

# PENBERTHY

## materials specifications

For: RMW and TMW GAGES

Ref. No.	Description	STANDARD MATERIALS					Optional Materials
		Carbon Steel to -20°F	STS Wetted to -20°F	STS Construction to -325°F	Sour Gas Service to -20°F	Low-Temp Steel to -50°F	
1	Cover	size 1 & 2	ASTM A216 Carbon Steel (cast) Gr. WCB	ASTM A351 316/316L STS (cast) Gr. CF3M	ASTM A216 Carbon Steel (cast) Gr. WCB	ASTM A352 Carbon Steel (cast) Gr. LCB	ASTM A351 304/304L STS Gr. CF3
		size 3 - 9	ASTM A105 Carbon Steel (forged)		ASTM A105 Carbon Steel (forged)	ASTM A350 Carbon Steel (forged) Gr. LF2 Cl. 1	
2	Chamber	ASME SA515 Gr. 70 Carbon Steel	ASME SA240 316L STS	ASME SA515 Gr. 70 Carbon Steel per NACE MR0175 &/OR MR0103	ASME SA516 Carbon Steel Gr. 70/S5 -50°F	ASME SA479 304/304L STS	
3	Stud	AISI 4140 or 4142 Alloy Steel per ASTM A193 Gr. B7	ASTM A193 316 STS Gr. B8M Cl. 2	AISI 4140 or 4142 Alloy Steel per ASTM A193 Gr. B7	ASTM A320 Alloy Steel Gr. L7	ASTM A193 304 STS Gr. B8 Cl. 2	
4	Nut	ASTM A194 Carbon Steel Gr. 2 or 2H	ASTM A194 316 STS Gr. 8M	ASTM A194 Carbon Steel Gr. 2 or 2H	ASTM A194 316 STS Gr. 8M	ASTM A194 304 STS Gr. 8	
7	Gasket	Grafoil® Gr. GHP w/polyester (Mylar) insert					Nobestos® D7301 Garlock® 3000,3100,3200,3300,5500 PCTFE (replaces Kel-F®) Gylon® 3500, 3504, 3510 Teflon® (25% glass filled, virgin) Grafoil® Gr. GHR w/316 STS insert Buna-N Neoprene® Viton® consult factory for others
8	Cushion						
9	Shield <sup>A</sup>	None					ASTM D351 Mica Gr. V-4 PCTFE (replaces Kel-F®)
48	Glass	Reflex or Transparent Style Tempered Borosilicate					Aluminosilicate (Transparent only)
125	Washer	ASTM B633 Zinc Plated Carbon Steel	18-8 STS (302-304 STS)	ASTM B633 Zinc Plated Carbon Steel	18-8 STS (302-304 STS)	None	
331	Band	Rubber					None

<sup>A</sup> under no circumstances should shields be used in reflex style gages. Installation of shields in reflex style gages will keep the fluid from coming in contact with the reflective prisms, thereby prohibiting visibility of the liquid level in the gage.