



REVISIONS	DESCRIPTION	DFTSMN	APPL	DATE
LETTER				
ECO NO.				

UNLESS OTHERWISE SPECIFIED	
TOLERANCES	CAP. IN MF D ± % RES. IN OHMS ± % W
2 PLACE INCHES ±0.00	DRILL DEPTHS ARE TO FULL DIAMETER
3 PLACE INCHES ±0.010	TAP DEPTHS ARE MINIMUM FULL THREADS
ANGLES ±1°	DO NOT SCALE DRAWING REMOVE ALL BURRS AND SHARP EDGES
MATERIAL	MTS NO.
STOCK SIZE	QUANTITY
FINISH	THIRD ANGLE PROJ.

APPROVAL		REFERENCE DRAWINGS	
DFTSMN	CHECK	ENGR	MFG
TAW		JAW	
DATE	DATE	DATE	DATE
2-85		2-85	
TITLE		FIRST USED ON	
ACTUATOR ASSY - LINEAR, 244.51		SIZE NUMBER	
C 409521-01		REV	
MODEL/SYSTEM NO.		V CARD P/L	
960.54-21		SHEET 1 OF 1	

ACTUATOR ASSY-LINEAR,
244.51

PART 409521-01 LIST
(REV =)

MTS SYSTEMS

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PART NO.	DESCRIPTION	VENDOR NAME AND PART NO.	QTY	UM	ITM
368672-07	CYLINDER ASSY-244.51S, NON-STANDARD		1.00	EA	001
070508-03	PEDESTAL BASE ASSY		1.00	EA	002
369737-01	SWIVEL BASE ASSY, 244.51		1.00	EA	003
343082-04	MANIFOLD ASSY-256.25 S/V, 204.XX		1.00	EA	004
310710-02	LOAD CELL-661.31A-02		1.00	EA	005
030586-18	SPIRAL WASHER ASSY 2.992 ID X 7.00 OD		1.00	EA	006
059140-79	STUD CONTINUOUS THREAD		1.00	EA	007
369736-01	SWIVEL HEAD ASSY - 244.51 ENGLISH THREADS		1.00	EA	008

MANIFOLD ASSY-256.25 S/V,
204.XX

PART 343082-04 LIST
(REV =)

MTS SYSTEMS

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PART NO.	DESCRIPTION	VENDOR NAME AND PART NO.	QTY	UM	ITM
372557-02	MANIFOLD-SERVOVALVE, 244.XX,256.25 S/V		1.00	EA	001
335610-02	SERVOVALVE ASSY- 256.25A-02		1.00	EA	002
100107-55	PACKING-PREFORMED,O-RING .103X 90D BUNA-N 1.925 ID	ARP568-135	2.00	EA	003
100142-14	SCREW-CAP,SOCKET HEAD 3/8-16UNC X 3 1/4 LONG	SPS UNBRAKO GR-8,BLK OXD	8.00	EA	004
100269-08	PLUG-MACH THD,INTL WR 1 7/8-12	FLODAR R 771-24	2.00	EA	005
100371-01	TUBING-304 SST,WELDED 1/4OD X .035WA,TRENTWELD	COLT INDUSTRIES ASTM-A269	1.00	FT	006
100267-01	NUT-TUBE COUPLING 1/4 TUBE	PARKER HANNIFIN 4 BTX-S	2.00	EA	007
100277-01	SLEEVE-FLARED,TUBE FTG 1/4 TUBE	PARKER HANNIFIN 4 TX-S	2.00	EA	008
100241-01	ADAPTER-TUBE TO BOSS 1/4 TUBE X 7/16-20	PARKER 4F50X-S	1.00	EA	009
100287-01	TEE-TUBE TO BOSS 1/4TUBE X 1/4TUBEX7/16-20	PARKER 4 S50X-S	1.00	EA	010
080255-01	PROTECTOR ASSY-DELTA P TRANSDUCER		1.00	EA	011
067956-01	TRANSDUCER-DIFFERENTIAL PRESSURE		1.00	EA	012
100135-08	SCREW-CAP,SOCKET HEAD 8-32UNC X 1 1/4 LONG	SPS UNBRAKO GR-8,BLK OXD	2.00	EA	013

PART NO.	REV LVL	STROKE - IN		STROKE - MM		CUSHION LENGTH	DIMENSIONS								PAINT SPEC	NOTES	APPV'L	
		DYN	STATIC	DYN	STATIC		"A"	"B"	"C"	"D"	E, DIA	"F"	"G"	"H" TAPPED HOLES			INIT	DATE
C368672-01	A	6.00	6.00	152.4	152.4	—	12.25	19.49	6.13	9.82	—	—	—	—	D063880-14	SPECIAL FRONT END CAP FOR 311.31 X-HD	MS	7-8-82
-02	A	6.00	6.00	152.4	152.4	—	12.25	19.49	6.13	13.38	—	—	—	—	D063880-14	EXTRA ROD LENGTH & SPCL FRONT END CAP FOR 311.31 X-HD	MS	7-8-82
-03		6.00	6.00	152.4	152.4	—	12.25	19.49	6.13	13.60	—	—	—	—	D063880-14	SPCL ASSEMBLY - SEE SHEET 3	MS	6-13-83
-04		12.00	12.00	304.8	304.8	—	18.25	25.49	13.13	13.50	—	—	—	—	D063880-14	SPCL ASSEMBLY SEE SHEET 3 X-HD MTS ON REAR END CAP	MS	8-2-83
-05		6.00	6.00	152.4	152.4	—	12.25	19.49	6.13	13.38	—	—	—	—	D063880-14	EXTRA ROD LENGTH & SPCL FRONT END CAP FOR 311.31 X-HD	DM	3-21-84
-06	A	8.00	8.00	203.2	203.2	—	14.25	21.49	8.13	13.78	—	—	—	—		EXTRA ROD LENGTH & SPCL FRONT END CAP FOR 311.31 X-HD	MS	7-12-84
-07		10.00	10.00	254.0	254.0	—	17.25	23.49	10.13	1.50	1.625	1.500	3/8-16UNC	D063880-14	PORTED FOR 250 GPM SERVOVALVE	MS	2-25-85	
-08	A	10.00	10.00	254.0	254.0	—	16.25	23.49	10.13	13.82	—	—	—	D063880-14	EXTRA ROD LENGTH & SPCL FRONT END CAP FOR 311.31 X-HD	CPD	4/85	

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REVISIONS DESCRIPTION DFTSMN APPV'L DATE SEE SHEET 1	UNLESS OTHERWISE SPECIFIED										APPROVAL			
	TOLERANCES			CAP. IN MF ± % RES. IN OHMS ± % W			DFTSMN		CHECK		ENGR		MFG	
	2 PLACE INCHES ±.030	3 PLACE INCHES ±.010	ANGLES ±1°	DRILL DEPTHS ARE TO FULL DIAMETER			MGV		DATE		DATE		DATE	
	DO NOT SCALE DRAWING			REMOVE ALL BURRS AND SHARP EDGES			8-82		7-8-82					
MATERIAL						MTS NO.		SURFACE FINISH 125		TITLE				
STOCK SIZE						QUANTITY		SCALE		CYLINDER ASSY - 244.515, NON - STANDARD				
FINISH						THIRD ANGLE PROJ.		FIRST USED ON		SIZE NUMBER		REV		
ECO NO.										C 368672-XX		A		
								MODEL/SYSTEM NO.		V CARD P/L		SHEET 4 OF 4		
MTS MTS SYSTEMS CORPORATION MINNEAPOLIS, MINNESOTA 55424 U.S.A.														