



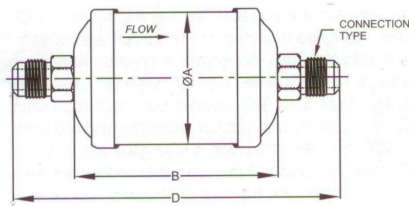
**LIQUID LINE FILTER DRIER
DCH SERIES
(SOLID CORE TYPE)**

**INTERNAL
ASSEMBLY
CORE TYPE**

**MAXIMUM WORKING
PRESSURE
45 BAR (653 PSIG)**

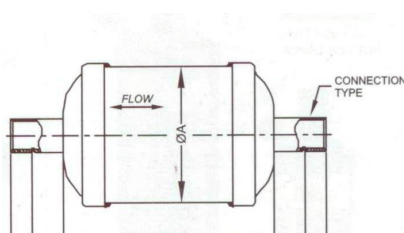
**SAE TYPE CONNECTION
NICKEL PLATED
STEEL**

**ODS TYPE CONNECTION
COPPER**



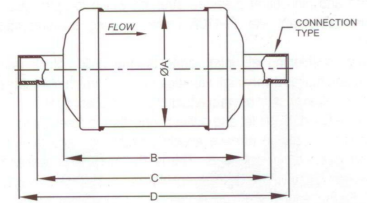
**DCH DRIER WITH SAE
CONNECTION
DIMENSIONS**

DRAWING 1



**DCH BI-FLOW DRIER WITH ODS
CONNECTION DIMENSIONS**

DRAWING 2



**DCH DRIER WITH ODS
CONNECTION
DIMENSIONS**

DRAWING 3

DCH052F
1/4" SAE LIQUID LINE FILTER DRIER
1/4" SAE CONNECTION,
4.88" OVERALL LENGTH
DRAWING 1

DCHBF083S
3/8" ODS LIQUID LINE FILTER DRIER
BI-FLOW, 3/8" ODS CONNECTION,
5.78" OVERALL LENGTH
DCHBF163S
3/8" ODS LIQUID LINE FILTER DRIER
BI-FLOW, 3/8" ODS CONNECTION,
6.57" OVERALL LENGTH
DRAWING 2

DCH163S
3/8" ODS LIQUID LINE FILTER DRIER
3/8" ODS CONNECTION,
6.77" OVERALL LENGTH
DCH164S
1/2" ODS LIQUID LINE FILTER DRIER
1/2" ODS CONNECTION,
6.77" OVERALL LENGTH
DRAWING 3

DCH032S
1/4" ODS LIQUID LINE FILTER DRIER
1/4" ODS CONNECTION,
4.61" OVERALL LENGTH
DCH053S
3/8" ODS LIQUID LINE FILTER DRIER
3/8" ODS CONNECTION,
5.04" OVERALL LENGTH
DCH083S
3/8" ODS LIQUID LINE FILTER DRIER
3/8" ODS CONNECTION,
5.86" OVERALL LENGTH
DRAWING 3

SCHEDULE 40 PVC FITTINGS



PART #	DESCRIPTION	PKG.	TYPE
MA-30105	COUPLING 1/2" SLIP X SLIP	100	A
MA-30107	COUPLING 3/4" SLIP X SLIP	50	A
MA-30110	COUPLING 1" SLIP X SLIP	50	A
MA-30605	ELBOW 45 1/2" SLIP X SLIP	50	B
MA-30607	ELBOW 45 3/4" SLIP X SLIP	50	B
MA-30610	ELBOW 45 1" SLIP X SLIP	50	B
MA-30705	ELBOW 90 1/2" SLIP X SLIP	50	C
MA-30707	ELBOW 90 3/4" SLIP X SLIP	50	C
MA-30710	ELBOW 90 1" SLIP X SLIP	50	C
MA-31318	1/2" CLEAN OUT TEE	1	L
MA-31348	3/4" CLEAN OUT TEE	1	L
MA-31405	TEE 1/2" SLIP X SLIP X SLIP	50	D
MA-31407	TEE 3/4" SLIP X SLIP X SLIP	50	D
MA-31410	TEE 1" SLIP X SLIP X SLIP	50	D
MA-30305	ADAPTOR 1/2" SLIP X FPT	100	E
MA-30307	ADAPTOR 3/4" SLIP X FPT	50	E
MA-30311	ADAPTOR 1" SLIP X FPT	50	E
MA-30357	REDUCING FPT ADAPTOR 1/2" SLIP X 3/4" FPT	50	F
MA-30405	ADAPTOR 1/2" SLIP X MPT	100	G
MA-30407	ADAPTOR 3/4" SLIP X MPT	50	G
MA-30410	ADAPTOR 1" SLIP X MPT	50	G
MA-30457	REDUCING MPT ADAPTOR 1/2" SLIP X 3/4" MPT	50	H
MA-30155	CAP 1/2" SLIP	100	I
MA-30157	CAP 3/4" SLIP	50	I
MA-30158	CAP 1" SLIP	50	I
MA-448007	CAP 3/4" FPT	100	I

PART #	DESCRIPTION	PKG.	TYPE
MA-450007	PLUG 3/4" MPT	50	
MA-30275	REDUCING BUSHING 3/4" SLIP X 1/2" SLIP	100	J
MA-437131	REDUCING BUSHING 1" SLIP X 3/4" SLIP	100	J
MA-436074	REDUCING MPT ADAPTOR 3/4" SLIP X 1/2" MPT	100	H
MA-32905	STREET ELBOW 90 1/2" SLIP	50	M
MA-32907	STREET ELBOW 90 3/4" SLIP	50	M
MA-409010	STREET ELBOW 90 1" SLIP	50	M
MA-33905	ELBOW 90 1/2" SLIP X FPT	50	K
MA-33907	ELBOW 90 3/4" SLIP X FPT	50	K
MA-33910	ELBOW 90 1" SLIP X FPT	50	K
MA-401020	TEE 2" SLIP X SLIP X SLIP	25	D
MA-407074	ELBOW 90 3/4" FPT X 1/2" SLIP	50	K
MA-410005	STREET ELBOW 90 1/2" MPT X 1/2" SLIP	50	M
MA-410007	STREET ELBOW 90 3/4" MPT X 3/4" SLIP	50	M
MA-410010	STREET ELBOW 90 1" MPT X 1" SLIP	50	M
MA-410101	STREET ELBOW 90 3/4" MPT X 1/2" SLIP	50	M
MA-457005	UNION 1/2" SLIP X SLIP	10	N
MA-457007	UNION 3/4" SLIP X SLIP	10	N
MA-457010	UNION 1" SLIP X SLIP	10	N
MA-457012	UNION 1-1/4" SLIP X SLIP	5	N
MA-457015	UNION 1-1/2" SLIP X SLIP	5	N
MA-457020	UNION 2" SLIP X SLIP	2	N

PART #	DESCRIPTION	PKG.	TYPE
MA-70115	COUPLING 1-1/2"	100	A
MA-70120	COUPLING 2"	100	A
MA-429025	COUPLING 2-1/2" SCH 40	10	A
MA-70130	COUPLING 3"	60	A
MA-D100040	COUPLING 4"	25	A
MA-70121	RED. COUPLING 2" X 1-1/2"	25	B
MA-70132	RED. COUPLING 3" X 2"	20	B
MA-D102420	RED. COUPLING 4" X 2"	10	B
MA-D102422	RED. COUPLING 4" X 3"	10	B
MA-70116	REPAIR COUPLING 1-1/2"	25	C
MA-70122	REPAIR COUPLING 2"	25	C
MA-70133	REPAIR COUPLING 3"	10	C
MA-D130040	REPAIR COUPLING 4"	5	C
MA-70151	CAP SCH. 40 1-1/2"	25	D
MA-70152	CAP SCH. 40 2"	25	D
MA-447025	CAP SCH. 40 2-1/2"	10	D
MA-70153	CAP SCH. 40 3"	10	D
MA-447040	CAP SCH. 40 4"	5	D
MA-72815	90 DEG. ELBOW 1-1/2"	100	E
MA-72820	90 DEG. ELBOW 2"	50	E
MA-406025	90 DEG. ELBOW SCH 40 2-1/2"	10	E
MA-72830	90 DEG. ELBOW 3"	25	E
MA-D300040	90 DEG. ELBOW 3"	10	E
MA-70615	45 DEG. ELBOW 1-1/2"	100	H
MA-70620	45 DEG. ELBOW 2"	50	H
MA-417025	45 DEG. ELBOW 2-1/2" SCH 40	10	H
MA-70630	45 DEG. ELBOW 3"	20	H

SCHEDULE 40 PVC-DWV FITTINGS



PART #	DESCRIPTION	PKG.	TYPE
MA-D321040	45 DEG. ELBOW 4"	100	H
MA-73815	90 DEGREE LONG SWEEP ELBOW 1-1/2"	50	F
MA-73820	90 DEGREE LONG SWEEP ELBOW 2"	25	F
MA-73830	90 DEGREE LONG SWEEP ELBOW 3"	10	F
MA-D304040	90 DEGREE LONG SWEEP ELBOW 4"	5	F
MA-71115	TEE 1-1/2"	100	G
MA-71120	TEE 2"	35	G
MA-401025	TEE SCH. 40 2-1/2"	10	G
MA-71130	TEE 3"	30	G
MA-D400040	TEE 4"	5	G
MA-70221	BUSHING SCH. 40 2" X 1-1/2"	50	I
MA-437292	BUSHING SCH. 40 2-1/2" X 2"	10	I
MA-70231	BUSHING SCH. 40 3" X 1-1/2"	30	I
MA-70232	BUSHING 3" X 2"	30	I
MA-437339	BUSHING SCH. 40 3" X 2-1/2"	10	I
MA-D309015	LONG SWP. STR. ELB. 1-1/2"	10	
MA-D309020	LONG SWP. STR. ELB. 2"	25	
MA-D309030	LONG SWP. STR. ELB. 3"	20	
MA-D323015	45 DEG. STR. ELB. 1-1/2"	100	
MA-D323020	45 DEG. STR. ELB. 2"	50	
MA-D323030	45 DEG. STR. ELB. 3"	20	
MA-207013	NIPPLE TBE SCH. 80 3/4" X CL 50		
MA-207030	NIPPLE TBE SCH. 80 3/4" X 3" 50		

MA-FL460
4 LED
FLASHLIGHT & 60
LED WORKLIGHT
WITH STAND, HOOK
AND MAGNET



MA-FL32LED
32 LED
WORKLIGHT
WITH STAND, HOOK
AND MAGNET



MA-FL28L
28 LEDS
TRI BEAM
FLASHLIGHT



MA-OV24-3
24 LED WORKLIGHT
WITH 3 LED
FLASHLIGHT

MA-FL3A
3 LED EXTENDABLE
FLASHLIGHT
WITH FLEXIBLE NECK



MA-HML7
7 LED HEAD LAMP
3 POSITIONS 1-3-7 LED



MA-FL3-M
MIRROR
ATTACHMENT
FOR MA-FL3A



MA-0620
5 LED
FLASHLIGHT

MA-502N-8L
8 LED
FLASHLIGHT



MA-FL13089A
9 LED FLASHLIGHT

MA-AP132
6 LED PEN LIGHT
WITH MAGNET AND
CLIP



MA-AP3172
25 LED WORKLIGHT
WITH 8 LED FLASHLIGHT
AND 1 LASER

MA-UVFL15-1
10 LED WHITE
FLASHLIGHT
5 UV LED-1 LASER
AND COMPASS



MAGNA-LITE

MA-1001 (12/CTN)
MAGNA-LITE JR
MA-2001 (1/PKG)
MAGNA-LITE SR.
MA-4001 (1EA/PKG)
BULB & BATTERY
REPLACEMENT FOR MA-1001



MA-1001



MA-2001

INDUSTRIAL GRADE BATTERIES

MA-ALD D ALKALINE
6/PKG 6 72/CASE
MA-ALC C ALKALINE
6/PKG 6 72/CASE
MA-ALAA AA ALKALINE
8/PKG 6 96/CASE
MA-ALAAA AAA ALKALINE
8/PKG 6 96/CASE
MA-AL9V 9V ALKALINE
6/PKG 6 72/CASE





MAGNETIC 180 DEGREE ADJUSTABLE METAL WORKLIGHT WITH 25' CORD

MA-748325A

TROUBLE LIGHT WITH SWITCH & OUTLET

MA-71493
25'16/3 SJT WITH METAL GUARD SWITCH & OUTLET TROUBLE LIGHT

MA-70343
50'16/3 SJT WITH METAL GUARD SWITCH & OUTLET TROUBLE LIGHT



REPLACEMENT POWER SUPPLY CORDS



- MA-09857** 6' 14/3 BLACK 3 CONDUCTOR SJE00W, 125V, 15 AMP RATING
- MA-09858** 9' 14/3 BLACK 3 CONDUCTOR SJE00W, 125V, 15 AMP RATING
- MA-09709** 9' 16/3 BLACK 3 CONDUCTOR SJTW, 125V, 13 AMP RATING

LIGHT BULBS

GENERAL SERVICE BULBS

- MA-4101** 40 WATT (4/PKG)
- MA-4102** 60 WATT (4/PKG)
- MA-4104** 100 WATT (4/PKG)
- MA-4540** 150 WATT (1/PKG)

ROUGH SERVICE BULBS

- MA-4430** 50 WATT (6/PKG)
- MA-4429** 60 WATT (6/PKG)
- MA-4431** 100 WATT (6/PKG)
- MA-4433** 150 WATT (6/PKG)



TOUGHSKIN COATED SHATTER-PROOF BULBS

- MA-4401** 50 WATT (6/PKG)
- MA-4402** 60 WATT (4/PKG)
- MA-4404** 100 WATT (4/PKG)

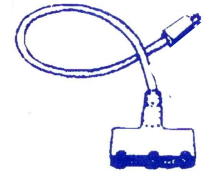
ALL-WEATHER EXTENSION CORDS



- MA-73093** 50 FT. 12/3 SJEOW
- MA-74213** 100 FT. 12/3 SJEOW
- MA-60743** 50 FT. 12/3 SJTW
- MA-72023** 100 FT. 12/3 SJTW
- MA-70474** 25 FT. 14/3 SJTW
- MA-63493** 50 FT. 14/3 SJTW
- MA-61623** 100 FT. 14/3 SJTW
- MA-65093** 25 FT. 16/3 SJTW
- MA-63223** 50 FT. 16/3 SJTW
- MA-67363** 100 FT. 16/3 SJTW

HANDI-TAP 3-OUTLET EXTENSION CORDS ORANGE

- MA-72314** 2 FT. 12/3 STW, 15A
- MA-71354** 25 FT. 12/3 SJTW, 15A
- MA-72744** 50 FT. 12/3 SJTW, 15A
- MA-62044** 100 FT. 12/3 SJTW, 15A
- MA-61834** 25 FT. 14/3 SJTW, 15A
- MA-60954** 50 FT. 14/3 SJTW, 15A
- MA-70204** 100 FT. 14/3 SJTW, 15A



AIR CONDITIONING EXTENSION CORDS MEETS OSHA SPECIFICATIONS!



- MA-03532** 6 FT. 14/3 BEIGE, SPT3, RIGHT ANGLE, MALE PLUG, 15A-125V
- MA-03533** 9 FT. 14/3 BEIGE, SPT3, RIGHT ANGLE, MALE PLUG, 15A-125V

CIRCUIT AND VOLTAGE TESTERS

- MA-8101** CIRCUIT TESTER 90-300V AC/DC, NEON GLOW INDICATES LIVE CIRCUIT. HEAVY DUTY TWIN LEAD TESTER
- MA-8202** LOW VOLTAGE TESTER 5-50V AC/DC, TWIN LEAD CIRCUIT TESTER WITH ALLIGATOR CLIPS
- MA-8203** 4 WAY TESTER FOR AC/DC VOLTAGES 110, 220, 277 AND 440 WITH POCKET CLIP
- MA-8201** COMBINATION CIRCUIT TESTER AND SCREWDRIVER FOR 80-250V AC/DC WITH POCKET CLIP
- MA-8205** GFI RECEPTACLE TESTER

MA-8101



MA-8202



MA-8201



MA-8203



MA-8205

VOLTAGE PROBE & CONTINUITY TESTER

MA-8206



VOLTAGE TESTER

MA-7321

TEST RANGE: 80-300V AC/DC, 50-60HZ



SOLENOID VOLTAGE TESTER

MA-8207

TEST RANGE: AC: 120-240-480-600V
DC: 120-240-600V



TEST LEAD WITH START SWITCH

MA-69523

VOLTAGE TESTER AND LED FLASHLIGHT
24 TO 1000VAC

MA-49858A



ALLIGATOR AND BATTERY CLIPS



MA03090-1
MA03093-1
MA03096-2



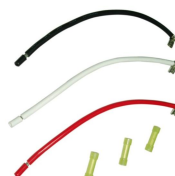
MA02933-1
MA02936-1



MA03092-1

- MA02933-1** NON-INSULATED SMALL (8/PKG)
- MA02936-1** NON-INSULATED MEDIUM (6/PKG)
- MA03090-1** 2 BLACK & 2 RED INSULATED BOOTS-SMALL (4/PKG)
- MA03092-1** CABLE CLAMP STYLE CLIP 6 2 BLACK AND 2 RED (4/PKG)
- MA03093-1** BLACK & RED INSULATED BOOTS 6 LARGE (4/PKG)
- MA03096-2** JUMBO BATTERY CLIPS WITH 1 BLACK AND 1 RED BOOT

COMPRESSOR LEADS



- MA02984-2** 8" COMPRESSOR LEADS
- MA02984-3** 18" COMPRESSOR LEADS
- MA02985-2** 8" COMPRESSOR LEADS WITH RINGS
- MA02985-3** 18" COMPRESSOR LEADS WITH RINGS

TEST LEAD ADAPTORS

MA02987-2 1 BLACK AND 1 RED ADAPTORS 6" LENGTH (2/PKG)



MA02991-2

TEST LEADS AND ADAPTORS



MA05031-2



MA-32831
MA-32832

- MA02991-2** 14 AWG, 24" LONG LEADS
- MA05031-2** 18 AWG, 10EA. 18" LONG TEST LEADS
- MA-32831** 2' FEMALE CORD ADAPTER
- MA-32832** 6' MALE CORD ADAPTER

RELAY/OVERLOAD COMBINATION

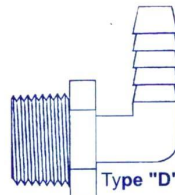
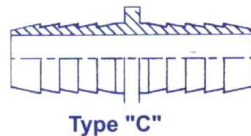
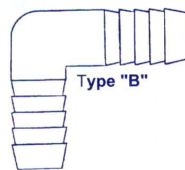
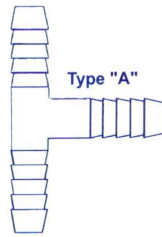
MA-IC13
1/4 & 1/3 HP, 120V, 50/60HZ
MA-IC15
1/8, 1/6, 1/5 HP 120V, 50/60HZ



- FEATURES:**
- BUILT IN MOUNTING CLIP
- MOUNTS IN ANY POSITION
- PREWIRED FOR FAST AND SIMPLE INSTALLATION
- CAN BE USED WITH IN A CAPACITOR OR NON-CAPACITOR APPLICATION.

PART #	DESCRIPTION	PKG.	TYPE
MA-22157	TEE 1/4" BARB	5	A
MA-22157-25	TEE 1/4" BARB	25	A
MA-22157-50	TEE 1/4" BARB	50	A
MA-22157-100	TEE 1/4" BARB	100	A
MA-22159	TEE 3/8" BARB	5	A
MA-22159-25	TEE 3/8" BARB	25	A
MA-22159-50	TEE 3/8" BARB	50	A
MA-22159-100	TEE 3/8" BARB	100	A
MA-22160	TEE 1/2" BARB	4	A
MA-22160-25	TEE 1/2" BARB	25	A
MA-22160-50	TEE 1/2" BARB	50	A
MA-22160-100	TEE 1/2" BARB	100	A
MA-22161	TEE 5/8" BARB	4	A
MA-22161-25	TEE 5/8" BARB	25	A
MA-22161-50	TEE 5/8" BARB	50	A
MA-22161-100	TEE 5/8" BARB	100	A
MA-22286	TEE 3/4" BARB	4	A
MA-22286-25	TEE 3/4" BARB	25	A
MA-22286-50	TEE 3/4" BARB	50	A
MA-22286-100	TEE 3/4" BARB	100	A
MA-22151	ELBOW 1/4" BARB	5	B
MA-22151-25	ELBOW 1/4" BARB	25	B
MA-22151-50	ELBOW 1/4" BARB	50	B
MA-22151-100	ELBOW 1/4" BARB	100	B
MA-22152	ELBOW 3/8" BARB	5	B
MA-22152-25	ELBOW 3/8" BARB	25	B
MA-22152-50	ELBOW 3/8" BARB	50	B
MA-22152-100	ELBOW 3/8" BARB	100	B
MA-22153	ELBOW 1/2" BARB	4	B
MA-22153-25	ELBOW 1/2" BARB	25	B
MA-22153-50	ELBOW 1/2" BARB	50	B
MA-22153-100	ELBOW 1/2" BARB	100	B
MA-22154	ELBOW 5/8" BARB	4	B
MA-22154-25	ELBOW 5/8" BARB	25	B
MA-22154-50	ELBOW 5/8" BARB	50	B
MA-22154-100	ELBOW 5/8" BARB	100	B
MA-22192	ELBOW 3/4" BARB	3	B
MA-22192-25	ELBOW 3/4" BARB	25	B
MA-22192-50	ELBOW 3/4" BARB	50	B
MA-22192-100	ELBOW 3/4" BARB	100	B
MA-22031	CONNECTOR 1/4"BARB	5	C
MA-22031-25	CONNECTOR 1/4"BARB	25	C
MA-22031-50	CONNECTOR 1/4"BARB	50	C
MA-22031-100	CONNECTOR 1/4"BARB	100	C
MA-12032	CONNECTOR 3/8"BARB	5	C
MA-12032-25	CONNECTOR 3/8"BARB	25	C
MA-12032-50	CONNECTOR 3/8"BARB	50	C
MA-12032-100	CONNECTOR 3/8"BARB	100	C
MA-12033	CONNECTOR 1/2"BARB	4	C
MA-12033-25	CONNECTOR 1/2"BARB	25	C
MA-12033-50	CONNECTOR 1/2"BARB	50	C
MA-12033-100	CONNECTOR 1/2"BARB	100	C
MA-12034	CONNECTOR 5/8"BARB	4	C
MA-12034-25	CONNECTOR 5/8"BARB	25	C
MA-12034-50	CONNECTOR 5/8"BARB	50	C
MA-12034-100	CONNECTOR 5/8"BARB	100	C

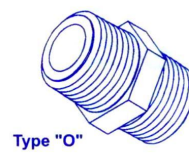
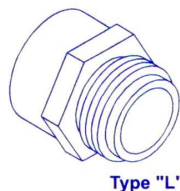
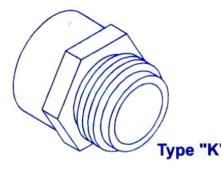
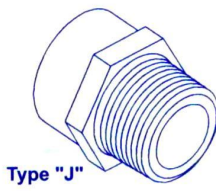
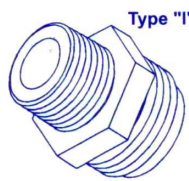
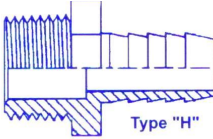
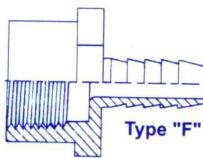
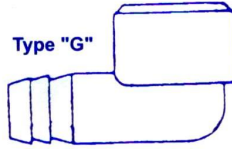
NYLON FITTINGS



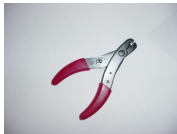
PART #	DESCRIPTION	PKG.	TYPE
MA-12035	CONNECTOR 3/4"BARB	3	C
MA-12035-25	CONNECTOR 3/4"BARB	25	C
MA-12035-50	CONNECTOR 3/4"BARB	50	C
MA-12035-100	CONNECTOR 3/4"BARB	100	C
MA-22263	ELBOW 1/4"B X 1/4"MPT	5	D
MA-22263-25	ELBOW 1/4"B X 1/4"MPT	25	D
MA-22263-50	ELBOW 1/4"B X 1/4"MPT	50	D
MA-22263-100	ELBOW 1/4"B X 1/4"MPT	100	D
MA-22264	ELBOW 1/4"B X 3/8"MPT	4	D
MA-22264-25	ELBOW 1/4"B X 3/8"MPT	25	D
MA-22264-50	ELBOW 1/4"B X 3/8"MPT	50	D
MA-22264-100	ELBOW 1/4"B X 3/8"MPT	100	D
MA-22112	ELBOW 3/8"B X 3/8"MPT	4	D
MA-22112-25	ELBOW 3/8"B X 3/8"MPT	25	D
MA-22112-50	ELBOW 3/8"B X 3/8"MPT	50	D
MA-22112-100	ELBOW 3/8"B X 3/8"MPT	100	D
MA-22113	ELBOW 3/8"B X 1/2"MPT	4	D
MA-22113-25	ELBOW 3/8"B X 1/2"MPT	25	D
MA-22113-50	ELBOW 3/8"B X 1/2"MPT	50	D
MA-22113-100	ELBOW 3/8"B X 1/2"MPT	100	D
MA-22114	ELBOW 3/8"B X 3/4"MPT	4	D
MA-22114-25	ELBOW 3/8"B X 3/4"MPT	25	D
MA-22114-50	ELBOW 3/8"B X 3/4"MPT	50	D
MA-22114-100	ELBOW 3/8"B X 3/4"MPT	100	D
MA-22116	ELBOW 1/2"B X 1/2"MPT	4	D
MA-22116-25	ELBOW 1/2"B X 1/2"MPT	25	D
MA-22116-50	ELBOW 1/2"B X 1/2"MPT	50	D
MA-22116-100	ELBOW 1/2"B X 1/2"MPT	100	D
MA-22117	ELBOW 1/2"B X 3/4"MPT	4	D
MA-22117-25	ELBOW 1/2"B X 3/4"MPT	25	D
MA-22117-50	ELBOW 1/2"B X 3/4"MPT	50	D
MA-22117-100	ELBOW 1/2"B X 3/4"MPT	100	D
MA-22120	ELBOW 5/8"B X 3/4"MPT	4	D
MA-22120-25	ELBOW 5/8"B X 3/4"MPT	25	D
MA-22120-50	ELBOW 5/8"B X 3/4"MPT	50	D
MA-22120-100	ELBOW 5/8"B X 3/4"MPT	100	D
MA-22122	ELBOW 3/4"B X 3/4"MPT	4	D
MA-22122-25	ELBOW 3/4"B X 3/4"MPT	25	D
MA-22122-50	ELBOW 3/4"B X 3/4"MPT	50	D
MA-22122-100	ELBOW 3/4"B X 3/4"MPT	100	D
MA-12052	BUSHING 1/2"MPT X 3/8"FPT	4	E
MA-12052-25	BUSHING 1/2"MPT X 3/8"FPT	25	E
MA-12052-50	BUSHING 1/2"MPT X 3/8"FPT	50	E
MA-12052-100	BUSHING 1/2"MPT X 3/8"FPT	100	E
MA-12053	BUSHING 3/4"MPT X 1/2"FPT	4	E
MA-12053-25	BUSHING 3/4"MPT X 1/2"FPT	25	E
MA-12053-50	BUSHING 3/4"MPT X 1/2"FPT	50	E
MA-12053-100	BUSHING 3/4"MPT X 1/2"FPT	100	E
MA-12054	BUSHING 1"MPT X 3/4"FPT	4	E
MA-12054-25	BUSHING 1"MPT X 3/4"FPT	25	E
MA-12054-50	BUSHING 1"MPT X 3/4"FPT	50	E
MA-12054-100	BUSHING 1"MPT X 3/4"FPT	100	E
MA-12055	BUSHING 1-1/4"MPT X 1"FPT	1	E
MA-12056	BUSHING 1-1/2"MPT X 1-1/4"FPT	1	E
MA-12057	BUSHING 2"MPT X 1-1/2"FPT	1	E

PART #	DESCRIPTION	PKG.	TYPE
MA-22182	ADAPTOR 1/2"B X 1/2" FPT	4	F
MA-22182-25	ADAPTOR 1/2"B X 1/2" FPT	25	F
MA-22182-50	ADAPTOR 1/2"B X 1/2" FPT	50	F
MA-22182-100	ADAPTOR 1/2"B X 1/2" FPT	100	F
MA-22185	ADAPTOR 1/2"B X 3/4" FPT	4	F
MA-22185-25	ADAPTOR 1/2"B X 3/4" FPT	25	F
MA-22185-50	ADAPTOR 1/2"B X 3/4" FPT	50	F
MA-22185-100	ADAPTOR 1/2"B X 3/4" FPT	100	F
MA-22186	ADAPTOR 5/8"B X 3/4" FPT	4	F
MA-22186-25	ADAPTOR 5/8"B X 3/4" FPT	25	F
MA-22186-50	ADAPTOR 5/8"B X 3/4" FPT	50	F
MA-22186-100	ADAPTOR 5/8"B X 3/4" FPT	100	F
MA-22187	ADAPTOR 3/4"B X 3/4" FPT	4	F
MA-22187-25	ADAPTOR 3/4"B X 3/4" FPT	25	F
MA-22187-50	ADAPTOR 3/4"B X 3/4" FPT	50	F
MA-22187-100	ADAPTOR 3/4"B X 3/4" FPT	100	F
MA-22065	ELBOW 1/2"B X 3/4" FPT	4	G
MA-22065-25	ELBOW 1/2"B X 3/4" FPT	25	G
MA-22065-50	ELBOW 1/2"B X 3/4" FPT	50	G
MA-22065-100	ELBOW 1/2"B X 3/4" FPT	100	G
MA-22064	ELBOW 5/8"B X 3/4" FPT	4	G
MA-22064-25	ELBOW 5/8"B X 3/4" FPT	25	G
MA-22064-50	ELBOW 5/8"B X 3/4" FPT	50	G
MA-22064-100	ELBOW 5/8"B X 3/4" FPT	100	G
MA-22066	ELBOW 3/4"B X 3/4" FPT	4	G
MA-22066-25	ELBOW 3/4"B X 3/4" FPT	25	G
MA-22066-50	ELBOW 3/4"B X 3/4" FPT	50	G
MA-22066-100	ELBOW 3/4"B X 3/4" FPT	100	G
MA-22002	ADAPTOR 1/4"B X 1/4" MPT	10	H
MA-22002-25	ADAPTOR 1/4"B X 1/4" MPT	25	H
MA-22002-50	ADAPTOR 1/4"B X 1/4" MPT	50	H
MA-22002-100	ADAPTOR 1/4"B X 1/4" MPT	100	H
MA-22003	ADAPTOR 1/4"B X 3/8" MPT	10	H
MA-22003-25	ADAPTOR 1/4"B X 3/8" MPT	25	H
MA-22003-50	ADAPTOR 1/4"B X 3/8" MPT	50	H
MA-22003-100	ADAPTOR 1/4"B X 3/8" MPT	100	H
MA-22005	ADAPTOR 3/8"B X 3/8" MPT	10	H
MA-22005-25	ADAPTOR 3/8"B X 3/8" MPT	25	H
MA-22005-50	ADAPTOR 3/8"B X 3/8" MPT	50	H
MA-22005-100	ADAPTOR 3/8"B X 3/8" MPT	100	H
MA-22006	ADAPTOR 3/8"B X 1/2" MPT	8	H
MA-22006-25	ADAPTOR 3/8"B X 1/2" MPT	25	H
MA-22006-50	ADAPTOR 3/8"B X 1/2" MPT	50	H
MA-22006-100	ADAPTOR 3/8"B X 1/2" MPT	100	H
MA-22007	ADAPTOR 1/2"B X 3/8" MPT	8	H
MA-22007-25	ADAPTOR 1/2"B X 3/8" MPT	25	H
MA-22007-50	ADAPTOR 1/2"B X 3/8" MPT	50	H
MA-22007-100	ADAPTOR 1/2"B X 3/8" MPT	100	H
MA-22009	ADAPTOR 1/2"B X 1/2" MPT	6	H
MA-22009-25	ADAPTOR 1/2"B X 1/2" MPT	25	H
MA-22009-50	ADAPTOR 1/2"B X 1/2" MPT	50	H
MA-22009-100	ADAPTOR 1/2"B X 1/2" MPT	100	H
MA-22013	ADAPTOR 3/8"B X 3/4" MPT	4	H
MA-22013-25	ADAPTOR 3/8"B X 3/4" MPT	25	H
MA-22013-50	ADAPTOR 3/8"B X 3/4" MPT	50	H
MA-22013-100	ADAPTOR 3/8"B X 3/4" MPT	100	H
MA-22010	ADAPTOR 1/2"B X 3/4" MPT	4	H
MA-22010-25	ADAPTOR 1/2"B X 3/4" MPT	25	H

NYLON FITTINGS



PART #	DESCRIPTION	PKG.	TYPE
MA-22010-50	ADAPTOR 1/2"B X 3/4" MPT	50	H
MA-22010-100	ADAPTOR 1/2"B X 3/4" MPT	100	H
MA-22012	ADAPTOR 5/8"B X 3/4" MPT	4	H
MA-22012-25	ADAPTOR 5/8"B X 3/4" MPT	25	H
MA-22012-50	ADAPTOR 5/8"B X 3/4" MPT	50	H
MA-22012-100	ADAPTOR 5/8"B X 3/4" MPT	100	H
MA-22014	ADAPTOR 3/4"B X 3/4" MPT	4	H
MA-22014-25	ADAPTOR 3/4"B X 3/4" MPT	25	H
MA-22014-50	ADAPTOR 3/4"B X 3/4" MPT	50	H
MA-22014-100	ADAPTOR 3/4"B X 3/4" MPT	100	H
MA-12010	ADAPTOR 3/4"MGHT X 3/4" FPT	4	K
MA-12010-25	ADAPTOR 3/4"MGHT X 3/4" FPT	25	K
MA-12010-50	ADAPTOR 3/4"MGHT X 3/4" FPT	50	K
MA-12010-100	ADAPTOR 3/4"MGHT X 3/4" FPT	100	K
MA-12004	ADAPTOR 3/4"MGHT X 3/4" MPT	4	I
MA-12004-25	ADAPTOR 3/4"MGHT X 3/4" MPT	25	I
MA-12004-50	ADAPTOR 3/4"MGHT X 3/4" MPT	50	I
MA-12004-100	ADAPTOR 3/4"MGHT X 3/4" MPT	100	I
MA-12060	ADAPTOR 3/4"MGHT X 3/4" FGHT	3	K
MA-12060-25	ADAPTOR 3/4"MGHT X 3/4" FGHT	25	K
MA-12060-50	ADAPTOR 3/4"MGHT X 3/4" FGHT	50	K
MA-12060-100	ADAPTOR 3/4"MGHT X 3/4" FGHT	100	K
MA-22048	ADAPTOR 3/4"FGHT X 5/8"B	4	L
MA-22048-25	ADAPTOR 3/4"FGHT X 5/8"B	25	L
MA-22048-50	ADAPTOR 3/4"FGHT X 5/8"B	50	L
MA-22048-100	ADAPTOR 3/4"FGHT X 5/8"B	100	L
MA-22049	ADAPTOR 3/4"FGHT X 3/4"B	4	L
MA-22049-25	ADAPTOR 3/4"FGHT X 3/4"B	25	L
MA-22049-50	ADAPTOR 3/4"FGHT X 3/4"B	50	L
MA-22049-100	ADAPTOR 3/4"FGHT X 3/4"B	100	L
MA-12013	ADAPTOR 3/4"MPT X 3/4"FGHT	4	J
MA-12013-25	ADAPTOR 3/4"MPT X 3/4"FGHT	25	J
MA-12013-50	ADAPTOR 3/4"MPT X 3/4"FGHT	50	J
MA-12013-100	ADAPTOR 3/4"MPT X 3/4"FGHT	100	J
MA-22289	TEE 3/4" X 1/2" X 1/2" BARB	4	A
MA-22289-25	TEE 3/4" X 1/2" X 1/2" BARB	25	A
MA-22289-50	TEE 3/4" X 1/2" X 1/2" BARB	50	A
MA-22289-100	TEE 3/4" X 1/2" X 1/2" BARB	100	A
MA-22290	TEE 1/2"MPT X 1/2"B X 1/2" B	4	
MA-22290-25	TEE 1/2"MPT X 1/2"B X 1/2" B	25	
MA-22290-50	TEE 1/2"MPT X 1/2"B X 1/2" B	50	
MA-22290-100	TEE 1/2"MPT X 1/2"B X 1/2" B	100	
MA-TN5044	NIPPLE 1/4"MPT X 1/4"MPT	4	O
MA-TN5044-25	NIPPLE 1/4"MPT X 1/4"MPT	25	O
MA-TN5044-50	NIPPLE 1/4"MPT X 1/4"MPT	50	O
MA-TN5044-100	NIPPLE 1/4"MPT X 1/4"MPT	100	O
MA-TN5066	NIPPLE 3/8"MPT X 3/8"MPT	4	O
MA-TN5066-25	NIPPLE 3/8"MPT X 3/8"MPT	25	O
MA-TN5066-50	NIPPLE 3/8"MPT X 3/8"MPT	50	O
MA-TN5066-100	NIPPLE 3/8"MPT X 3/8"MPT	100	O
MA-TN5088	NIPPLE 1/2"MPT X 1/2"MPT	4	O
MA-TN5088-25	NIPPLE 1/2"MPT X 1/2"MPT	25	O
MA-TN5088-50	NIPPLE 1/2"MPT X 1/2"MPT	50	O
MA-TN5088-100	NIPPLE 1/2"MPT X 1/2"MPT	100	O
MA-TN51212	NIPPLE 3/4"MPT X 3/4"MPT	4	O
MA-TN51212-25	NIPPLE 3/4"MPT X 3/4"MPT	25	O
MA-TN51212-50	NIPPLE 3/4"MPT X 3/4"MPT	50	O
MA-TN51212-100	NIPPLE 3/4"MPT X 3/4"MPT	100	O



MA-CL1
CAPILLARY TUBE
CUTTER



MA-VTC1
VINYL TUBING CUTTER
CUTS VINYL TUBING, PVC PIPE AND
RUBBER TUBING

HOLE SAW
KITS



MA-NS1000
6PC SAW KIT
3/4", 7/8", 1-1/8", 1-1/2", 1-3/4" & 2-1/4"
PLUS MA-NS1 & MA-NS2 ARBORS

MA-NS2000
9PC SAW KIT
3/4", 7/8", 1-1/8",
1-3/8", 1-1/2", 1-3/4", 2", 2-1/4" & 2-1/2"
PLUS MA-NS1, MA-NS2 & MA-NS3
ARBORS & PILOT DRILL

REPLACEMENT SAWS, ARBORS & EXTENSIONS

MA-NS1 7/16" HEX SHANK ARBOR 9/16" TO 1-1/8" HOLE SAWS
1/2" X 20 THREAD

MA-NS2 7/16" HEX SHANK ARBOR 1-1/4" TO 6" HOLE SAWS
5/8" X 18 THREAD

BI METAL HOLE SAW

MA-NS12 3/4" **MA-NS14** 7/8" **MA-NS16** 1"

MA-NS18 1-1/8" **MA-NS22** 1-3/8" **MA-NS24** 1-1/2"

MA-NS26 1-5/8" **MA-NS28** 1-3/4" **MA-NS32** 2"

MA-NS36 2-1/4" **MA-NS40** 2-1/2"

MA-NSPD1 1/4" X 4" PILOT DRILL



DEBURRING TOOLS

MA-49310
DELUXE DE-BURRING TOOL
MA-49311A

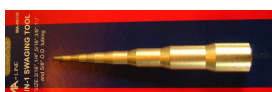
REPLACEMENT BLADES FOR
THE MA-49310



MA-49316
ALL METAL DE-BURRING
TOOL WITH FIXED BLADE



MA-49317
INNER/OUTER STEEL REAMER
CAPACITY: 1/8" TO 1-5/8" OD



MA-49318
6 IN 1 SWAGING TOOL
3/16", 1/4", 5/16", 3/8", 1/2",
AND 5/8" OD TUBING

TORQ AND HEX KEY SETS

MA-88057 7PC. TORX FOLD UP SET
T10, T15, T20, T25, T27, T30 & T40

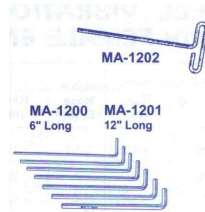
MA-88081 8PC. HEX KEY FOLD UP SET
.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64" & 5/32"

MA-88091 9PC. HEX KEY FOLD UP SET
5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4"

MA-1200 7PC HEX KEY SET - 6" LONG
3/32", 5/64", 1/8", 5/32", 3/16", 7/32" & 1/4"

MA-1201 7PC HEX KEY SET
12" LONG - 3/32", 5/64", 1/8", 5/32",
3/16", 7/32" & 1/4"

MA-1202 8PC T-HANDLE HEX
WRENCH SET - 9" LONG - 3/32",
7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4"



3PC OFFSET
SCREWDRIVER
SET
MA-70059P



8PC
SCREWDRIVER
SET
4 SLOTTED 6 4 PHILLIPS



MA-AP8SD

7PC NUT DRIVER SET

MA-9355

REPLACEMENT DRIVERS

MA-9306 3/16"

MA-9308 1/4"

MA-9310 5/16"

MA-9311 11/32"



REPLACEMENT DRIVERS

MA-9312 3/8"

MA-9314 7/16"

MA-9316 1/2"

HOLLOW SHAFTS

6 IN 1 SCREWDRIVER

2 SLOTTED 6 2 PHILLIPS 6 2 NUT DRIVERS
12 PER DISPLAY BOX

MA-9357 6 IN 1 SCREWDRIVER

MA-SDB2 LARGE & SMALL SLOTTED BIT

MA-SDB8 LARGE & SMALL PHILLIPS BIT



MA-9358
6 IN 1 HEAVY DUTY
RUBBER GRIP
SCREWDRIVER

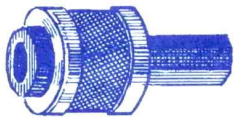


MULTI-BIT & DRIVER KIT

MA-290

29PC TOOL KIT ASSORTED BITS WITH
DRIVER & EXTENSION





QUICK CHANGE DRILL ADAPTOR

MA03500-2

19 PC. SOCKET SET

MA-SOC19
STANDARD SIZE
MA-SOC19-MET
METRIC SIZE



5/16" ADAPTOR FOR R-410 SYSTEMS

MA-19173

ADJUSTABLE WRENCHES

MA-WR6 6"
MA-WR8 8"
MA-WR10 10"
MA-WR12 12"
MA-WR681012 6", 8", 10" & 12"



QUICK CHANGE ADAPTOR KIT

MA-72066

MA-60609
HEX KEY ADAPTOR

MA-60610
HEX KEY ADAPTOR WITH STRAIGHT WRENCH

MA-60613
STRAIGHT WRENCH
1/4" & 3/16" AND 3/8" & 5/16"
(ALSO AVAILABLE **MA-60613-25** 25/PKG)

MA-60616
OFFSET WRENCH
1/4" & 3/16" AND 3/8" & 5/16"
(ALSO AVAILABLE **MA-60616-25** 25/PKG)

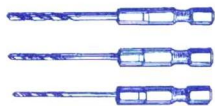


13PC DRILL SET
1/16" 6 1/4" IN ROUND CASE

MA-147B

QUICK CHANGE CHUCK DRILL BITS

MA03505-2 1/16" HEX SHANK
MA03506-2 3/32" HEX SHANK
MA03507-2 1/8" HEX SHANK
MA03508-2 5/32" HEX SHANK
MA03509-2 3/16" HEX SHANK
MA03510-2 1/4" HEX SHANK



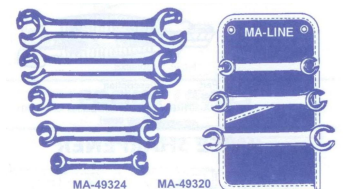
FIN COMBS

MA-MFC1
ALL METAL FIN COMB
MA-MFC2
METAL FIN COMB WITH HANDLE
MA-MFC3
6 IN 1 FIN COMBS
8, 9, 10, 12, 14, & 15 FINS/INCH



FLARE WRENCH SET

MA-49320 3 PC SET
3/8" X 7/16", 1/2" X 9/16"
& 5/8" X 11/16"
MA-49324 5 PC SET
1/4" X 5/16", 3/8" X 7/16",
1/2" X 9/16", 5/8" X 11/16" & 3/4" X 7/8"



REPLACEMENT WRENCHES

MA-49330 1/4" X 5/16" **MA-49333** 5/8" X 11/16"
MA-49331 3/8" X 7/16" **MA-49334** 3/4" X 7/8"
MA-49332 1/2" X 9/16"

HUB PULLER
PULLS OFF FAN BLADES AND BLOWER WHEELS

MA-FB2



STEEL

MA-70090
8" HEAVY DUTY
MA-70091
10" HEAVY DUTY
MA-70093
14" HEAVY DUTY
MA-70094
18" HEAVY DUTY
MA-70095
24" HEAVY DUTY

ALUMINUM

MA-70097
12" ALUMINUM
MA-70098
14" ALUMINUM
MA-70099
18" ALUMINUM
MA-70100
24" ALUMINUM

PIPE WRENCHES



30" LONG CONDENSER CLEANING TOOL

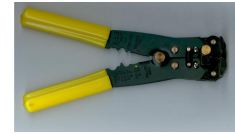
MA-0230



MA03200-2
CRIMPING TOOL



MA03203-2
DELUXE WIRE STRIPPER & CUTTER



PLIERS

TONGUE AND GROOVE PLIERS

- MA-424G** 4-1/2" 6 CAPACITY 1/2"
- MA-426G** 6-1/2" 6 CAPACITY 7/8"
- MA-420G** 9-1/2" 6 CAPACITY 1-1/2"
- MA-430G** 10" 6 CAPACITY 2"
- MA-440G** 12" 6 CAPACITY 2-1/4"
- MA-GL10** 10" GRIPLOCK 6 CAPACITY 1-1/4"
- MA-422G** 9-1/2" V-JAW 6 CAPACITY 1-1/2"
- MA-442G** 12" V-JAW 6 CAPACITY 2-1/4"
- MA-460G** 16" 6 CURVED JAW CAPACITY 4-1/4"

STANDARD PATTERN PLIERS

- MA-326** 6" LONG NOSE PLIER
- MA-317G** 7-1/2" LONG NOSE PLIERS WITH SIDE CUTTER
- MA-318** 8" HEAVY DUTY LONG NOSE PLIERS WITH SIDE CUTTER
- MA-337** 7" LAP JOINT DIAGONAL PLIER
- MA-338** 8" LAP JOINT DIAGONAL PLIER
- MA-348** 8-1/2" LINEMAN'S BEVEL NOSE PLIER
- MA-909** CRIMPING TOOL

SNAP RING PLIER

- MA-926** 6" SNAP RING PLIER

WIRE CUTTER

- MA-908G** WIRE CUTTER



LOCKING PINCH-OFF TOOL
MA-1RR



"QUICK-PIERCE"
REFRIGERANT RECOVERY TOOL

- MA-QP400** RECOVERY TOOL
- MA-QP400-12** PIERCING TIP REPLACEMENT (1/PKG)
- MA-QP400G** GASKET ONLY REPLACEMENT (1/PKG)

WISE-GRIP®
LOCKING HAND TOOLS

- MA-4LN
- MA-6LN
- MA-9LN



- MA-7CR
- MA-10CR



- MA-4LN** 4" LONG NOSE LOCKING PLIER WITH WIRE CUTTER
- MA-6LN** 6" LONG NOSE LOCKING PLIER WITH WIRE CUTTER
- MA-9LN** 9" LONG NOSE LOCKING PLIER WITH WIRE CUTTER
- MA-7CR** 7" CURVED JAW LOCKING PLIER
- MA-7WR** 7" CURVED JAW LOCKING PLIER WITH WIRE CUTTER
- MA-10CR** 10" CURVED JAW LOCKING PLIER
- MA-10WR** 10" CURVED JAW LOCKING PLIER WITH WIRE CUTTER
- MA-8R** 8" SHEET METAL LOCKING PLIER

- MA-7WR
- MA-10WR



- MA-8R

