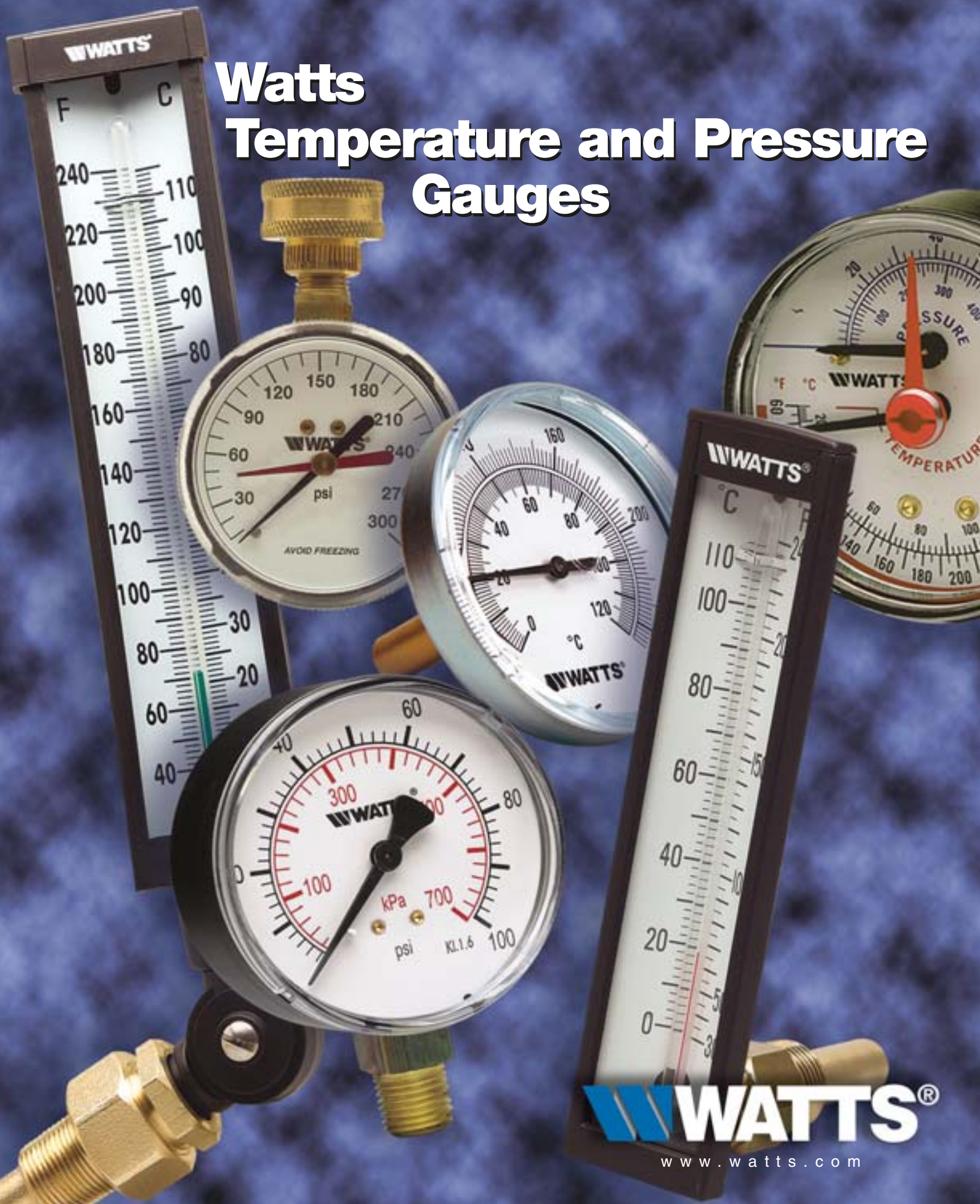


Watts Temperature and Pressure Gauges



WATTS®

www.watts.com

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Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Introduction

Watts is pleased to introduce our full line of temperature, pressure, and combination pressure/temperature gauges and accessories for HVAC applications. This selection of gauges will provide contractors with instruments that span the pressure testing and monitoring needs required by plumbing, heating, ventilation, and air conditioning applications in the home and in commercial and institutional buildings.

Quality

These high quality, precision measurement instruments are certified by The Northern Certification Society of Italy (Det Norske Verita Italia S.r.l.) and are manufactured to conform to the ISO 9002 quality standard. These gauges conform for ASME B40.100.

Safety

Watts gauges with copper alloy sensing elements are not suitable for applications involving highly corrosive fluids and high viscosity fluids that tend to crystallize. Please contact our technical service department if your applications involve interaction with oxygen or acetylene gases.

Specifications

When choosing a particular scale range, you need to consider the working pressure and the following criteria:

- steady or slow fluctuating pressure – pointer motion must not exceed 75% of the full scale value;
- pulsing or varying pressure – pointer motion must not exceed 65% of the full scale value;
- sudden pressure surges must never exceed the full scale value.

Gauges used in applications involving gaseous fluids over 362psi (25 bars) and dry gauges of $3\frac{15}{16}$ " and $5\frac{7}{8}$ " (100 and 150mm) using a Bourdon tube mechanism should not be ordered without contacting our technical service group.

All specifications of these instruments are based on "normal" working conditions, based on ISO 1 standard. To function properly, all of these instruments must be mounted in an upright position, +/- 5%, and should not be exposed to outdoor weather conditions.



Pressure Gauges

Series DPG1

2", 2½", 3", 4" Bottom Entry Pressure Gauges

Dial Sizes: 2", 2½", 3", 4"

Type: Bottom Entry

Case: ABS polymer

Window: Kostil polymer

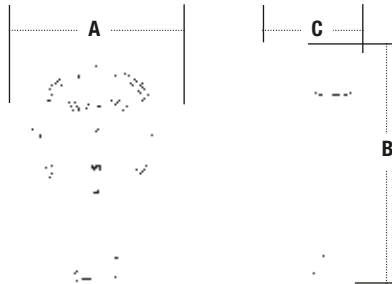
Connection: ¼" NPT

Accuracy: ASME Type "B"

Sensing Element: Copper Alloy Bourdon Tube

Welding: Tin Alloy

Working Temperature: -4°F to 176°F (-20°C to 80°C)



DPG1

Scale, Dimensions and Weights Table

MODEL	SCALE		ORDERING CODE	SIZE (DN)		DIMENSIONS						WEIGHT	
				in.	mm	A		B		C			
						in.	mm	in.	mm	in.	mm	lbs.	kgs.
DPG1-2	0 – 15psi	103 kPa	0615600	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2	0 – 30psi	207 kPa	0615601	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2	0 – 60psi	413 kPa	0615602	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2	0 – 100psi	689 kPa	0615603	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2	0 – 160psi	1103 kPa	0615604	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2	0 – 200psi	1379 kPa	0615605	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2	0 – 300psi	2069 kPa	0615606	¼	8	2	50	2 ¹³ / ₁₆	72	1 ¹ / ₁₆	28	.2	0.09
DPG1-2½"	0 - 15psi	103 kPa	0615607	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-2½"	0 - 30psi	207 kPa	0615608	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-2½"	0 – 60psi	413 kPa	0615609	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-2½"	0 – 100psi	689 kPa	0615610	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-2½"	0 – 160psi	1103 kPa	0615611	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-2½"	0 – 200psi	1379 kPa	0615612	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-2½"	0 – 300psi	2069 kPa	0615613	¼	8	2½	63	3 ⁵ / ₁₆	85	1⅝	28	.3	0.14
DPG1-3	0 – 15psi	103 kPa	0615614	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-3	0 – 30psi	207 kPa	0615615	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-3	0 – 60psi	413 kPa	0615616	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-3	0 – 100psi	689 kPa	0615617	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-3	0 – 160psi	1103 kPa	0615618	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-3	0 – 200psi	1379 kPa	0615619	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-3	0 – 300psi	2069 kPa	0615620	¼	8	3	80	3 ⁷ / ₈	99	1⅝	29	.4	0.18
DPG1-4	0 – 15psi	103 kPa	0615621	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 30psi	207 kPa	0615622	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 60psi	413 kPa	0615623	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 100psi	689 kPa	0615624	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 160psi	1103 kPa	0615625	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 200psi	1379 kPa	0615626	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 300psi	2069 kPa	0615627	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 600psi	4137 kPa	0615628	¼	8	4	100	4¾	120	1¼	31	.5	0.23
DPG1-4	0 – 1000psi	6895 kPa	0615629	¼	8	4	100	4¾	120	1¼	31	.5	0.23

Pressure Gauges

Series DPG3

1½", 2", 2½", 3" Center Back Entry Pressure Gauges

Dial Sizes: 1½", 2", 2½", 3"

Type: Center Back Entry

Case: ABS polymer

Window: Kostil polymer

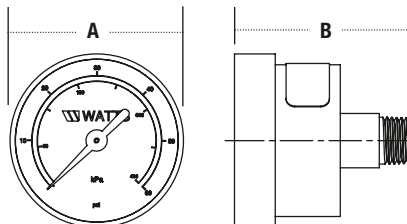
Connection: ⅛", ¼" NPT

Accuracy: ASME Type "B"

Sensing Element: Copper Alloy Bourdon Tube

Welding: Tin Alloy

Working Temperature: -4°F to 176°F (-20°C to 80°C)



DPG3

Scale, Dimensions and Weights Table

MODEL	SCALE		ORDERING CODE	SIZE (DN)		DIMENSIONS				WEIGHT	
						A		B			
				<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>
DPG3-1½	0 – 60psi	413 kPa	0615721	⅞	3	1½	38	1 ⁹ / ₁₆	40	.1	.05
DPG3-1½	0 – 160psi	1103 kPa	0615722	⅞	3	1½	38	1 ⁹ / ₁₆	40	.1	.05
DPG3-2	0 – 15psi	103 kPa	0615700	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2	0 – 30psi	207 kPa	0615701	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2	0 – 60psi	413 kPa	0615702	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2	0 – 100psi	689 kPa	0615703	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2	0 – 160psi	1103 kPa	0615704	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2	0 – 200psi	1379 kPa	0615705	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2	0 – 300psi	2069 kPa	0615706	¼	8	2	50	1 ¹⁵ / ₁₆	49	.2	.09
DPG3-2½	0 – 15psi	103 kPa	0615707	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-2½	0 – 30psi	207 kPa	0615708	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-2½	0 – 60psi	413 kPa	0615709	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-2½	0 – 100psi	689 kPa	0615710	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-2½	0 – 160psi	1103 kPa	0615711	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-2½	0 – 200psi	1379 kPa	0615712	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-2½	0 – 300psi	2069 kPa	0615713	¼	8	2½	63	1 ¹⁵ / ₁₆	49	.3	.14
DPG3-3	0 – 15psi	103 kPa	0615714	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18
DPG3-3	0 – 30psi	207 kPa	0615715	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18
DPG3-3	0 – 60psi	413 kPa	0615716	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18
DPG3-3	0 – 100psi	689 kPa	0615717	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18
DPG3-3	0 – 160psi	1103 kPa	0615718	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18
DPG3-3	0 – 200psi	1379 kPa	0615719	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18
DPG3-3	0 – 300psi	2069 kPa	0615720	¼	8	3	80	1 ¹⁵ / ₁₆	49	.4	.18

Pressure Gauges

Series DPG5

2", 2½", 3" Top Entry Pressure Gauges

Dial Sizes: 2", 2½", 3"

Type: Top Entry

Case: ABS polymer

Window: Kostil polymer

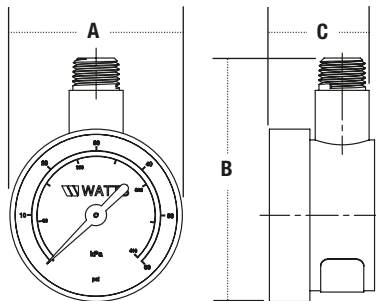
Connection: ⅛", ¼" NPT

Accuracy: ASME Type "B"

Sensing Element: Copper Alloy Bourdon Tube

Welding: Tin Alloy

Working Temperature: -4°F to 176°F (-20°C to 80°C)



DPG5

Scale, Dimensions and Weights Table

MODEL	SCALE		ORDERING CODE	SIZE (DN)		DIMENSIONS						WEIGHT	
				in.	mm	A		B		C			
						in.	mm	in.	mm	in.	mm	lbs.	kgs.
DPG5-2	0 – 160psi	1103 kPa	0615723	⅛	3	2	50	2 ¹¹ / ₁₆	68	1 ¹ / ₁₆	27	.15	.07
DPG5-2	0 – 15psi	207 kPa	0615678	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2	0 – 30psi	207 kPa	0615679	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2	0 – 60psi	413 kPa	0615680	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2	0 – 100psi	689 kPa	0615681	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2	0 – 160psi	1103 kPa	0615682	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2	0 – 200psi	1379 kPa	0615683	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2	0 – 300psi	2069 kPa	0615684	¼	8	2	50	2 ¹³ / ₁₆	71	1 ¹ / ₁₆	27	.2	.09
DPG5-2½"	0 - 15psi	103 kPa	0615685	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-2½"	0 - 30psi	207 kPa	0615686	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-2½"	0 – 60psi	413 kPa	0615687	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-2½"	0 – 100psi	689 kPa	0615688	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-2½"	0 – 160psi	1103 kPa	0615689	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-2½"	0 – 200psi	1379 kPa	0615690	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-2½"	0 – 300psi	2069 kPa	0615691	¼	8	2½	63	3 ⁵ / ₁₆	84	1⅝	29	.3	.14
DPG5-3	0 – 15psi	103 kPa	0615692	¼	8	3	80	3⅞	98	1⅝	29	.4	.18
DPG5-3	0 – 30psi	207 kPa	0615693	¼	8	3	80	3⅞	98	1⅝	29	.4	.18
DPG5-3	0 – 60psi	413 kPa	0615694	¼	8	3	80	3⅞	98	1⅝	29	.4	.18
DPG5-3	0 – 100psi	689 kPa	0615695	¼	8	3	80	3⅞	98	1⅝	29	.4	.18
DPG5-3	0 – 160psi	1103 kPa	0615696	¼	8	3	80	3⅞	98	1⅝	29	.4	.18
DPG5-3	0 – 200psi	1379 kPa	0615697	¼	8	3	80	3⅞	98	1⅝	29	.4	.18
DPG5-3	0 – 300psi	2069 kPa	0615698	¼	8	3	80	3⅞	98	1⅝	29	.4	.18

Combination Pressure/Temperature Gauges

Series DPTG1 — Series DPTG3 — DPTG3A — DPTG3L

2½" and 3" Combination Pressure/Temperature Gauges

Dial Size: 2½" and 3"

Type: DPTG1 – Bottom Entry

DPTG3 – Center Back Entry

DPTG3A – Center Back Entry with Extended Temperature Element

DPTG3L – Center Back Entry with Extended Mounting Nut

Case: Steel – Black Enamel

Window: Kostil Polymer

Connection: ½" NPT

Accuracy: ASME Type "B"

Pressure Element: Copper Alloy Bourdon Tube

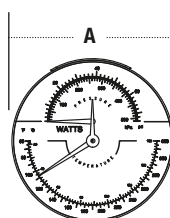
Temperature Element: Bimetal Spiral Spring

Welding: Tin Alloy

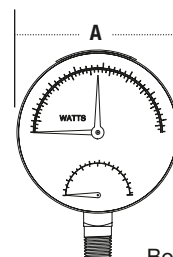
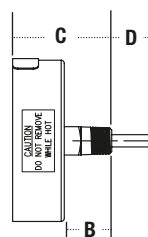
Working Temperature: 40°F to 250°F
(4.4°C to 121°C)



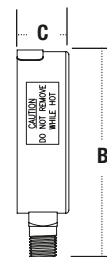
3" Dial DPTG3 2½" Dial



Center Back Mount
DPTG3



Bottom Entry
DPTG1



½" DPG-VR retaining
valve included with gauge
as indicated in table.

Scale, Dimensions and Weights Table

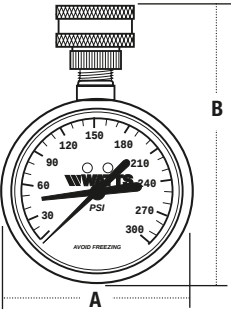
MODEL	SCALE		TEMP. RANGE	ORDERING CODE	INCLUDES VR RETAINING VALVE	SIZE (DN)		DIMENSIONS								WEIGHTS	
			°F			in.	mm	A		B		C		D			
								in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
DPTG1-3	0 – 50psi	345 kPa	32 – 248	0615633	N	½	15	3	76	4	101	1	25	–	–	.5	13
DPTG1-3	0 – 75psi	517 kPa	32 – 248	0615634	N	½	15	3	76	4	101	1	25	–	–	.5	13
DPTG1-3	0 – 200psi	1379 kPa	32 – 248	0615635	N	½	15	3	76	4	101	1	25	–	–	.5	13
DPTG3-2½	0 – 50psi	340 kPa	60 – 320	0615675	Y	½	15	2½	64	1	25	1⅝	49	⅞	23	.5	13
DPTG3-2½	0 – 75psi	520 kPa	60 – 320	0615676	Y	½	15	2½	64	1	25	1⅝	49	⅞	23	.5	13
DPTG3-2½	0 – 200psi	1379 kPa	60 – 320	0615677	Y	½	15	2½	64	1	25	1⅝	49	⅞	23	.5	13
DPTG3-2½	0 – 75psi	520 kPa	60 – 320	0615737	N	¼	8	2½	64	1	25	1⅝	49	⅞	23	.5	13
DPTG3-3	0 – 50psi	340 kPa	60 – 320	0615630	Y	½	15	3	76	1	25	1⅝	49	⅞	23	.5	13
DPTG3-3	0 – 75psi	520 kPa	60 – 320	0615631	Y	½	15	3	76	1	25	1⅝	49	⅞	23	.5	13
DPTG3-3	0 – 200psi	1379 kPa	60 – 320	0615632	Y	½	15	3	76	1	25	1⅝	49	⅞	23	.5	13
DPTG3A-2½	0 – 75psi	520 kPa	60 – 320	0615740	N	¼	8	2½	64	1	25	1⅝	49	2	51	.5	13
DPTG3A-3	0 – 75psi	520 kPa	60 – 320	0615742	N	¼	8	3	76	1	25	1⅝	49	2	51	.5	13
DPTG3L-2½	0 – 75psi	520 kPa	60 – 320	0615741	N	¼	8	2½	64	2	51	3⅝	100	1	25	.5	13
DPTG3L-3	0 – 75psi	520 kPa	60 – 320	0615743	N	¼	8	3	76	2	51	3⅝	100	1	25	.5	13

Hose Connection Gauges

Series 276H300, IWTG

2½" Hose Connection Gauges

Dial Size: 2½"
Type: Hose Connection
Case: Steel - Black Enamel
Window: Kostil Polymer
Connection: ¾" H.T. Hose Connection
Accuracy: ASME Type "B"
Sensing Element: Copper Alloy Bourdon Tube
Welding: Tin Alloy
Working Temperature: 40°F to 140°F (4.4°C to 60°C)



276H300

Scale, Dimensions and Weights Table

MODEL	SCALE		ORDERING CODE	SIZE (DN)	DIMENSIONS				WEIGHT	
					A		B			
					in.	mm	in.	mm	lbs.	kg.
276H300	0 – 300psi	2069 kPa	0069721	¾" (20mm) Hose Thread	2½	64	4	10	.3	0.14
IWTG	0 – 200psi	1379 kPa	0069770	¾" (20mm) Hose Thread	2½	64	4	10	.3	0.14

Air Test Assembly Gauges

Series IWTG-Gas

2" Gauges

Dial Size: 2"

Type: 3/4" FPT Chrome Plated Brass Manifold

Case: Steel

Window: Kostil Polymer

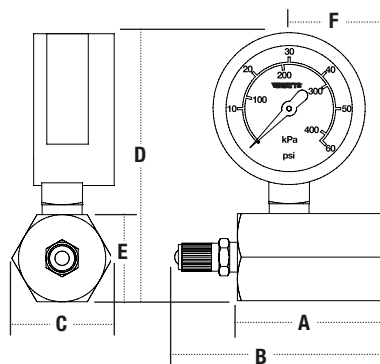
Connection: 3/4" FPT x Schrader Type Air Valve w/Cap

Accuracy: ASME Type "B"

Sensing Element: Copper Alloy Bourdon Tube

Welding: Tin Alloy

Working Temperature: 14°F to 176°F (-10°C to 80°C)



IWTG-Gas

Scale, Dimensions and Weights Table

MODEL	SCALE		ORDERING CODE	SIZE (DN)	DIMENSIONS										WEIGHT			
					A		B		C		D		E		F			
					in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
IWTG-Gas 2	0 – 15psi	103 kPa	0069779	3/4" FPT	2	64	2 7/8	72	1 3/8	35	3 5/8	92	1 3/16	30	1 5/16	33	.82	.37
IWTG-Gas 2	0 – 30psi	207 kPa	0069780	3/4" FPT	2	64	2 7/8	72	1 3/8	35	3 5/8	92	1 3/16	30	1 5/16	33	.82	.37
IWTG-Gas 2	0 – 60psi	413 kPa	0069781	3/4" FPT	2	64	2 7/8	72	1 3/8	35	3 5/8	92	1 3/16	30	1 5/16	33	.82	.37
IWTG-Gas 2	0 – 100psi	689 kPa	0069782	3/4" FPT	2	64	2 7/8	72	1 3/8	35	3 5/8	92	1 3/16	30	1 5/16	33	.82	.37

Series IWTG-NYC and HTX

2 1/2", 4" Gauges

Dial Size: NYC – 2 1/2" HTX – 4"

Type: 3/4" FPT Chrome Plated Brass Manifold

Case: Steel, Chrome Plated

Window: Kostil Polymer

Connection: 3/4" FPT x Schrader Type Air Valve w/Cap

Accuracy: NYC - 2%, HTX - 1% Full Range

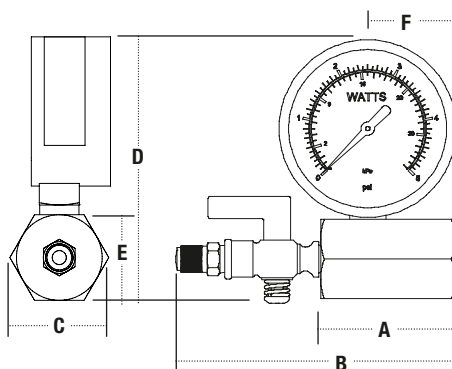
Sensing Element: Diaphragm

Welding: Tin Alloy

Working Temperature: 14°F to 176°F (-10°C to 80°C)

Shut-off Valve: Brass includes Calibration

Screw, HTX includes Set Hand



IWTG-NYC



IWTG-HTX

Scale, Dimensions and Weights Table

MODEL	SCALE		ORDERING CODE	SIZE (DN)	DIMENSIONS										WEIGHT			
					A		B		C		D		E		F			
					in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
IWTG-NYC	0 – 5psi	34 kPa	0069786	3/4" FPT	2	51	4	102	1 3/8	35	3 3/4	95	1 3/16	30	1 5/16	33	1	.45
IWTG-NYC	0 – 10psi	69 kPa	0069785	3/4" FPT	2	51	4	102	1 3/8	35	3 3/4	95	1 3/16	30	1 5/16	33	1	.45
IWTG-HTX	0 – 5psi	34 kPa	0069788	3/4" FPT	2	51	4	102	1 3/8	35	4 1/2	114	1 3/16	30	1 5/16	33	1.4	.62
IWTG-HTX	0 – 10psi	69 kPa	0069787	3/4" FPT	2	51	4	102	1 3/8	35	4 1/2	114	1 3/16	30	1 5/16	33	1.4	.62

Bimetal Thermometers

Series TB

1½", 2", 3", 4" Center Back Entry Bimetal Thermometers

Dial Size: 1½", 2", 3", 4"

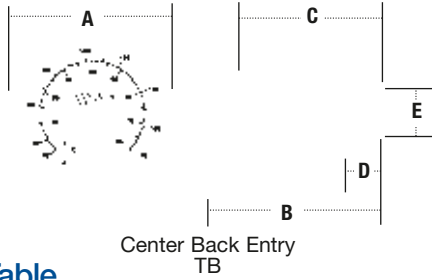
Type: Center Back Entry

Case: Zinc Plated Steel

Window: Kostil Polymer

Sensing Element: Bimetal Spiral Spring

Thermowell: ½" NPT Brass with Set Screw



TB

Scale, Dimensions and Weights Table

SIZE		MODEL	SCALE	ORDERING CODE	PROBE SIZE		DIMENSIONS										WEIGHT	
in.	mm		°F		in.	mm	A		B		C		D		E		lbs	kgs
1½	15	TB-1½-1	32 – 176	0615636	1	25	1½	40	1⅞	40	1⅜	35	⅜	10	⅞	11	.4	.18
1½	15	TB-2½-2	32 – 140	0615637	2	51	2½	63	2⅜	60	1⅝	49	1	25	⅞	11	.4	.18
1½	15	TB-2½-3	32 – 248	0615638	3	76	2½	63	2⅜	60	1⅝	49	1	25	⅞	11	.4	.18
1½	15	TB-2½-4	32 – 248	0615639	4	102	2½	63	4⅜	111	3⅝	100	2⅝	75	⅞	11	.4	.18
1½	15	TB-3-2	-22 – 122	0615640	2	51	3	80	2⅝	67	1⅝	49	1	25	⅞	11	.4	.18
1½	15	TB-3-2	32 – 140	0615641	2	51	3	80	2⅞	65	1⅝	49	1	25	⅞	11	.4	.18
1½	15	TB-3-2	32 – 248	0615642	2	51	3	80	2⅞	64	1⅝	49	1	25	⅞	11	.4	.18
1½	15	TB-3-4	-22 – 122	0615643	4	102	3	80	4⅞	126	3⅝	100	2⅝	75	⅞	11	.8	.36
1½	15	TB-3-4	32 – 140	0615644	4	102	3	80	4⅞	126	3⅝	100	2⅝	75	⅞	11	.8	.36
1½	15	TB-3-4	32 – 248	0615645	4	102	3	80	4⅞	126	3⅝	100	2⅝	75	⅞	11	.8	.36
1½	15	TB-4-2	-22 – 122	0615646	2	51	4	100	2⅝	67	1⅝	49	1	25	⅞	11	1.2	.54
1½	15	TB-4-2	32 – 140	0615647	2	51	4	100	2⅝	67	1⅝	49	1	25	⅞	11	1.2	.54
1½	15	TB-4-2	32 – 248	0615648	2	51	4	100	2⅝	67	1⅝	49	1	25	⅞	11	1.2	.54
1½	15	TB-4-4	-22 – 122	0615649	4	102	4	100	4⅝	118	3⅝	100	2⅝	75	⅞	11	1.2	.54
1½	15	TB-4-4	32 – 140	0615650	4	102	4	100	4⅝	118	3⅝	100	2⅝	75	⅞	11	1.2	.54
1½	15	TB-4-4	32 – 248	0615651	4	102	4	100	4⅝	118	3⅝	100	2⅝	75	⅞	11	1.2	.54

Series TBR

3" Bottom Entry Bimetal Thermometers

Dial Size: 3"

Type: Bottom Entry

Case: Chromed Steel

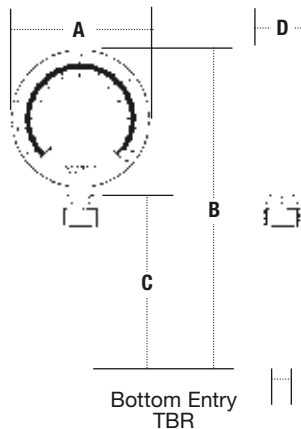
Window: Kostil Polymer

Stem: Brass

Sensing Element: Bimetal Spiral Spring

Amplifying Movement: Brass

Thermowell: ½" NPT Brass - snap-in



TBR

Scale, Dimensions and Weights Table

SIZE (DN)		MODEL	SCALE	ORDERING CODE	PROBE SIZE		DIMENSIONS										WEIGHT	
in.	mm		°F		in.	mm	A		B		C		D		E		lbs	kgs
1½	15	TBR-3-2	-22 – 122	0615652	2	51	3	80	5⅜	137	2	51	1⅞	30	⅞	11	.4	.18
1½	15	TBR-3-2	32 – 248	0615653	2	51	3	80	5⅜	137	2	51	1⅞	30	⅞	11	.4	.18
1½	15	TBR-3-3	-22 – 122	0615735	3	76	3	80	6⅝	160	2⅝	75	1⅞	30	⅞	11	1.2	.54
1½	15	TBR-3-3	32 – 140	0615736	3	76	3	80	6⅝	160	2⅝	75	1⅞	30	⅞	11	1.2	.54
1½	15	TBR-3-4	-22 – 122	0615654	4	102	3	80	7⅝	186	3⅝	100	1⅞	30	⅞	11	.8	.36
1½	15	TBR-3-4	32 – 140	0615655	4	102	3	80	7⅝	186	3⅝	100	1⅞	30	⅞	11	.8	.36
1½	15	TBR-3-4	32 – 248	0615656	4	102	3	80	7⅝	186	3⅝	100	1⅞	30	⅞	11	1.2	.54

Bimetal Thermometers

Series TBP

2 1/2" Pipe Mount Bimetal Thermometers

Dial Size: 2 1/2"

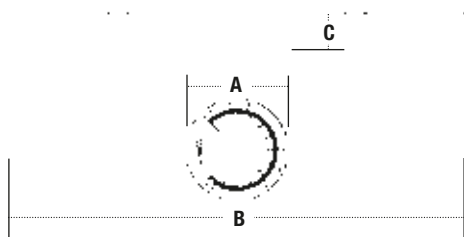
Type: Pipe Mount

Case: Steel, Black Enamel

Ring: Chromed Steel

Window: Kostil Polymer

Sensing Element: Bimetal Spiral Spring



TBP

Scale, Dimensions and Weights Table

SIZE (DN)		MODEL	SCALE	ORDERING CODE	FIXING PART	DIMENSIONS						WEIGHT	
			°F			A		B		C			
						in.	mm	in.	mm	in.	mm	lbs	kgs
1/2	15	TBP-M-2 1/2	32 – 248	0615658	spring	2 1/2	63	—	—	7/8	22	.4	.18
1/2	15	TBP-F-2 1/2	32 – 248	0615659	strap	2 1/2	63	11	279	7/8	22	.4	.18

Series TBC

2 1/2" Center Back Entry Bimetal Thermometers

Dial Size: 2 1/2"

Type: Chimney Mount-Center Back Entry

Case: Steel, Zinc Plate

Ring: Chromed Steel

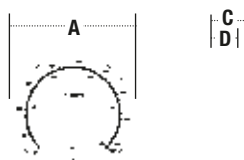
Window: Glass

Stem: Brass

Sensing Element: Bimetal Spiral Spring

Stem: Zinc Plated Steel

Thermowell: None



TBC

Scale, Dimensions and Weights Table

MODEL	SCALE	ORDERING CODE	PROBE SIZE		DIMENSIONS										WEIGHT	
	°F				A		B		C		D		E			
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kgs
TBC-2 1/2-4	32 – 932	0615660	4	102	2 1/2	63	4 3/8	111	1/2	13	5/8	16	3/8	9	.5	.23
TBC-2 1/2-6	32 – 932	0615661	6	152	2 1/2	63	6 5/16	160	1/2	13	5/8	16	3/8	9	.5	.23
TBC-2 1/2-8	32 – 932	0615662	8	203	2 1/2	63	8 5/16	211	1/2	13	5/8	16	3/8	9	.5	.23
TBC-2 1/2-12	32 – 932	0615663	12	305	2 1/2	63	12 1/4	311	3 15/16	100	2 15/16	75	3/8	9	.5	.23

Liquid Fill Thermometers

Series TA

9" Adjustable Angle Thermometers

Scale Size: 9"

Type: Sealed Glass Tube

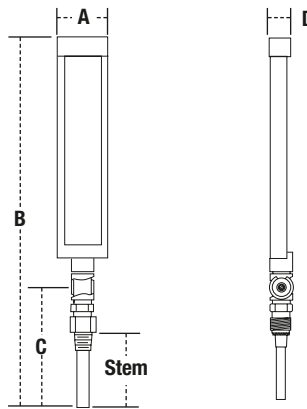
Case: Valox®

Lense: Glass

Sensing Fluid: Organic Fill

Accuracy: $\pm 1\%$ of Full Scale

Thermowell: Brass



Series TA

Scale, Dimensions and Weights Table

MODEL	TEMP. RANGE	ORDERING CODE	SIZE (DN)		STEM		DIMENSIONS								WEIGHT	
			in.	mm	in.	mm	A		B		C		D		lbs.	kg.
TA-9-3½	-40 – 110	0617000	¾	20	3½	89	2⅞	60	17⅞	442	5⅝	144	1⅛	26	1.65	.75
TA-9-3½	0 – 120	0617001	¾	20	3½	89	2⅞	60	17⅞	442	5⅝	144	1⅛	26	1.65	.75
TA-9-3½	0 – 160	0617002	¾	20	3½	89	2⅞	60	17⅞	442	5⅝	144	1⅛	26	1.65	.75
TA-9-3½	30 – 240	0617003	¾	20	3½	89	2⅞	60	17⅞	442	5⅝	144	1⅛	26	1.65	.75
TA-9-3½	30 – 300	0617004	¾	20	3½	89	2⅞	60	17⅞	442	5⅝	144	1⅛	26	1.65	.75
TA-9-6	-40 – 110	0617005	¾	20	6	152	2⅞	60	20⅛	509	8⅞	211	1⅛	26	1.65	.75
TA-9-6	0 – 120	0617006	¾	20	6	152	2⅞	60	20⅛	509	8⅞	211	1⅛	26	1.65	.75
TA-9-6	0 – 160	0617007	¾	20	6	152	2⅞	60	20⅛	509	8⅞	211	1⅛	26	1.65	.75
TA-9-6	30 – 240	0617008	¾	20	6	152	2⅞	60	20⅛	509	8⅞	211	1⅛	26	1.65	.75
TA-9-6	30 – 300	0617009	¾	20	6	152	2⅞	60	20⅛	509	8⅞	211	1⅛	26	1.65	.75

Series TL

5" Angle Thermometers

Scale Size: 5"

Type: Sealed Glass Tube

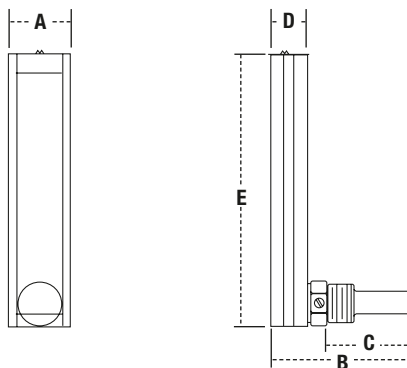
Case: Polypropylene

Lense: Glass

Sensing Fluid: Bed (Non-Mercury)

Accuracy: $\pm 2\%$ of Full Scale

Thermowell: Brass



Series TL

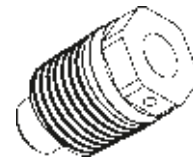
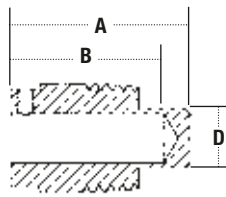
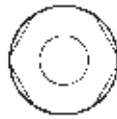
Scale, Dimensions and Weights Table

MODEL	TEMP. RANGE	ORDERING CODE	SIZE (DN)		STEM		DIMENSIONS								WEIGHT	
			in.	mm	in.	mm	A		B		C		D		E	
TL-5-2	-40 – 110	0617010	¾	20	1⅝	33	1⅞	34	3⅞	79	1⅞	48	1⅜	21	5⅜	147
TL-5-2	20 – 180	0617011	¾	20	1⅝	33	1⅞	34	3⅞	79	1⅞	48	1⅜	21	5⅜	147
TL-5-2	30 – 240	0617012	¾	20	1⅝	33	1⅞	34	3⅞	79	1⅞	48	1⅜	21	5⅜	147
TL-5-2	30 – 300	0617013	¾	20	1⅝	33	1⅞	34	3⅞	79	1⅞	48	1⅜	21	5⅜	147

Thermowells

Series G-TB

- Brass thermowell with set screw
- For thermometer models TB and TBC
- 1/2" MNPT



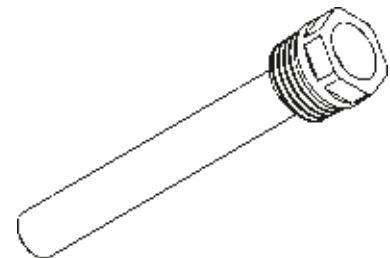
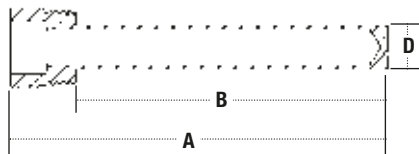
G-TB

Scale, Dimensions and Weights Table

SIZE (DN)		MODEL	ORDERING CODE	DIMENSIONS				WEIGHT	
<i>in.</i>	<i>mm</i>			A		D		<i>lbs</i>	<i>kgs</i>
1/2	15	G-TB-1	0615726	1 3/8	35	7/16	11	.4	.18
1/2	15	G-TB-2	0615727	2	51	7/16	11	.4	.18
1/2	15	G-TB-4	0615728	3 15/16	100	7/16	11	.4	.18
1/2	15	G-TB-6	0615729	5 1/2	140	7/16	11	.4	.18
1/2	15	G-TB-8	0615730	7 1/2	191	7/16	11	.4	.18
1/2	15	G-TB-12	0615731	11 7/16	291	7/16	11	.4	.18

Series G-TBR

- Brass thermowell
- For thermometer Model TBC
- 1/2" MNPT



G-TBR

Scale, Dimensions and Weights Table

SIZE (DN)		MODEL	ORDERING CODE	DIMENSIONS						WEIGHT	
<i>in.</i>	<i>mm</i>			A		B		D		<i>lbs</i>	<i>kgs</i>
1/2	15	G-TBR-2	0615732	2	50	1 5/16	33	7/16	11	.4	.18
1/2	15	G-TBR-3	0615733	2 5/16	75	2 1/4	58	7/16	11	.4	.18
1/2	15	G-TBR-4	0615734	3 15/16	100	3 15/16	100	7/16	11	.4	.18

NOTES

For Technical Assistance Call Your Authorized Watts Agent.

			Telephone #	Fax #
	HEADQUARTERS: Watts Regulator Company	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848
North East	Edwards, Platt & Deely, Inc. Edwards, Platt & Deely, Inc. W. P. Haney Co., Inc.	271 Royal Ave., Hawthorne, NJ 07506 368 Wyandanch Ave., North Babylon, NY 11703 51 Norfolk Ave., South Easton, MA 02375	973 427-2898 631 253-0600 508 238-2030	973 427-4246 631 253-0303 508 238-8353
Mid Atlantic	J. B. O'Connor Company, Inc. RMI The Joyce Agency, Inc. Vernon Bitzer Associates, Inc. WMS Sales, Inc. (Main office)	P.O. Box 12927, Pittsburgh, PA 15241 Glenfield Bus. Ctr., 2535 Mechanicsville Tpk., Richmond, VA 23223 8442 Alban Rd., Springfield, VA 22150 980 Thomas Drive, Warminster, PA 18974 9580 County Rd., Clarence Center, NY 14032	724 745-5300 804 643-7355 703 866-3111 215 443-7500 716 741-9575	724 745-7420 804 643-7380 703 866-2332 215 443-7573 716 741-4810
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North Central	Aspinall Associates, Inc. Dave Watson Associates Disney McLane & Associates BWA Company Mid-Continent Marketing Services Ltd. Soderholm & Associates, Inc. Stickler & Associates	6840 Hillsdale Court, Indianapolis, IN 46250 1325 West Beecher, Adrian, MI 49221 428 McGregor Ave., Cincinnati, OH 45206 17610 S. Waterloo Rd., Cleveland, OH 44119 1724 Armitage Ct., Addison, IL 60101 7150 143rd Ave. N.W., Anoka, MN 55303 333 North 121 St., Milwaukee, WI 53226	317 849-5757 517 263-8988 800 542-1682 216 486-1010 630 953-1211 763 427-9635 414 771-0400	317 845-7967 517 263-2328 877 476-1682 216 486-2860 630 953-1067 763 427-5665 414 771-3607
South Central	Hugh M. Cunningham, Inc. Mack McClain & Associates Mack McClain & Associates, Inc. Mack McClain & Associates, Inc. OK! Sales, Inc. Phoenix Marketing, Ltd.	13755 Benchmark, Dallas, TX 75234 4407 Meramec Bottom, Suite G, St. Louis, MO 63129 1450 NE 69th Place, Ste. 56 Ankeny, IA 50021 15090 West 116th St., Olathe, KS 66062 2200 Blue Creek Dr., Norman, OK 73026 2416 Candelaria N.E., Albuquerque, NM 87107	972 888-3808 314 894-8188 515 288-0184 913 339-6677 405 360-6161 505 883-7100	972 888-3838 314 894-8388 515 288-5049 913 339-9518 405 360-0092 505 883-7101
Western	Delco Sales, Inc. Delco Sales, Inc. Fanning & Associates, Inc. Hollabaugh Brothers & Associates Hollabaugh Brothers & Associates P I R Sales, Inc. Preferred Sales R. E. Fitzpatrick Sales, Inc.	1930 Raymer Ave., Fullerton, CA 92833 111 Sand Island Access Rd., Unit I-10, Honolulu, HI 96819 6765 Franklin St., Denver, CO 80229-7111 6915 South 194th St., Kent, WA 98032 3028 S.E. 17th Ave., Portland, OR 97202 3050 North San Marcos Place, Chandler, AZ 85225 31177 Wiegman Road, Hayward, CA 94544 4109 West Nike Dr. (8250 South), West Jordan, UT 84088	714 888-2444 808 842-7900 303 289-4191 253 867-5040 503 238-0313 480 892-6000 510 487-9755 801 282-0700	714 888-2448 808 842-9625 303 286-9069 253 867-5055 503 235-2824 480 892-6096 510 476-1595 801 282-0600
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Water Safety & Flow Control Products

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

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F-Gauges 0542