADT Digital Converter

# **HYDRA-LITE HLG DEADWEIGHT GAUGE (PSI)**

# Order Number Description

Single Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

| 0.1 PSI   | Minimum   | Increment.      | 0.05 | Inch <sup>2</sup> | Piston  | Area |
|-----------|-----------|-----------------|------|-------------------|---------|------|
| U. I F 31 | willining | IIICI EIIIEIIL. | U.UJ | IIICII            | FISLUII | Alta |

|                  | 0.5 PSI Minimum Increment 0.01 Inch <sup>2</sup> Piston Area   |
|------------------|--|
| HLG-6            | 10 - 600 PSI, ±0.1% accuracy, Weight Set No. 3   |
| HLG-6-1          | 10 - 600 PSI, +0.05% accuracy, Weight Set No. 3  |
| HLG-4            | 10 - 400 PSI, ±0.1% accuracy, Weight Set No. 2   |
| HLG-4-1          | 10 - 400 PSI, +0.05% accuracy, Weight Set No. 2  |
| HLG-2<br>HLG-2-1 | 10 - 200 PSI, $\pm$ 0.1% accuracy, Weight Set No. 1 10 - 200 PSI, $\pm$ 0.05% accuracy, Weight Set No. 1 |

| HLG-10<br>HLG-10-1 | 0.5 PSI Minimum Increment, 0.01 Inch <sup>2</sup> Piston Area 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1 50 - 1000 PSI, +0.05% accuracy, Weight Set No. 1 |
|--------------------|--|
| HLG-20             | 50 - 2000 PSI, ±0.1% accuracy, Weight Set No. 2  |
| HLG-20-1           | 50 - 2000 PSI, +0.05% accuracy, Weight Set No. 2   |
| HLG-30             | 50 - 3000 PSI, ±0.1% accuracy, Weight Set No. 3  |
| HLG-30-1           | 50 - 3000 PSI, +0.05% accuracy, Weight Set No. 3   |

# **NIST Certification Data**

Add suffix "/C" for optional NIST Traceable Calibration Data /C

### HLG-20-1/C Sample Order Number

HLG Deadweight Gauge, 50 - 2000 PSI range (minimum 0.5 PSI increment), Alloy Weights, ±0.05% accuracy with NIST data

### Order Number Description

Dual Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

# 0.1 and 0.5 PSI Minimum Increment, 0.01 and 0.05 Inch<sup>2</sup> Piston Area

1 2 3

| HLG-12<br>HLG-12-1 | 10 - 200 and 50 - 1000 PSI, ±0.1% accuracy, Weight Set No. 1<br>10 - 200 and 50 - 1000 PSI, +0.05% accuracy, Weight Set No. 1        |
|--------------------|--|
| HLG-24<br>HLG-24-1 | 10 - 400 and 50 - 2000 PSI, $\pm$ 0.1% accuracy, Weight Set No. 2 10 - 400 and 50 - 2000 PSI, $\pm$ 0.05% accuracy, Weight Set No. 2 |
| HLG-36<br>HLG-36-1 | 10 - 600 and 50 - 3000 PSI, $\pm$ 0.1% accuracy, Weight Set No. 3 10 - 600 and 50 - 3000 PSI, $\pm$ 0.05% accuracy, Weight Set No. 3 |

# **NIST Certification Data**

/C Add suffix "/C" for optional NIST Traceable Calibration Data

### HLG-12 Sample Order Number

HLG Deadweight Gauge, 10 - 200 and 50 - 1000 PSI range (minimum 0.01 and 0.5 PSI increment), Alloy Weights, +0.1% accuracy

# Weight Sets for Model HLG Gauge (PSI)

| _             |    |    |       | _       | -                  |        |     |     |
|---------------|----|----|-------|---------|--------------------|--------|-----|-----|
| Weight<br>Set |    | PS | per 0 | .1-inch | <sup>2</sup> Pisto | n Area | l   |     |
| Number        | .5 | 1  | 5     | 10      | 50                 | 200    | 500 | PSI |
| 1             | 1  | 4  | 1     | 5       | 3                  | 4      | 0   |     |
| 2             | 1  | 4  | 1     | 5       | 3                  | 4      | 2   | 1   |
| 3             | 1  | 4  | 1     | 5       | 3                  | 4      | 4   |     |

Number of weights in set.

|    | PSI | per 0 | .1-inch | <sup>2</sup> Pisto | n Area |     |   |
|----|-----|-------|---------|--------------------|--------|-----|---|
| .1 | .2  | 1     | 2       | 10                 | 40     | 100 | ₽ |
| 1  | 4   | 1     | 5       | 3                  | 4      | 0   |   |
| 1  | 4   | 1     | 5       | 3                  | 4      | 2   |   |
| 1  | 4   | 1     | 5       | 3                  | 4      | 4   |   |

Number of weights in set.

Note: Weight sets for PSI ranges are of hard, non-magnetic, zinc alloy.

# HYDRA-LITE HLG DEADWEIGHT GAUGE (kg/cm²)

# Order Number Description

Single Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

0.005 kg/cm<sup>2</sup> Minimum Increment, 0.05 Inch<sup>2</sup> Piston Area

HLG-15M 1 - 15 kg/cm², ±0.1% accuracy, Weight Set No. 1M HLG-15M-1 1 - 15 kg/cm², +0.05% accuracy, Weight Set No. 1M

 $\begin{array}{lll} \text{HLG-30M} & 1 \text{ - } 30 \text{ kg/cm}^2, \ \pm 0.1\% \text{ accuracy, Weight Set No. 2M} \\ \text{HLG-30M-1} & 1 \text{ - } 30 \text{ kg/cm}^2, \ \pm 0.05\% \text{ accuracy, Weight Set No. 2M} \\ \end{array}$ 

HLG-45M 1 - 45 kg/cm²,  $\pm$ 0.1% accuracy, Weight Set No. 3M HLG-45M-1 1 - 45 kg/cm²,  $\pm$ 0.05% accuracy, Weight Set No. 3M

0.025 kg/cm<sup>2</sup> Minimum Increment, 0.01 Inch<sup>2</sup> Piston Area

 $\begin{array}{lll} \text{HLG-75M} & 5 - 75 \text{ kg/cm}^2, \pm 0.1\% \text{ accuracy, Weight Set No. 1M} \\ \text{HLG-75M-1} & 5 - 75 \text{ kg/cm}^2, \pm 0.05\% \text{ accuracy, Weight Set No. 1M} \\ \text{HLG-150M} & 5 - 150 \text{ kg/cm}^2, \pm 0.1\% \text{ accuracy, Weight Set No. 2M} \\ \end{array}$ 

HLG-150M-1 5 - 150 kg/cm², +0.05% accuracy, Weight Set No. 2M HLG-225M 5 - 225 kg/cm², ±0.1% accuracy, Weight Set No. 3M

HLG-225M 5 - 225 kg/cm², ±0.1% accuracy, Weight Set No. 3M HLG-225M-1 5 - 225 kg/cm², +0.05% accuracy, Weight Set No. 3M

# **NIST Certification Data**

/C Add suffix "/C" for optional NIST Traceable Calibration Data

# HLG-150M-1/C Sample Order Number

HLG Deadweight Gauge, 5 - 150 kg/cm² range (minimum 0.025 kg/cm² increment), Stainless Steel Weights,  $\pm 0.05\%$  accuracy with NIST data

# Order Number Description

Dual Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

0.005 and 0.025 kg/cm<sup>2</sup> Minimum Increment, 0.01 and 0.05 Inch<sup>2</sup> Piston Area

 $\begin{array}{lll} \text{HLG-90M} & 1\text{ - 15 and 5 - 75 kg/cm}^2, \pm 0.1\% \text{ accuracy, Weight Set No. 1M} \\ \text{HLG-90M-1} & 1\text{ - 15 and 5 - 75 kg/cm}^2, +0.05\% \text{ accuracy, Weight Set No. 1M} \\ \end{array}$ 

HLG-180M 1 - 30 and 50 - 150 kg/cm², ±0.1% accuracy, Weight Set No. 2M 1 - 30 and 50 - 150 kg/cm², +0.05% accuracy, Weight Set No. 2M

HLG-270M 1 - 45 and 5 - 225 kg/cm², ±0.1% accuracy, Weight Set No. 3M HLG-270M-1 1 - 45 and 5 - 225 kg/cm², +0.05% accuracy, Weight Set No. 3M

# **NIST Certification Data**

/C Add suffix "/C" for optional NIST Traceable Calibration Data

# HLG-90M Sample Order Number

HLG Deadweight Gauge, 1 - 15 and 5 - 75 kg/cm² range (minimum 0.005 and 0.025 kg/cm² increment), Stainless Steel Weights,  $\pm 0.1\%$  accuracy

# Weight Sets for Model HLG Gauge (kg/cm²)

Weight kg/cm² per 0.1-inch² Piston Area .025 .05 50 Number 1 5 2 1 M 1 M 1 4 4 1 2 M 1 5 1 1 4 4 5 1 2 M 5 3 M 1 1 1 4 4 8 1 3 M

Number of weights in set.

| kg/cm² per 0.1-inch² Piston Area |     |     |    |    |   |   |    |        |  |
|----------------------------------|-----|-----|----|----|---|---|----|--------|--|
| .005                             | .01 | .05 | .1 | .2 | 1 | 5 | 10 | kg/cm2 |  |
| 1                                | 5   | 1   | 1  | 4  | 4 | 2 | 1  |        |  |
| 1                                | 5   | 1   | 1  | 4  | 4 | 5 | 1  |        |  |
| 1                                | 5   | 1   | 1  | 4  | 4 | 8 | 1  |        |  |

Number of weights in set.

Note: Weight sets for kg/cm<sup>2</sup> ranges are stainless steel.

# HYDRA-LITE HLG DEADWEIGHT GAUGE (kPa)

# Order Number Description

Single Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

| 0.5 | kPa | Minimum | Increment. | 0.05 | Inch <sup>2</sup> | Piston | Area |
|-----|-----|---------|------------|------|-------------------|--------|------|
|     |     |         |            |      |                   |        |      |

HLG-1500N 100 - 1500 kPa, ±0.1% accuracy, Weight Set No. 1N HLG-1500N-1 100 - 1500 kPa, +0.05% accuracy, Weight Set No. 1N HLG-3000N 100 - 300 kPa, ±0.1% accuracy, Weight Set No. 2N HLG-3000N-1 100 - 3000 kPa, +0.05% accuracy, Weight Set No. 2N HLG-4500N 100 - 4500 kPa, ±0.1% accuracy, Weight Set No. 3N HLG-4500N-1 100 - 4500 kPa, +0.05% accuracy, Weight Set No. 3N 2.5 kPa Minimum Increment, 0.01 Inch2 Piston Area HLG-7500N 500 - 7500 kPa, ±0.1% accuracy, Weight Set No. 1N HLG-7500N-1 500 - 7500 kPa, +0.05% accuracy, Weight Set No. 1N HLG-15000N 500 - 15000 kPa, ±0.1% accuracy, Weight Set No. 2N HLG-15000N-1 500 - 15000 kPa, +0.05% accuracy, Weight Set No. 2N

HLG-22500N 500 - 22500 kPa, ±0.1% accuracy, Weight Set No. 3N HLG-22500N-1 500 - 22500 kPa, +0.05% accuracy, Weight Set No. 3N

# **NIST Certification Data**

/C Add suffix "/C" for optional NIST Traceable Calibration Data

# HLG-7500N-1/C Sample Order Number

HLG Deadweight Gauge, 500 - 7500 kPa range (minimum 2.5 kPa increment), Stainless Steel Weights, ±0.05% accuracy with NIST data

# Order Number Description

Dual Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

# 0.5 and 2.5 kPa Minimum Increment, 0.01 Inch2 Piston Area

HLG-9000N
HLG-9000N-1

100 - 1500 and 500 - 7500 kPa, ±0.1% accuracy, Weight Set No. 1N
100 - 1500 and 500 - 7500 kPa, +0.05% accuracy, Weight Set No. 1N

HLG-18000N
HLG-18000N-1

100 - 3000 and 500 - 15000 kPa, ±0.1% accuracy, Weight Set No. 2N
100 - 3000 and 500 - 15000 kPa, +0.05% accuracy, Weight Set No. 2N

HLG-27000N
HLG-27000N-1

100 - 4500 and 500 - 22500 kPa, ±0.1% accuracy, Weight Set No. 3N
100 - 4500 and 500 - 22500 kPa, +0.05% accuracy, Weight Set No. 3N

# **NIST Certification Data**

/C Add suffix "/C" for optional NIST Traceable Calibration Data

# HLG-27000N/C Sample Order Number

HLG Deadweight Gauge, 100 - 4500 and 500 - 22500 kPa range (minimum 0.5 and 2.5 kPa increment), Stainless Steel Weights,  $\pm 0.1\%$  accuracy with NIST data

# Weight Sets for Model HLG Gauge (kPa)

Weight Set Number 1N 2N

3N

| kPa per 0.5-inch <sup>2</sup> Piston Area |   |    |    |     |     |      |      |   |  |  |
|---|---|----|----|-----|-----|------|------|---|--|--|
| 2.5                                       | 5 | 25 | 50 | 100 | 500 | 2500 | 5000 | ╗ |  |  |
| 1   | 5 | 1  | 1  | 4   | 4   | 2    | 1    | ١ |  |  |
| 1   | 5 | 1  | 1  | 4   | 4   | 5    | 1    | ] |  |  |
| 1   | 5 | 1  | 1  | 4   | 4   | 8    | 1    | 7 |  |  |

2N 3N

1N

|     | kP | a per | 0.5-in | ich² P | iston | Area |      |    |
|-----|----|-------|--------|--------|-------|------|------|----|
| 0.5 | 1  | 5     | 10     | 20     | 100   | 500  | 1000 | י[ |
| 1   | 5  | 1     | 1      | 4      | 4     | 2    | 1    |    |
| 1   | 5  | 1     | 1      | 4      | 4     | 5    | 1    | 1  |
| 1   | 5  | 1     | 1      | 4      | 4     | 8    | 1    |    |

Number of weights in set.

Number of weights in set.

Note: Weight sets for kPa ranges are stainless steel.

HLG-15B

# HYDRA-LITE HLG DEADWEIGHT GAUGE (Bar)

# Order Number Description

Single Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

0.005 Bar Minimum Increment, 0.05 Inch<sup>2</sup> Piston Area

1 - 15 Bar, ±0.1% accuracy, Weight Set No. 1N HLG-30B 1 - 30 Bar, ±0.1% accuracy, Weight Set No. 2N

HLG-45B 1 - 45 Bar, ±0.1% accuracy, Weight Set No. 3N

0.025 Bar Minimum Increment, 0.01 Inch<sup>2</sup> Piston Area

HLG-75B 5 - 75 Bar, +0.1% accuracy, Weight Set No. 1N

HLG-150B 5 - 150 Bar, ±0.1% accuracy, Weight Set No. 2N

HLG-225B 5 - 225 Bar, ±0.1% accuracy, Weight Set No. 3N

**NIST Certification Data** 

/C Add suffix "/C" for optional NIST Traceable Calibration Data

HLG-7500N-1/C Sample Order Number

HLG Deadweight Gauge, 500 - 7500 kPa range (minimum 2.5 kPa increment),

Stainless Steel Weights, ±0.05% accuracy with NIST data

# Order Number Description

Dual Range, Accuracy and Weight Set Number (See Chart for Details on Weight Sets)

0.005 and 0.025 Bar Minimum Increment, 0.01 Inch<sup>2</sup> Piston Area

HLG-90B 1 - 15 and 5 - 75 Bar, ±0.1% accuracy, Weight Set No. 1N HLG-90B-1 1 - 15 and 5 - 75 Bar, +0.05% accuracy, Weight Set No. 1N

HLG-180B 1 - 30 and 5 - 150 Bar, ±0.1% accuracy, Weight Set No. 2N HLG-180B-1 1 - 30 and 5 - 150 Bar, +0.05% accuracy, Weight Set No. 2N

HLG-270B 1 - 45 and 5 - 225 Bar, ±0.1% accuracy, Weight Set No. 3N

**NIST Certification Data** 

/C Add suffix "/C" for optional NIST Traceable Calibration Data

HLG-180B-1/C Sample Order Number

HLG Deadweight Gauge, 1 - 30 and 5 - 150 Bar range (minimum 0.005 and 0.025 Bar

increment), Stainless Steel Weights, ±0.05% accuracy with NIST data

1N

2N

3N

# Weight Sets for Model HLG Gauge (Bar)

Weight kPa per 0.5-inch2 Piston Area Set kPa 100 500 2500 5000 50 2.5 Number 5 25 1N 1 4 2 1 4 1 2N 1 5 1 1 4 4 5 1 3N 1 5 1 4 8

Number of weights in set.

|     | kP | a per | 0.5-in | ich² P | iston | Area |      |
|-----|----|-------|--------|--------|-------|------|------|
| 0.5 | 1  | 5     | 10     | 20     | 100   | 500  | 1000 |
| 1   | 5  | 1     | 1      | 4      | 4     | 2    | 1    |
| 1   | 5  | 1     | 1      | 4      | 4     | 5    | 1    |
| 1   | 5  | 1     | 1      | 4      | 4     | 8    | 1    |

Number of weights in set.

Note: Weight sets for Bar ranges are stainless steel.



AMETEK is a leading global manufacturer of electrical and electromechanical products for niche markets. Listed on the New York Stock Exchange (AME) since 1930, AMETEK's annual sales are approaching \$1billion. Operations are in North America, Europe and Asia, with about one-third of sales to markets outside the United States.

Headquarters

8600 Somerset Drive Largo, Florida 33773 (727) 536-7831 Tel (800) 527-9999 Tel

Fax

Internet Addresses:

www.ametek.com

www.chatillon.com

(727) 539-6882

45 4816 8000 Tel Fax 45 4816 8080

AMETEK Denmark A/S

Gyderange 32-34 Post Office Box 30 DK-3450

Allerod Denmark

**AMETEK Precision** Instruments Europe GmbH

Rudolf-Diesel-Strasse 16 D-40670, Meerbusch

Germany

49 2159 9136 0 Tel

Fax 49 2159 9136 39 AMETEK Singapore Pvt. Ltd.

10 Ang Mo Kio Street 65 #05-12 TECHPOINT

Singapore 569059 65 484 2388 Tel Fax 65 481 6588

E-Mail aspl@ametek.com.sg

Information within this document is subject to change without notice.

> **ISO 9001 Manufacturer**

AMETEK is a registered trademark of AMETEK, Inc. TEFLON is a registered trademark of E.I. DuPont de Nemours & Company