

# Process

CRN



Optional Flush Mounted Ring

Optional Hinged Case

## Description

Winters ASME B40.1-1991 Approved (CRN registered) Process Gauges are specially designed for service applications where operator safety is a factor. In the event of over-pressure resulting in a leak in the bourdon tube, a solid internal wall separates the ruptured bourdon tube from the face of the gauge forcing the process media through the blow-out back of the gauge.

Available with brass, 316 stainless steel or monel internals, these high quality pressure gauges are ideally suited for process, chemical and petroleum industry applications. For highly corrosive or viscous process media, a diaphragm seal may be added to protect the gauge from the process media.

To protect the gauge from the damaging effects of pulsation and vibration, the Winters Process gauge is standard field fillable with glycerin without requiring any additional kits or accessories. Suitable for process temperatures up to 149°F (65°C), glycerin filling extends service life and makes for easier reading by minimizing excess pointer movement. Winters Process Gauges may also be supplied silicone or fluorolube filled.



Corporate Office: 121 Railside Road • Toronto • ON • M3A 1B2 • (416) 444-2345 • Fax: (416) 444-8979

U.S.A. Office: 600 Ensminger Road • Buffalo • NY • 14150 • (716) 874-8700 • Fax: (716) 874-8800

[www.winters.com](http://www.winters.com) • 1-800-WINTERS (946-8377)

# Process

## Specifications Brass Internals

<b>Dial:</b>	4 1/2" (115mm) white aluminum with black and red markings
<b>Case:</b>	Black impact resistant phenolic
<b>Solid Wall:</b>	304 stainless steel
<b>Lens:</b>	Acrylic
<b>Ring:</b>	Ethylene propylene
<b>Pointer:</b>	Aluminum, anodized black, micrometer adjustable
<b>Socket:</b>	OT 58 brass
<b>Connection:</b>	1/4" NPT or 1/2" NPT standard, bottom
<b>Bourdon Tube:</b>	Phosphor bronze
<b>Movement:</b>	Brass
<b>Gasket Materials:</b>	Silicone
<b>Welding:</b>	Silver alloy
<b>Over-pressure Limit:</b>	30%
<b>Working Pressure:</b>	Maximum 75% of full scale value
<b>Ambient Temperature:</b>	-40°F to 150°F (-40°C to 65°C) dry / 14°F-150°F (-10°C-65°C) glycerine filled
<b>Process Temperature:</b>	-40°F to 150°F (-40°C to 65°C) dry / 14°F-150°F (-10°C-65°C) glycerine filled
<b>Accuracy:</b>	+/-0.5% accuracy (ANSI/ASME Grade 2A)
<b>Protection:</b>	IP65

## Specifications Stainless Steel Internals

<b>Dial:</b>	4 1/2" (115mm) white aluminum with black and red markings
<b>Case:</b>	Black impact resistant phenolic
<b>Solid Wall:</b>	304 stainless steel
<b>Lens:</b>	Acrylic
<b>Ring:</b>	Ethylene propylene
<b>Pointer:</b>	Aluminum, anodized black, micrometer adjustable
<b>Socket:</b>	316L stainless steel
<b>Connections:</b>	1/4" NPT or 1/2" NPT standard, bottom
<b>Bourdon Tube:</b>	316L stainless steel, drawn seamless
<b>Movement:</b>	304 Stainless steel
<b>Gasket Materials:</b>	Silicone
<b>Welding:</b>	TIG
<b>Over-pressure Limit:</b>	30%
<b>Working Pressure:</b>	Maximum 75% of full scale value
<b>Ambient Temperature:</b>	-40°F to 150°F (-40°C to 65°C) dry / 14°F-150°F (-10°C-65°C) glycerine filled
<b>Process Temperature:</b>	-40°F to 150°F (-40°C to 65°C) dry / 14°F-150°F (-10°C-65°C) glycerine filled
<b>Accuracy:</b>	+/-0.5% accuracy (ANSI/ASME Grade 2A)
<b>Enclosure:</b>	IP65



Corporate Office: 121 Rainside Road • Toronto • ON • M3A 1B2 • (416) 444-2345 • Fax: (416) 444-8979

U.S.A. Office: 600 Ensminger Road • Buffalo • NY • 14150 • (716) 874-8700 • Fax: (716) 874-8800

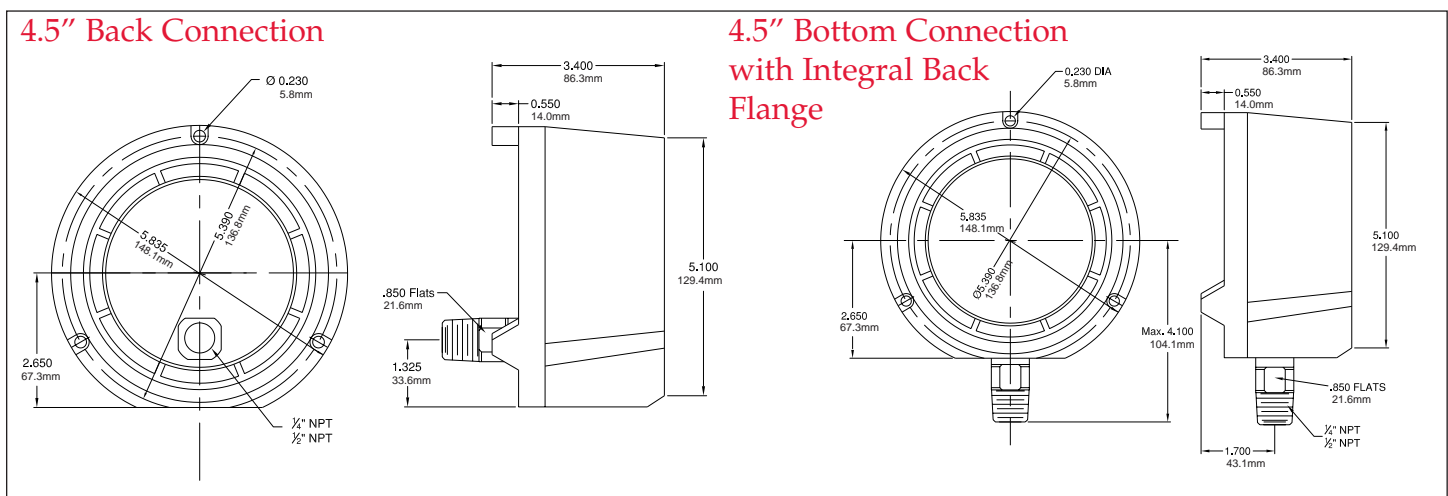
[www.winters.com](http://www.winters.com) • 1-800-WINTERS (946-8377)

# Process

## How to order: Specify product code

PRODUCT CODES						
Connection	Bottom	Back (LB)	Bottom	Back (LB)	Bottom	Back (LB)
<b>NPT</b>						
Connection Size	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"
Socket, Tube	Brass	Brass	St/St	St/St	St/St	St/St
Movement	St/St	St/St	St/St	St/St	St/St	St/St
30" Hg Vacuum/kPa	P5080	P5280	P5040	P5340	P5060	P5460
30"-0-15 psi/kPa	P5120	P5220	P5130	P5330	P5140	P5440
30"-0-30 psi/kPa	P5121	P5221	P5131	P5331	P5141	P5441
30"-0-60 psi/kPa	P5122	P5222	P5132	P5332	P5142	P5442
30"-0-100 psi/kPa	P5123	P5223	P5133	P5333	P5143	P5443
30"-0-160 psi/kPa	P5124	P5224	P5134	P5334	P5144	P5444
30"-0-200 psi/kPa	P5125	P5225	P5135	P5335	P5145	P5445
30"-0-300 psi/kPa	P5126	P5226	P5136	P5336	P5146	P5446
0-15 psi/kPa	P5081	P5281	P5041	P5341	P5061	P5461
0-30 psi/kPa	P5082	P5282	P5042	P5342	P5062	P5462
0-60 psi/kPa	P5083	P5283	P5043	P5343	P5063	P5463
0-100 psi/kPa	P5084	P5284	P5044	P5344	P5064	P5464
0-160 psi/kPa	P5085	P5285	P5045	P5345	P5065	P5465
0-200 psi/kPa	P5086	P5286	P5046	P5346	P5066	P5466
0-300 psi/kPa	P5087	P5287	P5047	P5347	P5067	P5467
0-400 psi/kPa	P5088	P5288	P5048	P5348	P5068	P5468
0-600 psi/kPa	P5089	P5289	P5049	P5349	P5069	P5469
0-1000 psi/kPa	P5098	P5298	*****	*****	*****	****
<b>NPT</b>						
Connection Size	1/2"	1/2"	1/4"	1/4"	1/2"	1/2"
0-1000 psi/kPa	P5090	P5290	P5050	P5350	P5070	P5470
0-1500 psi/kPa	P5091	P5291	P5051	P5351	P5071	P5471
0-2000 psi/kPa	P5092	P5292	P5052	P5352	P5072	P5472
0-3000 psi/kPa	P5093	P5293	P5053	P5353	P5073	P5473
0-5000 psi/kPa	P5094	P5294	P5054	P5354	P5074	P5474
0-10,000 psi/kPa	P5095	P5295	P5055	P5355	P5075	P5475
0-15,000 psi/kPa	P5096	P5296	P5056	P5356	P5076	P5476
0-20,000 psi/kPa	P5097	P5297	P5057	P5357	P5077	P5477

**Other Options:** G = Glycerin      SF = Silicone Fill      MS = Monel tube and socket  
 SG = Safety Glass      45HC = Solid Front Hinged Case      FMR = Flush Mounted Ring  
 Other ranges and connections available upon request.      LB = Lower back connection  
 (1/2" NPT Brass available on ranges below 1000 psi.)

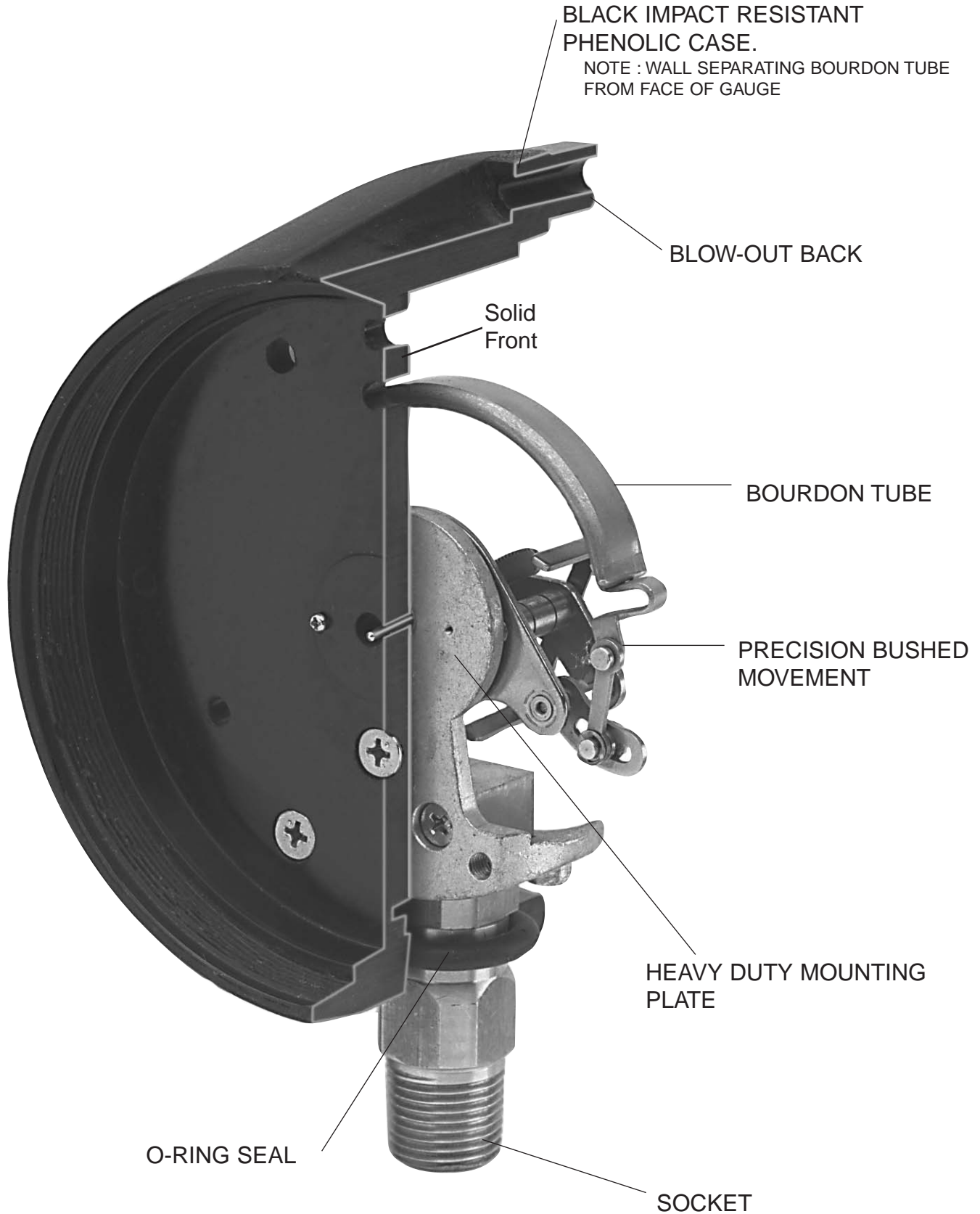


Corporate Office: 121 Railside Road • Toronto • ON • M3A 1B2 • (416) 444-2345 • Fax: (416) 444-8979

U.S.A. Office: 600 Ensminger Road • Buffalo • NY • 14150 • (716) 874-8700 • Fax: (716) 874-8800

[www.winters.com](http://www.winters.com) • 1-800-WINTERS (946-8377)

# Process



Corporate Office: 121 Railside Road • Toronto • ON • M3A 1B2 • (416) 444-2345 • Fax: (416) 444-8979

U.S.A. Office: 600 Ensminger Road • Buffalo • NY • 14150 • (716) 874-8700 • Fax: (716) 874-8800

[www.winters.com](http://www.winters.com) • 1-800-WINTERS (946-8377)

12/02