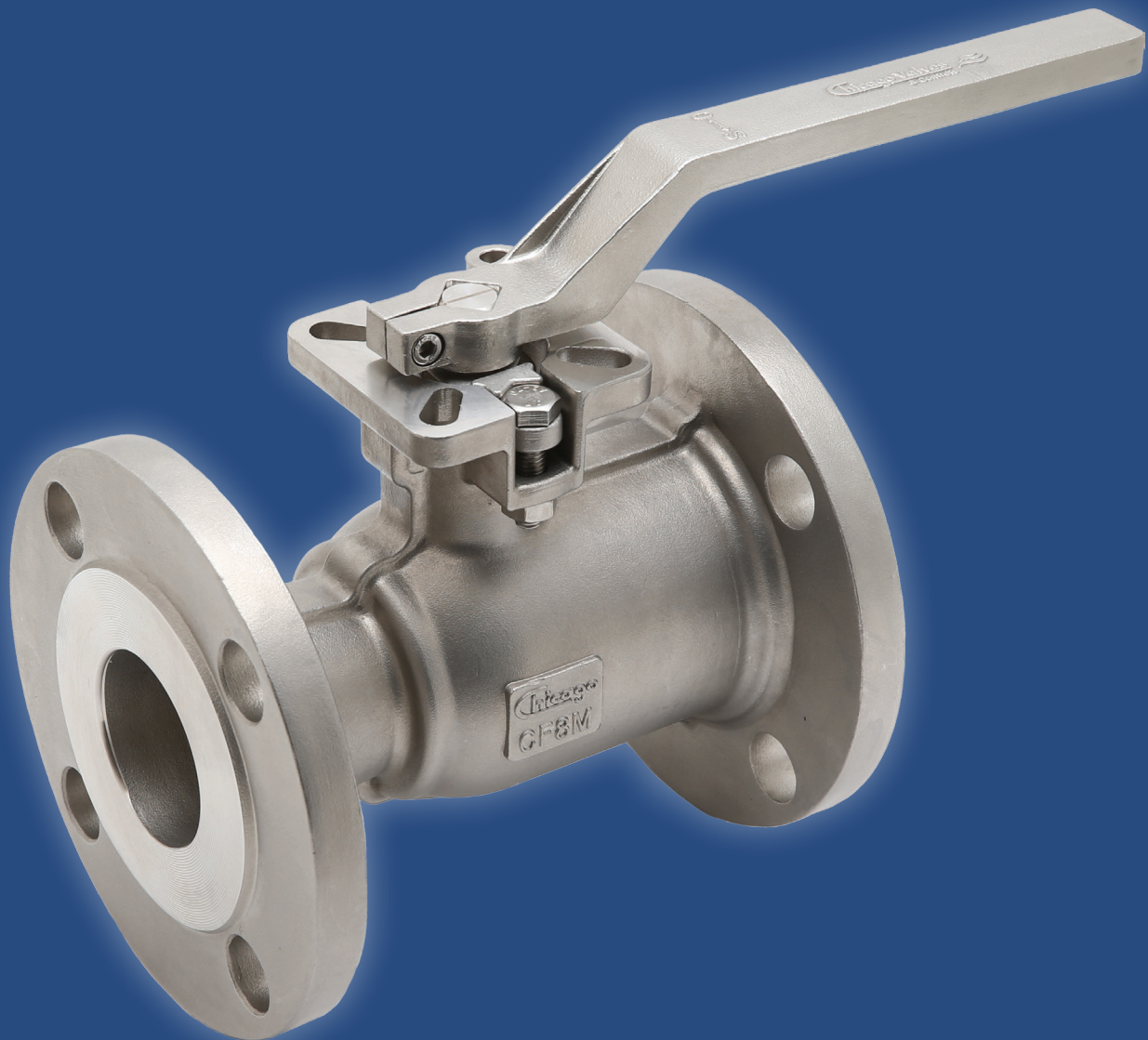


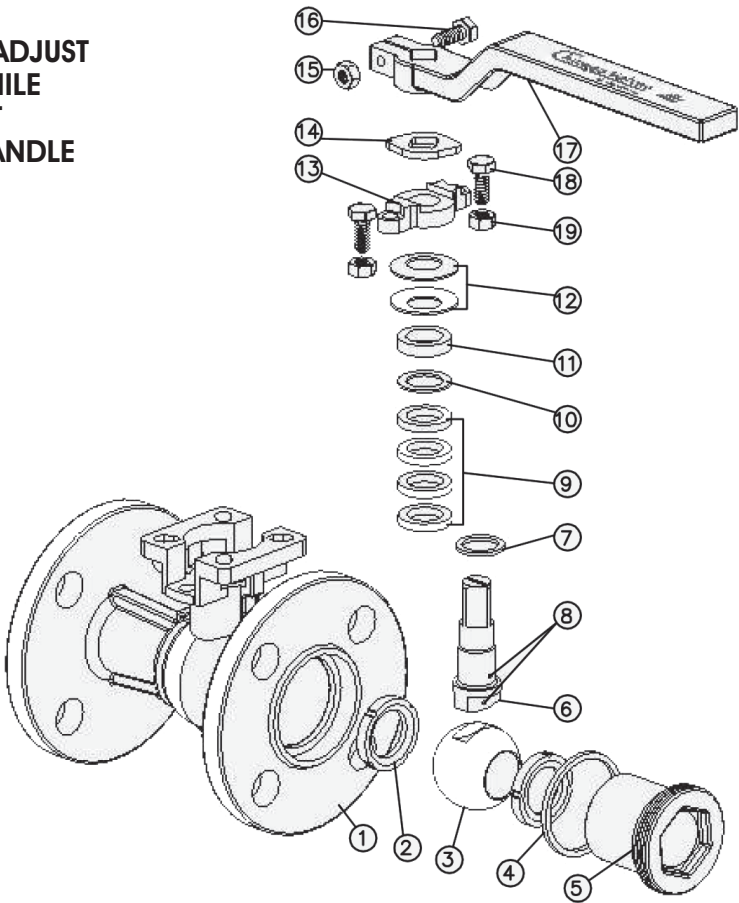
Chicago Valves & Controls



SERIES 81
FLANGED STANDARD PORT
BALL VALVE CLASS 150

CARBON STEEL - ASTM A216 WCB
316 STAINLESS STEEL ASTM CF8M
ANTI STATIC DEVICE
LIVE LOADED STEM
DIRECT MOUNTED PAD
ELEVATED PAD ALLOWED TO ADJUST
GLAND PACKING FLANGE WHILE
VALVE IS IN SERVICE WITHOUT
REMOVING ACTUATOR OR HANDLE
NACE MR0175

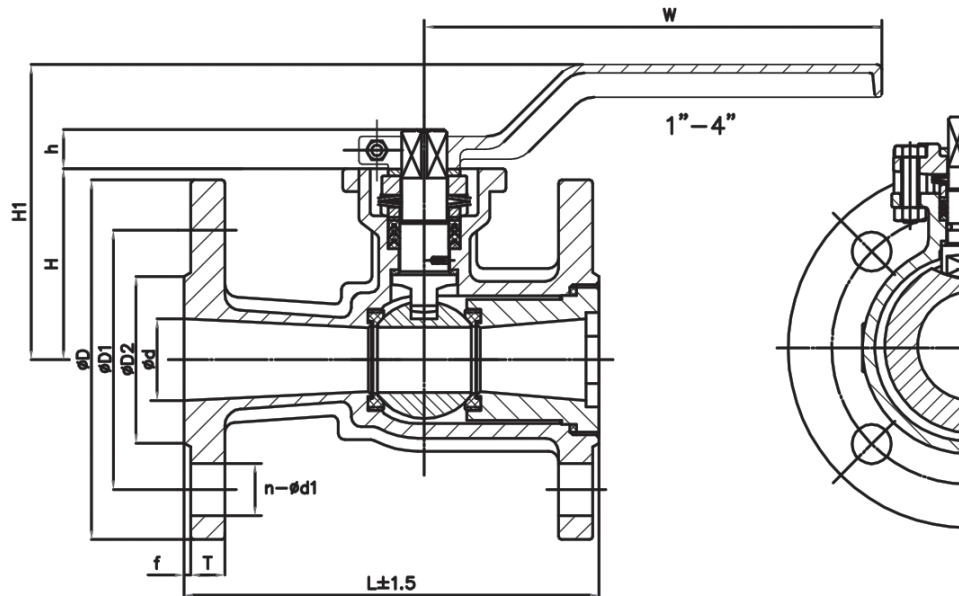
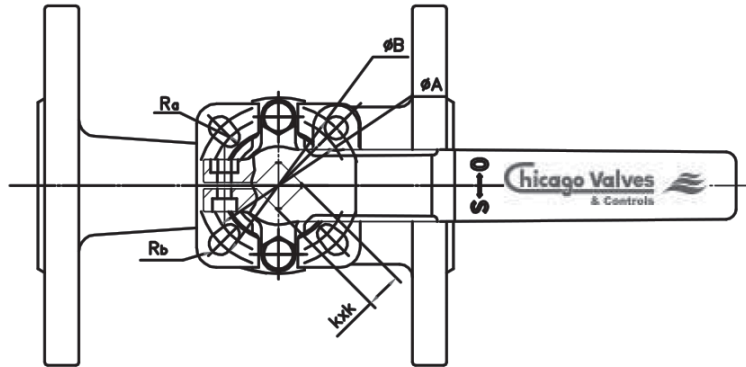
Series 81



PARTS & MATERIAL

PART NO.	PART NAME	QTY.	MATERIAL
1	Body	1	Carbon Steel ASTM A216 WCB 316 Stainless Steel ASTM A351 CF8M
2	Seat	2	RTFE
3	Ball	1	316 Stainless Steel
4	Seat Retainer	1	Carbon Steel ASTM A216 WCB 316 Stainless Steel ASTM A351 CF8M
5	Body Seal	1	PTFE
6	Stem	1	316 Stainless Steel
7	Thrust Bearing	1	RTFE
8	Anti-Static Balls	2	300 Series Stainless Steel Hard Drawn Stainless Steel
9	Stem Packing	4	TFM
10	Packing Protector	1	RTFE
11	Gland Packing	1	300 Series Stainless Steel
12	Belleville Washer	2	300 Series Stainless Steel
13	Gland Flange	1	304 Stainless Steel
14	Travel Stop	1	304 Stainless Steel
15	Nut	2	300 Series Stainless Steel
16	Bolt	1	300 Series Stainless Steel
17	Handle	1	Carbon Steel ASTM A216 WCB 304 Stainless Steel
18	Gland Flang Bolt	2	300 Series Stainless Steel
19	Gland Flang Nut	2	300 Series Stainless Steel

Series 81



DIMENSIONS (INCHES)

Nominal Diameter	L	d	D2	D1	D	b	f	n-ød1	H	h	H1	W	Ra	Rb	A	B	KKK
1"	5.00	0.98	2.01	3.13	4.33	0.41	0.08	4-ø0.63	2.36	0.35	4.01	6.69	0.12	0.14	1.65	1.97	0.35X0.35
1 1/2"	6.50	1.58	2.87	3.87	4.92	0.50	0.08	4-ø0.63	2.76	0.43	4.84	7.87	0.14	1.97	1.97	2.76	0.43X0.43
2"	7.00	1.97	3.62	4.75	9.51	0.56	0.08	4-ø0.75	3.35	0.55	5.16	7.87	0.14	1.97	1.97	2.76	0.561X0.56
2 1/2"	7.48	2.56	4.13	5.50	7.09	0.63	0.08	4-ø0.75	3.74	0.55	6.18	11.81	1.97	0.22	2.76	4.02	0.561X0.56
3"	7.99	3.15	5.00	6.00	7.48	0.69	0.08	4-ø0.75	4.13	0.67	6.69	11.81	1.97	0.22	2.76	4.02	0.67X0.67
4"	9.02	3.94	6.18	7.50	9.06	0.88	0.08	8-ø0.75	5.55	0.67	7.28	11.81	1.97	0.22	2.76	4.02	0.67X0.67

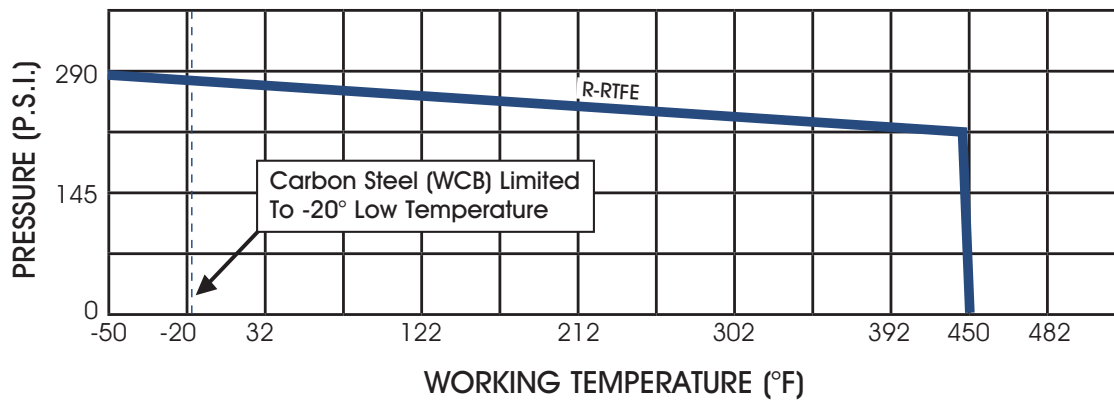
Series 81

APPLICABLE STANDARDS

BASIC DESIGN	ASME B16.34
FACE TO FACE DIMENSION	ASME B16.10
FLANGE DIMENSIONS	ASME B16.5
TEST	API 598
MOUNTED PADS DIEM	ISO 5211

SIZE	CV (GPM)	WEIGHT (LBS)
1"	25	4.42
1 1/2"	82	8.80
2"	120	14.92
2 1/2"	240	21.31
3"	350	33.45
4"	720	40.61

PRESSURE-TEMPERATURE RATINGS SERIES 81



HOW TO ORDER

1"	81	6	6	R	T	M	1
Size	Series	Body & Ends	Ball & Stem	Seats	Body Seal	Stem Packing	Class
SIZE	SERIES	BODY & ENDS	BODY & ENDS	BODY & ENDS	BODY SEAL	BODY SEAL	BODY SEAL
1"	81	6 316 Stainless Steel	6 316 Stainless Steel	6 316 Stainless Steel	T PTFE	M TFM	1 150
2"		4 Carbon Steel					
2 1/2"							
3"							
4"							
			BALL & STEM	SEATS		STEM PACKING	CLASS
			6 316 Stainless Steel	R RTFE			
				15% Glass Filled			

Chicago Valves
& Controls



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