



APPLICABLE STANDARDS:
 Design: ASME B16.34, MSS SP-110
 Socket Weld: ASME B16.11
 Seat/Shell Test: MSS SP-110

Ref.No.	Description	Material	Qty.
23	O-Ring	FKM	1
22	Body Gasket	PTFE+20%CF	2
21	Stop washer	304SS	1
20	Stop Bolt	A193-B8	1
19	Bolt Nut(1/4"~1 1/4")	A194-8	4
18	Bolt washer	304SS	4(1/4"~1 1/4"), 8(1 1/2"~2")
17	Lock Device	304SS	1
16	Handle Sleeve	VINYL PLASTIC	1
15	Handle	304SS	1
14	Stop-lock-Cap	304SS	1
13	Stem Nut	A194-8	2
12	Belleville Washer	301SS	2
11	Gland	316SS	1
10	Bushing	50%SS+50%PTFE	1
9	V-Ring Stem Packing	TFM1600	1 Set
8	Thrust washer	TFM4215	1
7	AntiStatic Device	316SS	2
6	Stem	316SS	1
5	Bolting	A193-B8	4(1/4"~1 1/4"), 8(1 1/2"~2")
4	Ball Seat	TFM4215	2
3	Ball	316SS	1
2	End Cap	ASTM A216 Gr.WCB	2
1	Body	ASTM A216 Gr.WCB	1

■ DIMENSION TABLE

Unit: inch

Pressure	New FNW Code	Size	Ød	L	H1	H	W	ØE	S	U	A	J	L1	ØB1	K	Ls	L2	M	HEX.B
2000CWP	FNW321ACSWB	1/4"	0.42	2.76	1.18	2.99	5.31	1.65	0.25	M5	0.68	0.41	0.43	0.55	3/8-24UNF	2.13	1.61	1/4-20UNC	0.93
	FNW321ACSWC	3/8"	0.50	2.76	1.18	2.99	5.31	1.65	0.25	M5	0.68	0.41	0.43	0.69	3/8-24UNF	2.13	1.61	1/4-20UNC	0.93
	FNW321ACSWD	1/2"	0.59	2.95	1.42	3.27	5.31	1.65	0.25	M5	0.80	0.46	0.43	0.86	3/8-24UNF	2.44	1.83	5/16-18UNC	1.10
	FNW321ACSWF	3/4"	0.79	3.15	1.56	3.27	5.31	1.65	0.25	M5	0.80	0.46	0.51	1.07	3/8-24UNF	2.74	2.05	3/8-16UNC	1.34
1500CWP	FNW321ACSWG	1"	0.98	3.54	1.79	3.86	6.69	1.97	0.35	M6	0.92	0.49	0.51	1.34	9/16-18UNF	3.18	2.36	3/8-16UNC	1.81
	FNW321ACSWH	1-1/4"	1.25	4.33	1.97	4.06	6.69	1.97	0.35	M6	0.92	0.49	0.51	1.68	9/16-18UNF	3.86	2.76	1/2-13UNC	2.17
	FNW321ACSWJ	1-1/2"	1.50	4.72	2.36	4.33	7.87	2.76	0.38	M8	1.18	0.59	0.51	1.91	5/8-18UNF	4.12	3.24	1/2-13UNC	2.24
	FNW321ACSWK	2"	1.95	5.51	2.68	4.69	7.87	2.76	0.38	M8	1.18	0.59	0.63	2.41	5/8-18UNF	4.90	3.68	5/8-11UNC	2.87

							1/4"~2" 1500-2000CWP 3PC SW Ball Valve Assembly Drawing FNW321ACSW		Material NO.				
									Draw. NO.		321ACSW		
Mark	Amount	Subarea	Revision NO.	Signature	Date	Projection			Material	CF8M	Edition	7	
Drawing		hm.huang	2011.9.27	Recheck		Proportion			Weight		Page of		
Design													
Check													
Standardization				Approve									