

PENBERTHY

material specifications

For: **720, 730 and 780 GAGECOCKS**

Ref. No.	Description	STANDARD MATERIALS				Optional Materials
		Carbon Steel to -20°F	Wetted 316 STS to -20°F	Sour Gas Service to -20°F	Low-Temp. to -50°F	
11	Body	ASTM A105 (forged) Carbon Steel	ASTM A351 316/316L STS (cast) Gr. CF3M	ASTM A105 (forged) Carbon Steel per NACE MR0175 &/OR MR0103	ASTM A350 (forged) Carbon Steel Gr. LF2 Cl. 1	ASTM A351 304/304L STS Gr. CF3 ASTM A182 Gr. F51 Duplex 2205 STS ASTM A494 Hastelloy B® Gr. N-12MV ASTM A352 Carbon Steel Gr. LCC ASTM A743 Alloy 20 Gr. CN7M ASTM B564 Monel® 400 N04400 ASTM A494 Hastelloy C® Gr. CW12MW
15	T R I M	Ball	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
16		Seat	ASTM A276 316/316L STS			ASTM A276 316/316L STS
17		Stem	ASTM A582 416 STS	ASTM A276 316/316L STS	ASTM A276 410 STS per NACE MR0175 &/OR MR0103	ASTM A582 416 STS or ASTM A276 410 STS ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel® 400
18		Stem Packing Retainer	ASTM A108 Carbon Steel AISI C1018	ASTM A276 316/316L STS	ASTM A108 Carbon Steel AISI C1018 per NACE MR0175 &/OR MR0103	ASTM A276 316/316L STS ASTM B473 Alloy 20 (CARP 20 Cb3)® B335 Hastelloy B® ASTM B574 Hastelloy C® 276
19	Stem Packing Gland	Copper Infiltrated Iron		ASTM A276 316/316L STS		None
22	Yoke Cap Screw	ASTM A193 Carbon Steel Gr. B7		ASTM A193 Carbon Steel Gr. B7M	ASTM A193 Carbon Steel Gr. B7	None
23	Packing Gland Cap Screw					
24	Gland Follower	ASTM A105 (forged) Carbon Steel			ASTM A350 (forged) Carbon Steel Gr. LF2 Cl. 1	ASTM A351 316/316L STS Gr. CF3M
25	Stem Packing	Graphite composite				Teflon® Chevron Style
28	Handwheel	ASTM A536 Ductile Iron			ASTM A216 Carbon Steel Gr. WCB	None
30	Handwheel Nut	SAE J995 Carbon Steel Gr. 2				None
42	Yoke Gasket	Non-asbestos w/304 STS insert				Teflon® w/Monel insert
45	Yoke	ASTM A105 (forged) Carbon Steel			ASTM A350 (forged) Carbon Steel Gr. LF2 Cl. 1	ASTM A351 316/316L STS Gr. CF3M
125	Washer	cadmium plated steel				None
228	Stem Sleeve	ASTM A582 416 STS				ASTM A276 316/316L STS

720 Gagecock

31	Gage Tailpipe	ASTM A108 Carbon Steel AISI C1018	ASTM A276 316/316L STS	ASTM A108 Carbon Steel	ASTM A350 (forged) Carbon Steel Gr. LF2 Cl. 1	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel® 400
32	Gage Coupling Nut	ASTM A108 Carbon Steel AISI C1018	ASTM A108 Carbon Steel AISI C1018	AISI C1018 per NACE MR0175 &/OR MR0103	Investment Cast 316 STS	ASTM B473 Alloy 20 (CARP 20 Cb3)® B335 Hastelloy B® ASTM B574 Hastelloy C®

780 Gagecock

34	Glass Packing	Graphite composite				Teflon®
36	Glass Packing Gland	MPIF SS-316N2-33 316 STS (sintered)			ASTM A350 (forged) Carbon Steel Gr. LF2 Cl. 1	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel® 400
37	Glass Packing Nut	ASTM A108 Carbon Steel AISI C1018	ASTM A108 Carbon Steel AISI C1018	ASTM A108 Carbon Steel AISI C1018	Investment Cast 316 STS	ASTM B473 Alloy 20 (CARP 20 Cb3)® B335 Hastelloy B® ASTM B574 Hastelloy C®