



Fisher Controls Int. Inc.

Design E Series Bonnet, NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

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EX2 - A B C D E F G H J M N P 9A 9B 9C 9D

ITEM A - PACKING FLANGE SET**STD PACKING**

STD, EXT & BELLOWS SEAL BONNETS SIZE 1/2-4

TRIM	STEEL	316 SST W/STD SA105/NCF YOKE LOCKNUT	316 SST W/316 SST YOKE LOCKNUT	ALY 20	MONEL	N10276	SST FLG / STL BOLTS
	A	A	A	A	A	A	A
	1	2	55	5	7	4	51
STL SEISMIC YOKE OR BORATED WATER SERVICE (17-4 SST YOKE LOCKNUT)							
	11	12	--	--	--	--	53

NACE

FLANGE BOLTS	CLASS II		CLASS III			
	STL	SST	STL		SST	
	B7M/NCF2	B7M/NCF2	B7	B8M CL2	B7	B8M CL2
	A	A	A	A	A	A
	13	54	1	10	51	52

ENVIRO-SEAL BELLOWS SEAL BONNET

TRIM	316 SST	N10276
SIZE	A	A
1 1/2 & 2	14	15
3 & 4	16	17



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NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem**

ITEM A - PACKING FLANGE SET - FLG, STUDS, NUTS, YOKE LOCKNUT (CONT)

LIVE LOAD PACKING

HIGH SEAL & HIGH SEAL ULF PACKING FOR STANDARD, EXTENSION AND BELLOWS SEAL BONNET

	TRIM	316 SST
	SPRING	17-7 PH N07718
PACKING	A	A
GRAPHITE & GRAPHITE ULF	18	19

ENVIRO-SEAL PACKING

STD, EXT AND BELLOWS SEAL BONNET

		TRIM	316 SST W/STD SA105/NCF YOKE LKNT	316 SST W/316 SST YOKE LKNT	NACE B7M/NCF2 BOLTS 316 SST	N10276	MONEL	ALY 20
PACKING			A	A	A	A	A	A
GPH, SGL	ULF		20	56	21	22	23	24
	NUCLEAR		50	--	--	--	--	--
PTFE, DBL			25	57	26	27	28	29
	W/CARBON BSHG		25	57	26	27	28	29
DUPLEX-PTFE/GRAPH			25	57	26	27	28	29
H2 DUPLEX			20	56	21	22	23	24

ENVIRO-SEAL BELLOWS BONNET

SIZE	PACKING	TRIM	316 SST	NACE B7M/NCF2 BOLTS 316 SST	N10276	MONEL	ALLOY 20
			A	A	A	A	A
1 1/2 & 2	GRAPHITE ULF		30	31	32	33	34
	PTFE, DOUBLE		35	36	37	38	39
3 & 4	GRAPHITE ULF		40	41	42	43	44
	PTFE, DOUBLE		45	46	47	48	49

KALREZ, SINGLE PACKING

STD, EXT AND BELLOWS SEAL BONNET

		TRIM	316 SST	NACE B7M/NCF2 BOLTS 316 SST	N10276	MONEL	ALLOY 20
PACKING			A	A	A	A	A
KALREZ, SINGLE			25	26	27	28	29



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ITEM A - PACKING FLANGE SET - FLG, STUDS, NUTS, YOKE LOCKNUT (CONT)

ENVIRO-SEAL BELLOWS BONNET

SIZE	PACKING	TRIM	316 SST	NACE B7M/NCF2 BOLTS 316 SST	N10276	MONEL	ALLOY 20
			A	A	A	A	A
1 1/2 & 2	KALREZ, SINGLE		35	36	37	38	39
3 & 4	KALREZ, SINGLE		45	46	47	48	49

PACKING	TRIM	SPRING	A
TA-LUFT	316 SST	N07718	20

ISO-SEAL PACKING

TRIM	316 SST
SPRING	N07718
	A
CLASS 125-600	58
CLASS 900-1500	59
CLASS 2500	60

ITEM B - PACKING**ITEM C - PACKING PARTS - SPRING & WASHER, PACKING, FOLLOWER****ITEM 9A - PACKING ARRANGEMENT (CONTINUED)**

SEE BULLETIN 59.1:062

TRIM	METAL PACKING BOX PARTS		STD FOR EZ BODY ALY LANTERN RING, PTFE/GLASS PKG RING, 316 FOLLOWER							
			MAX PRESSURE		TEMPERATURE		MAX PRESSURE		TEMPERATURE	
	° F	° C	PSI	BAR	° F	° C	PSI	BAR	° F	° C
316 & 317	-425+1100	-254+593	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
316L	-425+850	-254+545	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
321	-325+1500	-198+816	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
347	-425+1500	-254+816	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
304 & 304L	-425+800	-254+427	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
N10665	-425+700	-254+371	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
N10276	-425+1000	-254+538	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
ALLOY 20	-425+1100	-254+593	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
NICKEL	-325+600	-198+316	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
MONEL	-400+900	-240+482	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
N06600	-425+1200	-254+649	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
S31803	-60+600	-51+316	740	51	-100+70	-73+21	125	8.6	-100+300	73+149
S32760	-60+600	-51+316	740	51	-100+70	-73+21	125	8.6	-100+300	73+149



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Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM B - PACKING (CONT)**ITEM C - PACKING PARTS, SPRING & WASHER/SPACER, PACKING RING, FOLLOWER (CONT)****ITEM 9A - PACKING ARRANGEMENT (CONT)**

STD PACKING

STD, EXT & BELLOWS SEAL BONNET

PACKING BOX SIZE 13A0500

SINGLE PACKING ARRANGEMENT

PACKING	PTFE FMS 17D7		LOW CHLORIDE GRAPH RIBBON & FILAMENT		EZ-ALLOY TRIM W/O LUBRICATOR PTFE/COMP FMS 17D26		NACE LOW CHLORIDE GRAPH RIBBON & FILAMENT	
ARRANGEMENT	12A7811		13A9775		17A7393		13A9775	
TRIM	B	C	B	C	B	C	B	C
316 SST	1	2	17	50	--	--	17	50
316L SST	1	3	17	51	--	--	M	51
317 SST	1	7	17	--	--	--	M	M
321 SST	1	5	17	--	--	--	M	M
347 SST	1	6	17	--	--	--	M	M
304 SST	1	4	17	--	--	--	M	M
304L SST	1	16	17	--	--	--	M	M
N10665	1	8	17	--	21	--	M	M
N10276	1	9	17	--	21	66	M	M
ALLOY 20	1	10	17	--	21	67	M	M
NICKEL	1	--	17	--	21	--	M	M
MONEL	1	12	17	60	21	68	M	M
N06600	1	--	17	--	21	--	M	M
S31803	1	157	17	156	--	--	M	M
S32760	1	162	17	161	--	--	M	M

PACKING	GRAPHITE COMPOSITE		GRAPHITE ULF	
ARRANGEMENT	12B5793		19B4114	
TRIM	B	C	B	C
316 SST	27	152	53	141
316L SST	-	-	53	142
MONEL	-	-	53	143



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ITEM B - PACKING (CONT)**ITEM C - PACKING PARTS, SPRING & WASHER/SPACER, PACKING RING, FOLLOWER (CONT)****ITEM 9A - PACKING ARRANGEMENT (CONT)****DOUBLE PACKING ARRANGEMENT (ALL METAL PACKING BOX PARTS)**

PACKING ARRANGEMENT		NOTE: DESIGN EZ ALLOY TRIM - ALY LANTERN RING, PTFE/GLASS PKG BOX RING, 316 FOLLOWER														
		PTFE FMS 17D7 DESIGN EZ ALL OTHER							PTFE/ COMP FMS 17D26		CHEST- ERTON 324		GRAPH COMP FMS 17D28		LOW CHLORIDE GRAPH RIB/FIL	
		12A7814				NO.1	NO.2	NO.3	12A7815		12A7815		13A0109		14A1849	
TRIM		B	C	B	C	9A	9A	9A	B	C	B	C	B	C	B	C
316 SST		3	34	3	34	1	2	3	6	18	16	18	5	18	18	34
316L SST		3	--	3	--	1	2	3	6	19	16	19	5	19	18	--
321 SST		3	--	3	--	1	2	3	6	21	16	21	5	21	18	--
347 SST		3	--	3	--	1	2	3	6	22	16	22	5	22	18	--
304 SST		3	36	3	36	1	2	3	6	20	16	20	5	20	18	36
304L SST		3	48	3	48	1	2	3	6	32	16	32	5	32	18	48
N10665		20	--	3	--	1	2	3	6	24	16	24	5	24	18	--
N10276		20	84	3	41	1	2	3	6	--	16	--	5	--	18	41
ALLOY 20		20	85	3	42	1	2	3	6	26	16	26	5	26	18	42
MONEL		20	86	3	44	1	2	3	6	28	16	28	5	28	18	44
S31803		20	--	3	155	1	2	3	6	--	16	--	5	--	18	155
S32760		20	--	3	160	1	2	3	6	--	16	--	5	--	18	160

NACE

PACKING	PTFE/COMP FMS 17D8	
ARRANGEMENT	12A7815	
TRIM	B	C
316 SST	6	18

LEAKOFF PACKING ARRANGEMENT

PACKING	PTFE FMS 17D7	LOW CHLORIDE GRAPH RIB/FIL
ARRANGEMENT	12A7813	14A2485
TRIM	B	C
316 SST	10	34



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ITEM B - PACKING (CONT)

ITEM C - PACKING PARTS - SPRING & WASHER OR SPACER, PACKING RING, FOLLOWER (CONT)

ITEM 9A - PRODUCT DESCRIPTOR (PACKING ARRANGEMENT) (CONT)

STD PACKING

ENVIRO-SEAL BELLOWS SEAL BONNET

SINGLE PACKING ARRANGEMENT

SIZE	PBS	TRIM	PACKING ARRANGEMENT BUSHING	PTFE FMS 17D7		
				12B4185 B	C	NO. 1 9A
1 1/2 & 2	16A0511	316L	316 SST/PTFE	22	69	1
			ALLOY 6	22	70	1
			316 SST/CR CT	22	71	1
		N10276	N10276/PTFE GL	22	72	1
			N10276/PTFE CARB	22	73	1

DOUBLE PACKING ARRANGEMENT

SIZE	PBS	TRIM	PACKING ARRANGEMENT BUSHING	PTFE FMS 17D7			LOW CHLORIDE GRAPH RIB/FIL	
				18A0906 B	C	NO. 1 9A	18A0909 B	C
1 1/2 & 2	16A0511	316L	316 SST/PTFE	23	74	1	24	74
			ALLOY 6	23	75	1	24	75
			316 SST/CR CT	23	76	1	24	76
		N10276	N10276/PTFE GL	23	77	1	24	77
			N10276/PTFE CARB	23	78	1	24	78



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ITEM B - PACKING (CONT)**ITEM C - PACKING PARTS - SPRING & WASHER OR SPACER, PACKING RING, FOLLOWER (CONT)****ITEM 9A - PRODUCT DESCRIPTOR (PACKING ARRANGEMENT) (CONT)**

STD PACKING

ENVIRO-SEAL BELLOWS SEAL BONNET

DOUBLE PACKING ARRANGEMENT

SIZE	PBS	TRIM	PACKING ARRANGEMENT	PTFE FMS 17D7		NO. 1	LOW CHLORIDE GRAPH RIB/FIL	
				18A5338			12BB6102	
			BUSHING	B	C	9A	B	C
3 & 4	13A1006	316L	316 SST/PTFE	25	79	1	26	79
			ALLOY 6	25	80	1	26	80
			316 SST/CR CT	25	81	1	26	81
		N10276	N10276/PTFE GL	25	82	1	26	82
			N10276/PTFE CARB	25	83	1	26	83

LIVE LOAD PACKING, PBS 13A5000

HIGH SEAL & HIGH SEAL ULF PACKING FOR STANDARD, EXTENSION AND BELLOWS SEAL BONNET

PACKING ARRANGEMENT	GRAPHITE ULF		GRAPHITE	
	19B4114		12B5793	
TRIM	B	C	B	C
316 SST	53	136	27	87

ENVIRO-SEAL PACKING

PLAIN, EXT AND STD BELLOWS SEAL BONNET

PBS 13A0500

PACKING ARRANGEMENT	GRAPHITE ULF		NUCLEAR GRAPHITE		PTFE/ CARBON PTFE		PTFE/ GLASS PTFE	
	19B4114		12B5793		12B6927		12B6927	
TRIM	B	C	B	C	B	C	B	C
316 SST	53	137	27	113	31	93	32	93
N10276	53	138	--	--	31	94	32	94
MONEL	53	139	--	--	31	95	32	95
ALLOY 20	53	140	--	--	31	96	32	96
S31803	53	154	--	--	31	153	32	153
S32760	53	159	--	--	31	158	32	158



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ITEM B - PACKING (CONT)**ITEM C - PACKING PARTS - SPRING & WASHER OR SPACER, PACKING RING, FOLLOWER (CONT)**

ENVIRO-SEAL BELLOWS SEAL BONNET

SIZE	PBS	PACKING	GRAPHITE ULF		PTFE/CARBON PTFE		PTFE/GLASS PTFE	
		ARRANGEMENT	19B4118		12B7788		12B7788	
		TRIM	B	C	B	C	B	C
1 1/2 & 2	16A0511	316 SST	54	144	33	101	34	101
		N10276	54	145	33	102	34	102
		MONEL	54	146	33	103	34	103
		ALLOY 20	54	147	33	104	34	104

SIZE	PBS	PACKING	GRAPHITE ULF		PTFE/CARBON PTFE		PTFE/GLASS PTFE	
		ARRANGEMENT	19B4124		12B7827		12B7827	
		TRIM	B	C	B	C	B	C
3 & 4	13A1006	316 SST	55	148	35	109	36	109
		N10276	55	149	35	110	36	110
		MONEL	55	150	35	111	36	111
		ALLOY 20	55	151	35	112	36	112

LIVE LOAD PACKING

ENVIRO-SEAL PACKING

PLAIN, EXT AND BELLOWS SEAL BONNET

PBS 13A0500

125 1818555

PACKING ARRANGEMENT	PTFE W/CARBON BUSHINGS				DUPLEX-GRAPH/PTFE				H2 DUPLEX	
	CARBON PTFE		GLASS PTFE		GRAPH PTFE/ CARBON PTFE		GRAPH PTFE/ GLASS PTFE			
	14B7546		14B7546		14B7468		14B7468		19B2875	
TRIM	B	C	B	C	B	C	B	C	B	C
316 SST	40	114	41	114	42	114	43	114	60	114
N10276	40	115	41	115	42	115	43	115	60	115
MONEL	40	116	41	116	42	116	43	116	60	116
ALLOY 20	40	117	41	117	42	117	43	117	60	117

LIVE LOAD PACKING, PBS 13A0500

TA-LUFT PACKING

PACKING	CNN073 PTFE		SET-85 GRAPHITE	
ARRANGEMENT	1Q57041		1Q57046	
TRIM MATL	B	C	B	C
316 SST	51	134	52	135

ISO-SEAL PACKING

PRESSURE	CLASS 150-600				CLASS 900-1500				CLASS 2500			
	GRAPHITE		PTFE		GRAPHITE		PTFE		GRAPHITE		PTFE	
	ARRANGEMENT		ARRANGEMENT		ARRANGEMENT		ARRANGEMENT		ARRANGEMENT		ARRANGEMENT	
	GF07999		GF07999		GF08002		GF08002		GF09719		GF09719	
TRIM MATL	B	C	B	C	B	C	B	C	B	C	B	C
316 SST(STD)	56	163	57	164	58	163	59	164	61	163	62	164



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ITEM B - PACKING (CONT)**ITEM C - PACKING PARTS - SPRING & WASHER OR SPACER, PACKING RING, FOLLOWER (CONT)**

KALREZ PACKING

PLAIN, EXT AND STD BELLOWS SEAL BONNET

PBS 13A0500

PACKING	KALREZ/VESPEL		KALREZ/VESPEL/GRAPH	
ARRANGEMENT	14B7030		14B7031	
TRIM	B	C	B	C
316 SST	45	118	46	122
N10276	45	119	46	123
MONEL	45	120	46	124
ALLOY 20	45	121	46	125

ENVIRO-SEAL BELLOWS BONNET

PACKING	SIZE 1 1/2 & 2/PBS 16A0511		SIZE 3 & 4/PBS 13A1006	
ARRANGEMENT	KALREZ/VESPEL		KALREZ/VESPEL	
TRIM	B	C	B	C
316 SST	48	126	50	130
N10276	48	127	50	131
MONEL	48	128	50	132
ALLOY 20	48	129	50	133

ITEM D - BONNET**ITEM E - BAFFLE/BUSHING**

BONNET	PLAIN, CAV III, BELLOWS SEAL, EXT STYLE 4		EXT STYLE 1 & 2			EXT STYLE 3 W/ LIQUID STEM SEAL	TEMP ° F	TEMP ° C
	TEMP ° F	TEMP ° C	BUSHING	TEMP ° F	TEMP ° C	BUSHING		
ALY 20	-325+300	-198+149	ALY 20	-325+300	-198+149	316 SST/PTFE	-325+450	-198+232
CF8M	-325+1000	-198+538	316 SST	-325+1000	-198+538			
CI	-100+450	-73+232						
CW2M	-325+1000	-198+538	N10276	-325+1000	-198+538			
C5	-20+1100	-29+593	STL 4340	-20+1000	-29+538			
LCC	-50+650	-46+343						
MONEL	-325+900	-198+482						
WCC	-20+800	-29+427	STL 1018	-20+800	-29+427			
WC1	-20+850	-29+454	STL 4340	-20+850	-29+454			
WC6	-20+1000	-29+538	STL 4340	-20+1000	-29+538			
WC9	-20+1050	-29+566	STL 4340	-20+1050	-29+566			
347 SST	-325+1100	-198+593	347 SST	-325+1100	-198+593			
CD3MN	-60+600	-51+316	S31803	-60+600	-51+316			
CD3MWCUN	-60+600	-51+316	S32760	-60+600	-51+316			



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ITEM D - BONNET

DESIGN E CL125-600
 PLAIN BONNET, PBS 13A0500
 STD SERVICE

	MATL	CI	WCC	C5	CF8M	LCC	WC1	WC6	347 SST	ALY 20	CW2M	WC9	MONEL	CD3MN
SIZE	LUBR	D	D	D	D	D	D	D	D	D	D	D	D	D
1/2-	TAP	156	1	5	10	2	--	--	--	--	--	3	973	--
1 1/4	N/TAP	1087	1088	1090	1091	1089	--	--	--	--	--	1126	1127	1275
1 1/2	TAP	161	26	30	35	27	--	32	--	--	--	--	974	--
	N/TAP	1092	1093	1095	1097	1094	--	1096	--	--	--	--	1128	1276
2	TAP	166	1050	56	61	53	55	58	--	74	--	932	975	--
	N/TAP	1098	1099	1102	1104	1100	1101	1103	--	1130	1129	1131	1132	1277
2 1/2	TAP	171	77	82	87	79	--	84	--	--	--	83	--	--
	N/TAP	1105	1106	1108	1110	1107	--	1109	--	--	--	1133	--	1278
3	TAP	176	1051	108	113	105	107	110	--	126	--	933	976	--
	N/TAP	1111	1112	1115	1117	1113	1114	1116	--	1135	1134	1136	1137	1279
4	TAP	181	1052	134	139	131	--	136	140	152	--	132	977	--
	N/TAP	1118	1119	1121	1123	1120	--	1122	1138	1140	1139	1141	1142	1280
6	TAP	942	943	--	--	--	--	--	--	--	--	--	--	--
	N/TAP	1124	1125	--	--	--	--	--	--	--	--	--	--	--

NACE SERVICE

	MATL	STL	316 SST	LCC	CD3MN	CD3MWCUN	CD3MN W/NORSOK	CD3MWCUN W/NORSOK
SIZE	LUBR	D	D	D	D	D	D	D
1/2-1 1/4	N/TAP	1160	1254	--	1269*	1287*	1293*	1299*
1 1/2	N/TAP	1162	1255	1260	1270*	1288*	1294*	1300*
2	N/TAP	1147	1256	1246	1271*	1289*	1295*	1301*
2 1/2	N/TAP	1150	1265	--	1305*	1290*	1296*	1302*
3	N/TAP	1153	1257	1247	1273*	1291*	1297*	1303*
4	N/TAP	1156	1258	1248	1274*	1292*	1298*	1304*

NOTE – MODULES WITH * ONLY MEET THE REQUIREMENTS OF NACE MR0175/ISO15156



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ITEM D - BONNET (CONT)

DESIGN E CL125-600

EXT BONNET STYLE 1, PBS 13A0500

STD SERVICE

	MATL	STL	C5	CF8M	LCC	WC1	WC6	347 SST	WC9	CD3MN
SIZE	LUBR	D	D	D	D	D	D	D	D	D
1/2-1 1/4	TAP	334	338	343	--	--	340	--	333	--
	N/TAP	1163	1164	1166	--	--	1165	--	1195	1306
1 1/2	TAP	359	363	368	360	362	365	369	361	--
	N/TAP	1167	1170	1172	1168	1169	1171	1173	1196	1307
2	TAP	384	388	393	385	--	390	--	386	--
	N/TAP	1174	1176	1178	1175	--	1177	1179	1197	1308
2 1/2	TAP	409	413	418	--	--	415	--	--	--
	N/TAP	1180	1181	1183	--	--	1182	--	1198	1309
3	TAP	434	438	443	435	--	440	--	436	--
	N/TAP	1184	1186	1188	1185	--	1187	--	1199	1310
4	TAP	459	463	468	460	462	465	469	461	--
	N/TAP	1189	1192	1194	1190	1191	1193	1145	1200	1311

NACE SERVICE

	MATL	CD3MN	CD3MWCUN	CD3MN W/NORSOK	CD3MWCUN W/NORSOK
SIZE	LUBR	D	D	D	D
1/2-1 1/4	N/TAP	1312*	1324*	1330*	1336*
1 1/2	N/TAP	1313*	1325*	1331*	1337*
2	N/TAP	1314*	1326*	1332*	1338*
2 1/2	N/TAP	1315*	1327*	1333*	1339*
3	N/TAP	1316*	1328*	1334*	1340*
4	N/TAP	1317*	1329*	1335*	1341*

NOTE – MODULES WITH * ONLY MEET THE REQUIREMENTS OF NACE MR0175/ISO15156

EXT BONNET STYLE 2, PBS 13A0500

	MATL	WCC	C5	CF8M	LCC
SIZE	LUBR	D	D	D	D
1/2-1 1/4	TAP	--	--	643	--
	N/TAP	--	--	1201	--
1 1/2	TAP	--	--	668	--
	N/TAP	--	--	1202	--
2	TAP	684	688	693	685
	N/TAP	1203	--	1205	1204
2 1/2	TAP	--	--	718	710
	N/TAP	1206	--	1208	1207
3	TAP	734	--	743	735
	N/TAP	1209	--	1211	1210
4	TAP	759	--	768	760
	N/TAP	1212	--	1214	1213



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM D - BONNET (CONT)**ITEM 9D - DIM A (CONT)**

EXT STYLE 3 BONNET W/LIQUID STEM SEAL BUSHING, PBS 13A0500, LUBR TAPPING

BONNET	LUBR	SIZE	DIM A	D	9D
CF8M	TAP	1	21.62	1249	4
		1 1/2	21.50	1250	5
		2	21	1251	1
		2 1/2	21	1342	1
		3	21	1252	1
		4	21	1253	1
		6 X 4	22.38	1253	2
		8 X 4	22.44	1253	3
	N/TAP	1	21.62	1343	4
		1 1/2	21.50	1344	5
		2	21	1345	1
		2 1/2	21	1346	1
		3	21	1347	1
		4	21	1348	1
		6 X 4	22.38	1349	2
		8 X 4	22.44	1350	3

EXT BONNET STYLE 4 W/LEAKOFF CONNECTION, PBS 13A0500

BONNET	STEEL
SIZE	2
CONNECTION	D
1/2 NPT	963

CL125-600

DESIGN E

BELLOWS SEAL BONNET, PBS 13A0500

SIZE	1/2-1 1/4		1 1/2		2 IN		2 1/2		3		4	
	TAP	N/TAP	TAP	N/TAP	TAP	N/TAP	TAP	N/TAP	TAP	N/TAP	TAP	N/TAP
MATL	D	D	D	D	D	D	D	D	D	D	D	D
WCC	784	1215	809	1216	834	1217	859	1220	884	1222	909	1225
CF8M	--	--	--	--	--	1219	--	1221	--	1224	--	1226
LCB	--	--	--	--	--	1218	--	--	--	1223	--	--
CW2M	--	--	--	--	--	--	--	--	--	--	924	1227

ENVIRO-SEAL BELLOWS SEAL BONNET

BODY/BONNET	PBS	16A0511				13A1006			
	SIZE	1 1/2		2		3		4	
		TAP	N/TAP	TAP	N/TAP	TAP	N/TAP	TAP	N/TAP
		D	D	D	D	D	D	D	D
WCC		1266	1267	1072	1228	1077	1232	1082	1236
ALY 20		-	-	1075	1231	1080	1235	1085	1239
HAST C (CW2M)		-	-	1074	1230	1079	1234	1084	1238
MONEL		-	-	1076	1240	1081	1241	1086	1242
316L (CF3M)		-	1268	1073	1229	1078	1233	1083	1237



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM D - BONNET (CONT)

DESIGN ER, SIZE 1/2-4, PBS 13A0500

BONNET	BODY	MATL	SERVICE	TAP	N/TAP
				D	D
PLAIN	STL	STL	STD	934	1143
			NACE	934	1143
	316 SST	316 SST	STD	935	1144
			NACE	935	1144
	CI	STL	STD	934	1143
SEAL WELDED	STL/316 SST	ALL	ALL	N	N

CL1500, W/LUBRICATOR TAPPING, PBS 13A0500

DESIGN	SIZE	MATL	WCC	C5	CF8M	WC6	WC9
		BONNET	D	D	D	D	D
E	3	PLAIN	936	937	940	939	941

DESIGN	SIZE	MATL	WCC	LCC	C5	CF8M	WC9	316H
		BONNET	D	D	D	D	D	D
EH	1	PLAIN	1056	1057	992	994	993	995
		EXT STYLE 1	1062	--	1028	1030	1029	--
	2	PLAIN	1058	1059	998	1000	999	1001
		EXT STYLE 1	1063	--	1032	1034	1033	--
	3	PLAIN	1060	1061	1004	1006	1005	1007

CL2500, W/LUBRICATOR TAPPING, PBS 13A0500

DESIGN E

SIZE	MATL	WCC	C5	CF8M	LCC	WC6
	BONNET	D	D	D	D	D
3	PLAIN	925	926	929	927	928

DESIGN EH

SIZE	MATL	WCC	LCC	C5	CF8M	WC9	316H
	BONNET	D	D	D	D	D	D
1	PLAIN	1064	1065	980	982	981	983
	EXT STYLE 1	1070	--	1036	1038	1037	--
2	PLAIN	1066	1067	986	988	987	989
	EXT STYLE 1	1071	--	1040	1042	1041	--
3	PLAIN	1068	1069	1010	1012	1011	1013



Fisher Controls Int. Inc.

**Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem**

ITEM D - BONNET (CONT)

CL300-600, DESIGN NOTCHFLO, PLAIN BONNET, PBS 13A0500
STD SERVICE

	MATL	WCC	LCC	WC9	CF8M	CF8C	CD3MN
SIZE	LUBR	D	D	D	D	D	D
1	N/TAP	1088	1089	1126	1091	1261	1262
2	N/TAP	1099	1100	1131	1104	1263	1264

NACE SERVICE

	MATL	WCC	LCC	WC9	CF8M	CF8C	CD3MN
SIZE	LUBR	D	D	D	D	D	D
1	N/TAP	1160	1259	-	1091	1261	1262
2	N/TAP	1147	1246	-	1104	1263	1264

ITEM E - BAFFLE OR BUSHING

DESIGN E CL150-600

	MATL	WCC	C5	CF8M	LCC	WC1	WC6	347 SST	ALY 20	WC9	CD3MN	CD3MWCUN
BONNET	SIZE	E	E	E	E	E	E	E	E	E	E	E
EXT STYLE 1	1/2-2	80	81	82	80	81	81	--	--	81	116	118
	2 1/2-4	86	87	88	86	87	87	89	90	87	117	119
EXT STYLE 2	1/2-1 1/2	80	81	82	80	81	81	--	--	81	--	--
	2-3	92	93	94	92	--	--	--	--	--	--	--
	4	98	--	100	98	--	--	--	--	--	--	--
OTHER	ALL	N	N	N	N	N	N	N	N	N	N	N

EXT BONNET STYLE 3

BONNET	LIQUID STEM SEAL BUSHING	E
CF8M	316 SST/PTFE	114
	316 SST/PTFE/N07750 (NACE)	115

DESIGN EH CL1500-2500

	MATL	WCC	C5	WC9	CF8M
BONNET	SIZE	E	E	E	E
EXT STYLE 1	1	107	108	108	109
	2	110	111	111	112
OTHER	ALL	N	N	N	N

DESIGN NOTCHFLO CL300-600

	MATL	WCC	LCC	WC9	CF8M	CF8C	CD3MN
BONNET	SIZE	E	E	E	E	E	E
PLAIN	ALL	N	N	N	N	N	N



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM F - PIPE PLUG/LUBRICATOR/ISOLATING VALVE**ITEM N - LUBRICATOR FLUID**

BONNET	CLASS	PLUG/LUBR/ISOL VALVE	MATL	F	LUBRICATOR FLUID	
					SILICONE	FLUROLUBE
NON-TAPPED	ALL	NONE	ALL	N	N	N
TAPPED	125-600	PIPE PLUG	CI	1	N	N
			WCC	1	N	N
			LCC	1	N	N
			C5	2	N	N
			WC1	1	N	N
			WC6	2	N	N
			WC9	2	N	N
			316 SST	2	N	N
			347 SST	2	N	N
			ALY 20	6	N	N
			CW2M	5	N	N
			MONEL	3	N	N
		LUBRICATOR	MONEL	--	1	2
			OTHER	9	1	2
		LUBR/ISOLATING VALVE	316 SST	11	1	2
			347 SST	11	1	2
			ALY 20	11	1	2
			CW2M	11	1	2
			MONEL	--	1	2
			OTHER	10	1	2
	1500-2500	PIPE PLUG	WCC	1	N	N
			LCC	1	N	N
			C5	2	N	N
			WC6	2	N	N
			WC9	2	N	N
			316 SST	2	N	N
			MONEL	3	N	N
		LUBRICATOR	WCC	9	1	2
			LCC	9	1	2
			C5	9	1	2
			WC6	9	1	2
			WC9	9	1	2
			316 SST	9	1	2
		LUBR/ISOLATING VALVE	WCC	12	1	2
			LCC	12	1	2
			C5	12	1	2
			WC6	12	1	2
			WC9	12	1	2
			316 SST	13	1	2



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM G - BELLOWS SEAL PARTS

BONNET	OTHER TEMPERATURE SEE
BELLOWS SEAL	DV8931
ENVIRO-SEAL BELLOWS SEAL	22B4252

BONNET	SIZE	BELLOWS	PLY	TEMP ° F	TEMP ° C	PRESSURE AT 100 °F (37.8 °C)	
						PSI	BAR
BELLOWS SEAL	ALL	316 SST, MONEL	N/A	-20+1000	-29+538	400	27.6
ENVIRO-SEAL BELLOWS SEAL	1 1/2 & 2	INCONEL 625	1	-20+800	-29+427	550	37.9
		INCONEL 625	2	-20+800	-29+427	1000	68.9
		HAST C22	1	-20+800	-29+427	550	37.9
		HAST C22	2	-20+800	-29+427	1000	68.9
	3 & 4	INCONEL 625	1	-20+800	-29+427	340	23.4
		INCONEL 625	2	-20+800	-29+427	625	43.1
		HAST C22	1	-20+800	-29+427	340	23.4
		HAST C22	2	-20+800	-29+427	625	43.1

ITEM G - BELLOWS SEAL PARTS (USE THRU 600 LB ONLY)**ITEM J - CONNECTION STUD OR ADAPTOR**

BELLOWS SEAL, DESIGN E, ER

SIZE	CAPACITY	TRIM		STD SST		316 SST		HAST B		ALY 20		MONEL	
		BELLOWS		316 SST		316 SST		316 SST		316 SST		MONEL	
		VSC		G	J	G	J	G	J	G	J	G	J
1/2-1 1/2	FULL	1L5000		1	1	--	1	3	2	--	3	--	4
	RESTRICTED	1L5000		1	9	--	9	3	10	--	11	--	12
	M-FLUTE, M-FORM, M-FLOW	1L3750		1	5	--	5	3	6	--	7	--	8
2	FULL	1L5000		26	13	27	13	--	14	--	15	50	16
	M-FLUTE, M-FORM, M-FLOW	1L3750		26	17	27	17	--	18	--	19	50	20
2 X 1	RESTRICTED	1L5000		26	13	27	13	--	14	--	15	50	16
2 X 1 1/2	RESTRICTED	1L5000		26	13	27	13	--	14	--	15	50	16
2 1/2	FULL	1L5000		26	21	27	21	--	22	--	23	50	24
2 1/2 X 1 1/2	RESTRICTED	1L5000		26	13	27	13	--	14	--	15	50	16
2 1/2 X 2	RESTRICTED	1L5000		26	21	27	21	--	22	--	23	50	24
3	FULL	1L5000		26	21	27	21	--	22	--	23	50	24
3 X 2	RESTRICTED	1L5000		26	13	27	13	--	14	--	15	50	16
3 X 2 1/2	RESTRICTED	1L5000		26	21	27	21	--	22	--	23	50	24
4	FULL	1L7500		51	25	52	25	--	26	--	27	--	28
4 X 2 1/2	RESTRICTED	1L7500		51	25	52	25	--	26	--	27	--	28
4 X 3	RESTRICTED	1L7500		51	25	52	25	--	26	--	27	--	28

DESIGN EZ

1/2-1 1/2	FULL, RESTRICTED, M-FORM	1L3750		1	29	--	29	3	--	--	--	--	--
		1L5000		1	30	--	30	3	--	--	--	--	--
	M-FLUTE, M-FLOW	1L3750		1	5	--	5	3	--	--	--	--	--
2	FULL	1L5000		26	31	27	31	--	--	--	--	50	--
	RESTRICTED, M-FORM	1L3750		26	32	27	32	--	--	--	--	50	--
		1L5000		26	33	27	33	--	--	--	--	50	--
	M-FLUTE, M-FLOW	1L3750		26	17	27	17	--	--	--	--	50	--
3	FULL, RESTRICTED	1L5000		26	34	27	34	--	--	--	--	50	--
4	FULL	1L7500		51	35	52	35	--	--	--	--	--	--
	RESTRICTED	1L7500		51	25	52	25	--	--	--	--	--	--



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM G - BELLOWS SEAL PARTS (CONT)**ITEM J - CONNECTION STUD OR ADAPTOR (CONT)**

USE W/ACTR GROUP 1 PER AU2259

ENVIRO-SEAL BELLOWS SEAL

1 PLY BELLOWS

SIZE	PLUG	VSC	TRIM		316L SST		HAST C	
			BELLOWS		316L SST/ INCONEL		HAST C22/ HAST C22	
					G	J	G	J
2	M-FORM 1/4-1 PORT METAL SEAT	1L3750			61	36	62	37
	M-FORM TUNG CARB TIP & SEAT 1/4-1 PORT METAL SEAT	1L5000			61	40	62	41
	M-FORM TUNG CARB TIP & SEAT 1 1/4 PORT METAL SEAT	1L5000			61	42	62	43
	FULL PORT METAL & COMP SEAT	1L5000			61	44	62	45
1 1/2	FULL PORT METAL & COMP SEAT	1L5000			73	50	-	-
2 X 1	RSTD PORT METAL & COMP SEAT	1L5000			61	46	62	47
3	FULL PORT METAL & COMP SEAT	1L5000			63	46	64	47
3 X 2	RSTD PORT METAL & COMP SEAT	1L5000			63	40	64	41
4	FULL PORT METAL & COMP SEAT	1L5000			65	44	66	45
4 X 2 1/2	RSTD PORT METAL & COMP SEAT	1L5000			65	40	66	41
DESIGN ES								
2 X 1 1/2	RSTD PORT METAL & COMP SEAT	1L5000			61	44	62	45
3	FULL PORT SOFT SEAT PLUG	1L5000			63	46	64	47
3 X 2 1/2	RSTD PORT METAL SEAT	1L5000			63	42	64	43
4 X 3	RSTD PORT METAL & COMP SEAT	1L5000			65	42	66	43
DESIGN ED								
4	FULL PORT CLASS IV METAL SEAT	1L5000			65	46	66	47
DESIGN ET SPRING LOADED SEAL								
2	FULL PORT METAL & COMP SEAT	1L5000			61	46	62	47
2 X 1	RSTD PORT METAL & COMP SEAT	1L5000			61	40	62	41
3	FULL PORT METAL & COMP SEAT	1L5000			63	46	64	47
3 X 2	RSTD PORT METAL & COMP SEAT	1L5000			63	40	64	41
4	FULL PORT METAL & COMP SEAT	1L5000			65	42	66	43
4 X 2 1/2	RSTD PORT METAL & COMP SEAT	1L5000			65	40	66	41
DESIGN EZ								
2	M-FLOW METAL SEAT	1L3750			61	38	62	39
	M-FLUTE METAL & COMP SEAT	1L3750			61	38	62	39
	M-FORM METAL SEAT	1L5000			61	44	62	45
	M-FORM 1/4 PORT COMP SEAT	1L3750			61	38	62	39
	M-FORM 3/8-3/4 PORT COMP SEAT	1L5000			61	44	62	45
	FULL PORT METAL & COMP SEAT	1L5000			61	40	62	41
	RSTD PORT METAL & COMP SEAT	1L5000			61	44	62	45
3	FULL PORT METAL & COMP SEAT	1L5000			63	40	64	41
	RSTD PORT METAL SEAT	1L5000			63	46	64	47
4	FULL PORT METAL & COMP SEAT	1L5000			65	40	66	41
	RSTD PORT METAL SEAT	1L5000			65	42	66	43
DESIGN YS								
2	FULL PORT METAL SEAT	1L5000			61	48	62	49



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM G - BELLOWS SEAL PARTS (CONT)**ITEM J - CONNECTION STUD OR ADAPTOR (CONT)**

ENVIRO-SEAL BELLOWS SEAL
USE W/ACTR GROUP 1 PER AU2259
2 PLY BELLOWS

DESIGN	SIZE		VSC	TRIM		316L SST		HAST C	
				BELLOWS		316L SST/ INCONEL		HAST C22/ HAST C22	
						G	J	G	J
E	2	M-FORM 1/4-1 PORT METAL SEAT	1L3750			67	36	68	37
		M-FORM TUNG CARB TIP & SEAT 1/4-1 PORT METAL SEAT	1L5000			67	40	68	41
		M-FORM TUNG CARB TIP & SEAT 1 1/4 PORT METAL SEAT	1L5000			67	42	68	43
		FULL PORT METAL & COMP SEAT	1L5000			67	44	68	45
	1 1/2	FULL PORT METAL & COMP SEAT	1L5000			74	50	-	-
	2 X 1	RSTD PORT METAL & COMP SEAT	1L5000			67	46	68	47
	3	FULL PORT METAL & COMP SEAT	1L5000			69	46	70	47
	3 X 2	RSTD PORT METAL & COMP SEAT	1L5000			69	40	70	41
	4	FULL PORT METAL & COMP SEAT	1L5000			71	44	72	45
	4 X 2 1/2	RSTD PORT METAL & COMP SEAT	1L5000			71	40	72	41
ES	2 X 1 1/2	RSTD PORT METAL & COMP SEAT	1L5000			67	44	68	45
	3	FULL PORT SOFT SEAT PLUG	1L5000			69	46	70	47
	3 X 2 1/2	RSTD PORT METAL SEAT	1L5000			69	42	70	43
	4 X 3	RSTD PORT METAL & COMP SEAT	1L5000			71	42	72	43
ED	4	FULL PORT CLASS IV METAL SEAT	1L5000			71	46	72	47
ET	SPRING LOADED SEAL	2	FULL PORT METAL & COMP SEAT	1L5000		67	46	68	47
		2 X 1	RSTD PORT METAL & COMP SEAT	1L5000		67	40	68	41
		3	FULL PORT METAL & COMP SEAT	1L5000		69	46	70	47
		3 X 2	RSTD PORT METAL & COMP SEAT	1L5000		69	40	70	41
		4	FULL PORT METAL & COMP SEAT	1L5000		71	42	72	43
		4 X 2 1/2	RSTD PORT METAL & COMP SEAT	1L5000		71	40	72	41
EZ	2	M-FLOW METAL SEAT	1L3750			67	38	68	39
		M-FLUTE METAL & COMP SEAT	1L3750			67	38	68	39
		M-FORM METAL SEAT	1L5000			67	44	68	45
		M-FORM 1/4 PORT COMP SEAT	1L3750			67	38	68	39
		M-FORM 3/8-3/4 PORT COMP SEAT	1L5000			67	44	68	45
		FULL PORT METAL & COMP SEAT	1L5000			67	40	68	41
		RSTD PORT METAL & COMP SEAT	1L5000			67	44	68	45
	3	FULL PORT METAL & COMP SEAT	1L5000			69	40	70	41
		RSTD PORT METAL SEAT	1L5000			69	46	70	47
	4	FULL PORT METAL & COMP SEAT	1L5000			71	40	72	41
		RSTD PORT METAL SEAT	1L5000			71	42	72	43
YS	2	FULL PORT METAL SEAT	1L5000			67	48	68	49



Fisher Controls Int. Inc.

Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

ITEM H - BELLOWS SEAL GASKETS (USE THRU 600 LB ONLY) (DO NOT USE WITH EB)

BONNET	GASKET	CAP SCREWS	TEMPERATURE		SIZE	H
			°F	°C		
BELLOWS SEAL	GRAPHITE/SST	GRADE 5 STEEL	-20+450	-28+232	1 1/2	14
					2	15
					2 1/2	16
					3	17
					4	18
		316 SST	-325+1100	-198+593	2	6
					3	10
					4	12
ENVIRO-SEAL BELLOWS SEAL	GRAPHITE/SST	-	-325+1100	-198+593	1 1/2	28
					2	25
					3	26
					4	27

ITEM M - BELLOWS SEAL BONNET NAMEPLATE*

* ORDER ENTRY MUST SUPPLY NAMEPLATE PAD VALUES FOR INDEX CODES

BONNET	M
BELLOWS SEAL	1
ENVIRO-SEAL BELLOWS SEAL	2

ITEM P - ENVIRO-SEAL PACKING TAG

PACKING STYLE	P
ENVIRO-SEAL	1
OTHER	N

ITEM 9B - PACKING ADJUSTMENT WARNING LABEL**ITEM 9C - ASSEMBLY AND TEST PACKING**

SPECIFY WARNING PLATE INFO PER	DRAWING
BELLOWS SEAL	DV8931
ENVIRO-SEAL BELLOWS SEAL	22B4252

PACKING ARRANGEMENTS	9B	9C
SINGLE PTFE WITH STANDARD SST OR 316 SST PACKING PARTS	N	N
HIGH-SEAL	N	N
LIVE LOADED (EXCEPT ISO-SEAL)	N	1
ISO-SEAL	N	2
ALL OTHER	1	N



Design E Series Bonnet,
NPS 1/2-6, Class 125-2500, 2 13/16 Yoke Boss, 1/2 Stem

STANDARD BONNET ASSY	AU3910
EXTENSION BONNET ASSY	CU3911
EXTENSION BONNET STYLE 3 ASSY	44B8565
BELLOWS SEAL BONNET ASSY	CU3912
ENVIRO-SEAL BELLOWS SEAL BONNET ASSY	42B3947
DESIGN ER BONNET ASSY	10A6681
DESIGN EH EXTENSION BONNET BAFFLE ASSY	18A8557
LUBRICATOR ASSY	10A9421
LUBRICATOR ISOLATING VALVE ASSY	AJ5428
ENVIRO-SEAL PTFE PKG STD, EXT & BELLOWS SEAL BONNET ASSY	32B6700
ENVIRO-SEAL PTFE PKG ENVIRO-SEAL BONNET ASSY	32B7830
ENVIRO-SEAL GRAPHITE ULF STD, EXT & BELLOWS SEAL BNT	39B4612
ENVIRO-SEAL GRAPHITE ULF ENVIRO-SEAL BONNET	39B4610
ENVIRO-SEAL GRAPHITE FOR NUCLEAR STD, EXT & BELLOWS SEAL BNT	39B6697
HIGH-SEAL GRAPHITE ULF PACKING ASSY	39B4153
HIGH-SEAL GRPHITE PACKING ASSY	32B5856
GRAPHITE ULF PACKING ASSY	39B6701
SINGLE GRAPHITE COMPOSITE PACKING ASSY	39B6699
ISO-SEAL PACKING ASSY CLASS 150-600	GF07999
ISO-SEAL PACKING ASSY CLASS 900-1500	GF08002
ISO-SEAL PACKING ASSY CLASS 2500	GF09719
ENVIRO-SEAL H2 DUPLEX	19B2875

Revision Change Record

The date recorded on this document reflects the effective date of this revision.

ECRN: 20172489

Matrix Section:

Item	Module	Changes
D	1343	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 1 DIM A 21.62.
D	1344	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 1 1/2 DIM A 21.50.
D	1345	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 2 DIM A 21.
D	1346	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 2 1/2 DIM A 21.
D	1347	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 3 DIM A 21.
D	1348	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 4 DIM A 21.
D	1349	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 6X4 DIM A 22.38.
D	1350	New - CF8M EXT STYLE 3 BONNET N/LUBR TAPPING SIZE 8X4 DIM A 22.44.
9D	4	New - DIM A=21.62.
	5	New - DIM A=21.50.