

## ULTRA HIGH PURITY PRESSURE GAUGE

Reotemp UHP gauges are specially designed to meet the demanding clean room requirements of the semiconductor, pharmaceutical, environmental, and communication industries.



UHPPM

### FEATURES / BENEFITS



- Manufactured in a Clean Room
- Sealing Surfaces Electro-polished
- Wetted Surface Finish Internal: Ra<0.25µm (Ra<10µin)
- Helium Leak Tested 10-9 scc/s
- Passivated Wetted Parts
- Packaged in Nitrogen Purged and Vacuum Sealed Double Bags
- 316L SS Wetted Parts

### SPECIFICATIONS



<b>Standard</b>	ASME B40.100/ EN837-1
<b>Accuracy</b>	1.5" Dial: 3-2-3% Full Scale 2" Dial: 2-1-2% Full Scale
<b>Ambient Limits</b>	-40°F/150°F
<b>Process Limits</b>	-40°F/250°F
<b>Wetted Materials</b>	Bourdon Tube: 316L SS Socket and Gland: 316L SS
<b>Lens</b>	Polycarbonate
<b>Other Materials</b>	Case: 304SS Electropolished Dial: White Aluminum, Black Letters
<b>Fillable</b>	No
<b>Connections</b>	1/4" Face Seal Gland Compatible VCR Fitting with Swivel Male or Female Nut
<b>Cleanliness</b>	According to SEMI/SEMATECH Requirements
<b>Maximum Working Pressure</b>	Stable = 100% of Scale Momentary = 110% of Scale

## ULTRA HIGH PURITY PRESSURE GAUGE

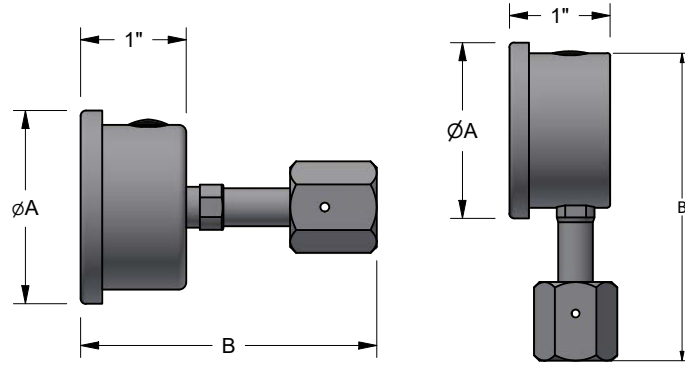
**HOW TO ORDER:** Choose options to build a part number. For example: UHPPM20C1AYP32-TS

MODEL	CASE TYPE	TUBE & SOCKET	MOUNT TYPE	CONNECTION	PRESSURE RANGE	OPTIONS
<p><b>UHPPM15</b> = 1.5" Dial High Purity Gauge</p> <p><b>UHPPM20</b> = 2" Dial High Purity Gauge</p> <p><b>UHPPM25</b> = 2.5" Dial High Purity Gauge</p>	<p><b>C</b> = 304SS Case with Crimped Ring</p>	<p><b>1</b> = 316SS</p>	<p><b>A</b> =  Bottom</p> <p><b>C</b> =  Center Back</p>	<p><b>Z</b> = Female Swivel 9/16-18 UNF (fits 1/4 VCR)</p> <p><b>Y</b> = Male Swivel 9/16-18 UNF (fits 1/4 VCR)</p>	<p><b>P32</b></p> <p><i>Common Ranges</i></p> <p><b>P01</b> = -30inHg-0 psi</p> <p><b>P03</b> = -30inHg-0-30 psi</p> <p><b>P16</b> = 0-30 psi</p> <p><b>P18</b> = 0-100 psi</p> <p><b>P20</b> = 0-200 psi</p> <p><i>Available Ranges</i></p> <ul style="list-style-type: none"> <li>■ Vac to 4,000 psi</li> <li>■ Gauge Pressure, Vacuum, or Compound</li> <li>■ Lowest Range = 15 psi</li> </ul> <p><i>Available Units:</i></p> <ul style="list-style-type: none"> <li>■ psi (std)</li> <li>■ bar</li> <li>■ kPa</li> <li>■ kg/cm<sup>2</sup></li> <li>■ ft H<sub>2</sub>O</li> <li>■ &amp; more</li> </ul> <p><i>For Additional Range Codes See Page 83</i></p>	<p><b>-TS</b> = SS Tag</p> <p><b>-C3</b> = 3 Point Calibration Cert</p> <p><b>-EC</b> = Limit Switch Contact Assembly (Only Available in 2.5" Dial)</p>

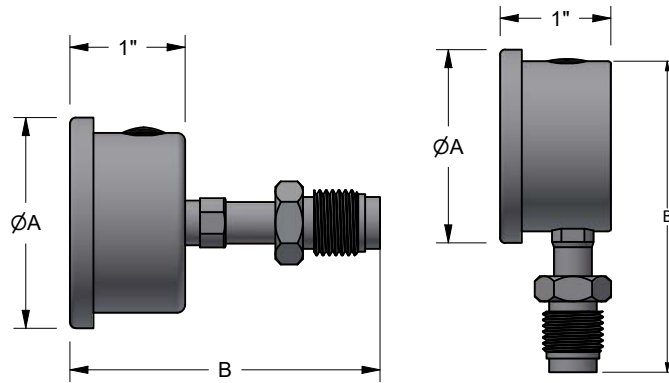
**HOW TO ORDER:** Choose options to build a part number. For example: UHPPD15Z1AYP32-TS

MODEL	CASE TYPE	TUBE & SOCKET	MOUNT TYPE	CONNECTION	PRESSURE RANGE	OPTIONS
<p><b>UHPPD15</b> = 1.5" Dial High Purity Gauge</p> <p><b>UHPPD20</b> = 2" Dial High Purity Gauge</p>	<p><b>Z</b> = 304SS Case with Polycarbonate Window</p>	<p><b>1</b> = 316SS</p>	<p><b>A</b> =  Bottom</p> <p><b>C</b> =  Center Back</p>	<p><b>Z</b> = Female Swivel 9/16-18 UNF (fits 1/4 VCR)</p> <p><b>Y</b> = Male Swivel 9/16-18 UNF (fits 1/4 VCR)</p>	<p><b>P32</b></p> <p><i>Common Ranges</i></p> <p><b>P01</b> = -30inHg-0 psi</p> <p><b>P03</b> = -30inHg-0-30 psi</p> <p><b>P16</b> = 0-30 psi</p> <p><b>P18</b> = 0-100 psi</p> <p><b>P20</b> = 0-200 psi</p> <p><i>Available Ranges</i></p> <ul style="list-style-type: none"> <li>■ Vac to 4,000 psi</li> <li>■ Gauge Pressure, Vacuum, or Compound</li> <li>■ Lowest Range = 15 psi</li> </ul> <p><i>Available Units:</i></p> <ul style="list-style-type: none"> <li>■ psi (std)</li> <li>■ bar</li> <li>■ kPa</li> <li>■ kg/cm<sup>2</sup></li> <li>■ ft H<sub>2</sub>O</li> <li>■ &amp; more</li> </ul> <p><i>For Additional Range Codes See Page 83</i></p>	<p><b>-TS</b> = SS Tag</p> <p><b>-C3</b> = 3 Point Calibration Cert</p>

## ULTRA HIGH PURITY PRESSURE GAUGE



UHPPM with Female Connections



UHPPM with Male Connections

Dial Size	A Diameter (in)
1.5"	1.83"
2"	2.3"

Overall Length B Dimension (in)		
Connection Location	1.5" Dial	2" Dial
Back	2.7-2.8"	2.8-3.3"
Bottom	2.9-3.2"	3.5-4"

## PRESSURE GAUGE RANGES AND CODES

PRESSURE GAUGES

### VACUUM/COMPOUND RANGES

psi		Dual Scale & psi & Metric						Single Scale-Metric					
"Hg/0/psi		psi & bar		psi & kg/cm <sup>2</sup>		psi & kPa		bar		kg/cm <sup>2</sup>		kPa	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
P01	-30"Hg/0	D01	"Hg & -1/0 bar	G01	"Hg & -1/0 kg/cm <sup>2</sup>	L01	"Hg & -100/0 kPa	B00	-1/0 bar	K00	-1/0 kg/cm <sup>2</sup>	A00	-100/0 kPa
P02	-30/0/15	D02	psi & -1/0/1	G02	psi & -1/0/1	L02	psi & -100/0/100	B01	-1/0/1	K01	-1/0/1	A01	-100/0/100
P03	-30/0/30	D03	psi & -1/0/2	G03	psi & -1/0/2	L03	psi & -100/0/200	B02	-1/0/2	K02	-1/0/2	A02	-100/0/200
P04	-30/0/60	D04	psi & -1/0/4	G04	psi & -1/0/4	L04	psi & -100/0/400	B04	-1/0/4	K04	-1/0/4	A04	-100/0/400
P05	-30/0/100	D05	psi & -1/0/7	G05	psi & -1/0/7	L05	psi & -100/0/700	B07	-1/0/7	K07	-1/0/7	A07	-100/0/700
P06	-30/0/160	D06	psi & -1/0/11	G06	psi & -1/0/11	L06	psi & -100/0/1,100	B011	-1/0/11	K011	-1/0/11	A011	-100/0/1,100
P07	-30/0/200	D07	psi & -1/0/14	G07	psi & -1/0/14	L07	psi & -100/0/1,400	B014	-1/0/14	K014	-1/0/14	A014	-100/0/1,400
P08	-30/0/300	D08	psi & -1/0/20	G08	psi & -1/0/20	L08	psi & -100/0/2,000	B020	-1/0/20	K020	-1/0/20	A020	-100/0/2,000

### PRESSURE RANGES

psi		Dual Scale & psi & Metric						Single Scale-Metric					
psi		psi & bar		psi & kg/cm <sup>2</sup>		psi & kPa		bar		kg/cm <sup>2</sup>		kPa	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
P14	0-10 psi	D14	psi & .7 bar	G14	psi & .7 kg/cm <sup>2</sup>	L14	psi & 70 kPa						
P15	0-15	D15	psi & 0-1	G15	psi & 0-1	L15	psi & 0-100	B1	0-1 bar	K1	0-1 kg/cm <sup>2</sup>	A1	0-100 kPa
P16	0-30	D16	psi & 0-2	G16	psi & 0-2	L16	psi & 0-200	B2	0-2	K2	0-2	A2	0-200
P17	0-60	D17	psi & 0-4	G17	psi & 0-4	L17	psi & 0-400	B4	0-4	K4	0-4	A4	0-400
P18	0-100	D18	psi & 0-7	G18	psi & 0-7	L18	psi & 0-700	B7	0-7	K7	0-7	A7	0-700
P19	0-160	D19	psi & 0-11	G19	psi & 0-11	L19	psi & 0-1,100	B11	0-11	K11	0-11	A11	0-1,100
P20	0-200	D20	psi & 0-14	G20	psi & 0-14	L20	psi & 0-1,400	B14	0-14	K14	0-14	A14	0-1,400
P21	0-300	D21	psi & 0-20	G21	psi & 0-20	L21	psi & 0-2,000	B20	0-20	K20	0-20	A20	0-2,000
P22	0-400	D22	psi & 0-28	G22	psi & 0-28	L22	psi & 0-2,800	B28	0-28	K28	0-28	A28	0-2,800
P23	0-600	D23	psi & 0-40	G23	psi & 0-40	L23	psi & 0-4,000	B40	0-40	K40	0-40	A40	0-4,000
P24	0-800	D24	psi & 0-55	G24	psi & 0-55	L24	psi & 0-5,500	B55	0-55	K55	0-55	A55	0-5,500
P25	0-1,000	D25	psi & 0-70	G25	psi & 0-70	L25	psi & 0-7,000	B70	0-70	K70	0-70	A70	0-7,000
P30	0-1,500	D30	psi & 0-100	G30	psi & 0-100	L30	psi & 0-10,000	B100	0-100	K100	0-100	A100	0-10,000
P31	0-2,000	D31	psi & 0-140	G31	psi & 0-140	L31	psi & 0-14,000	B140	0-140	K140	0-140	A140	0-14,000
P32	0-3,000	D32	psi & 0-200	G32	psi & 0-200	L32	psi & 0-20,000	B200	0-200	K200	0-200	A200	0-20,000
P33	0-4,000	D33	psi & 0-280	G33	psi & 0-280	L33	psi & 0-28,000	B280	0-280	K280	0-280	A280	0-28,000
P34	0-5,000	D34	psi & 0-350	G34	psi & 0-350	L34	psi & 0-35,000	B350	0-350	K350	0-350	A350	0-35,000
P35	0-6,000	D35	psi & 0-400	G35	psi & 0-400	L35	psi & 0-40,000	B400	0-400	K400	0-400	A400	0-40,000
P36	0-8,000	D36	psi & 0-550	G36	psi & 0-550	L36	psi & 0-55,000	B550	0-550	K550	0-550	A550	0-55,000
P37	0-10,000	D37	psi & 0-700	G37	psi & 0-700	L37	psi & 0-70,000	B700	0-700	K700	0-700	A700	0-70,000
P38	0-15,000	D38	psi & 0-1,000	G38	psi & 0-1,000	L38	psi & 0-100,000	B1K	0-1,000	K1K	0-1,000	A1K	0-100,000
P39	0-20,000	D39	psi & 0-1,400	G39	psi & 0-1,400	L39	psi & 0-140,000						
P40	0-30,000	D40	psi & 0-2,000	G40	psi & 0-2,000	L40	psi & 0-200,000						
P41	0-40,000	D41	psi & 0-2,800	G41	psi & 0-2,800	L41	psi & 0-280,000						
P42	0-50,000	D42	psi & 0-3,500	G42	psi & 0-3,500	L42	psi & 0-350,000						



**Don't See The Range You Need?** Reotemp has thousands of specialty dial ranges available and will work with you to create a custom range, just contact Reotemp customer service.