## **Data Sheet**



## 1009 21/2", 31/2" Stainless Steel Pressure Gauges

#### **FEATURES**

- Meets ASME B40.100 specifications
- All welded stainless steel construction
- **PLUS**<sup>™</sup> Performance option dampens vibration, shock and pulsation effects
- MSL helium leak tested to 1X10<sup>-6</sup> scc/s
- Ventable fill plug
- Wide selection of connections

#### **TYPICAL USES**

- Pumps and compressors
- Boilers
- Equipment skids
- Specialized OEM equipment
- Hydraulics and pneumatics
- Severe ambient conditions
- Ammonia and refrigeration

#### SPECIFICATIONS

304 Stainless Steel

316L Stainless Steel (OPT.)

Accuracy:		$\pm1\%$ of span (Dry) (ASME B40.100 Grade 1A) $\pm1.5\%$ of span (Liquid filled)					
Size:		21/2", 31/2"	21/2", 31/2"				
Ranges:		AW: Vacuum, compound, to 1,000 psi SW: Vacuum, compound to 15,000 psi					
Process Connect Location:	tion	Lower, lower back, top, 3 o'clock, 9 o'clock					
Process Connect Size:	tion	$^{\prime\!\!4}$ NPT Male, $^{\prime\!\!2}$ NPT Male , and others listed on page 2					
Movement:		304 SS with gla	iss filled	polyester segment			
Dial:		Black figures on white background					
Pointer:		Black, aluminum					
Weather Protection:		IP65 (Plug closed), IP54 (Plug vented) NEMA 4X (Plug closed)					
Mounting Option	:	U-clamp, front or back flange					
Dampening:		Liquid fill or <i>PLUS!</i> <sup>™</sup> Performance					
Approval:		RoHS, CRN, CE/UKCA					
WETTED CO	MPON	ENTS					
Model Bou		urdon Tube	Pro	cess Connection Material			
SW 316L S		Stainless Steel		316L Stainless Steel			
AW 316L		Stainless Steel Alur		Aluminum bronze			
NON-WETTE	D CON	<b>IPONENTS</b>					
Case		Window	Ring (bayonet removable)				
		1					



**1009SW Duralife**<sup>®</sup>  $2^{1/2^{"}}$  dial size with front flange

ASHCROFT

**1009AW Duralife®** 3½<sup>"</sup> dial size

1009SW Duralife®

1009SW Du 2½<sup>″</sup> dial size

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#### **KEY BENEFITS**

- Power*Flex<sup>™</sup>* movement provides superior resistance to shock, vibration and pulsation
- True Zero<sup>™</sup> reduces reading errors by using "zero box" instead of conventional dial pins

• Field fillable

MIN/MAX TEMPERATURE LIMITS									
Version	Ambient	Process	Storage						
Dry	-40 to 200 °F	-40 to 250 °F	-40 to 250 °F						
	(-40 to 93 °C)	(-40 to 121 °C)	(-40 to 121 °C)						
PLUS!™	-40 to 150 °F	-40 to 200 °F	-40 to 150 °F						
	(-40 to 66 °C)	(-40 to 93 °C)	(-40 to 66 °C)						
Glycerin Fill	20 to 150 °F	20 to 200 °F	0 to 150 °F						
	(-7 to 66 °C)	(-7 to 93 °C)	(-18 to 66 °C)						
Silicone Fill	-40/150 °F	-40 to 200 °F	-40 to 150 °F						
	(-40 to 66 °C)	(-40 to 93 °C)	(-40 to 66 °C)						
Halocarbon Fill	-40/150 °F	-40 to 200 °F	-40 to 150 °F						
	(-40 to 66 °C)	(-40 to 93°C)	(-40 to 66 °C)						

All specifications are subject to change without notice. All sales subject to standard terms and conditions. Ashcroft<sup>®</sup>, Duralife<sup>®</sup>, **PLUS!**<sup>™</sup>, PowerFlex<sup>™</sup>, True Zero<sup>™</sup>, Trust the Shield<sup>®</sup> are trademarks and Gold Service<sup>™</sup> is a service mark of Ashcroft Inc. The following non-Ashcroft trademarks are the property of their respective owners: Halocarbon<sup>®</sup>, Krytox<sup>™</sup>. For more information, see <u>Ashcroft Brands & Trademarks</u> ©2023 Ashcroft Inc. 1009\_25-35\_ds\_RevI\_11-14-23

304 Stainless Steel

316L Stainless Steel (OPT.)

Polycarbonate

Polycarbonate



Dial Size/Model Code         25 - 251009         25 - 251009         25 - 351009         System         AW - 316L, SS tube/316L, SS process connection (max, pressure 1.000 ps)         SW - 316L, SS tube/316L, SS process connection (max, pressure 15.000 ps)         SW - 316L, SS tube/316L, SS process connection (max, pressure 15.000 ps)         SW - 316L, SS tube/316L, SS process connection (max, pressure 15.000 ps)         SW - 316L, SS tube/316L, SS process connection (max, pressure 15.000 ps)         SW - 316L, SS tube/316L, SS process connection (max, pressure 15.000 ps)         L - Liquid filled case (glycerin standard)       L         Process Connection Size       02         - 4/- 4/- 4/- 4/- 4/- 4/- 4/- 4/- 4/- 4/	ORDERING CODE:	Example:	251009	SW	L	02	L	XC4	100#
35 - 351009 System AW - 316L SS tube/Aluminum, bronze connection (max. pressure 1.000 ps) SW - 316L SS tube/316L SS process connection (max. pressure 15,000 ps) SW - 316L SS tube/316L SS process connection (max. pressure 15,000 ps) SW - 316L SS tube/316L SS process connection (max. pressure 15,000 ps) SW - 316L SS tube/316L SS process connection (max. pressure 15,000 ps) SW - 2000 Case Fill (Clank) Dry gauge L - Liquid Tiled case (giverin standard) L - Variation (L -	Dial Size/Model Code								
System         AW - 316L SS tube/Altunium, bronze connection (max, pressure 1,000 psi)         SW - 316L SS tube/316L SS process connection (max, pressure 15,000 psi)         SW - 316L SS tube/316L SS process connection (max, pressure 15,000 psi)         SW - 316L SS tube/316L SS process connection (max, pressure 15,000 psi)         SW - 316L SS tube/316L SS process connection (max, pressure 15,000 psi)         SW - 316L SS tube/316L SS process connection (max, pressure 15,000 psi)         SW - 316L SS tube/316L SS process connection (max, pressure 15,000 psi)         1 - 'w NT Male         0 - 'w NPT Male         0 - 'w 's Tubing, SW models only) NA with throttle plug, NA ranges above 6,000 psi         2 - 'w '' 10 NIF-2A, SW models only NA with throttle plug, NA ranges above 6,000 psi         2 - 'w '' 10 VINF-2A, SW models only NA with throttle plug, NA on ranges above 6,000 psi         2 - 'w '' 10 VINF-2A, SW models only NA with throttle plug, NA on ranges above 6,000 psi         2 - 'w '' 10 VINF-2A, SW models only NA with throttle plug, NA on ranges above 6,000 psi         2 - 'w '' 10 VINF-2A, SW models only NA with throttle plug, NA on ranges above 6,000 psi         2 - 'w '' 10 VINF-2A, SW models only NA with throttle plug, NA on ranges above 6,000 psi         2 - 'w '' 10 VINF-2A, SW models only NA with throttle plug, NA on ranges above 6,0	25 - 251009		251009						
AW - 316L SS tube/34LUS SP recease connection (max. pressure 1,000 psi) SW SW - 316L SS tube/34LL SS process connection (max. pressure 15,000 psi) SW Case Fill (thank) Dry gauge L - Liquid filed case (glycerin standard) L Process Connection Size O1 - ½ NPT Male (SW models only) RW - SAE-4, ½, ** - 20 Straight thread EJ - ½, ** X20 UNF-3A 37 filar e KJ - ½ Straight JIS, BSP - 1009SW KA - ½ Tabingt, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JO - 6 mm Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, ** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, ** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi Process Connection Location L - Lower L - Lower C Is Side (0 clock) E - Flood filling (add to glycerine filled case) LL - <i>PLUS</i> ** Performance NZ - <i>PLUS</i> *** Performance NZ - <i>PLUS</i> *** Performance NZ - <i>PLUS</i> *** Performance NZ - <i>PLUS</i> **** Performance NZ - <i>PLUS</i> ************************************	35 - 351009								
AW - 316L SS tube/34LUS SP recease connection (max. pressure 1,000 psi) SW SW - 316L SS tube/34LL SS process connection (max. pressure 15,000 psi) SW Case Fill (thank) Dry gauge L - Liquid filed case (glycerin standard) L Process Connection Size O1 - ½ NPT Male (SW models only) RW - SAE-4, ½, ** - 20 Straight thread EJ - ½, ** X20 UNF-3A 37 filar e KJ - ½ Straight JIS, BSP - 1009SW KA - ½ Tabingt, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JO - 6 mm Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, ** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, ** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi JJ - ½, *** Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi Process Connection Location L - Lower L - Lower C Is Side (0 clock) E - Flood filling (add to glycerine filled case) LL - <i>PLUS</i> ** Performance NZ - <i>PLUS</i> *** Performance NZ - <i>PLUS</i> *** Performance NZ - <i>PLUS</i> *** Performance NZ - <i>PLUS</i> **** Performance NZ - <i>PLUS</i> ************************************	System								
SW - 316L SS tube/316L SS process connection (max. pressure 15.000 psi)       SW         Case Fill       (blank) Dry gauge         L - Liquid filed case (giverin standard)       L         Process Connection Size       0         0 - 's NPT Male       02         02 - 's NPT Male       02         04 - 's NPT Male (SW models only)       02         04 - 's NPT Male (SW models only)       02         04 - 's NPT Male (SW models only) NA with throttle plug, NA ranges above 6,000 psi       03         04 - 's NPT Male (SW models only) NA with throttle plug, NA ranges above 6,000 psi       04         04 - 's NPT Male (SW models only) NA with throttle plug, NA ranges above 6,000 psi       04         07 - 's Tallon, (SW models only) NA with throttle plug, NA ranges above 6,000 psi       04         08 - Wore back       L       L         09 - 's Tobing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi       4         19 - 's' Tobing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi       4         19 - 's' Tobing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi       4         19 - 's' Tobing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi       4         10 - tower       L       L         Poston (If choosing an option(g) must include an *X'')       X_		pressure 1.000 p	si)						
Case Fill       L         (blank) Dry gauge       L         L-Liquid filled case (glycerin standard)       L         Process Connection Size       0         01 - % NPT Male       02         Q2 - ½ NPT Male (SW models only)       Q         RW - SAE-4, % - 20 Straight thread       02         Q2 - ½ NPT Male (SW models only)       Q         Q2 - ½ NPT Male (SW models only) NA with throttle plug, N/A ranges above 6,000 psi       Q         Q3 - 6 mm Tubing, (SW models only) NA with throttle plug, N/A ranges above 6,000 psi       Q         Q1 - ½, "X 20 Nm Gels only) NA with throttle plug, N/A ranges above 6,000 psi       Q         Q1 - ½, "Tubing, (SW models only) NA with throttle plug, N/A ranges above 6,000 psi       Q         Q1 - ½, "Tubing, (SW models only) NA with throttle plug, N/A on ranges above 6,000 psi       Q         Q1 - ½, "Tubing, (SW models only) NA with throttle plug, N/A on ranges above 6,000 psi       Q         Q1 - ½, "Tubing, (SW models only) NA with throttle plug, N/A on ranges above 6,000 psi       Q         Q1 - ½, "Tubing, (SW models only) NA with throttle plug, N/A on ranges above 6,000 psi       Q         Q1 - ½, "Tubing, (SW models only) NA with throttle plug, N/A on ranges above 6,000 psi       Q         Q2 - Side (G o'clock)       E       E         E - Side (G o'clock)       E       E				SW					
(blank) Dry gauge   L - Liquid filled case (glycerin standard)   L - Barbard   01 - ½ NPT Male   02 - ¼ NPT Male   02 - ¼ NPT Male (SW models only)   RW - SAE-4, ¼ = 20 Straight thread   E1 - ½, X* 20 UNF-3A 32" frare   KA - ½ Tapered JIS, BSP - 1009SW   I3 - G ½ DIN   J9 - ½ Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi   J0 - 6 mm Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi   J0 - 6 mm Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi   J1 - ½, '' Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi   J2 - ½, ''' Tubing, (SW models only) NA with throttle plug, NA ranges above 6,000 psi   J2 - ½, ''' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - ½, ''' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - ½, ''' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - ½, ''' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - ½, ''' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - ½, '''' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - Yu'' Tubing, (SW models only) NA with throttle plug, NA on ranges above 6,000 psi   J2 - Yu'''''''''''''''''''''''''''''''''''									
L - Liquid filled case (glycerin standard) L Process Connection Stze 01 - ½ NPT Male 02 - ¼ NPT Male (SW models only) RW - SAE 4.7, ½ - 20 Straight thread EJ - ½, "X 20 UNF-3A 37" flare KJ - ½ '' Straight US, BSP - 1009SW KA - ½ '' Taperd US, BSP - 1009SW KA - ½ '' Laberd US, BSP - 1009SW KA - ½ '' Laberd US, BSP - 1009SW KA - ½ '' Laberd US, BSP - 1009SW KA - ½ '' Laberd US, BSP - 1009SW KA - ½ '' Laberd US, BSP - 1009SW KA - ½ '' Laberd US, BSP - 1009SW KA - 10 - Drottel plug Standard With Biquid fill and XLL (SWL) gauges 1500# and above TU - Trottle plug Griffice 0.007 '' TS - Stainless helical throttle plug Istandard With Biquid fill and XLL (SWL) gauges 1500# and above TU - Trottle plug K - Food grade silicone (add to glycerine filled gauge) Mounting FF - Food grade silicone (add to glycerine filled gauge) Mounting FF - Food grade silicone (add to glycerine filled gauge) Mounting C - U-clainp C - Weld nuts (when required on lower connect) L - Lugué Hind Bu du (When required on lower connect) L - U-Lugué Hind Bu du (When required on lower connect) L - U-Lugué Hind Bu du (When required on lower connect) L - U-Lugué Hind Bu du (When required on lower connect) L - Lugué Hind B									
Process Connection Size         01 - ½ NPT Male         02 - ½ NPT Male         02 - ½ NPT Male         02 - ½ NPT Male         04 - ½ NPT Male         05 - ½ NPT Male         04 - ½ NPT Male         05 - ½ NPT Male         04 - ½ NPT Male         04 - ½ NPT Male         05 - ½ NPT Xalp         04 - ½ NPT Male         05 - ½ NPT Xalp         05 - ½ NPT Xalp         05 - ½ NPT Male         06 - ½ NPT Male         07 - ½ NT Lubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         01 - ½ N* 18 UNF - 2A, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         01 - ½ N* 18 UNF - 2A, (SW models only) N/A on 25 1009         03 - ½ N* 18 UNF - 2A, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         04 - ½ NW reds       L         04 - ½ NW reds       L         05 (Sd 0 o'clock)       L         10 - Statistics (Statistics Avith throttle plug Statistics Avith throttle plug Avith throttle plu					L				
01 - ½ NPT Male       02         02 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       02         05 - ½ Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi       02         07 - ½ Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi       02         07 - ½ Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       02         07 - ½ Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       02         07 - ½ Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       02         10 - ½ Tubing, (SW models only) N/A on 25 1009       02         13 - € Vast Romedian Decation       L         L - Lower       L       L         B - Lower back       0       Side (3 o'clock)         E - Side (9 o'clock)       E       Side (3 o'clock)       E         C - Side (9 o'clock)       E       E       E         C - Puse frame       E       E       E									
02 - ½ NPT Male (SW models only)       02         04 - ½ NPT Male (SW models only)       03         RW - SAE-4, ½, ½, -20 Straight thread       04         EJ - ½, % X 20 LNF-3A 37* fare       04         KJ - ½ Straight JJS, BSP - 1009SW       04         KA - ½ Tapered JJS, BSP - 1009SW       04         JA - 6 mm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi       04         JD - 9 for Tolking, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi       04         JL - ½, % Tapered JJS, BSP - 1009SW       13         JA - % Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi       04         JL - ½, % Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi       04         JL - ½, % Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       04         JL - ½, % Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       04         JL - ½, % Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       04         JL - ½, % Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       04         JL - ½, % Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       04         JL - ½, % Tubing, SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi       04         V - Silicone fill									
Q4 - ½ NPT Male (SW models only)         RW - SAE-4, ½% - 20 Straight thread         EJ - ½% X 20 UNF-3A 37* flare         KJ - ½ Straight JB, BSP - 1009SW         KA - ½% Tappered JIS, BSP - 1009SW         IA - ½ Kraight JB, GSP - 1009SW         IA - ½% Tabing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JD - ½% Tubing, (SW models only) N/A on 25 1009         JR - ½% Tubing, (SW models only) N/A on 25 1009         JR - ½% Tubing, (SW models only) N/A on 25 1009         JR - ½% Tubing, (SW models only) N/A on 25 1009         JR - ½% Tubing, (SW models only) N/A on 25 1009         JL - Uswer       L         B - Lower back       L         D - Side (3 o'clock)       L         E - Side (9 o'clock)       X						02			
RW - SAE-4, //w <sup>-</sup> - 20 Straight thread         EJ - //w <sup>+</sup> X 20 UNF-3A 37 <sup>+</sup> flare         KJ - K' Straight JIS, BSP - 1009SW         KA - K' Tapered JIS, BSP - 1009SW         13 - G W DIN         JP - K <sup>+</sup> Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JU - 9'm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - Y/m <sup>+</sup> Ta UNF-2A, (SW models only) N/A or 25 1009         JR - % <sup>+</sup> Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower       L         B - Lower back       D         D - Side (3 o'clock)       E         Side (3 o'clock)       E         T - Top       X									
EJ - ½n² X 20 UNF-3A 37* flare         KJ - ½x² Straight JIS, BSP - 1009SW         KA - ½x² Straight JIS, BSP - 1009SW         KA - ½x² Tabered JIS, BSP - 1009SW         XA - ½x² Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JP - ½x² Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JQ - 6 mm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - ½m² Ta UNF-2A, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         Process Connection Location         L - Lower         B - Lower back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         QV - Silicone filling (add to glycerine filled case)         CL - <i>PLUS</i> " Performance         NZ - <i>PLUS</i> " Performance silicone free         A - Push in throttle plug (tardard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orfice 0.013) (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orfice 0.013) (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orfice 0.013) (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orfice 0.013) (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orfice 0.013) (standard with liquid fill and XLL gauges 30# to 1									
KJ - ¼* Straight JIS, BSP - 1009SW         KA - ¼* Tapered JIS, BSP - 1009SW         13 - 6 ¼* DIN         13 - 6 ¼* DIN         JP - ¼* Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JQ - 6 mm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - %** 10 UNF-2A, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - %** 10 UNF-2A, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         JR - %** Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower       L         B - Lower back									
KA - ¼" Tapered JIS, BSP - 1009SW         13 - 6 ¼" TUNIN         JP - ½" Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JU - 9 /m Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - 9/m Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - 9/m Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         JL - 9/m Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower       L         B - Lower back       L         D - Side (3 o'clock)       E         E - Side (9 o'clock)       E         T - Top       X									
13 - G ½ DIN         JP - ½ Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JQ - 6 mm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - ½wr 18 UNF-2A, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         JL - ½wr 18 UNF-2A, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         JR - ½r Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower         L - Lower Back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X									
JP - ¼" Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JQ - 6 mm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - ½%" 18 UNF-2A, (SW models only) N/A on 25 1009         JR - ½" Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower       L         B - Lower back       L         D - Side (3 o'clock)       E         E - Side (3 o'clock)       E         T - Top       X									
JQ - 6 mm Tubing, (SW models only) N/A with throttle plug, N/A ranges above 6,000 psi         JL - %n° 18 UNF-2A, (SW models only) N/A on 25 1009         JR - % Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower         B - Lower back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X         Dampening         GV - Silicone filling (add to glycerine filled case)         SL - Huss" Performance         NZ - PUIS" Performance filled case)         TU - Throttle plug brass (orifice 0.007)         TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LO - Weid nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         YY - Krytox" lubricated movement		N/A ranges above	e 6.000 psi						
JL - %/u* 18 UNF-2A, (SW models only) N/A on 25 1009         JR - %/* Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower         B - Lower back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X		-	· · · · · · · · · · · · · · · · · · ·	osi					
JR - ½/n Tubing, (SW models only) N/A with throttle plug, N/A on ranges above 6,000 psi         Process Connection Location         L - Lower         B - Lower back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X									
Process Connection Location         L - Lower         L - Lower back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X		N/A on ranges at	bove 6.000 i	osi					
B - Lower back         D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")       X         Dampening         GV - Silicone filling (add to glycerine filled case)		<u> </u>							
D - Side (3 o'clock)         E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")       X         Dampening         GV - Silicone filling (add to glycerine filled case)	L - Lower						L		
E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X	B - Lower back								
E - Side (9 o'clock)         T - Top         Options (If choosing an option(s) must include an "X")         X	D - Side (3 o'clock)								
T - Top       X									
Options (If choosing an option(s) must include an "X")       X									
GV - Silicone filling (add to glycerine filled case)         GX - Halocarbon® filling (add to glycerine filled case)         LL - PUUS! <sup>™</sup> Performance         NZ - PUUS! <sup>™</sup> Performance silicone free         T4 - Push in throttle plug brass (orifice 0.007")         TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Forn flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	Options (If choosing an option(s) must include an "X	(")						X	
GX - Halocarbon® filling (add to glycerine filled case)         LL - PUUS! <sup>™</sup> Performance         NZ - PUUS! <sup>™</sup> Performance silicone free         T4 - Push in throttle plug brass (orifice 0.007")         TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	Dampening								-
LL - <i>PLUS!™</i> Performance         NZ - <i>PLUS!™</i> Performance silicone free         T4 - Push in throttle plug brass (orifice 0.007")         TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	GV - Silicone filling (add to glycerine filled case)								-
NZ - PLUS!™ Performance silicone free         T4 - Push in throttle plug brass (orifice 0.007")         TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	GX - Halocarbon <sup>®</sup> filling (add to glycerine filled case)								-
T4 - Push in throttle plug brass (orifice 0.007")         TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox™ lubricated movement	LL - <b>PLUS!</b> <sup>™</sup> Performance								-
TS - Stainless helical throttle plug (standard with liquid fill and XLL (SWL) gauges 1500# and above         TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	NZ - <i>PLUS!™</i> Performance silicone free								-
TU - Throttle plug (orifice 0.013) (standard with liquid fill and XLL gauges 30# to 1000#)         WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox™ lubricated movement	T4 - Push in throttle plug brass (orifice 0.007")								-
WP - No throttle plug         ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox™ lubricated movement	TS - Stainless helical throttle plug (standard with liquid f	ill and XLL (SWL)	gauges 150	0# and a	above				-
ZF - Food grade silicone (add to glycerine filled gauge)         Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox™ lubricated movement	TU - Throttle plug (orifice 0.013) (standard with liquid fill	and XLL gauges 3	30# to 1000#	<b>#</b> )					-
Mounting         FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox™ lubricated movement	WP - No throttle plug								-
FF - Front flange         FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	ZF - Food grade silicone (add to glycerine filled gauge)								-
FW - Back flange         UC - U-clamp         Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	Mounting								-
UC - U-clamp Case/Movement LC - Weld nuts (when required on lower connect) LJ - Liquid fillable dry case (throttle plug is standard) VY - Krytox <sup>™</sup> lubricated movement	FF - Front flange								
Case/Movement         LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	FW - Back flange								
LC - Weld nuts (when required on lower connect)         LJ - Liquid fillable dry case (throttle plug is standard)         VY - Krytox <sup>™</sup> lubricated movement	UC - U-clamp								
LJ - Liquid fillable dry case (throttle plug is standard) VY - Krytox <sup>™</sup> lubricated movement	Case/Movement								
VY - Krytox <sup>™</sup> lubricated movement	LC - Weld nuts (when required on lower connect)								
VY - Krytox <sup>™</sup> lubricated movement	LJ - Liquid fillable dry case (throttle plug is standard)								
YW - 316L Stainless steel case/ring (only available with system 1009SW & SWL)									
	YW - 316L Stainless steel case/ring (only available with s	system 1009SW &	SWL)						

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ORDERING CODE: (continued) Example:	251009	SW	L	02	L	XC4	100
Options (If choosing an option(s) must include an "X")						X	
Windows							
SG - Safety glass							
Pointers							_
EO - Red set hand - adjustable (not available with liquid filled units)							_
SH - Red set hand - stationary single							_
SJ - Red set hand - stationary single							_
MP - Adjustable pointer - micrometer							
Tags							_
DA - Dial marking							_
NH - Stainless steel tag							
NN - Paper tag							
Test and Calibration Report							
6B - Cleaned for gaseous oxygen service (for liquid filled Halocarbon <sup>®</sup> (G than 10,000 psi)	X) required,	N/A on r	anges g	reater			_
6W - Cleaned for gases other than oxygen							
C3 - Material certification (consult factory for availability)							
C4 - Traceable calibration certificate						C4	
HY - Hydrostatic test - when attached to a diaphragm seal add HY code code (if attached to seal charge will be on gauge only)	to gauge and	d seal pr	oduct				
KH - Any calibration other than standard							
MF - Mercury free							
MQ - Positive material identification (PMI) (only available with stainless st	eel systems,	tube, tip,	, and so	cket)			_
Refrigerants - (consult factory for available dials)							_
R1 - Refrigerant 11							_
R2 - Refrigerant 12							_
R3 - Refrigerant 22							_
R4 - Refrigerant 502							_
R5 - Ammonia - (must have stainless steel wetted parts)							_
R6 - Refrigerant 114							
R7 - Refrigerant 500							
R8 - Refrigerant 134A							
R9 - Refrigerant 123							
Other							
AB - Absolute pressure (gauge is offset by 14.7 psi, contact inside sales f	or more info	rmation	)				
PR - Receiver gauge (N/A on liquid filled gauges - consult factory for avai	lable dials)						
Range (see range table for all standard ranges)							
<b>3</b> (							



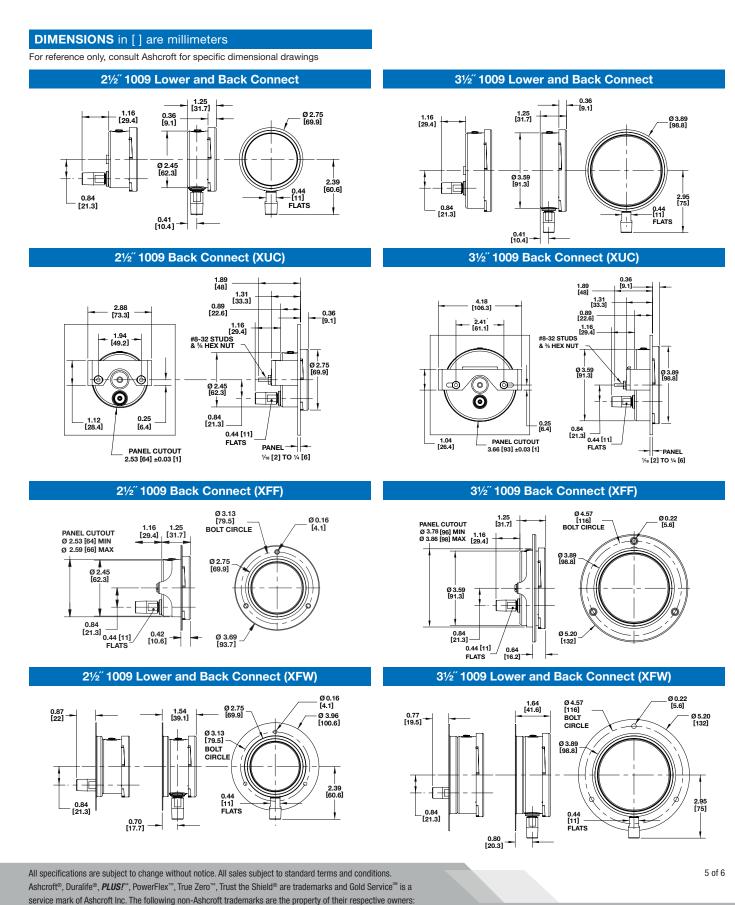
		STAND	ARD RANGES		
Vaccuum	psi	bar	kPa	МРа	kg/cm <sup>2</sup>
Vac	30IMV	N1BR	N100KP	N0.1MP	N1KG
	-	N1/0.6BR	N1/0.6BR	N0.1/0.6MP	N1/0.6KG
	30IMV&15#	-	-	_	-
	-	N1/1.5BR	N100/150KP	N0.1/15MP	N1/1.5KG
	30IMV&30#	-	-	-	-
pur	-	N1/3BR	N100/300KP	N0.1/3MP	N1/3KG
Compound	30IMV&60# _	– N1/5BR	– N100/500KP	– N0.1/5MP	– N1/5KG
8			N100/300KF	NO.1/SIVIE	NI/JNG
	30IMV&100#	-	-	-	-
	30IMV&150#	-	-	-	-
	30IMV&300#	-	-	-	-
	-	N1/9BR	N100/900KP	N0.1/9MP	N1/9KG
	15#	1BR	100KP	.1MP	1KSC
	20#	-	-	-	-
	-	1.6BR	160KP	.16MP	1.6KSC
	30#	-	-	-	-
	-	2.5BR	250KP	.25MP	2.5KSC
	60#	4BR	400KP	.4MP	4KSC
	-	6BR	600KP	.6MP	6KSC
	100#	-	-	-	-
	120# _	- 10BR	- 1,000KP	- 1MP	- 10KSC
	_ 160#		1,000KF	-	-
	200#	_	_	_	_
	_	16BR	1,600KP	1.6MP	16KSC
	300#	_	_	_	_
0	-	25BR	2,500KP	2.5MP	25KSC
Positive Pressure	400#	-	-	-	-
e Pre	500#	-	-	-	-
ositiv	600#	40BR	4,000KP	4MP	40KSC
đ	800#	-	-	-	-
	-	60BR	6,000KP	6MP	60KSC
	1,000#	-	-	-	-
	1,500#	100BR	10,000KP	10MP	100KSC
	2,000#	-	-	-	-
	-	160BR	16,000KP	16MP	160KSC
	3,000#	-	-	-	-
	-	250BR	25,000KP	25MP	250KSC
	4,000# 5,000#	-	-	-	-
	5,000# 6,000#	- 400BR	- 40,000KP	- 40MP	- 400KSC
	8,000#	400BN	40,000KF	40MF	-
	-	600BR	60,000KP	60MP	600KSC
	10,000#	-	_	-	-
	15,000#	1,000BR	100,000KP	100MP	1,000KSC
	15,000#	1,000BR	100,000KP	100MP	1,000KSC

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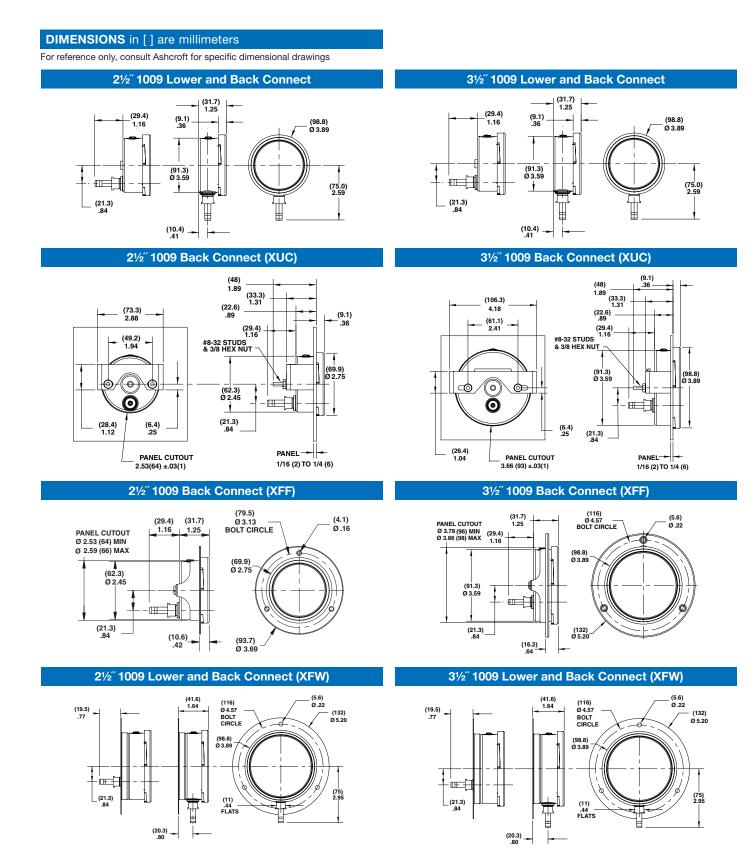
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