



## AMETEK® Type T & R Deadweight Tester

- ☐ **Accurate to  $\pm 0.1\%$  of Indicated Reading**  
- Increase Accuracy to  $\pm 0.025\%$  using the  
Optional DADT Digital Converter
- ☐ **Hand Operated Hydraulic Pump Rapidly Builds Pressure**
- ☐ **Reentrant Measuring Piston and Cylinder Helps Maintain Accuracy**
- ☐ **Suspended Weights Have Low Center of Gravity**
- ☐ **Dual Piston Option Extends Pressure Measurement Range with Common Weight Set**
- ☐ **Single and Dual Column Versions**
- ☐ **NIST Traceable**

### PRODUCT DESCRIPTION

The AMETEK Type T & R Pneumatic Deadweight Testers are hydraulic primary standards used to calibrate pressure and differential pressure gauges, transmitters, transducers, recorders and controllers, and that can provide a reference pressure in process control applications. These testers feature a hand operated hydraulic pump with a manual dual volume control valve that delivers high volume to rapidly build pressure, or low volume for ease of pumping and a gradual approach to the point of calibration. These testers may be supplied with either single or dual columns. Special kits are available for converting a single column to a dual column.

Type T testers are for use with distilled H<sub>2</sub>O or fluids compatible with 300 Series stainless steel or Monel. These instruments are supplied with suspended weights of hard, non-magnetic die-cast alloy. Metric instruments feature stainless steel weights. Instruments also come with certificates and optional calibration data sheets. A metal protective case is also included, plus a standard set of tools for setup and adjustments.

Type R testers use AAA tester oil as the hydraulic fill fluid. These instruments feature suspended weights of a hard, non-magnetic die-cut alloy. Metric instruments feature stainless steel weights.

#### 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/sec<sup>2</sup>. 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.

Both instruments have a re-entrant type measuring piston and cylinder assembly which helps maintain accuracy as the test pressure increases. The piston/cylinder assembly is enclosed in a unique column design which helps ensure safe operation. Fine adjustment of the pressure is facilitated by a pressure vernier.

These instruments' suspended weights have a very low center of gravity that minimizes side thrust on the measuring piston and cylinder assembly.

The Type T & R tester have an optionally available dual piston which lets you interchange piston/cylinder assemblies to extend the pressure measurement range using the same weight sets. There is also an optional kit that converts the Type T & R testers into dual column testers allowing an easy way to change between low and high pressure calibration.

The standard accuracy for these testers is  $\pm 0.1\%$  of indicated pressure reading. Higher accuracy to  $\pm 0.025\%$  of indicated pressure reading is available. Calibration data is determined by cross floating against a laboratory standard traceable to U.S. National Institute of Standards and Technology (NIST). Pressure calibration of better than  $\pm 0.025\%$  of indicated pressure can be achieved using the optional DADT Digital Converter.

## FUNCTIONAL SPECIFICATIONS

### Accuracy

$\pm 0.1\%$  or  $\pm 0.025\%$  of indicated reading

### Maximum Operating Pressure

Type T Tester - 15,000 PSIG (100,000 kPa)

Type R Tester - 10,000 PSIG (70,000 kPa)



## 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  $\pm 0.0125\%$  or better.

## PHYSICAL SPECIFICATIONS

### Test Fluid

Type T Tester - distilled H<sub>2</sub>O or AAA Tester Oil

Type R Tester - AAA Tester Oil (Consult AMETEK for other possible test fluids)

### Wetted Parts

Type T Tester - 300 Series Stainless Steel and Monel

Type R Tester - Aluminum, 300 Series Stainless Steel, Carbon Steel, Brass and Monel

O-Rings - Buna N (Standard), Viton, EPT (Optional)

### Connections

Male and female union type 0.25 and 0.5-inch NPT, and 7/16-20UNF

### Reservoir Capacity

75-inches<sup>3</sup> (1.23 Liter)

### Weight

Tester and Carrying Case ..... 50 lbs (22.7 kg)

#### Weight Sets

Set No. 1 ..... 55 lbs (25 kg)

Set No. 2 ..... 110 lbs (50 kg)

Set No. 3 ..... 165 bs (75 kg)

### Overall Dimensions (L x W xH)

Tester ..... 31.25 x 9.0 x 19.75-inches  
(80.0 x 23.0 x 50.0 cm)

## ORDERING INFORMATION

### TYPE T OR TYPE R HYDRAULIC DEADWEIGHT TESTERS - Single Column SINGLE PISTON (PSIG Range)

#### Order Number Description

Base Number - 1st thru 3rd characters	
T-	Type T Deadweight Tester, Single Piston, Alloy Weight Set
TQ-	Type TQ Deadweight Tester, Single Piston, Forged Brass Weight Set
R-	Type R Deadweight Tester, Single Piston, Alloy Weight Set
RQ-	Type RQ Deadweight Tester, Single Piston, Forged Brass Weight Set
PSIG Range, Minimum Increment and Piston Area (Square Inches) - 4th thru 11th characters	
<b>5 PSI Minimum Increment, 0.1-Inch<sup>2</sup> Piston Area, Weight Set Number</b>	
5	10 - 500 PSI, Weight Set Number 1
10	10 - 1000 PSI, Weight Set Number 2
15	10 - 1500 PSI, Weight Set Number 3
<b>10 PSI Minimum Increment, 0.05-Inch<sup>2</sup> Piston Area, Weight Set Number</b>	
20	20 - 2000 PSI, Weight Set Number 2
30	20 - 3000 PSI, Weight Set Number 3
<b>25 PSI Minimum Increment, 0.02-Inch<sup>2</sup> Piston Area, Weight Set Number</b>	
55	50 - 5000 PSI, Weight Set Number 2
<b>50 PSI Minimum Increment, 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</b>	
110/TESTER	100 - 10000 PSI, Weight Set Number 2
155	100 - 15000 PSI, Weight Set Number 3 (Not Available with Type R or Type RQ Testers)
Local Gravity and $\pm 0.025\%$ Accuracy Options - 4th thru 11th characters	
-1	$\pm 0.025\%$ Accuracy
-L	For Local Gravity
-1L	For Local Gravity and $\pm 0.025\%$ Accuracy, includes NIST Data
<b>TQ-155-1L</b>	<b>Sample Order Number</b> Type TQ Deadweight Tester with a 100 - 15000 PSIG range (minimum increments- 50 PSI), Forged Brass Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with $\pm 0.025\%$ accuracy

### DUAL PISTON (PSIG Range)

#### Order Number Description

Base Number - 1st thru 3rd characters	
T-	Type T Deadweight Tester, Dual Piston, Alloy Weight Set
TQ-	Type TQ Deadweight Tester, Dual Piston, Forged Brass Weight Set
R-	Type R Deadweight Tester, Dual Piston, Alloy Weight Set
RQ-	Type RQ Deadweight Tester, Dual Piston, Forged Brass Weight Set
PSIG Range, Minimum Increment and Piston Area (Square Inches) - 4th thru 11th characters	
<b>5 PSI , 50 PSI Minimum Increments, 0.1 and 0.01-inch<sup>2</sup> Piston Area, Weight Set Number</b>	
50	10 - 500 and 100 - 5000 PSI, Weight Set Number 1
65	10 - 650 and 100 - 6500 PSI, SPECIAL Weight Set (Consult AMETEK)
100	10 - 1000 and 100 - 10000 PSI, Weight Set Number 2
130/TESTER	10 - 1300 and 100 - 13000 PSI, SPECIAL Weight Set (Consult AMETEK)(Type T and TQ only)
150/TESTER	10 - 1500 and 100 - 15000 PSI, Weight Set Number 3 (Type T and TQ only)
Local Gravity and $\pm 0.025\%$ Accuracy Options - 4th thru 11th characters	
-1	$\pm 0.025\%$ Accuracy
-L	For Local Gravity
-1L	For Local Gravity and $\pm 0.025\%$ Accuracy, includes NIST Data
<b>T-130/TESTER-1L</b>	<b>Sample Order Number</b> Type TQ Deadweight Tester with a 10 - 1300 and 100 - 13000 PSIG range (minimum increments- 5 and 50 PSI), Alloy Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with $\pm 0.025\%$ accuracy

## ORDERING INFORMATION

### TYPE T OR TYPE R HYDRAULIC DEADWEIGHT TESTERS - Single Column SINGLE PISTON (BAR Range)

Order Number	Description
	<b>Base Number</b>
TSQ-	Type T Deadweight Tester, Single Piston, Range in Bar, Stainless Steel Weight Set
RSQ-	Type R Deadweight Tester, Single Piston, Range in Bar, Stainless Steel Weight Set
	<b>BAR Range, Minimum Increment and Piston Area (Square Inches)</b> <b>0.5 Bar Minimum Increment, 0.1-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
40B-1	1 - 40 Bar, Weight Set Number 1NQ
70B-1	1 - 70 Bar, Weight Set Number 2NQ
100B-1	1 - 100 Bar, Weight Set Number 3NQ
	<b>1 Bar Minimum Increment, 0.05-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
200B-1	2 - 200 Bar, Weight Set Number 3NQ
	<b>5 Bar Minimum Increment, 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
400B-1	10 - 400 Bar, Weight Set Number 1NQ
700B-1	10 - 700 Bar, Weight Set Number 2NQ
1000B-1	10 - 1000 Bar, Weight Set Number 3 NQ (Not Available with Type RSQ Tester)
	<b>Local Gravity and <math>\pm 0.025\%</math> Accuracy Options</b>
-1	For $\pm 0.025\%$ Accuracy, includes NIST Data
-1L	For Local Gravity and $\pm 0.025\%$ Accuracy, includes NIST Data
<b>TSQ-200B-1-1</b>	<b>Sample Order Number</b> Type RSQ Deadweight Tester with a 2 - 200 Bar range (minimum increments- 5 Bar), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with $\pm 0.025\%$ accuracy

### DUAL PISTON (BAR Range)

Order Number	Description
	<b>Base Number</b>
TQD-	Type T Deadweight Tester, Single Piston, Range in Bar, Stainless Steel Weight Set
RQD-	Type R Deadweight Tester, Single Piston, Range in Bar, Stainless Steel Weight Set
	<b>BAR Range, Minimum Increment and Piston Area (Square Inches)</b> <b>0.5 and 5 Bar Minimum Increment, 0.1 and 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
400B	1 - 40 and 1 - 400 Bar, Weight Set Number 1NQ
700B	1 - 70 and 1 - 700 Bar, Weight Set Number 2NQ
1000B	1 - 100 and 10 - 1000 Bar, Weight Set Number 3NQ (TQD Tester only)
	<b>Local Gravity and <math>\pm 0.025\%</math> Accuracy Options</b>
-1	For $\pm 0.025\%$ Accuracy, includes NIST Data
-1L	For Local Gravity and $\pm 0.025\%$ Accuracy, includes NIST Data
<b>RQD-700B-1</b>	<b>Sample Order Number</b> Type RQD Deadweight Tester with a 10 - 700 Bar range (minimum increments- 5 Bar), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with a standard $\pm 0.1\%$ accuracy

## ORDERING INFORMATION

### TYPE T OR TYPE R HYDRAULIC DEADWEIGHT TESTERS - Single Column SINGLE PISTON (*kPa Range*)

Order Number	Description
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	<b>Base Number</b>
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TSQ-	Type T Deadweight Tester, Single Piston, Range in kPa, Stainless Steel Weight Set
RSQ-	Type R Deadweight Tester, Single Piston, Range in kPa, Stainless Steel Weight Set

	<b>kPa Range, Minimum Increment and Piston Area (Square Inches)</b>
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	<b>50 kPa Minimum Increment, 0.1-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
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4000N-1	100 - 4000 kPa, Weight Set Number 1NQ
7000N-1	100 - 7000 kPa, Weight Set Number 2NQ
10000N-1	100 - 10000 kPa, Weight Set Number 3NQ

	<b>500 kPa Minimum Increment, 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
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40000N-1	1000 - 40000 kPa, Weight Set Number 1NQ
70000N-1	1000 - 70000 kPa, Weight Set Number 2NQ
100000N-1	1000 - 100000 kPa, Weight Set Number 3NQ (Not Available with Type RSQ Tester)

	<b>Local Gravity and <math>\pm 0.025\%</math> Accuracy Options</b>
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-1	For $\pm 0.025\%$ Accuracy, includes NIST Data
-1L	For Local Gravity and $\pm 0.025\%$ Accuracy, includes NIST Data

<b>TSQ-200B-1-1</b>	
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	<b>Sample Order Number</b>
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	Type RSQ Deadweight Tester with a 2 - 200 Bar range (minimum increments- 5 Bar), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with $\pm 0.025\%$ accuracy
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### DUAL PISTON (*kPa Range*)

Order Number	Description
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	<b>Base Number</b>
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TQD-	Type T Deadweight Tester, Single Piston, Range in kPa, Stainless Steel Weight Set
RQD-	Type R Deadweight Tester, Single Piston, Range in kPa, Stainless Steel Weight Set

	<b>kPa Range, Minimum Increment and Piston Area (Square Inches)</b>
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	<b>50 and 500 kPa Minimum Increment, 0.1 and 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</b>
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40000N	100 - 4000 and 1000 - 40000 kPa, Weight Set Number 1NQ
70000N	100 - 7000 and 1000 - 70000 kPa, Weight Set Number 2NQ
100000N	100 - 10000 and 100 - 100000 kPa, Weight Set Number 3NQ (Not Available with Type RQD Tester)

	<b>Local Gravity and <math>\pm 0.025\%</math> Accuracy Options</b>
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-1	For $\pm 0.025\%$ Accuracy, includes NIST Data
-1L	For Local Gravity and $\pm 0.025\%$ Accuracy, includes NIST Data

<b>TSQ-200B-1-1</b>	
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	<b>Sample Order Number</b>
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	Type RSQ Deadweight Tester with a 2 - 200 Bar range (minimum increments- 5 Bar), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with $\pm 0.025\%$ accuracy
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## ORDERING INFORMATION

### TYPE T OR TYPE R HYDRAULIC DEADWEIGHT TESTERS - Single Column DUAL PISTON (*kg/cm<sup>2</sup> Range*)

Order Number	Description
	<b>Base Number</b>
TQD-	Type T Deadweight Tester, Dual Piston, Range in Bar, Stainless Steel Weight Set
RQD-	Type R Deadweight Tester, Dual Piston, Range in Bar, Stainless Steel Weight Set
	<b>kg/cm<sup>2</sup> Range, Minimum Increment and Piston Area (Square Inches)</b> <b><i>0.5 and 5.0 kg/cm<sup>2</sup> Minimum Increment, 0.1 and 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</i></b>
400M	1 - 40 and 10 - 400 kg/cm <sup>2</sup> , Weight Set Number 1NQ
700M	1 - 70 and 10 - 700 kg/cm <sup>2</sup> , Weight Set Number 2NQ
1000M	1 - 100 and 10 - 1000 kg/cm <sup>2</sup> , Weight Set Number 3NQ (Not Available with Type RQD Tester)
	<b>Local Gravity and ±0.025% Accuracy Options</b>
-1	For ±0.025% Accuracy, includes NIST Data
-L	For Local Gravity
-1L	For Local Gravity and ±0.025% Accuracy, includes NIST Data
<b>TQD-400M-1L</b>	<b>Sample Order Number</b> Type TQD Deadweight Tester with a 1 - 40 and 10 - 400 kg/cm <sup>2</sup> range (minimum increments- 0.5 and 5.0 kg/cm <sup>2</sup> ), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with ±0.025% accuracy



### TYPE T OR TYPE R HYDRAULIC DEADWEIGHT TESTERS - Dual Column DUAL PISTON (*PSI Range*)

Order Number	Description
	<b>Base Number</b>
DM-T-	Type T Deadweight Tester, Dual Column and Piston, Range in PSIG, Alloy Weight Set
DM-TQ-	Type TQ Deadweight Tester, Dual Column and Piston, Range in PSIG, Alloy Weight Set
DM-R-	Type R Deadweight Tester, Dual Column and Piston, Range in PSIG, Alloy Weight Set
DM-RQ-	Type R Deadweight Tester, Dual Column and Piston, Range in PSIG, Alloy Weight Set
	<b>PSIG Range, Minimum Increment and Piston Area (Square Inches)</b> <b><i>5 and 50 PSI Minimum Increment, 0.1 and 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</i></b>
50	10 - 500 and 100 - 5000 PSIG, Weight Set Number 1
100	10 - 1000 and 100 - 10000 PSIG, Weight Set Number 2
150	10 - 1500 and 100 - 15000 PSIG, Weight Set Number 3 (Available with Type DM-T and DM-TQ only)
	<b>Local Gravity and ±0.025% Accuracy Options</b>
-1	For ±0.025% Accuracy, includes NIST Data
-L	For Local Gravity
-1L	For Local Gravity and ±0.025% Accuracy, includes NIST Data
<b>DM-RQ-100-1</b>	<b>Sample Order Number</b> Type R Deadweight Tester with a 10 - 1000 and 100 - 10000 PSIG range (minimum increments- 5 and 50 PSIG), Alloy Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with ±0.025% accuracy

## ORDERING INFORMATION

### TYPE T OR TYPE R HYDRAULIC DEADWEIGHT TESTERS - Dual Column

#### DUAL PISTON (*kg/cm<sup>2</sup> Range*)

Order Number	Description
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	<b>Base Number</b>
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DM-TQ	Type T Deadweight Tester, Dual Column and Piston, Range in PSIG, Stainless Steel Weight Set
DM-RQ	Type R Deadweight Tester, Dual Column and Piston, Range in PSIG, Stainless Steel Weight Set

	<b>kg/cm<sup>2</sup> Range, Minimum Increment and Piston Area (Square Inches)</b>
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	<b><i>0.05 and 5.0 kg/cm<sup>2</sup> Minimum Increment, 0.1 and 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</i></b>
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400M	1 - 40 and 10 - 400 kg/cm <sup>2</sup> , Weight Set Number 1MQ
700M	1 - 70 and 10 - 700 kg/cm <sup>2</sup> ., Weight Set Number 2MQ
1000M	1 - 100 and 10 - 1000 kg/cm <sup>2</sup> ., Weight Set Number 3MQ (Not Available with Type DM-RQ Tester)

	<b>Local Gravity and ±0.025% Accuracy Options</b>
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-1	For ±0.025% Accuracy, includes NIST Data
-L	For Local Gravity
-1L	For Local Gravity and ±0.025% Accuracy, includes NIST Data

<b>DM-RQ-400M</b>	
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	<b>Sample Order Number</b>
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	Type R Deadweight Tester with a 1 - 40 and 10 - 400 kg/cm <sup>2</sup> range (minimum increments- 5 Bar), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with standard ±0.1% accuracy
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#### DUAL PISTON (*kPa Range*)

Order Number	Description
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	<b>Base Number</b>
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DM-TQ	Type T Deadweight Tester, Dual Column and Piston, Range in PSIG, Stainless Steel Weight Set
DM-RQ	Type R Deadweight Tester, Dual Column and Piston, Range in PSIG, Stainless Steel Weight Set

	<b>kPa Range, Minimum Increment and Piston Area (Square Inches)</b>
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	<b><i>50 and 500 kPa Minimum Increment, 0.1 and 0.01-Inch<sup>2</sup> Piston Area, Weight Set Number</i></b>
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4000N	100 - 4000 and 1000 - 40000 kPa, Weight Set Number 1NQ
7000N	100 - 7000 and 1000 - 70000 kPa, Weight Set Number 2NQ
10000N	100 - 10000 and 1000 - 100000 kPa, Weight Set Number 3NQ (Type DM-TQ Tester only)

	<b>Local Gravity and ±0.025% Accuracy Options</b>
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-1	For ±0.025% Accuracy, includes NIST Data
-L	For Local Gravity
-1L	For Local Gravity and ±0.025% Accuracy, includes NIST Data

<b>DM-TQ-4000N-1</b>	
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	<b>Sample Order Number</b>
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	Type T Deadweight Tester with a 100 - 4000 and 1000 - 40000 kPa range (minimum increments- 50 and 500 kPa), Stainless Steel Weight Set, with hydraulic pump, carrying case and tools, calibrated for local gravity and with standard ±0.1% accuracy
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## Weight Sets for Types T, R, TQ and RQ Testers

Number 1, 1Q	PSI per 0.1-inch <sup>2</sup> Piston Area				PSI	Cases 1
	5	20	95	100		
	4	4	1	3		
	PSI per 0.05-inch <sup>2</sup> Piston Area					
	10	40	190	200		
	4	4	1	3		
	PSI per 0.02-inch <sup>2</sup> Piston Area					
	25	100	475	500		
	4	4	1	3		
	PSI per 0.001-inch <sup>2</sup> Piston Area					
50	200	950	1000			
No. of weights	4	4	1	3		

Number 2, 2Q	PSI per 0.1-inch <sup>2</sup> Piston Area				PSI	2
	5	20	95	100		
	4	4	1	8		
	PSI per 0.05-inch <sup>2</sup> Piston Area					
	10	40	190	200		
	4	4	1	8		
	PSI per 0.02-inch <sup>2</sup> Piston Area					
	25	100	475	500		
	4	4	1	8		
	PSI per 0.001-inch <sup>2</sup> Piston Area					
50	200	950	1000			
No. of weights	4	4	1	8		

Number 3, 3Q	PSI per 0.1-inch <sup>2</sup> Piston Area				PSI	3
	5	20	95	100		
	4	4	1	13		
	PSI per 0.05-inch <sup>2</sup> Piston Area					
	10	40	190	200		
	4	4	1	13		
	PSI per 0.02-inch <sup>2</sup> Piston Area					
	25	100	475	500		
	4	4	1	13		
	PSI per 0.001-inch <sup>2</sup> Piston Area					
50	200	950	1000			
No. of weights	4	4	1	13		

## Weight Sets for Types T, R, TQ and RQ Testers

Number 1NQ	kPa per 0.1-inch <sup>2</sup> Piston Area				kg/cm <sup>2</sup>	Cases 1
	50	200	900	1000		
	4	4	1	2		
	kPa per 0.01-inch <sup>2</sup> Piston Area					
No. of weights	500	2000	9000	10000		
	4	4	1	2		

  

Number 2NQ	kPa per 0.1-inch <sup>2</sup> Piston Area				kg/cm <sup>2</sup>	2
	50	200	900	1000		
	4	4	1	5		
	kPa per 0.01-inch <sup>2</sup> Piston Area					
No. of weights	10	40	190	200		
	4	4	1	5		

  

Number 3NQ	kPa per 0.1-inch <sup>2</sup> Piston Area				kg/cm <sup>2</sup>	5
	5	20	95	100		
	4	4	1	8		
	kPa per 0.01-inch <sup>2</sup> Piston Area					
No. of weights	10	40	190	200		
	4	4	1	8		

  

Number 1MQ	kg/cm <sup>2</sup> per 0.1-inch <sup>2</sup> Piston Area				kg/cm <sup>2</sup>	Cases 1
	50	200	900	1000		
	4	4	1	2		
	kg/cm <sup>2</sup> per 0.01-inch <sup>2</sup> Piston Area					
No. of weights	500	2000	9000	10000		
	4	4	1	2		

  

Number 2MQ	kg/cm <sup>2</sup> per 0.1-inch <sup>2</sup> Piston Area				kg/cm <sup>2</sup>	2
	50	200	900	1000		
	4	4	1	5		
	kg/cm <sup>2</sup> per 0.01-inch <sup>2</sup> Piston Area					
No. of weights	10	40	190	200		
	4	4	1	5		

  

Number 3MQ	kg/cm <sup>2</sup> per 0.1-inch <sup>2</sup> Piston Area				kg/cm <sup>2</sup>	5
	5	20	95	100		
	4	4	1	8		
	kg/cm <sup>2</sup> per 0.01-inch <sup>2</sup> Piston Area					
No. of weights	10	40	190	200		
	4	4	1	8		



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 \$1 billion. Operations are in North America, Europe and Asia, with about one-third of sales to markets outside the United States.

*Information within this document is subject to change without notice.*

ISO 9001  
Manufacturer

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