

PENBERTHY material specifications

For: N7 GAGECOCKS

Ref. No.	Description	Standard Materials				Optional Materials	
		Bronze to -20°F	Carbon Steel to -20°F	Iron to -20°F	STS Construction to -325°F		
11	Body	ASME SB584 UNS C89836 Bronze	ASTM A216 Carbon Steel Gr. WCB	ASTM A395 Ductile Iron	ASTM A351 316/316L STS Gr. CF3M	ASTM A351 304/304L STS Gr. CF3 ASTM A890 Duplex 2205 STS Gr. 4A ASTM A494 Hastelloy B [®] Gr. N-12MV ASTM A743 Alloy 20 Gr. CN7M ASTM B564 Monel [®] 400 N04400 ASTM A494 Hastelloy C [®] Gr. CW12MW	
14	Ball Retainer	18-8 STS (302-304 STS)				None	
15	B A L L	Nickel Plated Carbon Steel			ASTM A493, A262 or A276 316 STS	ASTM B574 Hastelloy C [®] 276 Borosilicate Glass ASTM B473 Alloy 20 (CARP 20 Cb3) [®] ASTM B164 Monel [®] 400 ASTM B335 Hastelloy B [®] CRS 304 STS ASTM A276 Duplex 2205 STS	
		ASME SB171 CA Alloy 464 Bronze	ASTM A582 416 STS				ASTM A276 316/316L STS
		ASTM B291 Sheet Brass	ASTM A240 Sheet 316 STS				
17	Stem	ASME SB171 CA Alloy 464 Bronze	ASTM A582 416 STS		ASTM A276 316/316L STS	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel [®] 400 ASTM B473 Alloy 20 (CARP 20 Cb3) [®]	
18	Stem Packing Retainer	ASTM B291 Sheet Brass	ASTM A240 Sheet 316 STS				ASTM B335 Hastelloy B [®] ASTM B574 Hastelloy C [®] 276
25	Stem Packing	Graphite Composite				Teflon [®] Viton [®] Neoprene [®]	
26	Stem Packing Nut	ASME SB171 CA Alloy 464 Bronze	ASTM A108 Carbon Steel AISI C1018		ASTM A276 316/316L STS	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel [®] 400 ASTM B473 Alloy 20 (CARP 20 Cb3) [®] ASTM B335 Hastelloy B [®] ASTM B574 Hastelloy C [®] 276	
28	Handwheel	ASTM B85 Aluminum				None	
34	Glass Packing	Neoprene [®]				Teflon [®] Viton [®] Graphite Composite	
35	Glass Packing Retainer	ASTM A240 Sheet 316 STS				ASTM A276 316/316L STS ASTM A276 304/304L STS	
35A	Vertical Ball Seat/Glass Retainer	MPIF SS-316N2-33 316 STS (sintered)				ASTM A276 Duplex 2205 STS ASTM B164 Monel [®] 400 ASTM B473 Alloy 20 (CARP 20 Cb3) [®]	
36	Glass Packing Gland	MPIF CT-1000-K26 Bronze (sintered)	MPIF SS-316N2-33 316 STS (sintered)			ASTM B335 Hastelloy B [®] ASTM B574 Hastelloy C [®] 276	
37	Glass Packing Nut	ASME SB171 CA Alloy 464 Bronze	ASTM A108 Carbon Steel AISI C1018		ASTM A276 316/316L STS	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel [®] 400 ASTM B473 Alloy 20 (CARP 20 Cb3) [®] ASTM B335 Hastelloy B [®] ASTM B574 Hastelloy C [®] 276	
40	Guard Rods	ASTM B21 CA Alloy 464 Naval Brass			ASTM A582 303 STS	None	
47	Drain Stem	ASME SB171 CA Alloy 464 Bronze	ASTM A108 Carbon Steel AISI C1018		ASTM A276 316/316L STS	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel [®] 400 ASTM B473 Alloy 20 (CARP 20 Cb3) [®] ASTM B335 Hastelloy B [®] ASTM B574 Hastelloy C [®] 276	
100	Handwheel Screw	ASTM B633 Zinc Plated Carbon Steel				None	