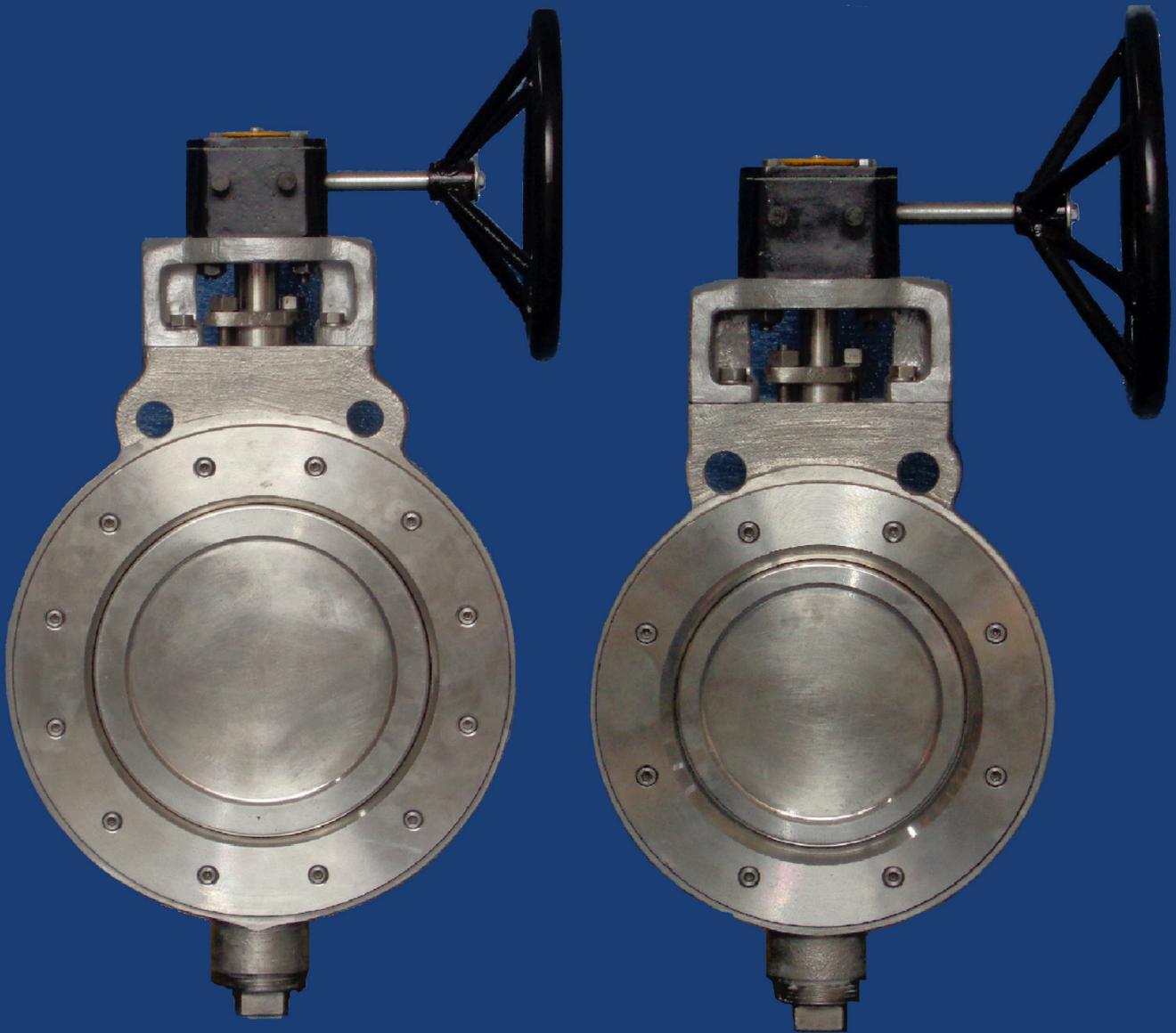




**Sri Ranganathar Valves (P) Ltd**

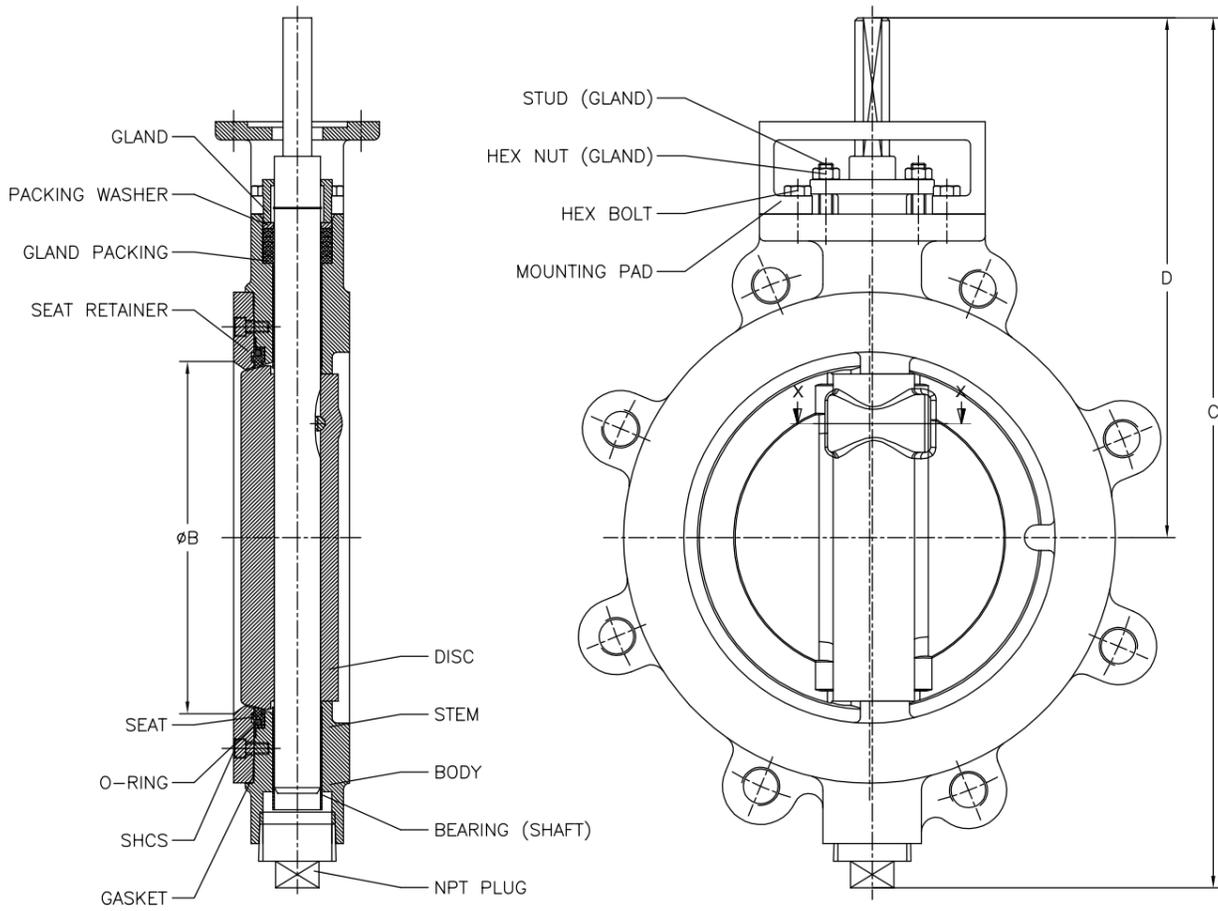
**Quality flow in every valve**



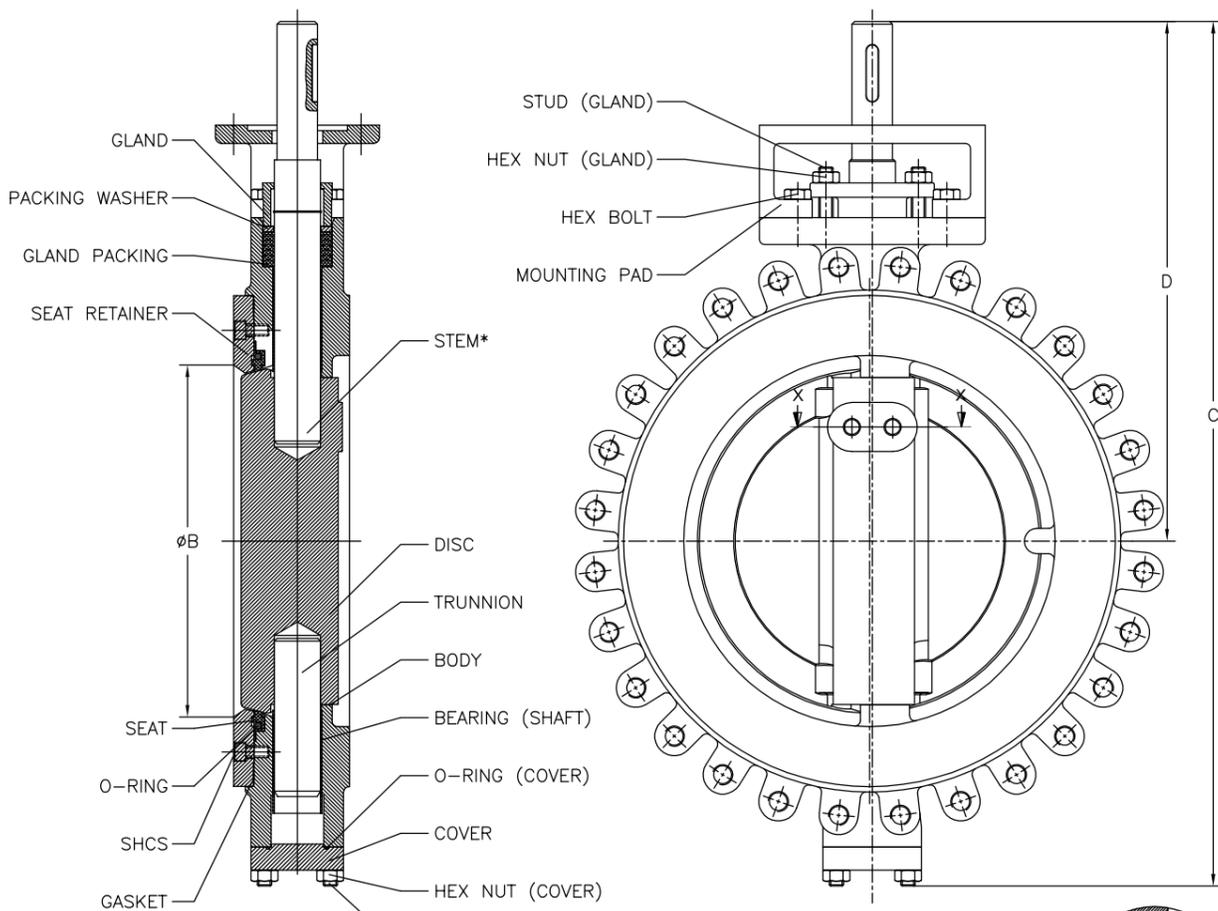
**TRIPLE OFFSET BUTTERFLY VALVE**

ISO 9001 : 2008 | PED | API 6D CERTIFIED

# GENERAL ASSEMBLY

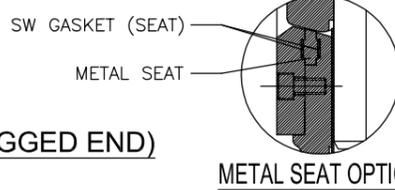


**UP TO 18" #150 / 12" # 300-600 (LUGGED END)**



**ABOVE 20" #150 / 14" # 300-600 (LUGGED END)**

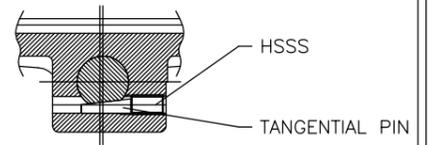
\* THRU AND DOUBLE-D STEM FOR 20" #150



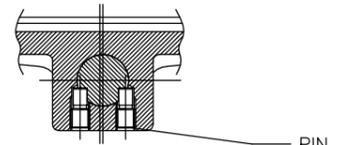
**METAL SEAT OPTION**

## DESIGN SPECIFICATIONS

GENERAL VALVE DESIGN	API 609
PRESSURE TEMPERATURE RATING	ASME B16.34 (STANDARD)
WALL THICKNESS	ASME B16.34
WAFER DESIGN TO MATCH	ASME B16.5
FACE TO FACE DIMENSION	API 609
MATERIALS	ASTM (LISTED BELOW)
VALVE TESTING	API 598



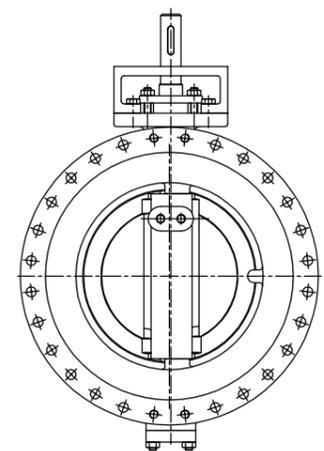
**UP TO 12" #150 / 10" # 300-600**



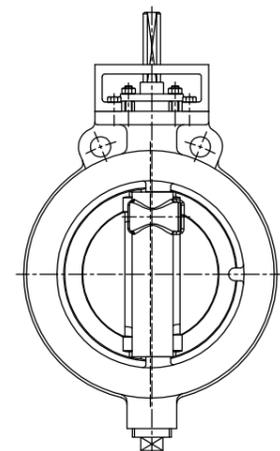
**ABOVE 14" #150 / 12" # 300-600**

**DETAIL-X**

## END OPTIONS



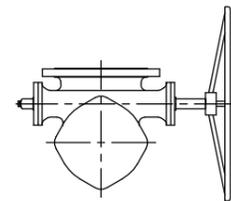
**DOUBLE FLANGE END**



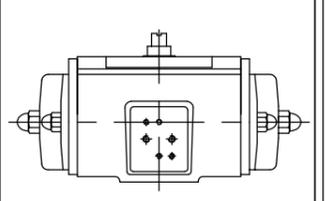
**WAFER END**

## EXECUTION OPTIONS

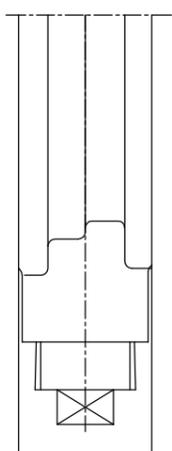
### WORM GEAR OPERATOR



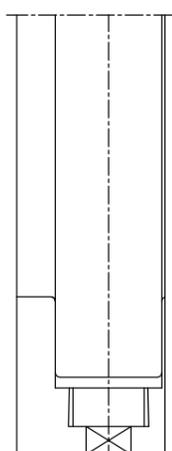
### PNEUMATIC ACTUATOR



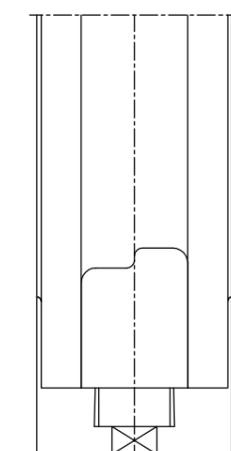
## END TO END OPTIONS



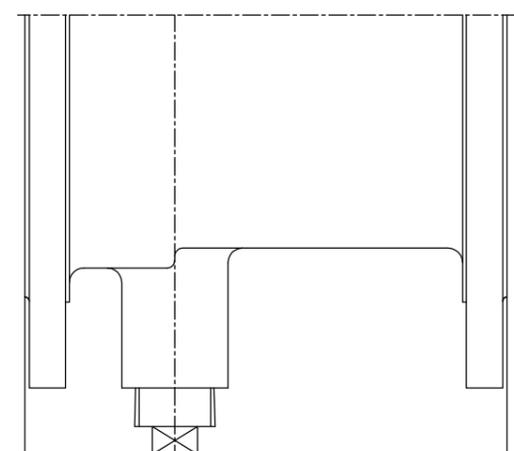
**WAFER END**



**LUG END**



**DOUBLE FLANGE (SHORT PATTERN)**



**DOUBLE FLANGE (LONG PATTERN)**

# BILL OF MATERIAL

PART NAME	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
BODY	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
SEAT	RTFE / PTFE		RTFE / PTFE		RTFE / PTFE			RTFE / PTFE	
NPT PLUG	SS 316		SS 316		SS 316			SS 316	
BEARING (SHAFT)	SS 316+PTFE		SS 316+PTFE		SS 316+PTFE			SS 316+PTFE	
STEM	SS 316		SS 316		SS 316			SS 316	
DISC	A 351-CF8M		A 351-CF8M		A 351-CF8M			A 351-CF8M	
GASKET	PTFE		PTFE		PTFE			PTFE	
SHCS	A 194-2H		A 194-2H		A 194-2H			A 194-2H	
O-RING	EPDM / VITON / NBR		EPDM / VITON / NBR		EPDM / VITON / NBR			EPDM / VITON / NBR	
SEAT RETAINER	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
GLAND PACKING	PTFE		PTFE		PTFE			PTFE	
PACKING WASHER	SS 316		SS 316		SS 316			SS 316	
GLAND	A 351-CF8M		A 351-CF8M		A 351-CF8M			A 351-CF8M	
MOUNTING PAD	A 216-WCB		A 216-WCB		A 216-WCB			A 216-WCB	
HEX BOLT	A 193-B7		A 193-B7		A 193-B7			A 320-L7	
HEX NUT (GLAND)	A 194-2H		A 194-2H		A 194-2H			A 194-7	
STUD (GLAND)	A 193-B7		A 193-B7		A 193-B7			A 193-B7	
STUD (COVER)	A 193-B7		A 193-B7		A 193-B7			A 193-B7	
HEX NUT (COVER)	A 194-2H		A 194-2H		A 194-2H			A 194-2H	
COVER	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
O-RING (COVER)	EPDM / VITON / NBR		EPDM / VITON / NBR		EPDM / VITON / NBR			EPDM / VITON / NBR	
TRUNNION	SS 316		SS 316		SS 316			SS 316	
WORM GEAR OPERATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
PNEUMATIC ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
PART NAME	A 351-CF8	A 351-CF8M	A 351-CF3	A 351-CF3M	A 351-CG8M	A 351-CG3M	A 351-CF8C	A 351-CN7M	
BODY	A 351-CF8	A 351-CF8M	A 351-CF3	A 351-CF3M	A 351-CG8M	A 351-CG3M	A 351-CF8C	A 351-CN7M	
SEAT	RTFE / PTFE		RTFE / PTFE		RTFE / PTFE			RTFE / PTFE	
NPT PLUG	SS 316		SS 304L	SS 316L	SS 317	SS 317L	SS 347	A 20	
BEARING (SHAFT)	SS 316+PTFE		SS 316+PTFE / INC+PTFE		SS 316+PTFE / INC+PTFE			SS 316+PTFE / INC+PTFE	
STEM	SS 316		SS 304L	SS 316L	SS 317	SS 317L	SS 347	A 20	
DISC	A 351-CF8	A 351-CF8M	A 351-CF3	A 351-CF3M	A 351-CG8M	A 351-CG3M	A 351-CF8C	A 351-CN7M	
GASKET	PTFE		PTFE		PTFE			PTFE	
SHCS	SS 316		SS 316		SS 316			SS 316	
O-RING	EPDM / VITON / NBR		EPDM / VITON / NBR		EPDM / VITON / NBR			EPDM / VITON / NBR	
SEAT RETAINER	A 351-CF8	A 351-CF8M	A 351-CF3	A 351-CF3M	A 351-CG8M	A 351-CG3M	A 351-CF8C	A 351-CN7M	
GLAND PACKING	PTFE		PTFE		PTFE			PTFE	
PACKING WASHER	SS 316		SS 304L	SS 316L	SS 317	SS 317L	SS 347	A 20	
GLAND	A 351-CF8	A 351-CF8M	A 351-CF3	A 351-CF3M	A 351-CG8M	A 351-CG3M	A 351-CF8C	A 351-CN7M	
MOUNTING PAD	A 351-CF8		A 351-CF8		A 351-CF8			A 351-CF8	
HEX BOLT	SS 304		SS 304		SS 304			SS 304	
HEX NUT (GLAND)	A 194-8		A 194-8M		A 194-8M			A 194-8M	
STUD (GLAND)	A 193-B8		A 193-B8M		A 193-B8M			A 193-B8M	
STUD (COVER)	A 193-B8		A 193-B8M		A 193-B8M			A 193-B8M	
HEX NUT (COVER)	A 194-8		A 194-8		A 194-8			A 194-8	
COVER	A 351-CF8	A 351-CF8M	A 351-CF3	A 351-CF3M	A 351-CG8M	A 351-CG3M	A 351-CF8C	A 351-CN7M	
O-RING (COVER)	EPDM / VITON / NBR		EPDM / VITON / NBR		EPDM / VITON / NBR			EPDM / VITON / NBR	
TRUNNION	SS 316		SS 304L	SS 316L	SS 317	SS 317L	SS 347	A 20	
WORM GEAR OPERATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
PNEUMATIC ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
PART NAME	A 351-CK3MCuN	A 351-CN3MN	A 995-4A	A 995-6A	A 494-CZ100	A 494-M35-1	A 494-CW12MW	A 494-CW6MC	
BODY	A 351-CK3MCuN	A 351-CN3MN	A 995-4A	A 995-6A	A 494-CZ100	A 494-M35-1	A 494-CW12MW	A 494-CW6MC	
SEAT	RTFE / PTFE		RTFE / PTFE		RTFE / PTFE			RTFE / PTFE	
NPT PLUG	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625	
BEARING (SHAFT)	SS 316+PTFE / INC+PTFE		SS 316+PTFE / INC+PTFE		SS 316+PTFE / INC+PTFE			SS 316+PTFE / INC+PTFE	
STEM	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625	
DISC	A 351-CK3MCuN	A 351-CN3MN	A 995-4A	A 995-6A	A 494-CZ100	A 494-M35-1	A 494-CW12MW	A 494-CW6MC	
GASKET	PTFE		PTFE		PTFE			PTFE	
SHCS	SS 316		SS 316		SS 316			SS 316	
O-RING	EPDM / VITON / NBR		EPDM / VITON / NBR		EPDM / VITON / NBR			EPDM / VITON / NBR	
SEAT RETAINER	A 351-CK3MCuN	A 351-CN3MN	A 995-4A	A 995-6A	A 494-CZ100	A 494-M35-1	A 494-CW12MW	A 494-CW6MC	
GLAND PACKING	PTFE		PTFE		PTFE			PTFE	
PACKING WASHER	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625	
GLAND	A 351-CK3MCuN	A 351-CN3MN	A 995-4A	A 995-6A	A 494-CZ100	A 494-M35-1	A 494-CW12MW	A 494-CW6MC	
MOUNTING PAD	A 351-CF8		A 351-CF8		A 351-CF8			A 351-CF8	
HEX BOLT	SS 304		SS 304		SS 304			SS 304	
HEX NUT (GLAND)	A 194-8M		A 194-8M		A 194-8M			A 194-8M	
STUD (GLAND)	A 193-B8M		A 193-B8M		A 193-B8M			A 193-B8M	
STUD (COVER)	A 193-B8M		A 193-B8M		A 193-B8M			A 193-B8M	
HEX NUT (COVER)	A 194-8M		A 194-8M		A 194-8M			A 194-8M	
COVER	A 351-CK3MCuN	A 351-CN3MN	A 995-4A	A 995-6A	A 494-CZ100	A 494-M35-1	A 494-CW12MW	A 494-CW6MC	
O-RING (COVER)	EPDM / VITON / NBR		EPDM / VITON / NBR		EPDM / VITON / NBR			EPDM / VITON / NBR	
TRUNNION	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625	
WORM GEAR OPERATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
PNEUMATIC ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	

# DIMENSIONS

#150	SIZE	INCH	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48	52
		mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	900	1050	1200	1300
	A1	INCH	1.56	1.66	1.88	2.12	2.25	2.50	2.81	3.19	3.62	4.00	4.50	5.00	6.06	7.50	8.00	9.69	10.88	13.50
		mm	39.6	42.1	47.8	53.8	57.2	63.5	71.4	81.0	91.9	101.6	114.3	127.0	153.9	190.5	203.2	246.1	276.4	343.0
	A2	INCH	4.50	4.50	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.50	8.75	9.00	10.50	12.50	13.00	16.12	18.50	-
		mm	114.3	114.3	114.3	127.0	139.7	152.4	165.1	177.8	190.5	215.9	222.3	228.6	266.7	317.5	330.2	409.4	469.9	-
	A3	INCH	7.50	7.00	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	24.00	28.00	32.00	36.00	-
		mm	190.5	177.8	203.2	228.6	266.7	292.1	330.2	355.6	381.0	406.4	431.8	457.2	508.0	609.6	711.2	812.8	914.4	-
	ØB	INCH	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25	29.25	35.25	41.25	47.25	51.25
		mm	50.8	63.5	76.2	101.6	152.4	203.0	254.0	304.8	336.5	387.3	438.1	488.9	590.5	742.9	898.3	1047.7	1200.1	1302.0
	C	INCH	10.50	10.75	15.4	18.1	19.6	24.3	26.3	29.9	34.3	37.2	40.6	43.1	51.4	63.6	74.0	80.6	86.6	97.4
		mm	266.7	273.1	391	459	498	617	667	758	870	945	1031	1094	1307	1615	1878	2046	2199	2475
	D	INCH	6.50	6.75	10.5	12.3	13.1	15.8	16.9	18.7	22.4	23.9	25.6	27.0	32.0	40.4	46.4	48.8	51.6	59.6
		mm	266.7	273.1	266	313	332	401	428	475	568	607	650	685	812	1025	1179	1240	1309	1513

#300	SIZE	INCH	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36
		mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	900
	A1	INCH	1.88	1.88	1.88	2.12	2.31	2.88	3.25	3.62	4.62	5.25	5.88	6.25	7.12	9.50	9.50
		mm	47.8	47.8	47.8	53.8	58.7	73.2	82.6	91.9	117.3	133.4	149.4	158.8	180.8	241.3	241.3
	A2	INCH	4.50	4.50	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.50	8.75	9.00	10.50	17.75	20.00
		mm	114.3	114.3	114.3	127.0	139.7	152.4	165.1	177.8	190.5	215.9	222.3	228.6	266.7	450.9	508.0
	A3	INCH	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	30.00	33.00	36.00	39.00	45.00	55.00	68.00
		mm	215.9	241.3	282.4	304.8	403.4	419.1	457.2	501.7	762.0	838.2	914.4	990.6	1143.0	1397.0	1727.2
	ØB	INCH	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25	29.25	35.25
		mm	50.8	63.5	76.2	101.6	152.4	203.0	254.0	304.8	336.5	387.3	438.1	488.9	590.5	742.9	898.3
	C	INCH	10.95	11.50	15.4	18.1	21.8	26.1	30.6	33.6	36.6	39.3	43.0	46.2	57.2	67.7	74.6
		mm	278.1	292.1	391	459	554	663	776	852	929	999	1091	1173	1453	1720	1896
	D	INCH	6.75	7.00	10.5	12.3	14.3	16.8	20.3	21.9	23.6	25.1	26.9	28.8	37.1	43.3	46.7
		mm	171.5	177.8	266	313	362	427	515	555	599	638	684	732	943	1100	1186

#600	SIZE	INCH	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
		mm	50	65	80	100	150	200	250	300	350	400	450	500	600
	A1	INCH	2.00	2.00	2.12	2.50	3.06	4.00	4.62	5.50	6.12	7.00	7.88	8.50	9.13
		mm	50.8	50.8	50.8	63.5	77.7	101.6	117.3	139.7	155.4	177.8	200.2	215.9	231.9
	A2	INCH	7.09	7.09	7.09	7.50	8.25	9.06	9.81	10.63	11.42	12.20	12.99	13.78	15.35
		mm	180.1	180.1	180.1	190.5	209.6	230.1	249.2	270.0	290.1	309.9	329.9	350.0	389.9
	A3	INCH	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
		mm	292.1	330.2	355.6	431.8	558.8	660.4	787.4	838.2	889.0	990.6	1092.2	1193.8	1397.0
	ØB	INCH	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25
		mm	50.8	63.5	76.2	101.6	152.4	203.0	254.0	304.8	336.5	387.3	438.1	488.9	590.5
	C	INCH	12.0	13.0	16.5	20.0	23.8	30.2	33.7	36.6	46.3	52.3	53.5	56.9	63.6
		mm	305	330	419	508	605	768	855	929	1175	1329	1358	1445	1615
	D	INCH	7.5	8.0	11.0	13.1	15.5	20.2	21.8	23.4	31.0	36.1	35.9	37.7	41.4
		mm	191	203	279	332	393	514	554	594	786	917	912	958	1051

VALVES WORKING WELL ON LINE AT CUSTOMER PLACE FOR OVER 11 YEARS



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