



NO.	PART NAME	QTY	STAINLESS STEEL	CARBON STEEL	SPARE PART
1	BODY	1	ASTMA351 GRADE CF8M	ASTMA216 GRADE WCB	
2	END CAP	3	ASTMA351 GRADE CF8M	ASTMA216 GRADE WCB	
3	TOP COVER	1	ASTMA351 GRADE CF8M	ASTMA216 GRADE WCB	
4	BALL & STEM	1	ASTMA351 GRADE CF8M	ASTMA351 GRADE CF8M	
5	SEAT	3	RTFE	RTFE	*
6	THRUST WASHER	1	50/50 STFE	50/50 STFE	*
7	TRUNNION BUSHING	1	PEEK	PEEK	*
8	ANTI-STATIC SPRING	1	AISI 316	AISI 316	*
9	JOINT GASKET	3	PTFE	PTFE	*
10	COVER GASKET	1	PTFE	PTFE	*
11	STEM O-RING	1	FKM	FKM	*
12	GLAND PACKING	1 SET	PTFE	PTFE	*
13	GLAND BUSHING	1	AISI 304	AISI 304	
14	BELLEVILLE WASHER	3 *	AISI 301	AISI 301	
15	HANDLE SLEEVE	1	VINYL	VINYL	
16	HANDLE BAR -2-1/2" -3"	1	AISI 304	AISI 304	
16	HANDLE BAR -4"-6"	1	CARBON STEEL	CARBON STEEL	
17	HANDLE HUB-2-1/2" -4"	1	ASTMA351 GRADE CF8	ASTMA351 GRADE CF8	
17	HANDLE HUB-6"	1	WCB	WCB	
18	INDICATOR PLATE	1	AISI 304	AISI 304	
19	HANDLE BOLT	1	AISI 304	AISI 304	
20	HANDLE -1-1/2" -2"	1	AISI 304	AISI 304	
21	PACKING GLAND	1	ASTMA351 GRADE CF8	ASTMA351 GRADE CF8	
22	HANDLE STOP BOLT	1	AISI 304	AISI 304	
23	NUT & WASHER	1	AISI 304	AISI 304	
24	BODY STUD	#	ASTMA193 GRADE B8	ASTMA193 GRADE B8	
25	BODY NUT	#	ASTMA194 GRADE 8	ASTMA194 GRADE 8	
26	COVER NUT	^	ASTMA193 GRADE B8	ASTMA193 GRADE B8	
27	COVER STUD	^	ASTMA194 GRADE 8	ASTMA194 GRADE 8	
28	PACKING GLAND BOLT	2	AISI 304	AISI 304	
29	PACKING GLAND NUT	2	AISI 304	AISI 304	

A set of Gland Packing is 6 pcs for 1-1/2" thru 4", 7 pcs for 6"  
 \* 6" 8 PCS. ( 4 EA ON THE PACKING GLAND BOLT)  
 # 1-1/2" THRU 3" 12 PCS, 4" 18 PCS., 6" 30 PCS  
 ^ 1-1/2" THRU 3" 4 PCS, 4" 6 PCS., 6" 12 PCS

SIZE	VALVE DIMENSIONS										ACTUATOR MOUNTING DIMENSIONS										WEIGHT LBS
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	ISO5211	
1-1/2"	1.57	2.88	5.00	0.56	0.06	0.63	4	3.88	4.13	10.31	7.20	6.16	0.75	0.748	0.93	0.39	2.756	0.47	4.016	F07/F10	25
2"	1.97	3.62	6.00	0.63	0.06	0.75	4	4.75	4.45	10.31	8.66	6.42	0.75	0.748	0.93	0.39	2.756	0.47	4.016	F07/F10	37
2-1/2"	2.60	4.12	7.00	0.69	0.06	0.75	4	5.50	5.37	14.37	11.06	8.07	0.83	0.866	1.10	0.47	4.016	0.55	4.921	F10/F12	58
3"	2.99	5.00	7.50	0.75	0.06	0.75	4	6.00	5.78	19.88	11.22	8.46	0.83	0.866	1.10	0.47	4.016	0.55	4.921	F10/F12	79
4"	3.98	6.19	9.00	0.94	0.06	0.75	8	7.50	7.52	27.76	13.70	11.06	1.14	1.063	1.38	0.55	4.921	0.71	5.512	F12/F14	129
6"	5.91	8.50	11.00	1.00	0.06	0.87	8	9.50	9.80	37.60	18.90	13.77	1.50	1.417	1.81	0.71	5.512	0.87	6.496	F14/F16	289



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**VALVES, ACTUATORS, AND AUTOMATION CONTROLS**

SHEET 1 of 1

DO NOT SCALE DRAWING

DESCRIPTION  
 SERIES 31 DIRECT MOUNT DIMENSIONAL AND BILL OF MATERIALS DRAWING FOR 1-1/2" THRU 6" CLASS 150 3 WAY VALVE IN 316 STAINLESS STEEL AND WCB CARBON STEEL

DRAWING NO. P02524    REVISION A

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