



# FIELD ESSENTIALS

2022/2023



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## Hach DR300 Chlorine Pocket Colorimeter

The Hach® Chlorine DR300™ Pocket Colorimeter maintains the Pocket Colorimeter legacy of reliable chlorine testing for drinking water and wastewater applications while providing improved state-of-the-art features. The DR300 Chlorine Pocket Colorimeter is available in Low-Range/High-Range (LR/HR) and Mid-Range/High-Range (MR/HR) variants.

### FEATURES

- Accurately measure free and total chlorine using USEPA-accepted methods
- Rugged, waterproof design withstands any conditions encountered in the field, plant or lab
- Simple, intuitive operation reduces potential for manual error
- Large LCD display with improved backlight makes reading measurements easy
- Data logging capability records last 50 measurements
- Battery life lasts for up to 5,000 tests

### INCLUDES

- DR300 colorimeter, batteries, two glass 10 mL sample cells, two plastic high-range 10 mL sample cells, operating manual and storage case. One-year warranty. Reagents have to be purchased separately.

### CERTIFICATIONS

- IP67

### SPECIFICATIONS

Parameter	Chlorine
LR/HR Range (mg/L)	0.02 to 2.00 (LR); 0.1 to 8.0 (HR)
MR/HR Range (mg/L)	0.05 to 4.00 (MR); 0.1 to 10.0 (HR)
Wavelength (nm)	528 ± 2
Sample Size (mL)	10
Sample Cell Compatibility	1 cm (10 mL); 25 mm (10 mL)
Battery Life	Up to 5000 tests
Battery Type	Four "AAA" alkaline batteries



C&M PART #	MFR PART #	DESCRIPTION	TESTS
<b>DR300 LR/HR CHLORINE POCKET COLORIMETER</b>			
700013	LPV445.97.00110	LR/HR DR300 Chlorine Colorimeter	

#### REAGENTS & STANDARDS FOR DR300 LR/HR CHLORINE POCKET COLORIMETER

7000140121N8	2105569	DPD Free Chlorine Powder Pillows for 10 mL Sample	100
7000140321N8	2105528	DPD Free Chlorine Powder Pillows for 10 mL Sample	1000
7000140122N8	2105669	DPD Total Chlorine Powder Pillows for 10 mL Sample	100
7000140322N8	2105628	DPD Total Chlorine Powder Pillows for 10 mL Sample	1000
700018	2802300	DPD Free Chlorine SwifTest Dispenser for 10 mL Sample	250
700019	2802400	DPD Total Chlorine SwifTest Dispenser for 10 mL Sample	250
70002133	2635300	SpecCheck™ Secondary Gel Standards - DPD Chlorine LR	-
70002132	2893300	SpecCheck™ Secondary Gel Standards - DPD Chlorine HR	-

#### DR300 MR/HR CHLORINE POCKET COLORIMETER

700022	LPV445.97.62110	MR/HR DR300 Chlorine Colorimeter	
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#### REAGENTS & STANDARDS FOR DR300 MR/HR CHLORINE POCKET COLORIMETER

7000140121X2	1407099	DPD Free Chlorine Powder Pillows for 25 mL Sample	100
7000140122X2	1406499	DPD Total Chlorine Powder Pillows for 25 mL Sample	100
70002134	2980500	SpecCheck™ Secondary Gel Standards - DPD Chlorine MR	-
70002132	2893300	SpecCheck™ Secondary Gel Standards - DPD Chlorine HR	-

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION	TESTS
700028	2427606	Glass 10 mL Sample Cells - Pack of 6	-
700029	4864302	Plastic High-Range 10 mL Sample Cells - Pack of 2	-

## Hach DR300 Selection Guide



The Hach DR300 Pocket Colorimeter can analyze several different parameters based on the chosen model. Select the parameter for your application, and visit our website for complete specifications. Reagents must be purchased separately.

C&M PART #	MFR PART #	PARAMETER	USEPA-COMPLIANT METHOD AVAILABLE
700095	LPV445.97.40110	Ammonia	No
700096	LPV445.97.26110	Free Ammonia & Monochloramine	No
700013	LPV445.97.00110	Free & Total Chlorine	Yes
700022	LPV445.97.62110	Free & Total Chlorine	Yes
700097	LPV445.97.12110	Chlorine & pH	No
700098	LPV445.97.51110	Chlorine Dioxide	Yes
700099	LPV445.97.22110	Iron	Yes
700100	LPV445.97.16110	Iron	No
700101	LPV445.97.15110	Manganese	Yes
700102	LPV445.97.10110	Molybdenum	No
700103	LPV445.97.02110	Nitrate	No
700104	LPV445.97.03110	Dissolved Oxygen	No
700105	LPV445.97.04110	Ozone	No
700106	LPV445.97.06110	Phosphate	Yes
700106	LPV445.97.06110	Phosphonate	No
700107	LPV445.97.09110	Zinc	Yes

## Hach Chlorine Test Kits



Hach Chlorine Test Kits quickly and accurately measure free and total chlorine levels in the field or lab. Single-range, dual-range and triple-range kits are available.

### INCLUDES

- Reagents, color disc, color comparator box, tube, instruction sheet and carrying case.

### SPECIFICATIONS

Parameter	Chlorine
<b>RANGE (MG/L)</b>	
Single-Range Kits	0.2 to 3.4
Dual-Range Kits	0.02 to 0.68; 0.1 to 3.4
Triple-Range Kits	0.02 to 0.68; 0.1 to 3.4; 0.5 to 10
Sample Size (mL)	5

C&M PART #	MFR PART #	DESCRIPTION	TESTS
700001	223102 (CN-66F)	Single-Range Free Chlorine Kit	100
700002	223103 (CN-66T)	Single-Range Total Chlorine Kit	100
700003	223101 (CN-66)	Single-Range Free & Total Chlorine Kit	50 Each
700005	1454200 (CN-70)	Dual-Range Free & Total Chlorine Kit	100 Each
700006	2129000 (CN-80)	Triple-Range Chlorine Test Kit	100 Each

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION	TESTS
7000140121F9	1407799	DPD Free Chlorine Powder Pillows for 5 mL Sample	100
7000140122F9	1407699	DPD Total Chlorine Powder Pillows for 5 mL Sample	100

### Hach DPD Powder Pillows



Hach DPD Powder Pillows can be used with any Hach colorimeter that measures chlorine.

C&M PART #	MFR PART #	DESCRIPTION	TESTS
7000140121F9	1407799	DPD Free Chlorine Powder Pillows for 5 mL Sample	100
7000140321F9	1407728	DPD Free Chlorine Powder Pillows for 5 mL Sample	1000
7000140121N8	2105569	DPD Free Chlorine Powder Pillows for 10 mL Sample	100
7000140321N8	2105528	DPD Free Chlorine Powder Pillows for 10 mL Sample	1000
7000140121X2	1407099	DPD Free Chlorine Powder Pillows for 25 mL Sample	100
7000140321X2	1407028	DPD Free Chlorine Powder Pillows for 25 mL Sample	1000
7000140122F9	1407699	DPD Total Chlorine Powder Pillows for 5 mL Sample	100
7000140322F9	1407628	DPD Total Chlorine Powder Pillows for 5 mL Sample	1000
7000140122N8	2105669	DPD Total Chlorine Powder Pillows for 10 mL Sample	100
7000140322N8	2105628	DPD Total Chlorine Powder Pillows for 10 mL Sample	1000
7000140122X2	1406499	DPD Total Chlorine Powder Pillows for 25 mL Sample	100
7000140322X2	1406428	DPD Total Chlorine Powder Pillows for 25 mL Sample	1000

### Hach SwifTest DPD Dispenser



The Hach SwifTest™ DPD Dispenser is easy to use and ideal for high-volume chlorine testing using Hach's quality DPD reagent powder.

#### FEATURES

- Squeeze to add the perfect amount of powder every time
- Reduce the cost of testing with reagent refills
- Color coded by parameter

C&M PART #	MFR PART #	DESCRIPTION	TESTS
<b>DISPENSERS WITH REAGENTS</b>			
700018	2802300	DPD Free Chlorine SwifTest Dispenser for 10 mL Sample	250
700019	2802400	DPD Total Chlorine SwifTest Dispenser for 10 mL Sample	250
<b>REAGENT REFILLS</b>			
700026	2105560	DPD Free Chlorine SwifTest Refill Vial for 10 mL Sample	250
700027	2105660	DPD Total Chlorine SwifTest Refill Vial for 10 mL Sample	250

## HOW TO ORDER



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#### EMAIL

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**HOURS OF OPERATION:** M-F; 6 A.M. to 7 P.M. CST



## Hach HQ1110 Portable pH/ORP/mV Meter and Kits



The Hach HQ1110™ Portable pH/ORP/mV Meter is a dedicated single-channel meter for pH, ORP, mV and temperature measurements. This meter utilizes Hach IntelliCAL® smart probes to retain its calibration history and method settings for reduced set-up time.

### FEATURES

- Single-channel meter for measuring pH or ORP using Hach IntelliCAL probes
- Compatible with any IntelliCAL pH or ORP probe
- Display shows measurement, temperature, calibration status, date and time
- Calibration and troubleshooting instructions are illustrated step-by-step on screen
- Data storage for up to 5000 measurements with information about date, time, sample ID, operator ID and calibration
- Export data via USB connection to a PC or USB storage device
- pH calibration buffer recognition for USA, IUPAC, DIN or user-defined buffer sets
- Automatic temperature compensation (ATC) for pH measurements

### INCLUDES

- Meter Only includes: HQ1110 Portable pH/ORP meter, batteries, USB wall charger, USB adapter cable and operating manual. One-year warranty. Meter Kits also include: IntelliCAL pH probe, carrying case, 280 disposable wipes, 60 Singlet single-use pH buffer pouches (20 each pH 4.01, 7.00 and 10.01).

### CERTIFICATIONS

- IP67 (with battery compartment installed)
- Passes 810 Military Standard

### SPECIFICATIONS

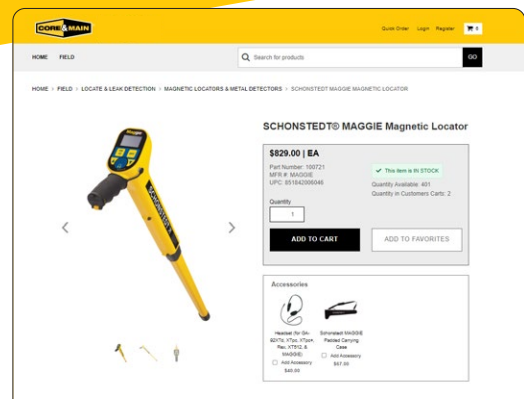
PH	
Range	0 to 14
Resolution	0.001/0.01/0.1
Accuracy	± 0.02
MV	
Range	± 1200
Resolution	0.1
Accuracy	± 0.02 or 0.05% (whichever is greater)
TEMPERATURE (°C)	
Resolution	0.1
Accuracy	± 0.3
Calibration Points	Up to 3
Battery Life (hours)	140
Battery Type	Rechargeable lithium ion battery

C&M PART #	MFR PART #	DESCRIPTION	SAMPLE TYPE
<b>HQ1110 PH/ORP/MV METER &amp; METER KITS</b>			
700036	LEV015.53.1110A	Meter Only	-
700037	LEV015.53.11101	Meter with pH Probe for Clean Samples (PHC20101)	Clean
700038	LEV015.53.11102	Meter with pH Probe for Clean & Dirty Samples (PHC10101)	Clean & Dirty
<b>INTELLICAL PROBES</b>			
700039	PHC20101	Lab Gel-Filled pH Probe with 1 m Cable and ATC	Clean
700040	PHC10101	Lab Gel-Filled pH Probe with 1 m Cable and ATC	Clean & Dirty
700041	MTC10101	Lab Gel-Filled ORP Probe with 1 m Cable and ATC	Clean & Dirty
700042	PHC10105	Rugged Gel-Filled pH Probe with 5 m Cable and ATC	Clean & Dirty
700043	MTC10105	Rugged Gel-Filled ORP Probe with 5 m Cable and ATC	Clean & Dirty

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## Hach pH Calibration Buffers

Hach pH Calibration Buffers are available in a variety of color-coded or colorless solutions with different packaging and size options. pH buffers are also available in convenient single-use pouches (Singlet™) and unit-dose powder pillows to ensure freshness and eliminate the possibility of contamination while performing on-site and field analysis.

### FEATURES

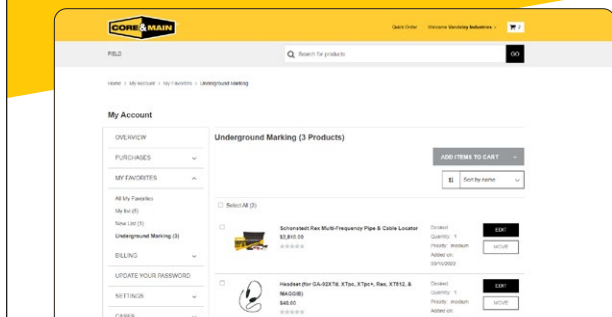
- Available in pre-mixed liquid, single-use pouches or unit-dose powder pillows
- All Hach pH buffers are NIST traceable for optimum pH electrode calibration with an accuracy of ±0.02 pH at 25°C



C&M PART #	MFR PART #	PH	QUANTITY/PACK	COLOR
<b>SINGLET SINGLE-USE POUCHES</b>				
700044	2770020	4.01	20	N/A
700045	2770120	7.00	20	N/A
700046	2770220	10.01	20	N/A
700047	2769920	4.01 & 7.00	10 Each	N/A
700048	2769820	7.00 & 10.01	10 Each	N/A
<b>POWDER PILLOWS</b>				
700049	2226995	4.01	15	Red
700050	2226966	4.01	50	Red
700051	2226964	4.01	250	Red
700052	2299264	4.01 & 7.00	15 Each	Red & Yellow
700053	1405566	6.00	50	Colorless
700054	1409895	6.86	15	Colorless
700055	2227095	7.00	15	Yellow
700056	2227066	7.00	50	Yellow
700057	2227064	7.00	250	Yellow
700058	1407995	8.00	15	Colorless
700059	1410766	9.00	50	Colorless
700060	2227195	10.01	15	Blue
700061	2227166	10.01	50	Blue
700062	2227164	10.01	250	Blue

C&M PART #	MFR PART #	PH	QUANTITY/PACK	COLOR
<b>BUFFER SOLUTIONS</b>				
700063	2283449	4.01	500 mL	Red
700064	2283456	4.01	4 L	Red
700065	2283461	4.01	20 L	Red
700066	1222349	4.01	500 mL	Colorless
700067	1222356	4.01	4 L	Colorless
700068	2283549	7.00	500 mL	Yellow
700069	2283556	7.00	4 L	Yellow
700070	2283561	7.00	20 L	Yellow
700071	1222249	7.00	500 mL	Colorless
700072	1222256	7.00	4 L	Colorless
700073	2283649	10.01	500 mL	Blue
700074	2283656	10.01	4 L	Blue
700075	2283661	10.01	20 L	Blue
700076	1222149	10.01	500 mL	Colorless
700077	1222156	10.01	4 L	Colorless
<b>BUFFER PACKS</b>				
700078	2947600	4.01, 7.00, & 10.01	500 mL Each	Yes
700079	2507200	4.01, 7.00, & 10.01	4 L Each	Yes
700080	2507300	4.01, 7.00, & 10.01	20 L Each	Yes

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## Hach HQ Digital Portable Meters



Hach HQ Digital Portable Meters are designed for water quality professionals who want to perform electrochemical analysis for field and lab environments. This new, portable platform is rated IP67 and will allow operators to collect accurate measurements, manage data and easily review results. Use the optional Protective Glove to provide additional protection in the field, and the Kickstand and Hand Strap to convert the unit into a benchtop unit.

### FEATURES

- Calibration and troubleshooting instructions are illustrated step-by-step on screen
- Single-, dual- and triple-input models available
- Data storage for up to 100,000 measurements with including date, time, sample ID, operator ID and calibration
- Export data via USB connection to a PC or USB storage device
- Compatible with IntelliCAL probes to measure a variety of parameters without recalibration
- Available as individual meters or as kits supplied with IntelliCAL probes

### CERTIFICATIONS

- IP67 (with battery compartment installed)
- Passes 810 Military Standard

C&M PART #	MFR PART #	DESCRIPTION
<b>SINGLE-PARAMETER METERS</b>		
700036	LEV015.53.1110A	HQ1110 pH/ORP/mV Meter
700081	LEV015.53.1130A	HQ1130 Dissolved Oxygen Meter
700082	LEV015.53.1140A	HQ1140 Conductivity Meter
<b>MULTIPARAMETER METERS</b>		
700083	LEV015.53.2100A	HQ2100 1-Input Multiparameter Meter
700084	LEV015.53.2200A	HQ2200 2-Input Multiparameter Meter
<b>ISE-CAPABLE MULTIPARAMETER METERS</b>		
700085	LEV015.53.4100A	HQ4100 1-Input Multiparameter Meter
700086	LEV015.53.4200A	HQ4200 2-Input Multiparameter Meter
700087	LEV015.53.4300A	HQ4300 3-Input Multiparameter Meter

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
703557	LEZ015.99.A004A	Protective Glove
703556	LEZ015.99.A003A	Kick Stand and Hand Strap

## Hach IntelliCAL Probes



Choose from a broad selection of Hach IntelliCAL Probes to meet the needs of the most demanding laboratory and field applications. All IntelliCAL probes are automatically recognized by HQ/HQd® meters and maintain calibration data on the probe itself, eliminating the need for recalibration when switching probes between meters.

### FEATURES

- Designed for water and industrial quality control testing
- Features smart sensors that store calibration data and history
- Complete portfolio available for laboratory and field use
- Monitors parameters such as pH, Dissolved Oxygen (DO), Conductivity, Total Dissolved Solids (TDS), Ammonia, Ammonium, Chloride, Fluoride, Nitrate, Sodium, Biochemical Oxygen Demand (BOD) and RedOx (ORP)

C&M PART #	MFR PART #	DESCRIPTION	SAMPLE TYPE
<b>INTELLICAL LAB PROBES</b>			
700040	PHC10101	Lab Gel-Filled pH Probe with 1 m Cable and ATC	Clean & Dirty
700041	MTC10101	Lab Gel-Filled ORP Probe with 1 m Cable and ATC	Clean & Dirty
700088	LDO10101	Lab LDO Dissolved Oxygen Probe with 1 m Cable and ATC	Clean & Dirty
700090	CDC40101	Lab Conductivity Probe with 1 m Cable and ATC	Clean & Dirty
<b>INTELLICAL RUGGED PROBES</b>			
700042	PHC10105	Rugged Gel-Filled pH Probe with 5 m Cable and ATC	Clean & Dirty
700043	MTC10105	Rugged Gel-Filled ORP Probe with 5 m Cable and ATC	Clean & Dirty
700089	LDO10105	Rugged LDO Dissolved Oxygen Probe with 5 m Cable and ATC	Clean & Dirty
700091	CDC40105	Rugged Conductivity Probe with 5 m Cable and ATC	Clean & Dirty

## Hach SL1000 Portable Parallel Analyzer (PPA)



The Hach SL1000 PPA® is a combined colorimeter and electrochemical multiparameter analyzer that allows up to six parameters to be tested simultaneously using Hach's patented Chemkey® technology and IntelliCAL probes. There are no reagents or glass vials to handle, and clean water testing can be performed up to 75% faster with less than half of the manual steps.

### FEATURES

- Perform up to four colorimetric and two probe-based measurements simultaneously
- All chemicals and processes are entirely contained inside the Chemkeys for colorimetric reactions
- Utilizes Hach IntelliCAL smart probes to retain calibration history and method settings for reduced set-up time
- Colorimetric tests include: monochloramine, free and total ammonia, free and total chlorine, nitrite, copper, high- and low-range orthophosphate, high- and low-range hardness, high- and low-range alkalinity, dissolved iron and peracetic acid
- Probe-based tests include: pH, conductivity, ORP, dissolved oxygen, nitrate and fluoride
- Available as individual analyzer or as part of kits supplied with IntelliCAL probes and Chemkey reagents

### INCLUDES

- Analyzer Only includes: SL1000 PPA, carrying case, one analyzer sample cup, two probe sample cups, rechargeable battery, battery charger, hand strap, USB cable and operating manual. One-year warranty.

### CERTIFICATIONS

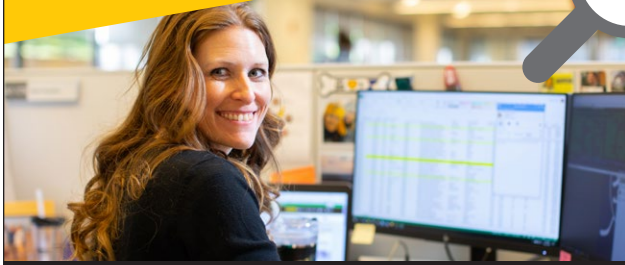
- IP64

### SPECIFICATIONS

Chemkey Slots	4
IntelliCAL Input Channels	2
Data Memory	1000 measured values
Battery Life	Up to 200 Chemkey tests
Battery Type	Rechargeable lithium ion battery

C&M PART #	MFR PART #	DESCRIPTION
<b>SL1000 PPA &amp; KITS</b>		
700092	9430000	SL1000 Analyzer Only
<b>INTELLICAL LAB PROBES</b>		
700040	PHC10101	Lab Gel-Filled pH Probe with 1 m Cable and ATC
700041	MTC10101	Lab Gel-Filled ORP Probe with 1 m Cable and ATC
700088	LDO10101	Lab LDO Dissolved Oxygen Probe with 1 m Cable and ATC
700090	CDC40101	Lab Conductivity Probe with 1 m Cable and ATC

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## Hach Chemkey Reagents

Hach Chemkey Reagents are a new technology designed for use with the SL1000 Portable Parallel Analyzer (PPA). Chemkey reagents execute the same process steps that you have trusted for decades—now delivered in a simple, self-contained package. With this updated technology, all chemicals and processes are contained inside the Chemkey. Use Chemkeys with the SL1000 PPA for drastically streamlined water quality testing.

### FEATURES

- Simply insert the Chemkey(s) and let the SL1000 PPA run the test
- No zeroing, no mixing, no shaking, no chemicals or vials to handle



C&M PART#	MFG PART#	DESCRIPTION	RANGE	USEPA COMPLIANT
700108	8636100	High-Range Total Alkalinity Chemkey Reagents - Box of 25	200 to 700 mg/L CaCO <sub>3</sub>	-
700109	8636200	Low-Range Total Alkalinity Chemkey Reagents - Box of 25	20 to 200 mg/L CaCO <sub>3</sub>	-
700110	9425200	Total Ammonia Chemkey Reagents - Box of 25	0.05 to 1.50 mg/L NH <sub>3</sub> -N	-
700111	9429600	Free Ammonia and Monochloramine Chemkey Reagents - Box of 25 Each	Free Ammonia: 0.05 to 0.50 mg/L NH <sub>3</sub> -N Monochloramine: 0.04 to 4.00 mg/L Cl <sub>2</sub>	-
700112	8791900	Free & Total Ammonia and Monochloramine Chemkey Reagents - Box of 25 Each	Free Ammonia: 0.05 to 0.50 mg/L NH <sub>3</sub> -N Total Ammonia: 0.05 to 1.50 mg/L NH <sub>3</sub> -N Monochloramine: 0.04 to 4.00 mg/L Cl <sub>2</sub>	-
700113	9429400	Monochloramine Chemkey Reagents - Box of 25	0.04 to 4.00 mg/L Cl <sub>2</sub>	-
700114	8499300	Free Chlorine Chemkey Reagents - Box of 300	0.04 to 4.00 mg/L Cl <sub>2</sub>	Yes
700115	9429000	Free Chlorine Chemkey Reagents - Box of 25	0.04 to 4.00 mg/L Cl <sub>2</sub>	Yes
700116	8499400	Total Chlorine Chemkey Reagents - Box of 300	0.04 to 10 mg/L Cl <sub>2</sub>	Yes
700117	9429100	Total Chlorine Chemkey Reagents - Box of 25	0.04 to 10 mg/L Cl <sub>2</sub>	Yes
700118	9427900	Chlorine Verification Chemkey	System Check	-
700119	9429200	Copper Chemkey Reagents - Box of 25	0.06 to 5.00 mg/L Cu	Yes
700120	8636000	Dissolved Iron Chemkey Reagents - Box of 25	0.05 to 3.00 mg/L Fe	-
700121	8636300	High-Range Hardness Chemkey Reagents - Box of 25	90 to 750 mg/L CaCO <sub>3</sub>	-
700122	8636400	Low-Range Hardness Chemkey Reagents - Box of 25	3 to 100 mg/L CaCO <sub>3</sub>	-
700123	9429300	Nitrite Chemkey Reagents - Box of 25	0.005 to 0.600 mg/L NO <sub>2</sub> -N	-
700124	8636500	High-Range Orthophosphate Chemkey Reagents - Box of 25	2.0 to 30.0 mg/L PO <sub>4</sub>	-
700125	8636600	Low-Range Orthophosphate Chemkey Reagents - Box of 25	0.20 to 4.00 mg/L PO <sub>4</sub>	-
700126	8635200	Peracetic Acid Chemkey Reagents - Box of 25	0.04 to 50.0 mg/L PAA	-
700127	9759000	pH Chemkey Reagents - Box of 25	pH 6.3 to 9.0	-

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**PVC Water Suction Hose**

These durable PVC Suction Hoses are designed for dewatering, construction and irrigation purposes.



**FEATURES**

- Flexible abrasion-resistant PVC with a rigid PVC reinforcement for full vacuum
- Smooth bore
- Temperature range: 15° to 140° F
- Note : NPSH(F) thread is compatible with NPT(M) thread. M Threaded & F Quick Connect commonly used with Suction Hose with M Threaded connection used to attach standard threaded strainers.

C&M PART #	COUPLINGS	SIZE (IN)	LENGTH (FT)	WORKING PRESSURE (PSI)
10239301V240	M&F Threaded, NPSH	1-1/2	20	70
10239301V250	M&F Threaded, NPSH	2	20	65
10239301V287	M&F Threaded, NPSH	3	20	55
10239301V2C1	M&F Threaded, NPSH	4	20	50
10239302V240	M Threaded NPT x F Quick Alum	1-1/2	20	70
10239302V250	M Threaded NPT x F Quick Alum	2	20	65
10239302V287	M Threaded NPT x F Quick Alum	3	20	55
10239302V2C1	M Threaded NPT x F Quick Alum	4	20	50
10239303V240	M & F, Quick Alum, (Cam & Groove)	1-1/2	20	70
10239303V250	M & F, Quick Alum, (Cam & Groove)	2	20	65
10239303V287	M & F, Quick Alum, (Cam & Groove)	3	20	55
10239303V2C1	M & F, Quick Alum, (Cam & Groove)	4	20	50

**All Weather Suction Hose**

This all-weather, low-temperature suction hose is lightweight and flexible.



**FEATURES**

- Abrasion-resistant cover
- Black 100% EPDM rubber tube reinforced with a green polyethylene plastic helix
- Temperature range: -40° to 140° F
- Note: NPSH(F) thread is compatible with NPT(M) thread. M Threaded & F Quick Connect commonly used with Suction Hose with M Threaded connection used to attach standard threaded strainers

C&M PART #	COUPLINGS	SIZE (IN)	LENGTH (IN)	WORKING PRESSURE (PSI)
10232401V240	M&F Threaded, NPSH	1-1/2	20	50
10232401V250	M&F Threaded, NPSH	2	20	50
10232401V287	M&F Threaded, NPSH	3	20	45
10232401V2C1	M&F Threaded, NPSH	4	20	40
10232402V240	M Threaded NPT x F Quick Alum	1-1/2	20	50
10232402V250	M Threaded NPT x F Quick Alum	2	20	50
10232402V287	M Threaded NPT x F Quick Alum	3	20	45
10232402V2C1	M Threaded NPT x F Quick Alum	4	20	40
10232403V240	M&F Quick Alum ( Cam & Groove)	1-1/2	20	50
10232403V250	M&F Quick Alum ( Cam & Groove)	2	20	50
10232403V287	M&F Quick Alum ( Cam & Groove)	3	20	45
10232403V2C1	M&F Quick Alum ( Cam & Groove)	4	20	40

**Rubber Wire-Reinforced Water Suction Hose**

This rubber-wire reinforced water suction hose provides general purpose water suctioning for dewatering, construction and industrial applications.



**FEATURES**

- Smooth EPDM blend rubber tube, fabric plies and steel wire spiral for full-suction service
- Black rubber cover
- Temperature range: -10° to 180° F
- Note: NPSH(F) thread is compatible with NPT(M) thread. M Threaded & F Quick Connect commonly used with Suction Hose with M Threaded connection used to attach standard threaded strainers

C&M PART #	COUPLINGS	SIZE (IN)	LENGTH (FT)	WORKING PRESSURE (PSI)
10238101V240	M&F Threaded, NPSH	1-1/2	20	75
10238101V250	M&F Threaded, NPSH	2	20	75
10238101V287	M&F Threaded, NPSH	3	20	60
10238101V2C1	M&F Threaded, NPSH	4	20	50
10238102V240	M Threaded NPT x F Quick Alum	1-1/2	20	75
10238102V250	M Threaded NPT x F Quick Alum	2	20	75
10238102V287	M Threaded NPT x F Quick Alum	3	20	60
10238102V2C1	M Threaded NPT x F Quick Alum	4	20	50
10238103V240	M&F Quick Alum ( Cam & Groove)	1-1/2	20	150
10238103V250	M&F Quick Alum ( Cam & Groove)	2	20	150
10238103V287	M&F Quick Alum ( Cam & Groove)	3	20	150
10238103V2C1	M&F Quick Alum ( Cam & Groove)	4	20	125

### PVC Water Suction Hose Kit

These PVC Water Suction Hose Kits ship completely packaged in a box with both a suction and a discharge hose, as well as a steel strainer. Choose from threaded fittings or kits with quick connect fittings for added convenience.



1023160150

#### INCLUDES

- 20' PVC suction hose assembly
- 50' PVC discharge hose assembly
- Spanner wrench (M&F kits only)
- Steel strainer (square hole)
- (2) Aluminum part 'A' adapters (quick coupling kits only)
- Note: Quick Coupling Suction Hose is 'C' x Nipple, Discharge Hose is 'C' x 'E'



1023200350

C&M PART #	SIZE (IN)	COUPLINGS
1023160140	1-1/2	M&F Thread
1023160150	2	M&F Thread
1023160187	3	M&F Thread
10231601C1	4	M&F Thread
1023200340	1-1/2	Quick Coupling
1023200350	2	Quick Coupling
1023200387	3	Quick Coupling
10232003C1	4	Quick Coupling

### Quick Coupling Adapters



102406

102410

Quick coupling adapters Get your projects on track faster. These aluminum male adapters come in Part 'A' NPT(F) and Part 'F' NPT(M) threads

C&M PART #	SIZE NPT (IN)	DESCRIPTION
102405	1-1/2	Part 'A' Male Adapter x NPT(F) Threads
102406	2	Part 'A' Male Adapter x NPT(F) Threads
102407	3	Part 'A' Male Adapter x NPT(F) Threads
102408	4	Part 'A' Male Adapter x NPT(F) Threads
102409	1-1/2	Part 'F' Male Adapter x NPT(M) Threads
102410	2	Part 'F' Male Adapter x NPT(M) Threads
102411	3	Part 'F' Male Adapter x NPT(M) Threads
102412	4	Part 'F' Male Adapter x NPT(M) Threads

### Blue PVC Water Discharge Hose

The Goodyear Discharge Hose is designed for open-end moderate water discharge service. It is a strong, lightweight and flexible lay flat hose.



#### FEATURES

- Rolls up flat for easy storage
- Mildew resistant
- Close woven polyester jacket impregnated with PVC
- Temperature range: -5° to 140° F
- Note : NPSH(F) thread is compatible with NPT(M) thread.

C&M PART #	COUPLINGS	SIZE (IN)	LENGTH (FT)	WORKING PRESSURE (PSI)
10234201BC40	M & F Threaded, NPSH	1-1/2	50	75
10234201BC50	M & F Threaded, NPSH	2	50	75
10234201BC87	M & F Threaded, NPSH	3	50	60
10234201BCC1	M & F Threaded, NPSH	4	50	50
10234202BC40	M & F, Quick Alum, (Cam & Groove)	1-1/2	50	80
10234202BC50	M & F, Quick Alum, (Cam & Groove)	2	50	80
10234202BC87	M & F, Quick Alum, (Cam & Groove)	3	50	80
10234202BCC1	M & F, Quick Alum, (Cam & Groove)	4	50	70

### Red/Orange Heavy Duty PVC Water Discharge Hose

These heavy-duty premium quality discharge hose are designed for higher pressure open-end applications.



#### FEATURES

- Rolls up flat for easy storage
- Mildew resistant
- PVC reinforced with three spiral plies of polyester
- Temperature range: -5° to 170° F
- Note : NPSH(F) thread is compatible with NPT(M) thread.

C&M PART #	COUPLINGS	SIZE (IN)	LENGTH (FT)	WORKING PRESSURE (PSI)
10237201BC40	M & F Threaded, NPSH	1-1/2	50	75
10237201BC50	M & F Threaded, NPSH	2	50	75
10237201BC87	M & F Threaded, NPSH	3	50	75
10237201BCC1	M & F Threaded, NPSH	4	50	75
10237202BC40	M & F, Quick Alum, (Cam & Groove)	1-1/2	50	150
10237202BC50	M & F, Quick Alum, (Cam & Groove)	2	50	150
10237202BC87	M & F, Quick Alum, (Cam & Groove)	3	50	150
10237202BCC1	M & F, Quick Alum, (Cam & Groove)	4	50	150

**Steel Suction Strainers**



10236450RO

10236850SO

Abbott strainers extend the life of your trash pump by preventing large debris and other solids from entering the pump.

**FEATURES**

- Choose from round or square-opening strainers
- Corrosion resistant

C&M PART #	STYLE	STEEL (GA.)	SIZE NPT(F) (IN)	OPENINGS (IN)
10236440RO	Round Opening	16	1-1/2	3/8
10236450RO	Round Opening	16	2	3/8
10236487RO	Round Opening	16	3	3/8
102364C1RO	Round Opening	16	4	3/8
10236840SO	Square Opening	14	1-1/2	1
10236850SO	Square Opening	14	2	1-1/8
10236887SO	Square Opening	14	3	1-1/2
102368C1SO	Square Opening	14	4	1-1/2

**Skimmers**



10235850TH

10235850BH

Abbott skimmers extend the life of your pump by preventing large solids and other debris from entering your pump. These skimmers are ideal for shallow water applications.

**FEATURES**

- Rugged all-steel construction with either top or bottom 3/8" hole openings depending on requirements
- The base diameters are at least four times that of the hose ID, giving the unit a large stable base

C&M PART #	STYLE	NPT(F) (IN)	DIAMETER (IN)	HEIGHT (IN)
10235840BH	Bottom Hole Skimmer	1-1/2	9-1/2	2-1/2
10235850BH	Bottom Hole Skimmer	2	9-1/2	2-1/2
10235887BH	Bottom Hole Skimmer	3	12	2-1/2
10235840TH	Top Hole Skimmer	1-1/2	9-1/2	2-1/2
10235850TH	Top Hole Skimmer	2	9-1/2	2-1/2
10235887TH	Top Hole Skimmer	3	12	2-1/2

**Foot Valve/Strainers**

These foot valve/strainers make pump priming easy because water is held in the suction line between pump duty cycles.



**FEATURES**

- Designed for water service only
- Iron construction

C&M PART #	NPT(F) (IN)
<b>FOOT VALVE/ STRAINERS</b>	
10235040	1-1/2
10235050	2
10235087	3
102350C1	4
<b>REPAIR KITS (FLAPPER VALVE ASSEMBLY)</b>	
10235440	1-1/2
10235450	2
10235487	3
102354C1	4

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## Hydro Hitch HFF Dechlorinating Diffuser



The Hydro Hitch HFF Dechlorinating Diffuser can neutralize up to 10 ppm chlorine on potable pressurized water systems. This diffuser attaches directly to a 2-1/2" NST fire hydrant nozzle or can be mounted onto the back of a utility vehicle handling flows from 200 to 1250 GPM at pressures up to 200 PSI. This diffuser features light-weight aluminum construction and weighs only 18 lbs. The diffuser holds up to nine sodium sulfite tablets or ascorbic acid/vitamin C tablets. Add an optional pitot tube assembly (sold separately) to convert this diffuser into a Dechlorination Diffuser/Flow Tester.

### FEATURES

- Made in USA
- Light-weight aluminum construction
- Holds up to nine (9) sodium sulfite or ascorbic acid dechlorination tablets
- Optional accessories include tablet extension tube, tablet screen, pitot assembly with gauge, truck mount bracket, and low-flow insert

### SPECIFICATIONS

Connection	2-1/2 in. NST
Flow (GPM)	200 to 1250
Material	Aluminum

C&M PART #	MFR PART#	DESCRIPTION
105305	CM-HFFD-25	Hydro Hitch HFF Dechlorinating Diffuser

### ACCESSORIES

C&M PART #	MFR PART#	DESCRIPTION
105308	CM-HFFD-25-PA	Pitot Assembly For HFF Dechlorinating Diffuser
105310	CM-HFFD-25-AAFSS	Fine Screen Strainer For HFF Dechlorinating Diffuser
105307	CM-HFFD-25-LFI	Low Flow Insert For HFF Dechlorinating Diffuser
105309	CM-HFFD-25-TMB	Truck Mount Bracket For HFF Dechlorinating Diffuser

## ZDe-Chlorinator NEMA-100 Tablet Dechlorinator



104971



104977



104978

The NEMA-100 sets up quickly for dechlorination of potable water off of a hydrant. The most versatile of the NEMA family of products, the attached elbow diverter can be removed and replaced with a NEMA-400 diffuser or a NEMA-500 Pitot. Almost any other diffuser with a 2 1/2 in FNST fitting can be attached as well. Lower flow rates can be accommodated by switching the perforated debris screen from the inlet side of the unit to the discharge side.

### FEATURES

- Designed for the dissolve rate of Vita-D-Chlor Tablets
- Holds up to four (4) Vita-D-Chlor tablets
- Additional tablet capacity is possible with the optional extension tube
- Handles flows of 200 GPM and higher
- Light-weight and economical due to aluminum construction

### SPECIFICATIONS

Connection	2-1/2 in. NST
Flow (GPM)	200 or higher
Material	Aluminum

C&M PART #	MFR PART#	DESCRIPTION
104971	V320-NEMA-100	ZDe-Chlorinator NEMA-100 Tablet Dechlorinator

### ACCESSORIES

C&M PART #	MFR PART#	DESCRIPTION
104977	V320-NEMA-400	ZDe-Chlorinator 2-1/2" NEMA-400 Diffuser Attachment
104978	V320-NEMA-500	ZDe-Chlorinator NEMA-500 Elbow Pitot
104975	V320-NEMA100-ET	ZDe-Chlorinator Tablet Extension Tube For NEMA-100

### Kupferle Eclipse #9700 Portable Automatic Flushing Station



The Kupferle Eclipse #9700 Portable Automatic Flushing Station is ideal for addressing seasonal warm-weather water quality issues on dead-end water mains where water becomes stagnant. The 9700 comes standard with a 2" automatic valve with a pressure rating of 220 PSI and flow rates up to 200 GPM. At only 25 pounds, the 9700 is easy to relocate around your system to address evolving water quality issues.

#### FEATURES

- Available in Yellow or Red
- Portable automatic flushing device - attaches to 2.5" NST Outlet
- 2" valve with flow rates up to 200 GPM
- For use during non-freezing seasons only
- Ideal for addressing immediate water quality issues

C&M PART #	MFR PART#	DESCRIPTION
105330	Eclipse #9700 (2") Yellow	Eclipse #9700 Portable Automatic Flushing Station, 2" Valve, Yellow
105331	Eclipse #9700 (2") Red	Kupferle Eclipse #9700 Portable Automatic Flushing Station, 2" Valve, Red

### Norweco® Bio-Max® Dechlorination Tablets

Bio-Max dechlorination tablets provide a source of concentrated sodium sulfite to instantly remove chlorine from wastewater, potable water and process water. Containing 92% sodium sulfite, Bio-Max tablets assist plant operators in meeting stringent chlorine discharge limitations. Formulated for use in all major gravity or pressure-rated tablet feeders.



#### FEATURES

- Eliminates free and combined chlorine
- No mixing of chemicals or solutions

#### SPECIFICATIONS

Tablet Dimensions (in)	2-5/8 x 1
Active Ingredient	Sodium Sulfite

C&M PART #	MFR PART #	DESCRIPTION
105260	48BioMax	Norweco Bio-Max Dechlorination Tablets, 48 lbs

### Vita-D-Chlor™ Dechlorination Tablets

Vita-D-Chlor Tablets provide Vitamin C dechlorination of potable water in a convenient tablet form. Vita-D-Chlor Tablets immediately and completely neutralize both chlorine and chloramines without impacting dissolved oxygen levels. They are best-suited for field dechlorination applications.



#### FEATURES

- Rapidly neutralizes both chlorine and chloramines.
- Tablet Dimensions (in): 2-5/8 x 1
- Active Ingredient: Ascorbic Acid (Vitamin C)

C&M PART #	MFR PART#	DESCRIPTION
10498424	V325.50.140T	Vita-D-Chlor Dechlorination Tablets, 35 lbs, 140 Tablets
10498425	V325.50.40T	Vita-D-Chlor Dechlorination Tablets, 10 lbs, 40 Tablets
10498426	V325.50.20T	Vita-D-Chlor Dechlorination Tablets, 5 lbs, 20 Tablets
10498427	V325.50.06T	Vita-D-Chlor Dechlorination Tablets, 6 Tablets

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## Hydro Hitch 2-1/2" Flow Testing Diffusers



The Hydro Hitch 2-1/2" Flow Testing & Flushing Diffuser is economical and made to get the job done. It is made in the United States. The glycerin-filled dual-read gauge with quick disconnect fittings make it easy to connect and read GPM flow. The pitot assembly gauge is available in 100 or 160 PSI ranges.

### FEATURES

- Light-weight aluminum construction
- Includes one (1) dual-read gauge for PSI/GPM
- Diffusers kits come with carrying cases

C&M PART #	MFR PART #	DESCRIPTION
105296	HFD25US100	2-1/2" Flow Testing & Flushing Diffuser, 100 PSI
105297	HFD25US160	2-1/2" Flow Testing & Flushing Diffuser, 160 PSI
105298	HFD25US100-Kit	2-1/2" Flow Testing & Flushing Diffuser Kit, 100 PSI
105299	HFD25US160-Kit	2-1/2" Flow Testing & Flushing Diffuser Kit, 160 PSI

## Hydro Hitch Chrome Cap Gauge Kits



The Hydro Hitch 2-1/2" Chrome Cap Gauge Kit comes with a glycerin-filled gauge, 1/4" three-way bleeder valve and rigid carrying case. The quick disconnects allow the assembly to be swiveled upwards for better viewing of static and residual water flows. Choose from 100, 160, or 200 PSI ranges.

C&M PART #	MFR PART #	DESCRIPTION
105300	CCGK-100-C	2-1/2" Chrome Cap Gauge Kit, 100 PSI
105301	CCGK-160-C	2-1/2" Chrome Cap Gauge Kit, 160 PSI
105302	CCGK-200-C	2-1/2" Chrome Cap Gauge Kit, 200 PSI

## Rust-Oleum V7400 System Hydrant Enamel Paint

Rust-Oleum High Performance V7400 System Rust Preventive DTM Alkyd Enamel Paint is the premium rust protection coating for industrial applications including structural steel, general plant maintenance, machinery and equipment. This high solids, oil-based formula has a 2-Year Rust Proof Guarantee.



### FEATURES

- Durable, rust-preventive coating for indoor and outdoor surfaces including metal, wood, concrete, masonry and more
- Provides outstanding coverage in one coat
- Oil-based formula offers excellent resistance to chipping, cracking and other abrasions
- Withstands general weathering, mild chemical spills, oil, grease and more
- Dries to the touch in 2-4 hours
- Covers up to 450 square feet per gallon
- Apply with brush, roller or spray
- Meets USDA requirements for incidental food contact

C&M PART #	MFR PART #	DESCRIPTION
105027F5	245474	Hydrant Enamel Paint, Safety Blue
105027F6	245477	Hydrant Enamel Paint, Safety Orange
105027F7	245484	Hydrant Enamel Paint, Silver Gray
105027F8	245403	Hydrant Enamel Paint, High Gloss Black
105027F9	245406	Hydrant Enamel Paint, High Gloss White
105027B8	245476	Hydrant Enamel Paint, Safety Green
105027C1	245478	Hydrant Enamel Paint, Safety Red
105027C2	245479	Hydrant Enamel Paint, Safety Yellow

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### 48" Steel Hydrant Flag



These 48" heavy-duty steel fire hydrant markers with port loop mounts are made in the USA. They are powder coated in red and have two highly-reflective labels on each side of the flag.

#### SPECIFICATIONS

Length (ft)	4
Material	Steel

C&M PART #	MFR PART#	DESCRIPTION
105311	SHF48	48" Steel Hydrant Flag

### Hydrafinder™ Fiberglass Hydrant Markers

The Hydrafinder Fire Hydrant Marker is a high-visibility marker that allows hydrants buried in snow or covered with seasonal vegetation overgrowth to be quickly located. The highly reflective striping on the 3/8 in. fiberglass shaft affords instant day and night visual location of hydrants and protects the marker from UV rays to eliminate fiberglass blooming.

#### FEATURES

- Available in several different mounting configurations
- Red and silver striping
- Corrosion-free and UV-resistant
- Ships fully assembled
- Requires no maintenance and can be left alone year-round
- Specialty lengths available upon request



104734A7F9 with optional Mini-Flag

#### SPECIFICATIONS

Length (ft)	5
Material	Fiberglass

C&M PART #	MFR PART#	MOUNTING CONFIGURATION
104734A7F9	Hydra-5-Red	Flat Bracket and Spring
104737A7F9	Hydra-5-L-Red	"L" Bracket and Spring
104740A7F9	Hydra-5-PM-2.5-Red	2-1/2" Port Mount Loop and Spring
104746A7F9	Hydra-5-PM-2.5-EXT-Red	Extended 2-1/2" Port Mount Loop and Spring
104754A7F9	Hydra-View-5-2.5-Red	2-1/2" Offset Loop

#### ACCESSORIES

C&M PART #	MFR PART#	DESCRIPTION
104758A702	Mini-Flag-5-Red	Mini-Flag, 4" x 5"
104758A703	Mini-Flag-7-Red	Mini-Flag, 7" x 5"

### Assured Flow Sales Hydra-Flector™ Reflective Hydrant Marker

Hydra-Flector™ is a tamper-resistant product, assembled with the combination of durable 5052 grade aluminum sheeting and 304 stainless steel. With the use of High Intensity Prismatic Reflective Technology, the Hydra-Flector™ provides superior reflectivity that is comparable to DOT traffic and/or safety signage.



10528019

#### FEATURES

- Blue, Green, Orange & Red colors available to identify hydrant flow characteristics
- Highly-reflective
- Tamper-proof
- DOT-grade reflectivity
- 2" x 6" rounded corner face conforms to the outer circumference of most hydrant bonnets

C&M PART #	MFR PART#	DESCRIPTION
105280A7	HFRHM-20	Reflective Hydrant Marker, Red, Pack of 20
10528068	HFRHM-20	Reflective Hydrant Marker, Green, Pack of 20
10528019	HFRHM-20	Reflective Hydrant Marker, Blue, Pack of 20
10528093	HFRHM-20	Reflective Hydrant Marker, Orange, Pack of 20

### "Not in Service" Markers



105285



105286



105287

Not In Service (NIS) markers are an economical method to identify hydrants that are not functioning properly.

#### FEATURES

- NIS Bags can be installed in a matter of seconds and firmly attached to any hydrant with the use of included zip ties
- NIS Tags are attached via the pumper port of a fire hydrant and are visible from the front and the sides
- NIS Tags are attached via the pumper port of a fire hydrant

C&M PART #	MFR PART#	DESCRIPTION
105285	NISBG-96	"NIS" Bags, Pack of 8
105286	NISTG-50	"NIS" Tags for 4-1/2" Outlet, Pack of 5
105287	NISRG-50	"NIS" Rings for 4-1/2" Outlet, Pack of 5

## Schonstedt® Rex Multi-Frequency Pipe & Cable Locator

The Schonstedt Rex Multi-Frequency Pipe & Cable Locator offers advanced features to suit almost any type of locating challenge, all while emphasizing portability, size and convenience.

### FEATURES

- Powerful system that is light, compact and portable
- Multi-frequency versatility to suit any circumstance
- Display provides indicators for battery life, gain, frequency, direction, signal strength and volume
- Entire system weighs less than seven pounds

### INCLUDES

- Receiver, transmitter, plastic holster, conductive clip assembly, soft carrying case, ground stake, AC/DC power adapter for charging transmitter and batteries. Three-year warranty.

### CERTIFICATIONS

- IP54

### SPECIFICATIONS

Frequencies	50/60 Hz (passive), 512 Hz, 33 kHz, 82 kHz
Battery Type	One 9V battery (receiver); One 12V NiMH rechargeable battery (transmitter)
Battery Life (hours)	12 (receiver); 8 (transmitter)
Weight (lbs)	2.8 (receiver); 3.5 (transmitter)
Operating Temperatures (°F)	-4 to 140
Transmitter Power (W)	0.5, 1, 2, or 5



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C&M PART #	MFR PART #	DESCRIPTION
100714	REX	Rex Multi-Frequency Pipe & Cable Locator

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100732	TM60000	2" Inductive Signal Clamp
100733	TM60001	5" Inductive Signal Clamp
100734	TM60002	7" Inductive Signal Clamp
100741	TM70002	Small Heavy-Duty Conductive Clip
100740	TM70001	Large Heavy-Duty Conductive Clip
100739	TM50911	Sonde - Small (512 Hz)
100738	TM50910	Sonde - Large (512 Hz)
100725	XT40000	Headphones

## Schonstedt® MPC Rex & GA-92XTd Combo Kit

The MPC Rex & GA-92XTd Combo Kit includes a Rex Multi-Frequency Pipe & Cable Locator, a GA-92XTd Magnetic Locator and accessories. The entire system easily fits into a provided shoulder bag.

### FEATURES

- Convenience and value in one package
- Rex Multi-Frequency Pipe & Cable Locator allows users to trace buried pipe and cable
- GA-92XTd helps users to locate ferromagnetic objects
- Both locators extend for greater sensitivity and retract for easy carrying

### INCLUDES

- Rex receiver, Rex transmitter, GA-92XTd, two plastic holsters, conductive clip assembly, soft carrying case, ground stake, small heavy-duty conductive clip, large heavy-duty conductive clip, AC/DC power adapter for charging transmitter and batteries. Three-year warranty.

### CERTIFICATIONS

- IP54



SCHONSTEDT®  
from RADIODETECTION

C&M PART #	MFR PART #	DESCRIPTION
100717	MPC-REX	MPC Rex & GA-92XTd Combo Kit

### SubSurface Instruments PL-VF3 Pipe & Cable Locator



The SubSurface Instruments PL-VF3 Pipe & Cable Locator will meet the demands of any locating task with a bevy of customizable frequencies and operational modes. This locator is designed for the locating professional, but it is simple enough to be used by anyone.

#### FEATURES

- Automatic impedance matching maximizes transmission range while minimizing power consumption
- Users can control the transmitter's output power and frequency directly from the hand-held receiver
- Backlit display indicates signal strength, directional guidance, gain, depth, battery life and operation mode

#### INCLUDES

- PL-VF receiver, PL-VF3 transmitter, direct connection cable, ground rod, protective carrying case, batteries and user manual. One-year warranty.

#### CERTIFICATIONS

- IP65

#### SPECIFICATIONS

Frequencies	50/60 Hz (passive), 200 Hz to 480 kHz
Battery Type	Six "C" batteries (receiver); Eight "C" batteries (transmitter)
Battery Life (hours)	30 to 82 (receiver); 8 to 15 (transmitter)
Weight (lbs)	4.2 (receiver); 2.2 (transmitter)
Operating Temperatures (°F)	-4 to 133
Transmitter Power (W)	0.25 to 3

C&M PART #	MFR PART #	DESCRIPTION
100025	PL-VF3 Complete	PL-VF3 Pipe & Cable Locator

#### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100034	PL-ISC 4" PL-VF Wireless	4" Wireless Inductive Clamp
100035	PL-ISC 6.5" PL-VF Wireless	6.5" Wireless Inductive Clamp
100036	PL-ISC PL-VF Corded Series	4" Corded Inductive Clamp
100037	PL-VF Clips	Conductive Direct Connect Leads
100038	PL Sonde-Mid 512 Hz-Regular	Sonde - Regular (512 Hz)

### SubSurface Instruments PL-TT Pipe & Cable Locator



The SubSurface Instruments PL-TT Pipe & Cable Locator offers sophisticated technology in an economical package. The locator can be operated for quick and simple locating using two locate modes: peak signal response or left-right guidance. This locator also has the capability to locate ferromagnetic objects.

#### FEATURES

- Pipe and cable locator with ferrous metal detection capability
- Receiver includes an LCD screen, providing relative and actual signal strength, as well as a speaker for variable audio pitch
- User interface is simple and easy to use
- Weather-proof carbon fiber housing

#### INCLUDES

- PL-TT receiver, PL-VF3 transmitter, direct connection cable, ground rod, protective carrying case, batteries and user manual. One-year warranty.

#### CERTIFICATIONS

- IP65

#### SPECIFICATIONS

Frequencies	50/60 Hz (passive), 512 Hz, 8 kHz, 33 kHz, 82 kHz
Battery Type	Six "AA" batteries (receiver); Eight "C" batteries (transmitter)
Battery Life (hours)	30 to 60 (receiver); 8 to 15 (transmitter)
Weight (lbs)	1.6 (receiver); 2.2 (transmitter)
Operating Temperatures (°F)	-4 to 133
Transmitter Power (W)	0.25 to 3

C&M PART #	MFR PART #	DESCRIPTION
100022	PL-TT Complete	PL-TT Pipe & Cable Locator

#### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100034	PL-ISC 4" PL-VF Wireless	4" Wireless Inductive Clamp
100035	PL-ISC 6.5" PL-VF Wireless	6.5" Wireless Inductive Clamp
100036	PL-ISC PL-VF Corded Series	4" Corded Inductive Clamp
100037	PL-VF Clips	Conductive Direct Connect Leads
100038	PL Sonde-Mid 512 Hz-Regular	Sonde - Regular (512 Hz)

## Fisher Research Labs TW-6 Split-Box Pipe & Cable Locator



The Fisher Research Labs TW-6 Split-Box Pipe & Cable Locator finds underground pipes, cables, manhole covers, vaults, valve boxes and other metallic objects.

### FEATURES

- Affordable, tough and simple to use
- Noise-cancelling circuitry eliminates power line interference
- Handle-mounted TW-6 can conduct blind searches of an area to locate an underground pipe or cable when the starting point is unknown (three-piece handle purchased separately)

### INCLUDES

- Receiver, transmitter, batteries, direct connect cable, grounding rod and operating manual. Two-year warranty.

### SPECIFICATIONS

Frequencies	82 kHz
Battery Type	Eight "AA" batteries (receiver); Eight "AA" batteries (transmitter)
Battery Life (hours)	30 to 40 (receiver); 30 to 40 (transmitter)
Weight (lbs)	3 (receiver); 2.5 (transmitter)
Operating Temperatures (°F)	-10 to 120
Transmitter Power (W)	0.7

C&M PART #	MFR PART #	DESCRIPTION
103556	TW6	TW-6 Pipe & Cable Locator

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
103557	CCLAMP-3	3" Coupling Clamp
103558	HANDLEKIT-TW6	Three-Piece Handle
103559	PROBE-TW6	Tracer Probe
103560	SONDE-TW6	Sonde - 82 kHz
103561	CASE-TW6	Hard Carrying Case
103555	9720950000	Stereo Headphones

## Fisher Research Labs M-66 & M-97 Metal Detectors



Fisher Research Labs M-66 and M-97 Metal Detectors are designed for finding buried valves, boxes and vaults. These metal detectors can also locate survey markers, water or gas meters as well as manhole covers and other concealed metals.

### FEATURES

- Locates all types of metal
- Adjustable shaft with double-locking stem
- Double-D search coil configuration
- M-66 utilizes a permanently-attached coil with manual sensitivity adjustments
- M-97 features interchangeable coils with an automatic retune button and sensitivity selector

### INCLUDES

- Metal detector, batteries, and operating manual. Two-year warranty.

### SPECIFICATIONS

Detection Range (ft)	Varies
Audio Detection Output	Yes
Visual Detection Output	Yes
Battery Type	Two 9V batteries
Battery Life (hours)	25 to 35
Length (in)	48 (M-66); 50 (M-97)
Weight (lbs)	4.25 (M-66); 3.3 to 3.9 (M-97)
Operating Temperatures (°F)	-4 to 158

C&M PART #	MFR PART #	DESCRIPTION
103550	M66	M-66 Metal Detector - 8" Coil
103551	M97-8	M-97 Metal Detector - 8" Coil
103552	M97-11	M-97 Metal Detector - 11" Coil

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
103553	1036910000	Soft Vinyl Case
103554	CASE-MSERIES	Hard Molded Plastic Case
103555	9720950000	Stereo Headphones

### Schonstedt® GA-52Cx Magnetic Locator



Shown with Hard Carrying Case



The Schonstedt GA-52Cx Magnetic Locator is rugged, easy to use and detects the magnetic field of iron and steel objects underground with unmatched sensitivity.

#### FEATURES

- Detects ferrous metal objects, including valve box covers, meter pit lids and manhole covers
- No response to aluminum, brass or copper
- Operation is simple with two control knobs for on-off/sensitivity and volume
- Five levels of sensitivity

#### INCLUDES

- GA-52Cx, batteries, manual and hard carrying case. Seven-year warranty.

#### SPECIFICATIONS

Detection Range (ft)	18
Audio Detection Output	Yes
Visual Detection Output	N/A
Battery Type	Two 9V batteries
Battery Life (hours)	40
Length (in)	42.5
Weight (lbs)	2.5
Operating Temperatures (°F)	-13 to 140

C&M PART #	MFR PART #	DESCRIPTION
100722	GA-52Cx	GA-52Cx Magnetic Locator

#### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100726	H30006	Stereo Headphones
100728	206038	Hard Carrying Case

### Schonstedt® SPOT Magnetic Locator



The Schonstedt SPOT Magnetic Locator follows in the footsteps of the iconic GA-52Cx with the same performance characteristics and sturdy “yellow stick” look.

#### FEATURES

- Sleek, ultra-lightweight package with engineering and accuracy equal to the iconic GA-52Cx
- Modern ergonomics and functionality
- Simple one-handed operation
- Anti-roll guard ensures that SPOT will not roll around in the back of a vehicle

#### INCLUDES

- SPOT, battery, manual and soft carrying case. Seven-year warranty.

#### CERTIFICATIONS

- IP54

#### SPECIFICATIONS

Detection Range (ft)	18
Audio Detection Output	Yes
Visual Detection Output	N/A
Battery Type	One 9V battery
Battery Life (hours)	24
Length (in)	42.3
Weight (lbs)	2
Operating Temperatures (°F)	-13 to 140

C&M PART #	MFR PART #	DESCRIPTION
100720	SPOT	SPOT Magnetic Locator

#### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100731	600044	Padded Carrying Case

## Schonstedt® GA-92XTd Magnetic Locator



The Schonstedt GA-92XTd Magnetic Locator is powerful and portable. This ergonomic pistol-grip locator extends to 26 inches for high accuracy and retracts to 15.5 inches for easy carrying and storage in its included belt holster.

### FEATURES

- Extends for great accuracy; retracts for easy carrying and storage
- Thumb-accessible controls allow for one-handed operation
- Audio and visual detection outputs aid in locating ferromagnetic objects underground
- Four selectable gain levels
- Quick-change battery compartment in grip

### INCLUDES

- GA-92XTd, battery, manual, carrying case and holster. Seven-year warranty.

### CERTIFICATIONS

- IP54

### SPECIFICATIONS

Detection Range (ft)	16
Audio Detection Output	Yes
Visual Detection Output	Yes
Battery Type	One 9V battery
Battery Life (hours)	24
Length (in)	26
Weight (lbs)	2.5
Operating Temperatures (°F)	-13 to 140

C&M PART #	MFR PART #	DESCRIPTION
100723	GA-92XTd	GA-92XTd Magnetic Locator

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100725	XT40000	Headphones
100730	XT50000	Hard Carrying Case
100742	PC10012	Holster

## Schonstedt® MAGGIE Magnetic Locator

The Schonstedt MAGGIE Magnetic Locator combines the best features of two flagship Schonstedt products: The sensitivity and precision of the GA-52Cx and the single-handed operation of the GA-92XTd.



### FEATURES

- High-sensitivity locator for ferromagnetic objects
- Ergonomic one-handed operation
- Fingertip control of volume and sensitivity
- Expanding bar graph indicates polarity (positive or negative) and relative signal strength
- Four selectable gain levels
- Easy-access battery removal

### INCLUDES

- MAGGIE, battery, manual and padded carrying case with strap. Seven-year warranty.

### CERTIFICATIONS

- IP54

### SPECIFICATIONS

Detection Range (ft)	18
Audio Detection Output	Yes
Visual Detection Output	Yes
Battery Type	One 9V battery
Battery Life (hours)	24
Length (in)	32.5
Weight (lbs)	2.6
Operating Temperatures (°F)	-13 to 140

C&M PART #	MFR PART #	DESCRIPTION
100721	MAGGIE	MAGGIE Magnetic Locator

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100725	XT40000	Headphones
100727	MA50000	Padded Carrying Case

### Schonstedt® GA-72Cd Magnetic Locator



Shown with Hard Carrying Case

**SCHONSTEDT®**  
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The Schonstedt GA-72Cd Magnetic Locator detects the magnetic field of iron and steel objects underground. This product's modular construction makes it one of the most rugged locators on the market.

#### FEATURES

- Detects ferrous metal objects
- Easy-to-use controls
- Audio and visual detection outputs aid in locating objects underground
- Four levels of sensitivity

#### INCLUDES

- GA-72Cd, batteries, manual and hard carrying case. Seven-year warranty.

#### SPECIFICATIONS

Detection Range (ft)	15
Audio Detection Output	Yes
Visual Detection Output	Yes
Battery Type	Two 9V batteries
Battery Life (hours)	60
Length (in)	34.5
Weight (lbs)	2.6
Operating Temperatures (°F)	-13 to 140

C&M PART #	MFR PART #	DESCRIPTION
100724	GA-72Cd	GA-72Cd Metered Magnetic Locator

#### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100726	H30006	Stereo Headphones
100729	302145	Hard Carrying Case

### SubSurface Instruments ML-3 Magnetic Locator



The SubSurface Instruments ML-3 Magnetic Locator is digitally tuned for exceptional accuracy locating ferromagnetic objects.

#### FEATURES

- Rugged, lightweight aluminum construction
- Ergonomic one-handed operation
- LCD display with bar graph indicating polarity and relative strength of signal
- Auto-zero feature allows users to cancel out ambient magnetic fields in the environment
- 100% waterproof up to 250'
- Available in 40" or 55" configurations to meet utility and surveyor personal preferences

#### INCLUDES

- ML-3, batteries, manual and soft case with carrying straps. Seven-year warranty.

#### CERTIFICATIONS

- IP68

#### SPECIFICATIONS

Detection Range (ft)	10
Audio Detection Output	Yes
Visual Detection Output	Yes
Battery Type	Three 9V batteries
Battery Life (hours)	40
Length (in)	40 (short); 55 (long)
Weight (lbs)	1.8 (short); 2.5 (long)
Operating Temperatures (°F)	-13 to 140

C&M PART #	MFR PART #	DESCRIPTION
100018	ML-3S Magnetic Locator	ML-3 Short Magnetic Locator
100019	ML-3L Magnetic Locator	ML-3 Long Magnetic Locator

#### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100020	Case ML-3S-BLK	ML-3S Hard Carrying Case (Black)
100021	Case ML-3L-BLK	ML-3L Hard Carrying Case (Black)



### 3M™ Dynatel™ EMS Marker Locator 1420-iD

The 3M Dynatel EMS Marker Locator 1420-iD estimates exact locations of underground markers. It detects all models of passive markers and can locate two different marker frequencies simultaneously.



#### FEATURES

- Detects industry-standard EMS marker frequencies
- 3M-iD marker read and write capability
- Marker depth estimation
- GPS communication capability for GIS mapping of EMS markers

#### INCLUDES

- 1420 Dynatel receiver, USB adapter cable and operating manual.

#### CERTIFICATIONS

- IP54

#### SPECIFICATIONS

Battery Type	Eight "AA" batteries (sold separately)
Battery Life (hours)	20
Operating Temperatures (°F)	-4 to 122
Weight (lbs)	4

C&M PART #	MFR PART #	DESCRIPTION
101054	7000006159	3M Dynatel EMS Marker Locator 1420-iD

### 3M™ Dynatel™ EMS Marker/Tape Locator 7420

The 3M Dynatel Marker/Tape Locator 7420 is a high-performance locator that quickly and efficiently locates 3M EMS products. This locator has the capability to read and write to 3M iD markers and offers an extended detection range for passive markers.



#### FEATURES

- Detects industry-standard EMS marker frequencies
- Locates 3M EMS tape and rope
- 3M-iD marker read and write capability
- Push-button depth estimation
- GPS communication capability for GIS mapping of EMS products

#### INCLUDES

- 7420 Dynatel receiver, USB adapter cable, operating manual and rechargeable battery.

#### CERTIFICATIONS

- IP54

#### SPECIFICATIONS

Battery Type	Rechargeable lithium ion battery pack
Battery Life (hours)	8
Operating Temperatures (°F)	-4 to 122
Weight (lbs)	5

C&M PART #	MFR PART #	DESCRIPTION
101055	7000031757	3M Dynatel EMS Marker/Tape Locator 7420

### 3M™ EMS Ball Markers



3M EMS Ball Markers provide an effective way of marking underground facility and utility lines at depths up to five feet.

#### FEATURES

- Unique self-leveling design to ensure the markers are always in an accurate position
- Passive antenna encased in chemical- and water-resistant polyethylene shell
- Frequency- and color-coded to help identify specific utilities
- Operates without an external power source
- Available in passive or RFID configurations
- RFID markers can be programmed to contain GPS coordinates, installation dates and other installation information

#### SPECIFICATIONS

Detection Range (ft)	5
Diameter (in)	4
Height (in)	N/A
Unit Weight (lbs)	0.7
Operating Temperatures (°F)	-4 to 122
Case Quantity (units)	30

C&M PART #	MFR PART #	APPLICATION	COLOR	TYPE
101072D41012	7100178019	Water	Blue	RFID
101072D31012	7100178020	Wastewater	Green	RFID
101072641012	7100177897	Reclaimed Water	Purple	RFID
101072D40912	7100178135	Water	Blue	Passive
101072D30912	7100178134	Wastewater	Green	Passive
101072640912	7100177979	Reclaimed Water	Purple	Passive

### 3M™ EMS Full-Range Markers



3M EMS Full-Range Markers are ideally suited for marking the location of utilities buried at depths up to eight feet.

#### FEATURES

- Must be positioned flat and horizontal to ensure accurate location and depth estimation
- Passive antenna encased in chemical- and water-resistant polyethylene shell
- Frequency- and color-coded to help identify specific utility
- Operates without an external power source
- Available in passive or RFID configurations
- RFID markers can be programmed to contain GPS coordinates, installation dates and other installation information

#### SPECIFICATIONS

Detection Range (ft)	8
Diameter (in)	15
Height (in)	0.65
Unit Weight (lbs)	1
Operating Temperatures (°F)	-4 to 122
Case Quantity (units)	25

C&M PART #	MFR PART #	APPLICATION	COLOR	TYPE
101100D41012	7100178473	Water	Blue	RFID
101100D31012	7100178458	Wastewater	Green	RFID
101100641012	7100178469	Reclaimed Water	Purple	RFID
101100D40912	7100177924	Water	Blue	Passive
101100D30912	7100178098	Wastewater	Green	Passive

### 3M™ EMS Marking Tape



3M EMS Marking Tape is virtually a maintenance-free solution for marking and locating the path of underground plastic pipes and conduits that helps eliminate the problems and costs associated with tracer wire and test stations. The 3M EMS Marking is embedded with passive markers that are activated using 3M Dynatel Series 7000 Locators.

#### FEATURES

- Can be installed near or above buried assets
- Frequency- and color-coded to help identify specific utilities
- Operates without any external power source
- Embedded passive markers work independently and provide an accurate location even if a section of tape is cut or removed
- Markers are spaced eight feet apart
- Optional "XT" tape contains aramid fiber core in addition to EMS markers for early warning during excavation

#### SPECIFICATIONS

Detection Range (ft)	4
Roll Length (ft)	500
Roll Width (in)	6
Operating Temperatures (°F)	-4 to 122

C&M PART #	MFR PART #	APPLICATION	COLOR	TYPE
104592D40712	7100254242	Water	Blue	7903
104592D30712	7100254633	Wastewater	Green	7904
104592A60712	7100254465	Reclaimed Water	Purple	7908
104592D40812	7100254480	Water	Blue	7903-XT
104592D30812	7100254505	Wastewater	Green	7904-XT
104592A60812	7100254390	Reclaimed Water	Purple	7908-XT

## HOW TO ORDER



**ONLINE**

supply.coreandmain.com



**TELEPHONE**

1-888-885-CORE



**EMAIL**

support.supply@coreandmain.com

**HOURS OF OPERATION:** M-F; 6 A.M. to 7 P.M. CST



## Krylon® Industrial Quik-Mark™ Inverted Marking Paint

Krylon Industrial Quik-Mark Inverted Marking Paint provides bright, fast-drying marking for great visibility over a range of applications, including utility locating, excavation, ground surveying and construction marking.

### FEATURES

- APWA and fluorescent colors are available in water- and solvent-based formulations
- Use for marking pavement, concrete, gravel, grass, bricks, asphalt or dirt
- Fast-drying formula penetrates and adheres to hot, cold or wet surfaces



### SPECIFICATIONS

Can Weight (oz)	20
Net Weight (oz)	17
Case Quantity (cans)	12

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
102580	K07095	Krylon 12" Spotter Hand-Held Wand

C&M PART #	MFR PART #	DESCRIPTION
<b>WATER-BASED INVERTED MARKING PAINT</b>		
1025370412	A03903004	APWA Blue
1025370812	A03904004	APWA Green
1025371012	A03905004	APWA Orange
1025370712	A03901004	APWA Brilliant White
1025370612	A03911004	APWA Brilliant Red
1025371412	A03801004	APWA Utility Yellow
1025370912	A03921004	APWA High Visibility Yellow
1025370312	A03923004	APWA Black
1025374612	A03620004	Fluorescent Caution Blue
1025376121	A03630004	Fluorescent Safety Green

C&M PART #	MFR PART #	DESCRIPTION
<b>WATER-BASED INVERTED MARKING PAINT (CONTINUED)</b>		
1025375712	A03612004	Fluorescent Pink
1025375612	A03700004	Fluorescent Orange
1025376212	A03610004	Fluorescent Safety Red
1025376012	A03650004	Fluorescent Red/Orange
1025375812	A03715004	Fluorescent Purple
<b>SOLVENT-BASED INVERTED MARKING PAINT</b>		
1025520412	A03621007	APWA Blue
1025520812	A03631007	APWA Green
1025520512	A03731007	APWA Bright Orange
1025521312	A03900007	APWA Utility White
1025521112	A03611007	APWA Red

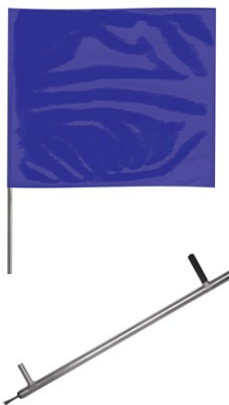
C&M PART #	MFR PART #	DESCRIPTION
<b>SOLVENT-BASED INVERTED MARKING PAINT (CONTINUED)</b>		
1025521212	A03823007	APWA Safety Yellow
1025520912	A03821007	APWA High Visibility Yellow
1025524512	A03722007	Fluorescent Blue
1025525512	A03614007	Fluorescent Neon Green
1025525412	A03622007	Fluorescent Hot Pink
1025525612	A03702007	Fluorescent Orange
1025526212	A03613007	Fluorescent Safety Red
1025526012	AT3701007	Fluorescent Red/Orange
1025525812	A03615007	Fluorescent Purple

## Presco Marking Flags

Presco Marking Flags are made from flexible PVC film. They are available in several different colors, flag sizes, staff lengths and staff material.

### FEATURES

- Made from long-lasting materials
- Flag is glued to staff for increased durability and wind-tear resistance
- APWA color coded
- Available with wire or plastic staffs for increased safety around machinery and children
- Custom printing options available
- Made in the USA



C&M PART #	MFR PART #	FLAG SIZE (IN)	STAFF LENGTH (IN)	COLOR
<b>WIRE STAFFS (100/PACK)</b>				
1029251919S2	2315B	2 x 3	15	Blue
1029256819S2	2315G	2 x 3	15	Green
1029259919S2	2315PP	2 x 3	15	Purple
1029251919V7	2321B	2 x 3	21	Blue
1029256819V7	2321G	2 x 3	21	Green

C&M PART #	MFR PART #	FLAG SIZE (IN)	STAFF LENGTH (IN)	COLOR
<b>WIRE STAFFS (100/PACK) (CONTINUED)</b>				
1029259919V7	2321PP	2 x 3	21	Purple
1029471919V7	4521B	4 x 5	21	Blue
1029476819V7	4521G	4 x 5	21	Green
1029479919V7	4521PP	4 x 5	21	Purple
1029471919Z1	4530B	4 x 5	30	Blue
1029476819Z1	4530G	4 x 5	30	Green
1029479919Z1	4530PP	4 x 5	30	Purple
<b>PLASTIC STAFFS (50/PACK)</b>				
1029911920U5	P4518B	4 x 5	18	Blue
1029916820U5	P4518G	4 x 5	18	Green
1029919920U5	P4518PP	4 x 5	18	Purple
1029911920X1	P4524B	4 x 5	24	Blue
1029916820X1	P4524G	4 x 5	24	Green
1029919920X1	P4524PP	4 x 5	24	Purple

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
103339	SFP36	36" Marking Flag Insertion Tool

## Rhino Marking Posts



The Rhino TriView® Marking Post is the industry's premium marker post, providing both excellent visibility and flexibility. This marker is best suited for creating awareness. The TriView will rebound to its upright position from any direction in any weather conditions.

The Rhino Hybrid 3-Rail™ Marking Post has engineered thermoplastic construction and a curved profile, making it easy to drive into the ground. Unlike standard fiberglass posts, the Hybrid 3-Rail Marking Post won't crack or splinter when impacted either from the side or directly with a tire.

This Rhino Fiberglass 3-Rail™ Marking Post uses the industry-standard profile with a polytech coating for increased UV-resistance. This design has the durability to withstand repeated impacts when hit from the front or back.

The Rhino FiberCurve Marking Post is a lightweight, fiber-reinforced composite marker. This design allows for easy stacking and storing.

### FEATURES

- Prevents damage to buried utilities
- Temperature and UV stable
- APWA color coded
- Decals can be purchased separately for blank marking posts
- Multiple colors available

### INCLUDES

- Ten-year warranty.

## SPECIFICATIONS

Length (in)	66		
C&M PART #	MFR PART #	DECAL	COLOR
<b>TRIVIEW POSTS</b>			
10331627BX	TVF66UB, GD-1332	Water Pipeline	Blue
10331619BX	TVF66UB	-	Blue
10331677BX	TVF66GB, GD-1316	Sewer Pipeline	Green
10331668BX	TVF66GB	-	Green
103316A5BX	TVF66PB, GD-1314	Reclaimed Water Pipeline	Purple
10331699BX	TVF66PB	-	Purple
<b>HYBRID 3-RAIL POSTS</b>			
10330827BX	RH3-66B, GD-1332	Water Pipeline	Blue
10330819BX	RH3-66B	-	Blue
10330877BX	RH3-66G, GD-1316	Sewer Pipeline	Green
10330868BX	RH3-66G	-	Green
103308A5BX	RH3-66P, GD-1314	Reclaimed Water Pipeline	Purple
10330899BX	RH3-66P	-	Purple
<b>FIBERGLASS 3-RAIL POSTS</b>			
10329327BX	FR66C-UX, GD-1332	Water Pipeline	Blue
10329319BX	FR66C-UX	-	Blue
10329377BX	FR66C-GX, GD-1316	Sewer Pipeline	Green
10329368BX	FR66C-GX	-	Green
103293A5BX	FR66C-PX, GD-1314	Reclaimed Water Pipeline	Purple
10329399BX	FR66C-PX	-	Purple
<b>FIBERCURVE POSTS</b>			
10328527BX	FC66C-UX, GD-1332	Water Pipeline	Blue
10328519BX	FC66C-UX	-	Blue
10328577BX	FC66C-GX, GD-1316	Sewer Pipeline	Green
10328568BX	FC66C-GX	-	Green
103285A5BX	FC66C-PX, GD-1314	Reclaimed Water Pipeline	Purple
10328599BX	FC66C-PX	-	Purple

## ACCESSORIES

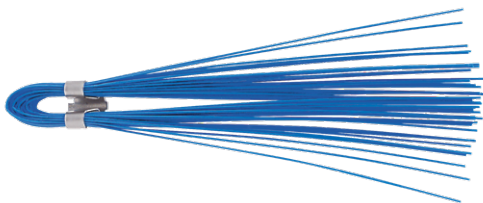
C&M PART #	MFR PART #	DESCRIPTION
103326	RHD-44-A	Universal Driver for Flat Marker Posts

## Presco Marking Whiskers

Presco Marking Whiskers are an alternative marking choice for survey and construction sites, underground utility locating and many other uses.

### FEATURES

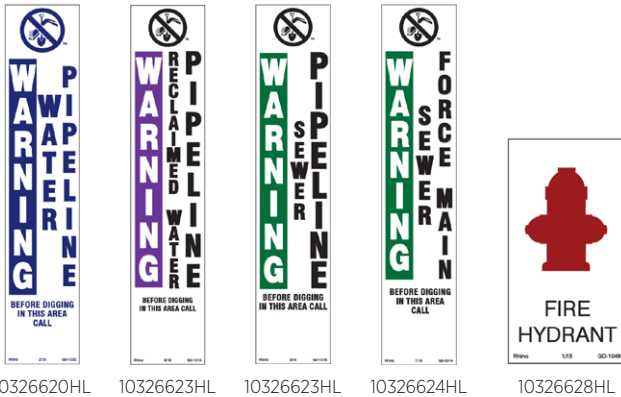
- Virtually indestructible
- APWA color coded
- Conveniently attached to wood stakes or 60-penny nails (not included).



## SPECIFICATIONS

Length (in)	6	
Pack Quantity	25	
C&M PART #	MFR PART #	COLOR
1029131921	W6*B	Blue
1029136821	W6*G	Green
102913D521	W6*W	White
102913A721	W6*R	Red
1029139421	W6*OG	Orange Glow
102913D721	W6*Y	Yellow

## Rhino Marking Post Decals



Rhino Marking Post Decals are designed for use on Rhino Marking Posts and Rhino TriView® Test Stations.

### FEATURES

- High-tack adhesive
- All-weather vinyl decals are fade resistant
- Designed specifically for outdoor environments
- Custom decals available

### INCLUDES

- Ten-year warranty.

C&M PART #	MFR PART #	STATEMENT	DIMENSIONS (IN)
<b>STANDARD LEGEND DECALS FOR TRIVIEW POSTS, HYBRID 3-RAIL POSTS, FIBERGLASS 3-RAIL POSTS, AND FIBERCURVE POSTS</b>			
10326620HL	GD-1332	Water Pipeline	2-7/8 x 14
10326621HL	GD-5194	Water Valve	2-7/8 x 14
10326622HL	GD-1314	Reclaimed Water Pipeline	2-7/8 x 14
10326623HL	GD-1316	Sewer Pipeline	2-7/8 x 14
10326624HL	GD-5314	Sewer Force Main	2-7/8 x 14
10326625HL	GD-5325	Sewer Manhole	2-7/8 x 14
10326626HL	GD-5247	Irrigation Pipeline	2-7/8 x 14
10326627HL	GD-1330	High-Voltage Cable	2-7/8 x 14
10326628HL	GD-1049	Fire-Hydrant (with symbol)	2-7/8 x 14
10326613HL	GD8-1332	Water Pipeline with 811 Logo	2-7/8 x 14
10326614HL	GD8-5194	Water Valve with 811 Logo	2-7/8 x 14
10326615HL	GD8-1314	Reclaimed Water Pipeline with 811 Logo	2-7/8 x 14
10326616HL	GD8-1316	Sewer Pipeline with 811 Logo	2-7/8 x 14
10326617HL	GD8-5314	Sewer Force Main with 811 Logo	2-7/8 x 14
10326618HL	GD8-5325	Sewer Manhole with 811 Logo	2-7/8 x 14
10326619HL	GD8-1330	High-Voltage Cable with 811 Logo	2-7/8 x 14
10326629HN	PAT-811	Dial 811	3 x 3

## Rhino TriView® Test Station™

The Rhino TriView Test Station's highly-visible triangular design ensures that excavators, mower operators and others will be able to see the warning message from any direction. This test station protects utilities as well as provides easy access to terminals for technicians or contract locators.



### FEATURES

- Comes standard with either two internal or external stainless-steel terminals for locating
- Durable and flexible
- Removable cap for easy access
- Temperature and UV stable
- Conforms to APWA colors
- Multiple colors and custom decals available

### INCLUDES

- Ten-year warranty.

### SPECIFICATIONS

Length (in)	66
-------------	----

C&M PART #	MFR PART #	DECAL	COLOR	TERMINALS
1033292703BX	TVTI66UB2	Water Pipeline	Blue	Internal
1033297703BX	TVTI66GB2	Sewer Pipeline	Green	Internal
103329A503BX	TVTI66PB2	Reclaimed Water Pipeline	Purple	Internal
1033292704BX	TVTO66UB2	Water Pipeline	Blue	External
1033297704BX	TVTO66GB2	Sewer Pipeline	Green	External
103329A504BX	TVTO66PB2	Reclaimed Water Pipeline	Purple	External

**Pro-Trace® High-Flex Copper Clad Steel (HF-CCS) Tracer Wire**



103246



103341

Pro-Trace HF-CCS Tracer Wire is used to conductively locate buried utility lines. This Tracer Wire uses high-density, high molecular weight polyethylene insulation (HDPE) for superior strength against underground elements.

**FEATURES**

- Increased value and break load compared to copper tracer wire
- Designed to embody the flexibility, memory and feel of copper
- Equal to copper in signal tracing performance
- Use in open-trench applications
- HDPE insulation provides electrical consistency and durability
- Meets or exceeds all applicable ASTM specifications and requirements of the National Electrical Code

**SPECIFICATIONS**

Roll Length (ft)	500
Break Load (lbs)	177 (14 AWG); 282 (12 AWG); 448 (10 AWG)

C&M PART #	MFR PART #	DESCRIPTION	COLOR	HDPE (MIL)
10314119AUF	744430232	10 AWG HF-CCS Tracer Wire	Blue	45
10314168AUF	744430532	10 AWG HF-CCS Tracer Wire	Green	45
10314199AUF	744430832	10 AWG HF-CCS Tracer Wire	Purple	45
10314119ZIF	744130232	10 AWG HF-CCS Tracer Wire	Blue	30
10314168ZIF	744130532	10 AWG HF-CCS Tracer Wire	Green	30
10314199ZIF	744130832	10 AWG HF-CCS Tracer Wire	Purple	30
10312319AUF	744420232	12 AWG HF-CCS Tracer Wire	Blue	45
10312368AUF	744420532	12 AWG HF-CCS Tracer Wire	Green	45
10312399AUF	744420832	12 AWG HF-CCS Tracer Wire	Purple	45
10312319ZIF	744120232	12 AWG HF-CCS Tracer Wire	Blue	30
10312368ZIF	744120532	12 AWG HF-CCS Tracer Wire	Green	30
10312399ZIF	744120832	12 AWG HF-CCS Tracer Wire	Purple	30
10316119AUF	744410232	14 AWG HF-CCS Tracer Wire	Blue	45
10316168AUF	744410532	14 AWG HF-CCS Tracer Wire	Green	45
10316199AUF	744410832	14 AWG HF-CCS Tracer Wire	Purple	45
10316119ZIF	744110232	14 AWG HF-CCS Tracer Wire	Blue	30
10316168ZIF	744110532	14 AWG HF-CCS Tracer Wire	Green	30
10316199ZIF	744110832	14 AWG HF-CCS Tracer Wire	Purple	30

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
103246	739010250	Pro-Trace TW Connector
103341	TL-LUG-SS	Tracer-Lock Connector

**TracerPit® All-Duty Iso-Switch Tracer Wire Access Point**

The TracerPit All-Duty Iso-Switch Tracer Wire Access Point is a ground-level, direct connection test station with five terminals.

**FEATURES**

- Five terminals allow a transmitter to connect to the intended terminal for locating
- Associated tracer wire terminals are grounded in the “Down” switch position
- All terminals become ungrounded and isolated from one another in the “Up” switch position
- Ductile iron collar suitable for all-duty use (except for asphalt installation)
- Detectable by magnetic locators and metal detectors
- APWA color-coded lid for identification



10325219

**SPECIFICATIONS**

Length (in)	12
-------------	----

C&M PART #	MFR PART #	LID COLOR
10325219	TPITAD-ISO5T-02W	Blue
10325268	TPITAD-ISO5T-05S	Green

## Presco Detectable and Non-Detectable Underground Warning Tape



Presco Underground Warning Tape is placed over utility lines to protect underground infrastructure from accidental dig-ins.

### FEATURES

- Detectable Underground Warning Tape makes buried lines, especially non-metallic lines, easy-to-find with a pipe and cable locator
- Non-Detectable Underground Warning Tape provides a highly-visible warning to anyone excavating in the area, but it does not conduct an electromagnetic signal
- Black text on APWA colors
- Resistant to underground elements

### SPECIFICATIONS

Roll Length (ft)	1000
------------------	------

C&M PART #	MFR PART #	DESCRIPTION	WIDTH (IN)	COLOR
<b>DETECTABLE TAPE</b>				
1030532350	SD2105B52	Caution Buried Water Line Below	2	Blue
1030537350	SD2105G4	Caution Buried Sewer Line Below	2	Green
103053A350	SD2105PP115	Caution Buried Reclaimed Water Line Below	2	Purple
1030532387	SD3105B52	Caution Buried Water Line Below	3	Blue
1030537387	SD3105G4	Caution Buried Sewer Line Below	3	Green
103053A387	SD3105PP115	Caution Buried Reclaimed Water Line Below	3	Purple
1030532312	SD6105B52	Caution Buried Water Line Below	6	Blue
1030537312	SD6105G4	Caution Buried Sewer Line Below	6	Green
103053A312	SD6105PP115	Caution Buried Reclaimed Water Line Below	6	Purple
<b>NON-DETECTABLE TAPE</b>				
1030902387	B3104B52	Caution Buried Water Line Below	3	Blue
1030907387	B3104G4	Caution Buried Sewer Line Below	3	Green
103090A387	B3104PP115	Caution Buried Reclaimed Water Line Below	3	Purple
1030902312	B6104B52	Caution Buried Water Line Below	6	Blue
1030907312	B6104G4	Caution Buried Sewer Line Below	6	Green
103090A312	B6104PP115	Caution Buried Reclaimed Water Line Below	6	Purple

## SubSurface Instruments LD-12 Water Leak Detector



The SubSurface Instruments LD-12 Water Leak Detector is a standard for the water utility industry. The LD-12 is easy-to-use, featuring six filters that screen outside noise and zero in on water leaks.

### FEATURES

- Meter display with backlight indicates sound intensity to allow users to pinpoint leak location
- Six selectable filters split into three “low” filters and three “high” filters
- High-sensitivity ground microphone and low electronic noise amplifier
- “Limiter” switch cuts off all loud noises greater than 110 decibels to protect hearing if sensor is dropped
- “Filter-Thru” switch optionally turns-off filters and allows user to hear sounds from 50 to 15,000 hertz

### INCLUDES

- Amplifier with meter display and filter controls, ground microphone with handle and 40” cable, stereo headphones, ABS plastic carrying case, magnet base, three-section contact rod, nut driver, batteries and instruction manual. Five-year warranty.

### SPECIFICATIONS

Bandwidth (Hz)	50 to 15,000
Filters (Hz)	100, 200, 400, 600, 800, 1200
Audio Output	Headphones
Visual Output	Analog Meter
Battery Type	Six “AA” batteries
Battery Life (hours)	14 to 28
Weight (lbs)	1.9

C&M PART #	MFR PART #	DESCRIPTION
100003	LD-12	LD-12 Water Leak Detector

## Fisher Research Labs XLT-17 Water Leak Detector

The Fisher Research Labs XLT-17 is a water leak detector that finds leaks in four easy steps. It first electronically amplifies leak sounds. Then the detector selectively filters out noise, isolating the leak sound and leading the operator to the source of the leak.



### FEATURES

- Detects and pinpoints liquid leaks in pipes
- Compact control box can be worn around the neck or over the shoulder
- “Last setting” memory feature
- “All Pass” option allows all sounds from 60 to 6,000 hertz
- Sensor is shielded for reduced response to outside noise
- Filter types include: Low Pass, High Pass, and Band Pass

### INCLUDES

- Control unit, multi-sensor with handle and cable, sound rods, stereo headphones, carrying strap/housing bracket, hard carrying case, operation manual and batteries. Two-year warranty.

### SPECIFICATIONS

Bandwidth (Hz)	60 to 6,000
Filters (Hz)	150 to 2,400 (adjustable)
Audio Output	Headphones
Visual Output	LCD Display
Battery Type	Two 9V
Battery Life (hours)	50
Weight (lbs)	1.2

C&M PART #	MFR PART #	DESCRIPTION
103595	XLT17	XLT-17 Water Leak Detector

## Superior® Smoke Candles



Superior Smoke Candles help you find difficult leaks at greater distances when sewer testing thanks to the high visibility and excellent persistence characteristics of the smoke. These candles are disposable, simple to use and no external power or heat source is required.

### FEATURES

- Use with any conventional air or smoke blower
- Contains no explosive chemicals
- Leaves no visible residue
- Connect double-wicked candles together for longer burn times
- Optional SealPac containers protect smoke candles from hot and humid climates
- Made in the United States of America

### INCLUDES

- One-year warranty.

C&M PART #	MFR PART #	DESCRIPTION	SMOKE OUTPUT (FT <sup>3</sup> )
10090708	1A	30-second 1A Smoke Candle (12-pack)	4000
10090709	1AF	30-second 1A Smoke Candle Small SealPac (5-pack)	4000
10090710	1AT	30-second 1A Smoke Candle Large SealPac (12-pack)	4000
10091008	2B	60-second 2B Smoke Candle (12-pack)	8000
10091009	2BF	60-second 2B Smoke Candle Small SealPac (5-pack)	8000
10091010	2BT	60-second 2B Smoke Candle Large SealPac (12-pack)	8000
10091308	3C	3-minute 3C Smoke Candle (12-pack)	40,000
10091309	3CF	3-minute 3C Smoke Candle SealPac (5-pack)	40,000
10091508	W3C	3-minute Double-Wick W3C Smoke Candle (12-pack)	40,000
10091509	W3CF	3-minute Double-Wick W3C Smoke Candle SealPac (5-pack)	40,000

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100932	DH Standard	Smoke Testing Notification Door Hanger (100-pack)



## Superior® Smoke Fluid

Superior Smoke Fluid is a proprietary blend that is specially formulated for optimum performance in sewer smoke testing. This smoke testing fluid must be used with a liquid smoke blower designed to use petroleum-based smoke fluid.



### FEATURES

- Works with Superior Fluid Smoke Blowers and similar competitive units
- Safe, inexpensive and easy to use
- Produces less odor than smoke from candles.

C&M PART #	MFR PART #	DESCRIPTION
10091705	SL1	SL Smoke Fluid - 1 Gallon
10091710	SL5	SL Smoke Fluid - 5 Gallon

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100932	DH Standard	Smoke Testing Notification Door Hanger (100-pack)

## Bright Dyes® Tracing Dyes



Bright Dyes Tracer Dye Tablets are clean, easy to use and dissolve in five to eight minutes. These Tracer Dye Liquid Concentrates have a very rapid rate of dispersion and work best with applications involving moderate to large volumes of water (more than 20,000 gallons).

### FEATURES

- Safe, non toxic and biodegradable

### CERTIFICATIONS

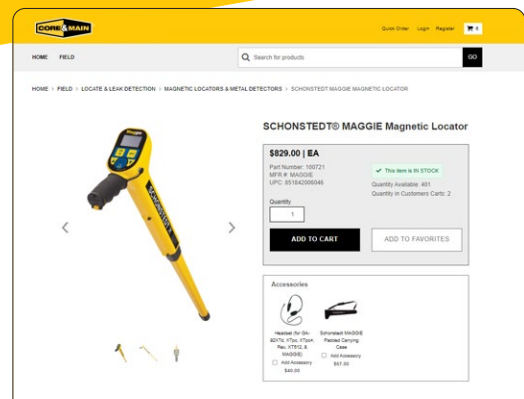
- NSF/ANSI Standard 60

C&M PART #	MFR PART #	DESCRIPTION	SIZE
<b>DRY TABLETS</b>			
10226848	101101	Fluorescent FLT Yellow/Green	200 Tablets
10226849	101103	Fluorescent FWT Red	200 Tablets
102268C6	101102	Standard Blue	200 Tablets
<b>LIQUID CONCENTRATE</b>			
1022734813	106001-01P	Fluorescent FLT Yellow/Green	Pint
1022734814	106001-01G	Fluorescent FLT Yellow/Green	Gallon
1022735213	106053-01P	Fluorescent FWT Red 50	Pint
1022735214	106053-01G	Fluorescent FWT Red 50	Gallon
102273C613	106002-01P	Standard Blue	Pint
102273C614	106002-01G	Standard Blue	Gallon

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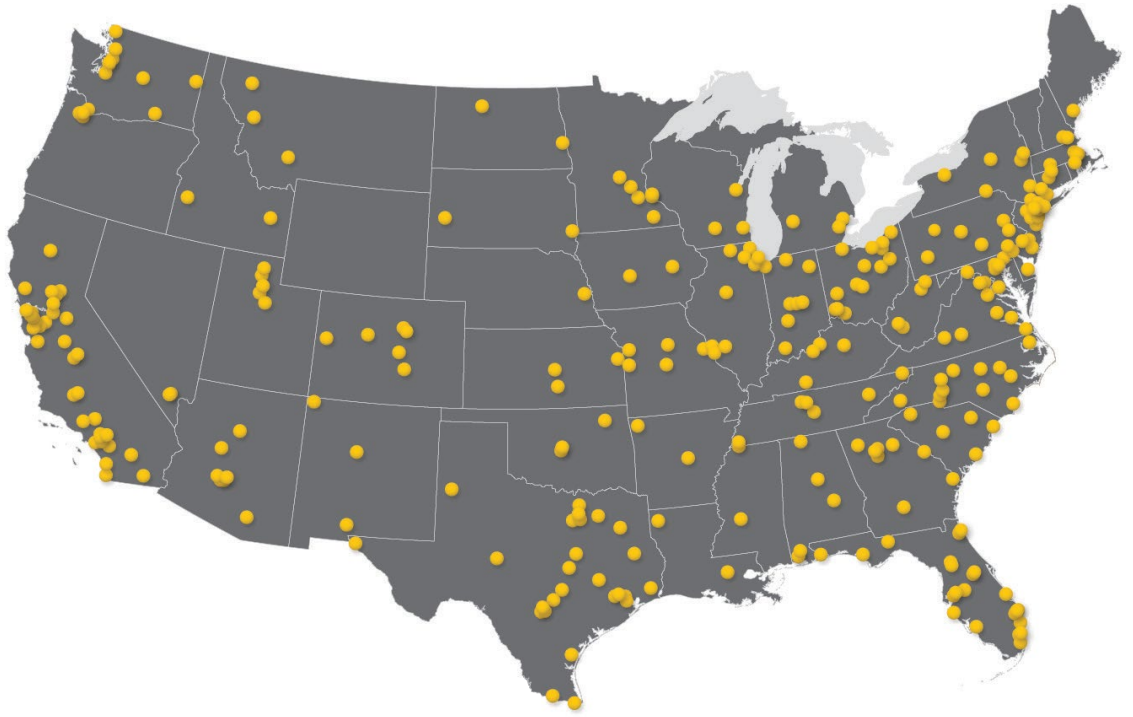
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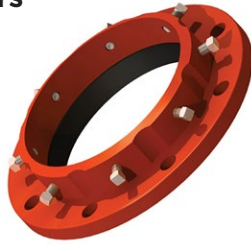
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### Redi-Flange™ Flange Adapters

The Redi-Flange joins valves, fittings and equipment with integral flanged ends to plain end pipe, without the need of pipe end preparation. No threading, welding or grooving is necessary.



Slide flange over plain end pipe and follow it with a standard mechanical joint gasket.

**FEATURES**

- Ductile Iron -ASTM A536 Grade 65-45-12
- ANSI B16.5 Class 150
- ANSI B16.1 Class 125

**CERTIFICATIONS**

- UL Listed 3"-10" sizes

**SPECIFICATIONS**

Note: Not to be used on plain end fittings or PVC and HDPE pipes.

C&M PART #	MFR PART #	NOMINAL PIPE SIZE (IN)	PIPE MATERIAL	WEIGHT (LBS)
102219	WRFC-203-D	3	Ductile Iron	5
102220	WRFC-204-D	4	Ductile Iron	8
102221	WRFC-206-D	6	Ductile Iron	10
102222	WRFC-208-D	8	Ductile Iron	17
102223	WRFC-210-D	10	Ductile Iron	22
102224	WRFC-212-D	12	Ductile Iron	31
102232	WRFS-201-S	2	Steel	3.5
102233	WRFS-202-S	2-1/2	Steel	4
102234	WRFS-203-S	3	Steel	5
102235	WRFS-204-S	4	Steel	8
102236	WRFS-205-S	5	Steel	9
102237	WRFS-206-S	6	Steel	10
102238	WRFS-208-S	8	Steel	17
102239	WRFS-210-S	10	Steel	22
102240	WRFS-212-S	12	Steel	31

### Red Rubber Flange Packs



The Red Rubber Flange Pack includes a full face, 1/8" red rubber gasket with stainless steel or zinc plated bolts sized for standard 125/150 lb. flanges.

**FEATURES**

- Heavy hex head bolts and nuts
- Full face type gasket
- Imported

C&M PART #	NOMINAL PIPE SIZE (IN)	# BOLTS
<b>ZINC PLATED</b>		
1021910150	2	4
1021910170	2-1/2	4
1021910187	3	4
10219101C1	4	8
10219101I2	6	8
10219101L1	8	8
10219101N8	10	12
10219101Q3	12	12
<b>STAINLESS STEEL (304SS)</b>		
1021990350	2	4
1021990370	2-1/2	4
1021990387	3	4
10219903C1	4	8
10219903I2	6	8
10219903L1	8	8
10219903N8	10	12
10219903Q3	12	12

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## T Bolts & Nuts



T-bolts and nuts come are made with low alloy steel or corrosion resistant BLU flouropolymer coating.

### SPECIFICATIONS

T-bolts dimensions are manufactured in accordance with AWWA C111 / ANSI 21.11

NOTE: The bolt lengths listed are for AWWA C153 compact ductile iron fittings and glands.

Longer bolts are required when using AWWA C110 cast or ductile iron fittings and valves as well as some joint restraints

C&M PART #	MATERIAL	SIZE (IN.)	PIPE SIZES (IN.)	WT(LBS)
103574	Low alloy steel	5/8 x 3	3	0.55
103575	Low alloy steel	3/4 x 3 1/2	4, 6	0.75
103576	Low alloy steel	3/4 x 4	8, 10, 12	1
103577	Low alloy steel, BLU (Flouropolymer Coated)	5/8 x 3	3	0.55
103578	Low alloy steel, BLU (Flouropolymer Coated)	3/4 x 3 1/2	4, 6	0.75
103579	Low alloy steel, BLU (Flouropolymer Coated)	3/4 x 4	8, 10, 12	1

## MJ Hammer

MJ-HAMMER, a novel hammer for waterworks professionals, specifically designed as the single solution for all mechanical joint water pipes and water pipe fittings from 3" to 72"; the new standard for Water Fittings, Gate Valves, Dresser Couplings and Fire Hydrants. The tool allows for faster, easier installation and accuracy of fit.



### FEATURES

- Strike surface matches the radial thickness of the gasket
- Opposing head alignment allows you to remain in a single spot and access the full radius of the pipe to set the gasket
- Optimal weight distribution to reduce the total number of strikes needed to install the gasket; save installation time.
- Improves mechanical joint assembly, reduces project time, improves precision/fit and decreases occurrence of leaks
- Designed by a veteran Waterworks professional, made in the United States

C&M PART #	DESCRIPTION
105034	Mechanical Joint Hammer, Yellow

## EBAA Iron® Mechanical Joint Accessory Package



EBAA Iron® MJ Accessory Package includes a EBAA-Seal® gasket, low alloy steel T-bolts and nuts (3" size provided with standard MJ gasket).

Note: MJ Accessory Package does NOT include MJ Gland.

### FEATURES

- Domestic, made in United States

### CERTIFICATIONS

- Gasket and Bolts meet the requirements of ANSI/AWWA C111/ A21.11

C&M PART #	MFR PART #	NOMINAL PIPE SIZE (IN)	BOLTS & NUTS MATERIAL
1038686687	9003SC	3	Low alloy steel
10386866C1	9004EC	4	Low alloy steel
10386866I2	9006EC	6	Low alloy steel
10386866L1	9008EC	8	Low alloy steel
10386866N8	9010EC	10	Low alloy steel
10386866Q3	9012EC	12	Low alloy steel
1045724687	9003SCY	3	Fluoro coated
10457246C1	9004ECY	4	Fluoro coated
10457246I2	9006ECY	6	Fluoro coated
10457246L1	9008ECY	8	Fluoro coated
10457246N8	9010ECY	10	Fluoro coated
10457246Q3	9012ECY	12	Fluoro coated
1045720387	9003SCDSS4	3	304SS
10457203C1	9004ECDSS4	4	304SS
10457203I2	9006ECDSS4	6	304SS
10457203L1	9008ECDSS4	8	304SS
10457203N8	9010ECDSS4	10	304SS
10457203Q3	9012ECDSS4	12	304SS

### Cherne® Gripper Plugs

The Cherne® Gripper Plug has an extra-large wing nut combined with a rubber O-ring, which makes it the easiest mechanical plug to use. There are two styles of gripper plugs available: end-of-pipe and inside-of-pipe. An end-of-pipe gripper plugs seals only at the end of the pipe, while inside-of-pipe seals as far into the pipe as needed.

**FEATURES**

- Natural rubber O-ring for effective expansion and memory
- Extra-large zinc wing nut for ease of tightening with no wrench required
- ABS glass-reinforced plates for added strength
- Zinc-plated carriage bolt resists rust and corrosion
- Gripper plugs are economical, dependable and easy to use
- Can be used as temporary or permanent pipe plugs
- Designed to work in a variety of pipe types

**SPECIFICATIONS**

Maximum Back Pressure (psi)	17
Plug Type	Blocking



C&M PART #	MFR PART #	PLUG TYPE	NOMINAL SIZE (IN)	USAGE RANGE (IN)
<b>INSIDE-OF-PIPE PLUGS</b>				
100954C101	270296	Inside-of-pipe	4	3.80-4.09
100954I201	270253	Inside-of-pipe	6	5.77-6.08
100954L101	270288	Inside-of-pipe	8	7.70-8.03
<b>END-OF-PIPE PLUGS</b>				
100954C102	270245	End-of-pipe	4	3.80-4.06
100954I202	270261	End-of-pipe	6	5.77-6.08

### Cherne® I-Series Test-Ball Plugs

The Cherne® I-Series Test-Ball Plugs are the most effective in the industry, providing durability and flexibility at the same time. These plugs have full-body cording for added durability. Protective sleeves are available for 12" to 18" diameters and larger plugs.



**FEATURES**

- Industry-leading quality, consistency and durability
- Mechanical bonding of natural rubber and end plates eliminates failures from chemical bonding
- Improved performance and safety through optimized design
- Advanced performance and aesthetics
- Superior back pressure
- Lightweight, short and flexible
- Bendable up to 90 degrees

**SPECIFICATIONS**

Plug Type	Bypass
-----------	--------

C&M PART #	MFR PART #	NOMINAL SIZE (IN)	USAGE RANGE (IN)
100964IQ	310088	4 to 8	3.95 to 8.25
100964IS	310128	6 to 12	5.50 to 12.25
100964IF	210128	8 to 12	7.50 to 12.25
100964IU	310168	8 to 16	7.50 to 16.25
100964IY	210188	12 to 18	10.75 to 18.25
100964IZ	310248	12 to 24	11.00 to 24.25

### Cherne® I-Series Muni-Ball Plugs

The Cherne® I-Series Muni-Ball Plugs are the most effective in the industry, providing durability and flexibility at the same time. These plugs have full-body cording for added durability. Protective sleeves are available for 12" to 18" diameters and larger plugs.



**FEATURES**

- Superior expansion range
- Full body cording for added durability
- Small deflated diameters
- Aluminum end plates minimize rust
- Flexible bypass hoses
- Bendable up to 90 degrees

**SPECIFICATIONS**

Plug Type	Bypass
-----------	--------

C&M PART #	MFR PART #	NOMINAL SIZE (IN)	USAGE RANGE (IN)	BYPASS DIAMETER (IN)
100969IS30	311128	6 to 12	5.50 to 12.25	1
100969IF50	212128	8 to 12	7.00 to 12.25	2
100969IU50	312168	8 to 16	7.50 to 16.25	2
100969IY87	214188	12 to 18	10.75 to 18.25	3
100969IZ87	312248	12 to 24	11.00 to 24.25	3
100969JA50	312328	15 to 32	15.00 to 32.00	2
100969JAC1	314328	15 to 32	15.00 to 32.00	4
100969JCC1	314488	24 to 48	20.00 to 50.00	4

## Cherne® Original Test-Ball Plugs



The Cherne® Original Test-Ball Plugs are the most economical pneumatic plugs for blocking flow to do maintenance in sanitary and storm sewer systems. These plugs can also be used as a back plug for sewer air tests. Made from natural rubber, these plugs are tough, tear resistant and will work on any type of pipe, including out-of-round pipe.

### FEATURES

- Quick disconnect fittings allow for easy replacement
- Seals both round and out-of-round pipe
- Features an eye-bolt for use with a poly-lift line
- Use to block flow or as a back plug for sewer air testing
- Available in single and multiple sizes

### SPECIFICATIONS

Plug Type	Blocking			
C&M PART #	MFR PART #	SIZE TYPE	NOMINAL SIZE (IN)	USAGE RANGE (IN)
<b>SINGLE SIZE</b>				
103818L1	041386	Single	8	7.00 to 8.25
103818N8	041394	Single	10	9.00 to 10.25
103818Q3	041408	Single	12	10.50 to 12.25
<b>MULTI-SIZE</b>				
103819IP	275048	Multi	4 to 6	3.75 to 6.25
103819IR	275058	Multi	6 to 8	5.25 to 8.25
103819IF	275088	Multi	8 to 12	7.00 to 12.25

## Cherne® Original Muni-Ball Plugs



The Cherne® Original Muni-Ball Plugs offer a full bypass, allowing both testing and monitoring of piping systems. Muni-Ball plugs are durable, rugged and are effective on almost any type of pipe. Multi-size Muni-Ball plugs allow for more options and less inventory.

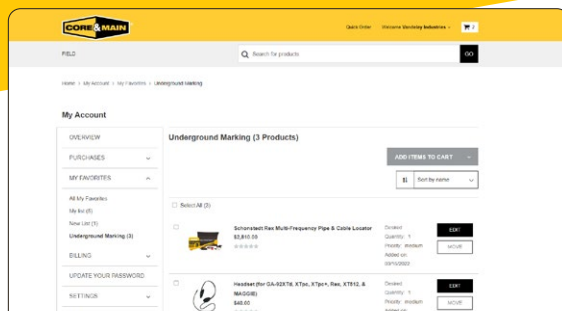
### FEATURES

- Ideal for installation and repair of residential or commercial piping systems
- Works in all types of pipes
- Easily converts to an air test plug with use of a conversion kit
- Durable natural rubber construction seals the roughest of surfaces
- Threaded aluminum bypass

### SPECIFICATIONS

Plug Type	Bypass				
C&M PART #	MFR PART #	SIZE TYPE	NOMINAL SIZE (IN)	USAGE RANGE (IN)	BYPASS DIAMETER (IN)
<b>SINGLE SIZE</b>					
10094840	262008	Single	1.5	1.49 to 1.88	0.25
10094850	262010	Single	2	1.88 to 2.25	0.13
10094887	262258	Single	3	2.62 to 3.25	0.5
100948I2	262064	Single	6	4.50 to 6.25	1.5
<b>MULTI SIZE</b>					
100948IP	265048	Multi	4 to 6	3.75 to 6.25	1.5
100948IR	265068	Multi	6 to 8	5.50 to 8.35	2

# SAVE TIME

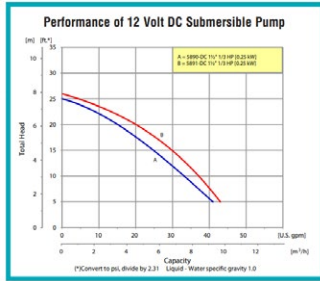


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**AMT 12VDC Submersible Pump**



This AMT 12VDC Submersible Pump is designed for use in dewatering applications where limited or no electricity is present and for emergency back-up during power failures. Use this submersible pump for pumping out meter pits, manholes and valve boxes.

**FEATURES**

- Pump is designed to handle liquids with solids content or dissolved solids and debris
- Operates approximately 60 minutes on fully-charged 55 Amp-Hour battery, or longer with larger battery
- Built-in carry handle for portability
- Aluminum construction with cast aluminum impeller
- On/off switch and thermal overload protection
- Steel strainer built into pump
- Clog-resistant impeller

**SPECIFICATIONS**

Pump Type	Submersible Dewatering
Impeller	Cast aluminum
Seal	Buna-N mechanical, carbon/ceramic
Cord Length (ft)	30 ft, Insulated PVC with Battery Clips

Note: Order hose and adapter separately

C&M PART #	MFR PART #	DISCHARGE NPT(F) (IN)	HP	VOLTAGE (DC)	FULL LOAD AMPS	WEIGHT (LBS)
100713	5891-DC	1-1/2	1/3	12	26	40

**ACCESSORIES**

C&M PART #	DESCRIPTION
10234202BC40	1 1/2" Blue PVC Discharge Hose, 50' Length, M & F, Quick Alum, (Cam & Groove)
102409	1 1/2", Part 'F' Male Adapter x NPT(M) Threads

**Pump Stick® Cordless Water Transfer Pump**



The Reed Pump Stick Cordless Water Transfer Pump is versatile and portable. This jobsite-friendly tool is a must-have for contractors and maintenance departments.

**FEATURES**

- Ideal solution to pump out sumps, valve boxes and meter pits
- Compatible with different 18V-20V battery brands by changing the battery adapter plate
- Purchase model with included battery or use your own battery with specific brand battery adapter plate
- Water resistant, sealed on/off switch
- Ships with 2' discharge hose. Order optional 4' or 7' discharge hose
- Long, slim design allows for pump placement into small meter pits
- Secure magnetic hose connection

**SPECIFICATIONS**

Flow Rate (gpm)	15
Pump Head (ft)	12
Run Time (approx)	4Ah, 60 min
Pump Length (in)	48.5
Weight (lbs)	6
Material	Durable, hard shell aluminum body shaft

Note: Battery Adapter Plates Fit current slide style batteries  
 We recommend also ordering these accessories:  
 Item# 103571 Stainless Steel Marine Strainer.  
 Item# 103567 7 ft L Discharge Hose along with Item# 103568 Hose Coupling w/connection to increase length of discharge hose

C&M PART #	MFR PART #	DESCRIPTION
103503	08140	Pump Stick with 2' Discharge Hose, 18V Bosch® Battery, Charger and Hard Shell Case
103502	08141	Pump Stick with 2' Discharge Hose, w/Battery Adapter Plate for Bosch 18V Battery, (Battery NOT Included)

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
103569	98193	Optional Hard Carrying Standard Case
103566	98144	Optional 4' Discharge Hose
103567	98145	Optional 7' Discharge Hose
103568	98147	Hose Coupling w/magnetic connection
103545	98140	Optional Adapter Plate for DeWalt 20V Batteries
103562	98141	Optional Adapter Plate for Milwaukee 18V Batteries
103563	98149	Optional Adapter Plate for Mikita 18V Batteries
103571	98188	Marine Strainer, Stainless Steel
103572	98189	Strainer with Domed Center





## AMT Submersible Contractor Pumps

AMT Submersible Contractor Dewatering Pumps are lightweight, portable, reliable and energy efficient. These clog resistant pumps are ideal for dewatering, construction drainage, flooding and other applications requiring clear/drainage water removal.

### FEATURES

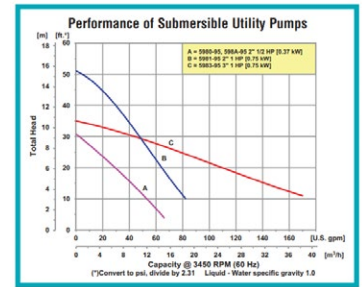
- Pumps are designed to handle liquids with solids content or dissolved solids and debris
- Clog resistant impeller
- Continuous duty with automatic thermal overload protection
- Built-in carry handle for portability
- Cast iron with stainless steel motor housing
- Built-in strainer screens and the option for automatic or manual control

### CERTIFICATIONS

- UL/CSA

### SPECIFICATIONS

Pump Type	Submersible Dewatering
Solids Handling	2" pump, 5/32", 3" pumps: 7/32"
Impeller	Cast iron, semi open
Seal	1/2HP models, single mechanical, carbon/ceramic; 1 HP models: double mechanical, carbon/ceramic
Motor	115 VAC 1-phase, automatic thermal protection
Max Liquid Temp (f)	104
Cord Length (ft)	20', with grounded plug
Note: Order hose and adapter separately	



C&M PART #	MFR PART #	DISCHARGE NPT(F) (IN)	HP	AMPS	WEIGHT (LBS)
<b>MANUAL PUMPS</b>					
100710	5980-95	2	1/2	7.5	26
100711	5981-95	2	1	13	46
100712	5983-95	3	1	13	53
<b>AUTOMATIC PUMPS</b>					
100709	598A-95	2	1/2	7.5	24

### ACCESSORIES

C&M PART #	DESCRIPTION
10234202BC50	2" Blue PVC Discharge Hose, 50' Length, Quick Connect Fittings (MxF)
102410	2", Part 'F' Male Adapter x NPT(M) Threads
10234202BC87	3" Blue PVC Discharge Hose, 50' Length, Quick Connect Fittings (MxF)
102411	3", Part 'F' Male Adapter x NPT(M) Threads

## Liberty Pumps® 260-2 Utility Pump

The Liberty Utility Pump is lightweight and portable and is perfect for miscellaneous water removal. The pump can be completely submerged under clear water and pump down to as low as 1/8".

### FEATURES

- Thermoplastic body resists impact, stress and corrosion
- Self-cleaning trash-type impeller
- Thermal overload protection
- Air cooled PSC motor
- Removable bottom screen for easy cleaning
- Garden hose adapter included
- Pumps down to 1/8"

### SPECIFICATIONS

Automatic/Manual	Manual
Voltage	120 VAC
Amps	2
Horsepower	1/6
Weight (LBS)	10
Discharge Head (Max) (FT)	30
Flow Rate (Max) (GPM)	17
Connection	3/4 IN GHT Male
Cord Length (FT)	25



C&M PART #	MFR PART #	DESCRIPTION
105864	260-2	Liberty Pumps, Utility Pump

## Koshin Submersible Pump



The Koshin Submersible Pump is ideal for pumping out meter vaults and general dewatering application.

### FEATURES

- Pump is lightweight with built-in carry handle for portability
- Thermal-protected motor
- Solid cast iron impeller provides maximum wear resistance
- Oil-bathed double silicon carbide mechanical seals allows for periods of dry run
- Clean out is fast and easy by means of three butterfly bolts

### SPECIFICATIONS

Pump Type	Submersible
Solids Handling	Up to 5/8"
Impeller	Cast Iron
Seal	Double silicon carbide mechanical
Motor	115VAC, 1-phase, automatic thermal protection
Max Liquid Temp (f)	104
Cord Length (ft)	20
Min. Operating Water Level (in)	5.5
Maximum Output (gpm)	80
Maximum Discharge Head (ft)	33

NOTE: Order hose and adapter separately

C&M PART #	MFR PART #	DISCHARGE NPT(M) (IN)	HP	VOLTAGE	AMPS	WEIGHT (LBS)
100939	PKS-65011	2	1/2	115VAC	7	36

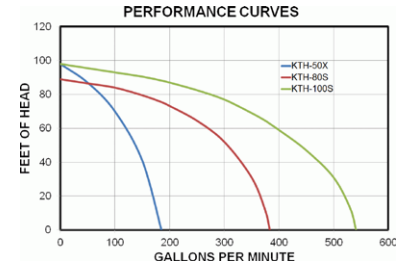
### ACCESSORIES

C&M PART #	DESCRIPTION
10234202BC50	2", Blue PVC Discharge Hose, 50', M & F, Quick Alum, (Cam & Groove) Couplings
102406	2" Aluminum, Part 'A' Male Adapter x NPT(F) Threads

## Koshin KTH Trash Pumps



10093650



Koshin KTH Series Trash Pumps are great for tough debris conditions, construction and general water removal, pumping out ditches and excavations.

Its removable front covers provide easy and quick access for cleaning out debris without disassembly of hoses.

### FEATURES

- Designed to handle large solids and trash
- Powered by Honda GX series commercial engines
- Standard with low oil shutdown to protect engine
- Mounted in a steel roll cage for protection and ease of handling
- Easy opening covers to clean out debris
- Hi-Chrome cast iron impellers provide extreme durability
- Includes wrench that opens the removable front cover bolts

### SPECIFICATIONS

Engine:	Honda GX series
Impeller:	Cast iron open
Pump Body:	Aluminum
Shaft Seal:	Silicone carbide

C&M PART #	MFR PART #	SUCTION/ DISCHARGE NPT(M) (IN)	ENGINE	HP	SOLIDS (IN)	WEIGHT (LBS)	FULL LOAD RUN TIME (HRS)
10093650	KTH50X	2	Honda GX160	5 1/2	1	110	2
10093687	KTH80S	3	Honda GX270	8	1-1/2	160	2
100936C1	KTH100S	4	Honda GX390	11	2	200	1.5

### ACCESSORIES

C&M PART #	SIZE (IN)	COUPLINGS
<b>HOSE KITS</b>		
1023160150	2	M&F Thread
1023160187	3	M&F Thread
10231601C1	4	M&F Thread
1023200350	2	Quick Coupling
1023200387	3	Quick Coupling
10232003C1	4	Quick Coupling

Note: Quick Coupling Suction Hose is 'C' x Nipple, Discharge Hose is 'C' x 'E'  
Includes 20' PVC Suction Hose Assembly, 50' Blue PVC Discharge Hose Assembly, Spanner Wrench (M&F Kits only), Steel strainer (Square hole), (2) Aluminum Part 'A' Adapters (Quick Coupling Kits only)

## Koshin STH Semi-Trash Pumps

Koshin's STH Series Semi-Trash Pumps are designed with high quality for durability under tough site conditions.

Use these pumps for dewatering and pumping out manholes and meter vaults.

### FEATURES

- Powered by Honda GX series commercial engines
- Standard with low oil shutdown to protect engine
- Mounted in a steel roll cage for protection and ease of handling

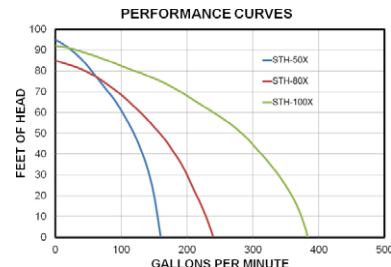
### SPECIFICATIONS

Engine:	Honda GX series
Impeller:	Cast iron open
Pump Body:	Aluminum
Shaft Seal:	Silicone carbide

C&M PART #	MFR PART #	SUCTION/ DISCHARGE NPT(M) (IN)	HP	SOLIDS (IN)	WEIGHT (LBS)	FULL LOAD RUN TIME (HRS)
10093350	STH-50X	2	3.5	3/8	56	2.5
10093387	STH-80X	3	4.8	3/8	76	2.5
100933C1	STH-100X	4	7.9	3/8	132	2.5



10093350



### ACCESSORIES

C&M PART #	SIZE (IN)	COUPLINGS
<b>HOSE KITS</b>		
1023160150	2	M&F Thread
1023160187	3	M&F Thread
10231601C1	4	M&F Thread
1023200350	2	Quick Coupling
1023200387	3	Quick Coupling
10232003C1	4	Quick Coupling

Note: Quick Coupling Suction Hose is 'C' x Nipple, Discharge Hose is 'C' x 'E'  
Includes 20 ft PVC Suction Hose Assembly, 50 ft Blue PVC Discharge Hose Assembly,  
Spanner Wrench (M&F Kits only), Steel strainer (Square hole), (2) Aluminum Part 'A'  
Adapters (Quick Coupling Kits only)

## AMT Engine Driven Trash Pumps

AMT Engine Driven Trash Pumps feature reliable Honda engines and are designed for applications which require high flow efficiency, solids handling capability and abrasion resistance.

These pumps are designed to handle liquids with solids content or dissolved solids and debris.

### FEATURES

- Solids handling and dirty water design
- Heavy-duty steel roll frame included
- Self primes to 20' w/ built-in viton check valve
- Items #10070187 and #100701C1, discharge rotates in 90-degree increments

### INCLUDES

- \*Item #10070150 includes (2) NPT(M) Pipe Nipples & 2" Street Elbow
- All Pumps listed below include a steel suction strainer

### SPECIFICATIONS

Engine:	Honda, Gas powered
Impeller:	Cast Iron
Pump Body:	Cast Aluminum
Shaft Seal:	Silicon Carbide/Viton

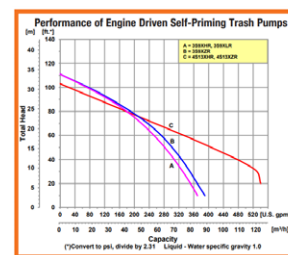
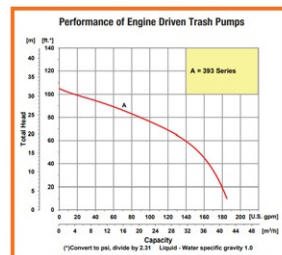
C&M PART #	MFR PART #	SUCTION/ DISCHARGE (NPT)(IN)	ENGINE	HP	SOLIDS (IN)	WEIGHT (LBS)	FULL LOAD RUN TIME (HRS)
10070150	3932-95	2" NPT(F)*	Honda GX160	4.8	1	110	2
10070187	3S9XHR	3" NPT(M)	Honda GX270	8	1-1/2	145	2.5
100701C1	4S13XHR	4" NPT(M)	Honda GX390	13	2	200	2.5



10070150



100701C1



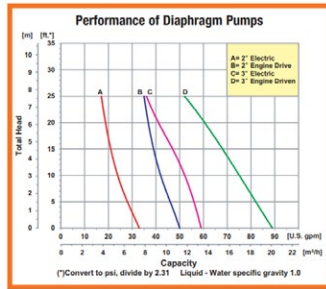
### ACCESSORIES

C&M PART #	SIZE (IN)	COUPLINGS
<b>HOSE KITS</b>		
1023160150	2	M&F Thread
1023160187	3	M&F Thread
10231601C1	4	M&F Thread
1023200350	2	Quick Coupling
1023200387	3	Quick Coupling
10232003C1	4	Quick Coupling

Note: Quick Coupling Suction Hose is 'C' x Nipple, Discharge Hose is 'C' x 'E'  
Includes 20 ft PVC Suction Hose Assembly, 50 ft Blue PVC Discharge Hose Assembly,  
Spanner Wrench (M&F Kits only), Steel strainer (Square hole), (2) Aluminum Part 'A'  
Adapters (Quick Coupling Kits only)



**AMT Diaphragm Pumps**



These AMT Diaphragm pumps, often referred to as Mud or Sludge Pumps, are designed to pump mud, slurry, sewage and thick liquids that have the ability to flow.

They are great for dewatering a main break excavation or pumping sludge.

**FEATURES**

- Choose from gas or electric-powered models
- 90 degree rotatable base on all models
- Modular component design permits easy maintenance and cleanout
- Solids handling and dirty water design
- Can run dry eliminating the need to turn pump on/off, which is ideal for excavations
- Sand cast aluminum construction for portability and durability
- Self priming to 25' lift

**INCLUDES**

- Includes NPT steel suction strainer, (2) NPT nipples and wheel kit with 10" semi-pneumatic wheels for portability

**SPECIFICATIONS**

MATERIALS	
Diaphragm	Santoprene
Flap Valves	Neoprene
Pump Body	Aluminum

C&M PART #	MFR PART #	SUCTION/DISCHARGE, NPT(F) (IN)	HP	POWER SOURCE	SOLIDS (IN)	WEIGHT (LBS)
100704	338E-96	2	1.5	115/230VAC, 1-phase	1-1/4	175
100705	338G-96	2	3.2	Honda GX120, Gas	1-1/4	165
100706	337E-96	3	1.5	115/230VAC, 1-phase	1-5/8	185
100707	337G-96	3	3.2	Honda GX120, Gas	1-5/8	175
100708	337H-96	3	4.8	Honda GX160, Gas	1-5/8	185

**Cherne® Aqua-Loc® Diaphragm-Style Hydrostatic Test Pumps**

The Aqua-Loc® Hydrostatic Test Pump is designed to be the most user-friendly pump in the industry. This test pump makes it easy to hydro-test water mains and sewer force mains as prescribed by the AWWA Standard C600 installation of Ductile Iron Water Mains and the C605 installation of PVC pressure pipes.



**FEATURES**

- Self priming and handles up to 10% chlorine solutions
- Honda Engine with oil alert shutoff system
- Test gauge and pressure regulator make for easy adjustments
- Pulsation dampener means no need for a surge tank
- Enclosed gear reduction
- Brass inline strainer and filter is easy to clean
- Color-coded quick-connect fittings make setup and break down easier

**INCLUDES**

- Includes 12' output hose and 10' intake hose

C&M PART #	MFR PART #	ENGINE TYPE	GPM	DESCRIPTION
100960	278068	Honda	9.5	Hypro Twin Diaphragm, 9.5gpm/550PSI
100961	278178	Honda	35	Hypro Triple Diaphragm, 35gpm/290PSI

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
104584	45918	Optional Wheel Kit
104587	39168	Optional 16 Gallon Water Tank

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## KELLER LevelRat Submersible Level Transmitters

KELLER America's LevelRat Submersible Level Transmitter is specifically designed for extended service in sewage lift station environments and features a wide sensing diaphragm yet small overall size. The LevelRat incorporates a monolithic diaphragm which combines the non-stick quality of Teflon with superior toughness and abrasion resistance.



### FEATURES

- Perfectly suited for lift station pump control applications
- KELLER America's guaranteed lightning protection at no additional cost
- Ideal for areas prone to chronic damage due to transients caused by lightning
- Protective spacer provides additional protection for sensing element in harsh conditions
- Select models include 1/2" NPT conduit fitting

### SPECIFICATIONS

Accuracy	1 Percent
Lightning Protection	Yes
Power Required	11-32VDC
Output	4-20mA+RS485
Wetted Material (Cable)	Polyethylene
Wetted Material (Body)	316 SS

C&M PART #	RANGE (PSI)	RANGE (FT H2O)	CABLE (FT)	CONDUIT FITTING
104894	0-5	0-11.55	30	No
104895	0-5	0-11.55	30	Yes
104896	0-10	0-23.10	30	No
104897	0-10	0-23.10	30	Yes
104898	0-15	0-34.65	50	No
104899	0-15	0-34.65	50	Yes
104900	0-20	0-46.20	60	No
104901	0-20	0-46.20	60	Yes
104902	0-30	0-69.30	90	No
104903	0-30	0-69.30	90	Yes

## Conery Pump Float Switches

These Conery Floats incorporate the newest mechanical design and can be used in all 50 states. Heavy-Duty construction allows them to be used in the toughest applications; including industrial, sewage and wastewater environments. The durable outer shell and foam filled interior provide for leak-proof operation and tremendous impact resistance.



### FEATURES

- Dura-Float Design internally weighted
- Leak proof, shock proof, impact resistant

### CERTIFICATIONS

- UL

### SPECIFICATIONS

Cable Material	Polyethylene
Electrical Rating	10A@120VAC
Bulb Type	Mechanical
Float Material	Polypropylene
Actuation Point	1 IN above/below horizontal

C&M PART #	DESCRIPTION	PIGGY BACK PLUG	CORD LENGTH (FT)
104677V206NO	Float Switch, Control Duty, Normally Open, Internally Weighted	No	20
104677Z106NO	Float Switch, Control Duty, Normally Open, Internally Weighted	No	30
104677BC06NO	Float Switch, Control Duty, Normally Open, Internally Weighted	No	50
104677V206NC	Float Switch, Control Duty, Normally Closed, Internally Weighted	No	20
104677Z106NC	Float Switch, Control Duty, Normally Closed, Internally Weighted	No	30
104677BC06NC	Float Switch, Control Duty, Normally Closed, Internally Weighted	No	50
104677V206SD	Float Switch, Control Duty, Normally Open / Normally Closed, Internally Weighted	No	20
104677Z106SD	Float Switch, Control Duty, Normally Open / Normally Closed, Internally Weighted	No	30
104677BC06SD	Float Switch, Control Duty, Normally Open / Normally Closed, Internally Weighted	No	50
104696N808NO	Float Switch, Pump Duty, Normally Open, Internally Weighted	Yes	10
104696V208NO	Float Switch, Pump Duty, Normally Open, Internally Weighted	Yes	20
104696V208NC	Float Switch, Pump Duty, Normally Closed, Internally Weighted	Yes	20



## DeWALT® DPG100 CROSSCUT™



The DeWALT CROSSCUT™ Safety Glass provides an excellent fit with rubber no-slip temples and a soft comfortable nose piece, while maintaining excellent sight lines and side protection with its wide lenses.

### FEATURES

- Wide wrap lenses
- Soft rubber nosepiece
- Comfort fit temples
- Impact-resistant polycarbonate lenses
- Safety glass exceeds ANSI Z87.1+ standards
- Provides 99.9% UVA/UVB protection

### CERTIFICATIONS

- ANSI Z87.1+ Standard

### SPECIFICATIONS

Frame Color	Black
-------------	-------

C&M PART #	MFR PART #	DESCRIPTION
100271	DPG100-1D	Clear Leans
100270	DPG100-9D	I/O Lens
100269	DPG100-2D	Smoke Lens

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100248	LCD100	100 Count Lens Cleaning Wipes

## Crossfire Cumulus Premium Safety Eyewear



- The stylish design of the full-frame Crossfire Cumulus Premium Safety Eyewear is designed for maximum protection. The soft, rubber nose piece allows for all-day comfort, while the dual mold rubber temples provide grip for better stability.

### FEATURES

- Rubber nosepiece for all-day comfort
- Dual mold, rubber temple grips for better stability
- Hard coat polycarbonate lens protects against scratches
- Provides 99.9% UVA and UVB protection

### CERTIFICATIONS

- Complies with ANSI Z87.1 standards

C&M PART #	MFR PART #	DESCRIPTION
100075	41626	Matte Black Frame / Blue Mirror Lens
100076	411432	Camo Frame / Gold Mirror Lens
100077	41291	Aluminum Gray Frame / Smoke Lens

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100248	LCD100	100 Count Lens Cleaning Wipes

## Radians® AP1 Rad-Apocalypse™ Safety Glasses

Radians Rad-Apocalypse safety glasses have a sleek, sporty, lightweight style and come with a safety neck cord.

### FEATURES

- New, improved soft rubber temples with flared ends
- Neck cord included
- Coated protective lens
- Protective lens provide 99.9% UVA/UVB protection

### CERTIFICATIONS

- Safety Glasses meet ANSI Z87.1+ standards.

### SPECIFICATIONS:

Frame Color	Black
-------------	-------



C&M PART #	MFR PART #	DESCRIPTION
100235	AP1-10	Clear Lens
100236	AP1-11	Clear Anti-Fog Lens
100237	AP1-20	Smoke Lens
100238	AP1-21	Smoke Anti-Fog Lens
100239	AP1-90	I/O Lens

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100248	LCD100	100 Count Lens Cleaning Wipes

## Honeywell Uvex Stealth® Goggles Gray Frames



Honeywell Uvex Stealth® goggles provide superior eye protection during impact, dust and chemical splash applications. These goggles feature an adjustable neoprene headband and soft elastomer frame that contours to your face for a gap-free fit. Their modern low-profile wrap-around design offers a full field of vision, while their indirect venting minimizes fogging.

### FEATURES

- Available in HydroShield® Anti-Fog coating for premium, long lasting fog-free time and scratch resistance
- Futuristic, low-profile design for chemical splash and impact
- Toric lens provide superior optics and peripheral vision
- One of the easiest lens replacement systems available
- Indirect ventilation system
- Quick-adjust headband
- Made in the U.S.; D3 certified

### CERTIFICATIONS

- Meets ANSI Z87+ (High Impact) and is CSA Z94.3 certified

### SPECIFICATIONS

Body Color	Gray
Lens Tint	Clear
Frame Coating	HydroShield® AF
Headband	Neoprene

C&M PART #	MFR PART #	DESCRIPTION
101312	S3960HS	Gray Frame Clear Lens HydroShield Anti-fog

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100248	LCD100	100 Count Lens Cleaning Wipes

## Honeywell Uvex Turboshield™



Honeywell Uvex Turboshield™ Headgear features a cushioning suspension cradle that provides greater contact area with fewer pressure points for all-day wear. Its control knobs are large and ergonomically designed to easily adjust for comfort—even while wearing gloves. The visors feature a unique curved design for excellent optics, increased field of view and better coverage across the chin area. Choose from either an uncoated model or one with anti-fog/anti-scratch protection.

### FEATURES

- Designed for all-day comfort
- Hard hat adapter can be used with popular hard hat brands
- Low profile fits easily, even in confined spaces
- Push-button attachment and release system allows visor to come off in seconds
- Toric-shaped visor provides more chin coverage compared to traditional visors
- Large, ergonomically-designed control knobs are easy to adjust
- Patented hard hat adapter design enables visor to slide back
- Dual-hinge adapter design increases clearance by as much as 4"

### CERTIFICATIONS

- Meets ANSI Z87.1-2010 and CSA Z94.3 standards

### SPECIFICATIONS

Head Gear & Adapter Color	Black
Visor Color	Clear

C&M PART #	MFR PART #	DESCRIPTION
101285	S9500	Headgear Only
101286	S9510	Hard Hat Adapter
101287	S9550	Replacement Visor Clear Uncoated
101288	S9555	Replacement Clear Visor with Anti-Fog & Anti-Scratch Protection

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100248	LCD100	100 Count Lens Cleaning Wipes

### Radians® LCD100 Eyewear Lens Cleaner Wipes



Radians LCD100 Eyewear Lens Cleaner Wipes provide sturdy, economical lens cleaning for all lens types in the field or plant. Strategically-placed stations will promote proper lens cleaning techniques, extending the life of prescription and non-prescription safety glasses. The specially-developed formula in the lens cleaning towelettes and lens cleaning stations will clean greasy and oily glasses while providing an anti-fog / anti-static coating.

**FEATURES**

- Available in easy-to-use disposable lens cleaning towelettes
- Lens cleaning towelettes and stations prevent fogging and reduce static
- Excellent for cleaning glass, plastic and polycarbonate
- Coated protective lens

C&M PART #	MFR PART #	DESCRIPTION
100248	LCD100	100 Count Lens Cleaning Wipes

### Radians® Tree Trimmer Combo Hard Hat

Radians Tree Trimmer Combo Hard Hat includes foam filled, padded earcups and mesh visor with a pinlock or ratchet suspension hard hat.



**FEATURES**

- Adjustable headband slides to fit most sizes
- Lightweight durable construction

**CERTIFICATIONS**

- Meets ANSI Z89.1-2009 Standard, Type 1, Class G & E

**SPECIFICATIONS**

Product Color	Orange
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C&M PART #	MFR PART #
10041593	300-ORVM

### Radians® Quartz™ & Granite™ Hard Hats



10005481



10058781



Radians Quartz™ and Granite™ Cap Style Hard Hats are comfortable and stylish, offering versatile protection. All Hard Hats meet ANSI Z89.1-2014 Type 1 - Class G & E Standards. Vented options are available.

**FEATURES**

- Pillowed brow pad
- Nylon crown strap suspensions
- Vertical height adjustment
- Quick ratchet adjustment system
- Easy Pinlock adjustment system
- High density polyethylene construction
- Made in the United States

**CERTIFICATIONS**

- All Hard Hats Meet ANSI Z89.1-2014 Type 1- Class G & E Standards

C&M PART #	MFR PART #	DESCRIPTION
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**GRANITE HARD HATS**

10005468	GHR6-GREEN	Cap Style / Green
10005467	GHR6-GRAY	Cap Style / Gray
10005419	GHR6-BLUE	Cap Style / Blue
100054D7	GHR6-YELLOW	Cap Style / Yellow
10005493	GHR6-ORANGE	Cap Style / Orange
10005480	GHR6-GREEN-HV	Cap Style / Hi-Vis Green
10005481	GHR6-ORANGE-HV	Cap Style / Hi-Vis Orange
100054D5	GHR6-WHITE	Cap Style / White
100054A7	GHR6-RED	Cap Style / Red

**QUARTZ HARD HATS**

10058768	QHR6-GREEN	Full Brim / Green
10058767	QHR6-GRAY	Full Brim / Gray
10058719	QHR6-BLUE	Full Brim / Blue
100587D7	QHR6-YELLOW	Full Brim / Yellow
10058793	QHR6-ORANGE	Full Brim / Orange
10058780	QHR6-GREEN-HV	Full Brim / Hi-Vis Green
10058781	QHR6-ORANGE-HV	Full Brim / Hi-Vis Orange
100587D5	QHR6-WHITE	Full Brim / White
100587A7	QHR6-RED	Full Brim / Red
10058743	QHR6-DARK GRAY	Full Brim / Dark Gray

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
100144	HG-410A4	Universal Cap Adapter
100691	V40815-C	Clear PC
100620	V40815-CP	Universal Clear PETG (Cap Style Only)



## SAS Safety Astro-Grip Powder-Free Nitrile Exam Grade Disposable Gloves, 8 mil (100 bx)

The SAS Safety Astro-Grip Powder-Free Nitrile Exam Grade Disposable Gloves feature a dual-sided scale textured surface for superior grip. These gloves provide effective chemical and puncture resistance, making them ideal for chemical, janitorial, automotive, painting and plumbing applications. These gloves are also available in high-visibility orange.



### FEATURES

- Powder-free exam grade nitrile
- Thickness: 8 mil
- Dual-sided scale textured surface for superior grip
- High-visibility orange color
- Non-latex
- Exceptional chemical and puncture resistance
- Maximum comfort for extended wear

### SPECIFICATIONS

Product Color	Hi-Vis Orange
Product Sizes	M, L, XL, 2XL
Product Material	Rubber
Product Material Type	Nitrile
Product Coating	Powder Free
Glove Type	Disposable, Exam grade

C&M PART #	MFR PART #	COUNT (BOX)	SIZE
102255MD	66572	100	M
102255LG	66573	100	L
102255XL	66574	100	XL
1022552X	66575	100	2XL

## SAS Safety Thickster Powder-Free Latex Exam Grade Disposable Gloves, 14 mil (50 bx)

The SAS Safety Thicksters are powder-free latex exam grade disposable gloves. At 14mil, the Thicksters are extra thick and strong. Tough and tear-resistant, the gloves feature a textured grip with a beaded cuff and these ambidextrous gloves are 12" long for added protection. They are ideal for chemicals, janitorial, automotive, painting and plumbing applications.



### FEATURES

- Powdered latex or powder-free exam grade latex
- Thickness: 14 mil
- 12" length for added protection
- Beaded cuff for easy donning
- Fully textured for superior grip
- Strong yet soft and flexible
- 50 gloves per box

### SPECIFICATIONS

Product Color	Dark Blue
Product Sizes	M, L, XL, 2XL
Product Material	Latex
Product Coating	Powder Free
Glove Type	Disposable, Exam Grade

C&M PART #	MFR PART #	COUNT (BOX)	SIZE
102264MD	6602-20	50	M
102264LG	6603-20	50	L
102264XL	6604-20	50	XL
1022642X	6605-20	50	2XL

## SAS Safety Raven Powder-Free Nitrile Exam Grade Disposable Gloves, 7 mil (100 bx)

The SAS Safety Raven Powder-Free Nitrile Exam Grade Disposable Gloves offer superior puncture and abrasion resistance while providing outstanding strength, wear and dexterity. They are textured for enhanced gripping power and pass ASTM D6978 standards. Ideal for chemicals, janitorial, automotive, painting and plumbing applications.



### FEATURES AND BENEFITS

- Powder-free exam grade nitrile
- Thickness: 7 mil
- Non-latex
- Outstanding strength, wear and dexterity
- Textured for enhanced gripping power
- 100 gloves per box

### CERTIFICATIONS

- Passes ASTM D6978 to handle Fentanyl substances

### SPECIFICATIONS

Product Color	Black
Product Sizes	S, M, L, XL, 2XL
Product Material	Rubber
Product Material Type	Nitrile
Product Coating	Powder Free
Glove Type	Disposable, Extra Strength

C&M PART #	MFR PART #	COUNT (BOX)	SIZE
102250SM	66516	100	S
102250MD	66517	100	M
102250LG	66518	100	L
102250XL	66519	100	XL
1022502X	66520	100	2XL



## Radians® Cowhide & Pigskin Driver Work Gloves



100597MD



100552MD



100495MD



100615SM



The Radians Driver Work Gloves are a great economical leather glove option. Sold by the pair, these gloves come in both cowhide and pigskin varieties. There are two types of traditional leather gloves: joint split and split cowhide leather.

### FEATURES

#### RWG4220 Leather Driver

- Standard grain cowhide leather driver
- Keystone thumb
- Shirred wrist
- Cloth hem

#### RWG4821 Leather Driver

- Standard top grain pigskin leather driver
- Shirred wrist
- Keystone thumb
- Cloth hem

#### RWG3200 Leather Palm

- Regular shoulder gray split cowhide
- Gunn cut w/wing thumb
- Leather knuckle strap
- Rubberized safety cuff

#### RWG3200JP Leather Palm

- Regular shoulder gray split cowhide joint leather palm
- Gunn cut w/ wing thumb
- Leather knuckle strap
- Rubberized safety cuff

### SPECIFICATIONS

Product Sizes	S to 3X
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C&M PART #	MFR PART #	DESCRIPTION	SIZE
<b>LEATHER DRIVER</b>			
100597SM	RWG4220S	Cowhide Leather	S
100597MD	RWG4220M	Cowhide Leather	M
100597LG	RWG4220L	Cowhide Leather	L
100597XL	RWG4220XL	Cowhide Leather	XL
1005972X	RWG4220XXL	Cowhide Leather	2X
1005973X	RWG4220XXXL	Cowhide Leather	3X
100552SM	RWG4821S	Pigskin Leather	S
100552MD	RWG4821M	Pigskin Leather	M
100552LG	RWG4821L	Pigskin Leather	L
100552XL	RWG4821XL	Pigskin Leather	XL
<b>LEATHER PALM</b>			
100495MD	RWG3200JPM	Joint Split Cowhide Leather	M
100495LG	RWG3200JPL	Joint Split Cowhide Leather	L
100495XL	RWG3200JPXL	Joint Split Cowhide Leather	XL
1004952X	RWG3200JPXXL	Joint Split Cowhide Leather	2X
100615SM	RWG3200S	Split Cowhide Leather	S
100615MD	RWG3200M	Split Cowhide Leather	M
100615LG	RWG3200L	Split Cowhide Leather	L
100615XL	RWG3200XL	Split Cowhide Leather	XL
1006152X	RWG3200XXL	Split Cowhide Leather	2X

## DeWALT® DPG201 Synthetic Leather Performance Glove

The DeWALT DPG201 Synthetic Leather Performance Glove features foam-padded palms to cushion hands, synthetic leather fingertip overlays for grip and abrasion resistance, thumb saddle and double stitching for extra strength and durability, and hook and loop wrist closure to keep out debris. This glove will protect hands from absorbing shock from power tools and hand tool use that can fatigue hands when repairing machinery, digging, or woodworking.

### FEATURES

- Synthetic leather fingertip overlays
- Hook and loop wrist closure
- Foam-padded palm
- Reinforced thumb saddle
- Terry cloth brow wipe



### SPECIFICATIONS

Product Sizes	M to XL
Product Color	Yellow

C&M PART #	MFR PART #	SIZE
100108MD	DPG201M	M
100108LG	DPG201L	L
100108XL	DPG201XL	XL

## Radians® RWG605 Cut Protection Level A4 Cold Weather Glove

The Radians RWG605 cold weather glove provides EN388 level 5 protection and ANSI level 4 protection against cuts. The RWG605 features a 13 gauge knitted HPPE outer shell with a smooth blue latex coating and a seven gauge acrylic inner shell to provide extra protection and comfort. The palm has a black foam latex coating that provides excellent protection from abrasion in wet or dry, cold weather conditions.



### FEATURES

- 13 gauge knitted HPPE outer shell with a smooth blue latex coating
- 3/4 black foam latex coating
- Seven gauge acrylic inner shell
- Reinforced thumb saddle
- Terry cloth brow wipe
- Seamless elastic slip-on cuff
- Tested to EN388 standards for abrasion, cuts, tear and puncture (4 5 4 4)
- CAUTION: This product contains Latex

### CERTIFICATIONS

- EN388 Standard, ANSI/ISEA Cut Level A4

### SPECIFICATIONS

Product Sizes	S to 2X
Product Color	Blue

C&M PART #	MFR PART #	SIZE
100089SM	RWG605S	S
100089MD	RWG605M	M
100089LG	RWG605L	L
100089XL	RWG605XL	XL
1000892X	RWG605XXL	2X

## Radians® RWG564 AXIS Cut Protection Level A4 High Visibility Work Glove

The RWG564, an Axis™ Series glove by Radians, has an ANSI Cut rating of A4. The RWG564 glove features a HPPE outer shell with fiberglass to provide significant protection against abrasion and cuts. The black foam nitrile palm coating provides excellent gripping power.



### FEATURES

- HPPE outer shell with fiberglass
- Black foam nitrile coated palm
- Seamless cuff design
- Load weight of 1510g
- Tested to EN388 standards for abrasion, cuts, tear and puncture (4 5 4 4)

### CERTIFICATIONS

- EN388 Standard, ANSI/ISEA Cut Level A4

### SPECIFICATIONS

Product Sizes	S to 2X
Product Color	Hi-Vis Lime

C&M PART #	MFR PART #	SIZE
100695SM	RWG564S	S
100695MD	RWG564M	M
100695LG	RWG564L	L
100695XL	RWG564XL	XL
1006952X	RWG564XXL	2X

## Radians® RWG13 Foam Nitrile Gripper Glove

The Radians RWG13 glove is a foam-dipped nitrile glove with a blended nylon/spandex shell. The elastic cuff provides a comfortable, slip-on fit while the foam dipped palm provides durability and a slip-free grip.



### FEATURES

- Blended nylon/spandex shell
- Foam nitrile-dipped palm
- Elastic slip-on cuff

### CERTIFICATIONS

- Meets EN 388:2003 standards for abrasion, cuts, tear and puncture (4 1 3 1)

### SPECIFICATIONS

Product Sizes	S to 2X
Product Color	Gray

C&M PART #	MFR PART #	SIZE
100300SM	RWG13S	S
100300MD	RWG13M	M
100300LG	RWG13L	L
100300XL	RWG13XL	XL
1003002X	RWG13XXL	2X

### Radians® RWG559 AXIS Cut Protection Level A6 Sandy Nitrile Coated Glove

The RWG559, an Axis™ Series glove by Radians, has an ANSI Cut rating of A6 and an EN388 cut rating of 5. The RWG559 glove features a 13 gauge, orange HPPE outer shell with fiberglass and stainless steel to provide significant protection against abrasion and cuts. The black sandy nitrile palm coating provides excellent gripping power.



**FEATURES**

- 13 gauge knitted HPPE orange outer shell with fiberglass and stainless steel
- Black sandy nitrile coated palm
- Seamless cuff design
- Load weight of 3996g
- Tested to EN 388 standards for abrasion resistance, blade cut, tear, and puncture (4 5 4 4)

**CERTIFICATIONS**

- ANSI Cut Level A6, EN388 Cut Level 5

**SPECIFICATIONS**

Product Sizes	S to 2X
Product Color	H-Vis Orange

C&M PART #	MFR PART #	SIZE
100213SM	RWG559S	S
100213MD	RWG559M	M
100213LG	RWG559L	L
100213XL	RWG559XL	XL
1002132X	RWG559X2L	2X

### Neese I96 Series Chem Shield Suit

The Neese Economy Chem Shield I96 Series offers basic industrial splash protection with PVC/polyester that is coated on both sides. It is ideal for situations that require protection such as sanitation, sewer and waterworks, and agriculture. It has strong double-welded seams for durability and reinforcement.

**FEATURES**

- Stand-up collar with snaps and detachable hood
- Neck tab on collar
- Raglan shoulder design
- Inner sleeves on arms with elastic
- Snap front closure
- Bib front trousers
- Adjustable suspenders
- Inner sleeves on bottom leg openings



**CERTIFICATIONS**

- ASTM F903

**SPECIFICATIONS**

Product Sizes	S to 3X
Product Color	Green
Material	PVC on Polyester

C&M PART #	MFR PART #	SIZE
10022768SM	10096-55-1-GRN-S	S
10022768MD	10096-55-1-GRN-M	M
10022768LG	10096-55-1-GRN-L	L
10022768XL	10096-55-1-GRN-XL	XL
100227682X	10096-55-1-GRN-2X	2X
100227683X	10096-55-2-GRN-3X	3X

### Radians® ERW 35 Economy Rainsuit

The Radians ERW 35 economy waterproof rainwear, will keep workers dry in the rain or provide protection from dirty working conditions. Its PVC exterior and POLY interior create added stability between layers for industrial strength at an affordable price. The ERW 35 three-piece rainsuit includes a jacket, bib overalls and hood. This jacket is ideal for environmental clean-up, general construction, shipyards and general maintenance. Use this jacket for short-term protection from environmental or weather-related conditions.

**FEATURES**

- .35mm PVC / POLY three-piece rainsuit - includes jacket
- Bib overalls and hood
- Detachable hood included
- Fold down collar
- Snap front closure
- Lower front pockets with flaps
- Double heat welded seam construction
- Snap adjustments on sleeve and leg cuffs

**CERTIFICATIONS**

- ASTM F903

**SPECIFICATIONS**

Product Sizes	S to 3X
Product Color	Yellow

C&M PART #	MFR PART #	SIZE
100305D7MD	RS01-NSYV-M	M
100305D7LG	RS01-NSYV-L	L
100305D7XL	RS01-NSYV-XL	XL
100305D72X	RS01-NSYV-2X	2X
100305D73X	RS01-NSYV-3X	3X



## Neese Universal 35 Series Suit



100643C2MD



100146C2MD



The Neese Universal 35 Series is the go-to garment when you need it all. The PVC/nylon/PVC material offers tough, lightweight protection that will not crack or peel in temperatures of -30°F to 120°F. The Universal 35 gives excellent abrasion, tear and snag resistance.

### FEATURES

- PVC/nylon/PVC
- Non-conductive snap closures that fasten suspenders onto garment
- Bib front coverage
- Adjustable elastic suspenders
- Tested to ASTM D6413
- Self-extinguishing NFPA-701
- Liquid penetration ASTM F903
- Stand-up collar with snaps for detachable hood

### CERTIFICATIONS

- ASTM D6413, NFPA-701, ASTM F903

### SPECIFICATIONS

Product Sizes	M to 3X
Product Color	Yellow

C&M PART #	MFR PART #	SIZE
<b>JACKET WITH SNAPS</b>		
100643C2MD	35001-01-1-YEL-M	M
100643C2LG	35001-01-1-YEL-L	L
100643C2XL	35001-01-1-YEL-XL	XL
100643C22X	35001-01-1-YEL-2X	2X
100643C23X	35001-01-1-YEL-3X	3X
<b>BIB TROUSER</b>		
100146C2MD	35001-12-1-YEL-M	M
100146C2LG	35001-12-1-YEL-L	L
100146C2XL	35001-12-1-YEL-XL	XL
100146C22X	35001-12-1-YEL-2X	2X
100146C23X	35001-12-1-YEL-3X	3X

## Radians® RW30 Hi Viz Lightweight Rainwear - Jacket and Pants in Green



10060880MD



10057980MD



The Radians RW30 is general purpose rainwear with Reflectivz® weatherproof and high visibility technology that keeps you cool and comfortable while protecting you in tough environments. The 300 Denier PU coated, high visibility oxford material provides excellent protection. The RW30 rainwear series includes a rain jacket and bib pant, all sold separately.

### FEATURES

- 300 Denier PU coated hi-vis oxford material
- 2" silver reflective tape - One horizontal, two vertical and two sleeve stripes and two horizontal stripes on each leg, One horizontal stripe on waist
- Vented back cape w/ D-ring pass through for fall protection
- Adjustable cuff wrists w/ hook & loop closures
- Mic tabs on both shoulders
- Zipper front closure w/ snap closure storm flap
- Two lower front pockets, upper chest radio pocket, pen pockets on sleeve
- 25 wash max

### CERTIFICATIONS

- Jacket: Class 3 - Pants: Class E

### SPECIFICATIONS

Product Sizes	M to 3X
Product Color	Hi-Vis Green

C&M PART #	MFR PART #	SIZE
<b>RAIN JACKET</b>		
10060880MD	RW30-3Z1Y-M	M
10060880LG	RW30-3Z1Y-L	L
10060880XL	RW30-3Z1Y-XL	XL
100608802X	RW30-3Z1Y-2X	2X
100608803X	RW30-3Z1Y-3X	3X
<b>BIB PANTS</b>		
10057980MD	RW30-ES1Y-M	M
10057980LG	RW30-ES1Y-L	L
10057980XL	RW30-ES1Y-XL	XL
100579802X	RW30-ES1Y-2X	2X
100579803X	RW30-ES1Y-3X	3X



### LaCrosse ZXT Insulator III Chest Waders

Heavy duty, fully booted and easy to clean, the Lacrosse ZXT chest waders feature our premium, natural rubber that won't crack in the cold, won't get soft in the heat and won't ever let you down when you need it most. Unlike a neoprene wader, this full rubber chest wader won't absorb smells, bacteria or other chemicals. Lacrosse add an insulating layer of foam and a wool-felt midsole to keep you warm in the deepest mud and muck.



**FEATURES**

- Waterproof Protection
- Tear Resistant Rubber
- EH Rated
- Traction
- Foam Insulation

C&M PART #	MFR PART#	DESCRIPTION
10627009	191200-8	LaCrosse ZXT Insulator III Chest Black Size 8
10627011	191200-9	LaCrosse ZXT Insulator III Chest Black Size 9
10627013	191200-10	LaCrosse ZXT Insulator III Chest Black Size 10
10627015	191200-11	LaCrosse ZXT Insulator III Chest Black Size 11
10627017	191200-12	LaCrosse ZXT Insulator III Chest Black Size 12
10627019	191200-13	LaCrosse ZXT Insulator III Chest Black Size 13
10627020	191200-14	LaCrosse ZXT Insulator III Chest Black Size 14
10627021	191200-15	LaCrosse ZXT Insulator III Chest Black Size 15

**ACCESSORIES**

C&M PART #	MFR PART#	DESCRIPTION
106273	908250	LaCrosse H-Back Suspenders

### LaCrosse Insulated Storm Hip Boot

Lightweight and always long-wearing, the Lacrosse Storm Hip boots feature our premium, natural rubber that won't crack in the cold, won't get soft in the heat and won't ever let you down when you need it most. With a layer of insulating foam and a wool-felt midsole underfoot, you'll always stay warm in the deepest mud and muck.



**FEATURES AND BENEFITS**

- Waterproof Protection
- Steel Safety Toe
- Tear Resistant Rubber
- EH Rated
- Traction
- Foam Insulation

C&M PART #	MFR PART #	DESCRIPTION
10626909	00109050-8	LaCrosse Insulated Storm Hip Boot 31" Black ST Size 8
10626911	00109050-9	LaCrosse Insulated Storm Hip Boot 31" Black ST Size 9
10626913	00109050-10	LaCrosse Insulated Storm Hip Boot 31" Black ST Size 10
10626915	00109050-11	LaCrosse Insulated Storm Hip Boot 31" Black ST Size 11
10626917	00109050-12	LaCrosse Insulated Storm Hip Boot 31" Black ST Size 12
10626919	00109050-13	LaCrosse Insulated Storm Hip Boot 31" Black ST Size 13

### LaCrosse Premium Knee Boot

Lightweight and always long-wearing, the Lacrosse Premium Knee boots feature our premium, natural rubber that won't crack in the cold, won't get soft in the heat and won't ever let you down when you need it most. Comfortable enough to wear as an everyday work boot, but durable enough to last in the back of the truck for those just-in-case days.



**FEATURES**

- Waterproof Protection
- Mud and Snow Slip Resistance
- Tear Resistant Rubber
- EH Rated
- Arch Protection

C&M PART #	MFR PART#	DESCRIPTION
10627209	00267220-8	LaCrosse Premium Knee Boot 16" Black ST Size 8
10627211	00267220-9	LaCrosse Premium Knee Boot 16" Black ST Size 9
10627213	00267220-10	LaCrosse Premium Knee Boot 16" Black ST Size 10
10627215	00267220-11	LaCrosse Premium Knee Boot 16" Black ST Size 11
10627217	00267220-12	LaCrosse Premium Knee Boot 16" Black ST Size 12
10627219	00267220-13	LaCrosse Premium Knee Boot 16" Black ST Size 13

## Radians® Weatherproof Multi-Color Bomber Jacket



The Radians SJ12 Class 3 Weatherproof Multi-Color Bomber Jacket is designed with a quilted liner, making it very easy to slip on and off over other fleece or warm outerwear.

### FEATURES

- Quilted liner 160g/m2
- 2" silver reflective tape
- Multi-color PU coated weather proof 300D oxford polyester shell
- Concealed detachable hood
- Elastic waistband and cuffs
- Zippered, lined slash pockets
- 3D flap covered cell phone/radio chest pocket
- One inside open chest pocket

### CERTIFICATIONS

- Type R, Class 3

### SPECIFICATIONS

Product Colors	Hi-Vis Multi Color
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10043987MD	SJ12-3ZMS-M	Hi-Vis Multi Color	M
10043987LG	SJ12-3ZMS-L	Hi-Vis Multi Color	L
10043987XL	SJ12-3ZMS-XL	Hi-Vis Multi Color	XL
100439872X	SJ12-3ZMS-2X	Hi-Vis Multi Color	2X
100439873X	SJ12-3ZMS-3X	Hi-Vis Multi Color	3X

## Radians® SJ210B 3 in 1 Deluxe HV Bomber Jacket



The Radians SJ210B Three-in-One Deluxe Bomber Jacket has a zip-out fleece jacket, concealed attached hood, elasticized waistband and several inner and outer pockets. This safety jacket has two-inch silver reflective tape for high visibility.

### FEATURES

- Zip-out removable fleece jacket with lined sleeves
- PU-coated weatherproof polyester shell
- Three outside pockets on fleece jacket
- Black elasticized cuffs with hook and loop closures
- Zippered fleece lined slash pockets
- Cell phone/radio chest pocket

### CERTIFICATIONS

- Cold Weather Type R - Class 3

### SPECIFICATIONS

Product Colors	Hi-Vis Green / Black, Hi-Vis Green / Orange
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10013078MD	SJ210B-3ZGS-M	Hi-Vis Green / Black	M
10013078LG	SJ210B-3ZGS-L	Hi-Vis Green / Black	L
10013078XL	SJ210B-3ZGS-XL	Hi-Vis Green / Black	XL
100130783X	SJ210B-3ZGS-2X	Hi-Vis Green / Black	2X
100130782X	SJ210B-3ZGS-3X	Hi-Vis Green / Black	3X
10013095MD	SJ210B-3ZOS-M	Hi-Vis Green / Orange	M
10013095LG	SJ210B-3ZOS-L	Hi-Vis Green / Orange	L
10013095XL	SJ210B-3ZOS-XL	Hi-Vis Green / Orange	XL
100130953X	SJ210B-3ZOS-2X	Hi-Vis Green / Orange	2X
100130952X	SJ210B-3ZOS-3X	Hi-Vis Green / Orange	3X



## Radians® 4 in 1 Reversible Windbreaker in Green



The Radians SJ07-3ZDS Reversible Windbreaker with zip-off sleeves is an all-purpose, four in one windbreaker providing superior, cross-seasonal comfort and weather protection. Reverse this jacket from dark, low-profile grey to bright, high-visibility yellow. The zippered sleeves allow the Class 3 high-visibility jacket with sleeves to easily convert to a Class 2 high-visibility yellow vest without sleeves.

### FEATURES

- Convert from a jacket to a vest with removable, zippered sleeves
- Heavy-duty #5 zipper closure
- 2" silver reflective tape
- Reflective 1/8" piping along back insert, yoke seams and zipper
- Hemmed elastic sleeves
- Bottom hem adjusted by bungee cord and toggles
- Pockets (high-visibility side): one left chest radio pocket with flap
- Pockets (two-tone grey side): two zippered lower front pockets, and one vertical zippered chest pocket
- Garment Passes AATCC35 Rain Test

### CERTIFICATIONS

- Type R, Class 3 (Class 2), ANSI 107

### SPECIFICATIONS

Product Colors	Hi-Vis Green / Black
Product Sizes	M, L, XL, 2XL, 3XL
Materials	Hi-Vis Polyester Coated Outer, Two-Tone Grey Polyester Outer

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10027278MD	SJ07-3ZDS-M	Hi-Vis Green / Black	M
10027278LG	SJ07-3ZDS-L	Hi-Vis Green / Black	L
10027278XL	SJ07-3ZDS-XL	Hi-Vis Green / Black	XL
100272782X	SJ07-3ZDS-2X	Hi-Vis Green / Black	2X
100272783X	SJ07-3ZDS-3X	Hi-Vis Green / Black	3X

## Radians® SJ01B-3 Class3 Color Blocked Hooded Sweatshirt in Orange or Green



10025578MD

10025595MD

The Radians SJ01B-3 Type R, Class 3, Long Sleeve Hooded Sweatshirt with zipper closure offers superior warmth while keeping you visible on the job. Color blocking at the bottom of this sweatshirt conceals dirt.

### FEATURES

- Black elastic knit waistband and cuffs
- Low piling polyester fleece material
- Color blocking at the bottom
- 2" silver reflective tape
- Full front zipper closure
- Two lower pouch pockets
- Hood with adjustable pull cords
- 25 wash max

### CERTIFICATIONS

- Type R Sweat Shirt - Class 3
- Meets ANSI/ISEA 107 Standards.

### SPECIFICATIONS

Product Colors	Hi-Vis Green / Black, Hi-Vis Orange / Black
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10025578MD	SJ01B-3ZGS-M	Hi-Vis Green / Black	M
10025578LG	SJ01B-3ZGS-L	Hi-Vis Green / Black	L
10025578XL	SJ01B-3ZGS-XL	Hi-Vis Green / Black	XL
100255782X	SJ01B-3ZGS-2X	Hi-Vis Green / Black	2X
100255783X	SJ01B-3ZGS-3X	Hi-Vis Green / Black	3X
10025595MD	SJ01B-3ZOS-M	Hi-Vis Orange / Black	M
10025595LG	SJ01B-3ZOS-L	Hi-Vis Orange / Black	L
10025595XL	SJ01B-3ZOS-XL	Hi-Vis Orange / Black	XL
100255952X	SJ01B-3ZOS-2X	Hi-Vis Orange / Black	2X
100255953X	SJ01B-3ZOS-3X	Hi-Vis Orange / Black	3X



## Radians® Hi-Vis Vests - SV2Z Economy Type R Class 2 Mesh Safety Vest with Zipper



10015880MD



10015881MD



Radians SV2Z Economy Type R Class 2 Safety Vest with zipper closure is compliant protection at an economical price. It's an excellent choice for extreme work environments like asphalt paving that greatly reduce the useful life of a vest, or protection for short-term labor.

### FEATURES

- Closure: zipper
- 2" silver tape reflective material. One horizontal stripe.
- Pockets: one upper left front, one lower right inside
- Materials: 100% polyester solid knit, 100% polyester mesh

### CERTIFICATIONS

- Meets ANSI/ISEA 107 Standards
- Type R / Class 2

### SPECIFICATIONS

Product Colors Hi-Vis Green, Hi-Viz Orange

Product Sizes M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10015880MD	SV2ZGMM	Hi-Vis Green	M
10015880LG	SV2ZGML	Hi-Vis Green	L
10015880XL	SV2ZGMXL	Hi-Vis Green	XL
100158802X	SV2ZGM2X	Hi-Vis Green	2X
100158803X	SV2ZGM3X	Hi-Vis Green	3X
10015881MD	SV2ZOMM	Hi-Vis Orange	M
10015881LG	SV2ZOML	Hi-Vis Orange	L
10015881XL	SV2ZOMXL	Hi-Vis Orange	XL
100158812X	SV2ZOM2X	Hi-Vis Orange	2X
100158813X	SV2ZOM3X	Hi-Vis Orange	3X

## Radians® Hi-Vis Vests - SV22-2 Economy Type R Class 2 Safety Vest with Two-Tone Trim



10011180MD



10011181MD



Radians SV22-2 Economy Type R Class 2 Safety Vest with Two-Tone Trim is compliant protection at an economical price. It's an excellent choice for extreme work environments like asphalt paving that greatly reduce the useful life of a vest, or protection for short-term labor. Reflective stripes on contrasting trim make workers much more noticeable in low light and broad daylight.

### FEATURES

- Closure: zipper
- 2" silver tape reflective material. One horizontal stripe.
- Pockets: 1 upper left front, 1 lower right inside
- Contrasting trim detail
- Material: 100% polyester mesh

### CERTIFICATIONS

- Meets ANSI/ISEA 107 Standards
- Type R/ Class 2

### SPECIFICATIONS

Product Colors Hi-Vis Green, Hi-Viz Orange

Product Sizes M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10011180MD	SV22-2ZGM-M	Hi-Vis Green	M
10011180LG	SV22-2ZGM-L	Hi-Vis Green	L
10011180XL	SV22-2ZGM-XL	Hi-Vis Green	XL
100111802X	SV22-2ZGM-2X	Hi-Vis Green	2X
100111803X	SV22-2ZGM-3X	Hi-Vis Green	3X
10011181MD	SV22-2ZOM-M	Hi-Vis Orange	M
10011181LG	SV22-2ZOM-L	Hi-Vis Orange	L
10011181XL	SV22-2ZOM-XL	Hi-Vis Orange	XL
100111812X	SV22-2ZOM-2X	Hi-Vis Orange	2X
100111813X	SV22-2ZOM-3X	Hi-Vis Orange	3X

## Radians® Hi-Vis Vests - SV59B Type R Class 2 Heavy Duty Surveyor Safety Vest



100366783X



100366953X



Radians SV59B Type R Class 2 Heavy Duty Surveyor Safety Vest is a heavy duty contractor surveyor's vest with zipper closure and large back "plan" pocket. Built with rugged ANSI 107 hi-vis material, reinforced wear points, and long-wearing web reinforcement along outer edges. The mesh upper, front and back, provide breathability and comfort. The pockets are crafted in tough woven twill fabric to provide maximum durability.

### FEATURES

- Heavy webbing reinforced edging
- 2" glass bead reflective tape
- Left shoulder mic tab
- Grommets at neck for tool tethers
- Woven polyester twill black bottom
- Upper left chest: Split pencil 4 segment pocket
- Upper right chest: 3D radio pocket w/ flap cover and clear credential window
- Outside lower pockets: Sized to accommodate standard tablet
- Right interior lower pocket: Sized to fit a tablet (Strap added to hold tablet)

### CERTIFICATIONS

- Type R/ Class 2

### SPECIFICATIONS

Product Colors	Hi-Vis Green, Hi-Vis Orange
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
100366783X	SV59B-2ZGM-M	Hi-Vis Green	M
10036680LG	SV59B-2ZGM-L	Hi-Vis Green	L
10036678MD	SV59B-2ZGM-XL	Hi-Vis Green	XL
100366954X	SV59B-2ZGM-2X	Hi-Vis Green	2X
100366784X	SV59B-2ZGM-3X	Hi-Vis Green	3X
100366953X	SV59B-2ZOM-M	Hi-Vis Orange	M
10036678SM	SV59B-2ZOM-L	Hi-Vis Orange	L
100366952X	SV59B-2ZOM-XL	Hi-Vis Orange	XL
10036678XL	SV59B-2ZOM-2X	Hi-Vis Orange	2X
100366785X	SV59B-2ZOM-3X	Hi-Vis Orange	3X

## Radians® Hi-Vis Vests - SV6H Type R Class 2 Heavy Duty Two Tone Surveyor Vest



10044668MD



10044693MD



The Radians SV6H Type R Class 2 Heavy Duty Two Tone Surveyor Safety Vest is a reinforced version of a standard surveyor vest. Reflective material is used on edging to enhance reflective brightness. It comes with a multi-function pocket design, including a clear vinyl credential/badge holder, featuring large inside pockets. The vest includes a rear D-Ring pass through for use over fall protection.

### FEATURES

- Heavy duty # zipper closure
- Reinforced webbing
- Pockets: Radio pocket with clear vinyl badge holder, split pencil pocket, lower front cargo pockets with tape grommets, two large inside open pockets
- Silver 2" glass bead reflective tape
- 1" contrasting trim detail
- Reflective trim edging
- Dual mic tabs
- Grommets at neck for tool keepers/lanyards

### CERTIFICATIONS

- Meets ANSI/ISEA 107 Standards
- Type R/ Class 2

### SPECIFICATIONS

Product Colors	Hi-Vis Green, Hi-Vis Orange
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10044668MD	SV6HG-M	Hi-Vis Green	M
10044668LG	SV6HG-L	Hi-Vis Green	L
10044668XL	SV6HG-XL	Hi-Vis Green	XL
100446682X	SV6HG-2X	Hi-Vis Green	2X
100446683X	SV6HG-3X	Hi-Vis Green	3X
10044693MD	SV6HO-M	Hi-Vis Orange	M
10044693LG	SV6HO-L	Hi-Vis Orange	L
10044693XL	SV6HO-XL	Hi-Vis Orange	XL
100446932X	SV6HO-2X	Hi-Vis Orange	2X
100446933X	SV6HO-3X	Hi-Vis Orange	3X

## Radians® ST11B Hi-Vis T Shirts Type R Class 2 in Orange & Green



10017478MD

10017495MD

The Radians ST11B Type R Class 2 High Visibility T-Shirt with Max-Dri™ Moisture Wicking Mesh is made with an arid Birdseye Mesh allowing for maximum breathability, without compromising durability. The stripes are adhered by heat transfer rather than sewn on, making the safety t-shirt feel much more like a regular T-shirt. This shirt's wicking properties improve the wearer's comfort in hot weather, making it feel much cooler.

### FEATURES

- Max-Dri™ Moisture Wicking Mesh Technology
- One horizontal stripe of 2" heat transfer, stretchable reflective tape
- One upper left front pocket
- Materials: 100% wicking polyester mesh
- Color blocking at the bottom
- 25 wash max

### CERTIFICATIONS

- Type R, Class 2
- Meets ANSI/ISEA 107 Standards

### SPECIFICATIONS

Product Colors	Hi-Vis Green / Black, Hi-Vis Orange / Black
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10017478MD	ST11B-2PGS-M	Hi-Vis Green / Black	M
10017478LG	ST11B-2PGS-L	Hi-Vis Green / Black	L
10017478XL	ST11B-2PGS-XL	Hi-Vis Green / Black	XL
100174782X	ST11B-2PGS-2X	Hi-Vis Green / Black	2X
100174783X	ST11B-2PGS-3X	Hi-Vis Green / Black	3X
10017495MD	ST11B-2POS-M	Hi-Vis Orange / Black	M
10017495LG	ST11B-2POS-L	Hi-Vis Orange / Black	L
10017495XL	ST11B-2POS-XL	Hi-Vis Orange / Black	XL
100174952X	ST11B-2POS-2X	Hi-Vis Orange / Black	2X
100174953X	ST11B-2POS-3X	Hi-Vis Orange / Black	3X

## Radians® ST11-3 Hi-Vis T Shirts Type R Class 3 in Orange & Green



10009480MD

10009481MD

The ST11-3 Type R Class 3 T-Shirt is made with an arid birdseye mesh allowing for maximum breathability without compromising durability. The stripes are adhered by heat transfer rather than sewn on, making the safety t-shirt wear much more like a regular T-shirt. The wicking properties improve hot weather comfort making it feel much cooler.

### FEATURES

- Max-Dri Moisture Wicking Mesh Technology
- 2" heat transfer, stretchable reflective tape
- Two horizontal stripes and individual sleeve stripes
- Pockets: 1 upper left front
- Materials: 100% wicking polyester mesh
- 25 wash max

### CERTIFICATIONS

- Meets ANSI/ISEA 107 Standards

### SPECIFICATIONS

Product Colors	Hi-Vis Green, Hi-Vis Orange
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10009480MD	ST11-3PGS-M	Hi-Vis Green	M
10009480LG	ST11-3PGS-L	Hi-Vis Green	L
10009480XL	ST11-3PGS-XL	Hi-Vis Green	XL
100094802X	ST11-3PGS-2X	Hi-Vis Green	2X
100094803X	ST11-3PGS-3X	Hi-Vis Green	3X
10009481MD	ST11-3POS-M	Hi-Vis Orange	M
10009481LG	ST11-3POS-L	Hi-Vis Orange	L
10009481XL	ST11-3POS-XL	Hi-Vis Orange	XL
100094812X	ST11-3POS-2X	Hi-Vis Orange	2X
100094813X	ST11-3POS-3X	Hi-Vis Orange	3X

### Radians® ST21B Hi-Vis T Shirts Type R Class 3 in Orange & Green



10046578MD

10046595MD

Radians ST21B Type R Class 3 High Visibility T-Shirt with Max-Dri™ Moisture Wicking Mesh is made with an arid birdseye mesh allowing for maximum breathability without compromising durability. The stripes are adhered by heat transfer rather than sewn on, making the safety t-shirt wear much more like a regular t-shirt. The wicking properties improve hot weather comfort making it feel much cooler with color blocking at the bottom of the t-shirt.

#### FEATURES

- Max-Dri Moisture Wicking Mesh Technology
- 2" heat transfer, stretchable reflective tape. One horizontal stripe on torso, two stripes on sleeves
- Pockets: 1 upper left front
- Materials: 100% wicking polyester mesh
- Color blocking at base and bottom of sleeves
- 25 wash max

#### CERTIFICATIONS

- Type R, Class 3
- Meets ANSI/ISEA 107 Standards

#### SPECIFICATIONS

Product Colors	Hi-Vis Green / Black, Hi-Vis Orange / Black
Product Sizes	M, L, XL, 2XL, 3XL

C&M PART #	MFR PART #	DESCRIPTION	SIZE
10046578MD	ST21B-3PGS-M	Hi-Vis Green / Black	M
10046578LG	ST21B-3PGS-L	Hi-Vis Green / Black	L
10046578XL	ST21B-3PGS-XL	Hi-Vis Green / Black	XL
100465782X	ST21B-3PGS-2X	Hi-Vis Green / Black	2X
100465783X	ST21B-3PGS-3X	Hi-Vis Green / Black	3X
10046595MD	ST21B-3POS-M	Hi-Vis Orange / Black	M
10046595LG	ST21B-3POS-L	Hi-Vis Orange / Black	L
10046595XL	ST21B-3POS-XL	Hi-Vis Orange / Black	XL
100465952X	ST21B-3POS-2X	Hi-Vis Orange / Black	2X
100465953X	ST21B-3POS-3X	Hi-Vis Orange / Black	3X

### TraFFix Devices - Stop / Slow Hand Paddles with 8" Handle



The TraFFix Devices Stop/Slow Paddles are made from strong, non-corrosive material without any sharp edges, measures 18" x 18", and features a 1¼" diameter hardwood handle.

#### FEATURES

- These paddles are made from strong, non-corrosive material without any sharp edges
- Available in reflective and non-reflective surfaces

#### SPECIFICATIONS

Product Application	Construction, General Industrial, Special Events, Traffic Work Zones
Product Material	Aluminum, Wood
Sign Dimensions	18" x 18"
Handle Length	8"

C&M PART #	MFR PART #	DESCRIPTION	SIZE
100876	18018-SS-EG	Engineer Grade Reflective with 8" Wooden Handle	18" x 18"
100878	18018-SS-HI	HI Reflective with 8" Wooden Handle	18" x 18"
100879	18018-SS-NS	No Reflective with 8" Wooden Handle	18" x 18"

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## TrafFix Devices - Stop / Slow 24"x24" Paddles Various Handle Options

The TrafFix Devices 24" x 24" Stop/Slow Paddle with 5' or 6' plastic staff is ideal for all types of construction projects where maximum visibility is required. Sign face is made from durable aluminum and is available in reflective and non-reflective surfaces. The plastic staff with non-skid rubber end cap is detachable for easy storage

### FEATURES

- Paddles are 24" x 24" for maximum visibility
- Made from durable aluminum
- Available in either Non Reflective, Engineer Grade Reflective or High Intensity Reflective

### SPECIFICATIONS

Product Application	Construction, General Industrial, Special Events, Traffic Work Zones
Product Material	Aluminum, Plastic, Rubber
Sign Dimensions	24" x 24"



C&M PART #	MFR PART #	DESCRIPTION	SIZE
100877	18024-SS-EG-5	Engineer Grade Reflective with 5' One Piece Plastic Handle & Boot	24" x 24"
100883	18024-SS-NS5	No Reflective with 5' One Piece Plastic Handle & Boot	24" x 24"
100880	18024-SS-EG6-P	Engineer Grade Reflective with 6' Two Piece Plastic Handle & Boot	24" x 24"
100881	18024-SS-HI6-P	HI Reflective with 6' Two Piece Plastic Handle & Boot	24" x 24"
100882	18024-SS-HI6-T	HI Reflective with 8' Telescoping Handle	24" x 24"

## TrafFix Devices - Vertical Premier Panels

The Premier Panel is an all plastic and rubber vertical panel barricade that is designed to take repeated impacts with little or no damage to the product or to the impacting vehicle. The TrafFix Premier Vertical Panel is designed with a convenient handle which allows for easy movement and placement of the panel. It accepts all standard and "D" cell Barricade Lights and stacks for easy storage and transport.



### FEATURES

- Made in the United States
- High Intensity Sheeting on both sides
- Includes 20 lb. recycled rubber base
- Accommodates one barricade light
- The Premier Panel is available in orange or white polyethylene plastic for the highest visibility in any weather condition
- Stacks for easy storage and transport



## TrafFix Devices Little Buster Sign Stand with One Roll Up Sign Mounting Bracket

The TrafFix Devices Little Buster is a dual spring mounted base for added stability during high winds and new step-n-drop legs enable you to set up in seconds without having to bend over or stood down. It's designed to hold 30", 36" and 48" aluminum or wood signs with its telescoping mast. The optional flag holder will accept standard 3/4" diameter wooden or plastic dowel flags.



### FEATURES

- Designed to hold 30", 36" and 48" aluminum, wood, plastic or roll-up signs
- Telescoping legs independently adjust for uneven terrain
- Telescoping Mast
- Orange powder coated steel
- Dual spring design



### INCLUDES

- Includes one Roll Up Sign bracket to accommodate most roll up signs

### CERTIFICATIONS

- Meets MASH & MUTCD. Compliance with NCHRP-350 Regulations

### SPECIFICATIONS

Product Colors	Black, Orange
Product Material	Powder Coated Steel, Aluminum

C&M PART #	MFR PART #	DESCRIPTION
100874	24018-BRU	Little Buster Sign Stand

### SPECIFICATIONS

Product Collection	TrafFix Premier Panel 40000 Series
Product Color	Orange, White
Product Material	Plastic, Rubber
Product Material Type	Polyethylene, LDPE
Product Type	Vertical Panel

C&M PART #	MFR PART #	DESCRIPTION	COLOR
100900	40236-O-FHIP20	Premier Vertical Panel with HI Sheeting Both Sides (8" x 36") & 20 lb. Base	Orange
100901	40236-W-FHIP20	Premier Vertical Panel with HI Sheeting Both Sides (8" x 36") & 20 lb. Base	White

## Traffix Devices 36in and 48in Reflective Roll-Up Signs



The Traffix Devices Roll-up signs offer full size signage in a lightweight and easy to store design. Choose from 36" x 36" and 48" x 48" sizes, which are available in non-reflective vinyl and reflective vinyl.

### FEATURES

- Signs roll up quickly for easy storage and to protect sign face from damage
- Roll up vinyl signs spill wind, making them more stable than traditional aluminum or wood signs
- Available in non-reflective vinyl for daytime use only or reflective vinyl for use day or night
- Heavy duty frames with plastic corner packets for durability and longevity
- Plastic corner pockets and heavy duty rib set
- Meets MUTCD standards

### INCLUDES

- Includes integrated heavy duty frame / rib set

### CERTIFICATIONS

- Meets MUTCD Standards

### SPECIFICATIONS

Product Colors	Orange
Available in 2 Materials	Standard Reflective Vinyl Non-Reflective Vinyl
Product Weight [36x36]	4 lbs
Product Weight [48x48]	6 lbs

C&M PART #	MFR PART #	DESCRIPTION
<b>36" X 36" REFLECTIVE</b>		
10078301AE	26036-EFO-HF-BPTS	BE PREPARED TO STOP
10078302AE	26036-EFO-HF-FASF	FLAGGER AHEAD SYMBOL FLAG
10078305AE	26036-EFO-HF-RCLA	ROAD CLOSED AHEAD
10078306AE	26036-EFO-HF-RLCA	RIGHT LANE CLOSED AHEAD
10078307AE	26036-EFO-HF-RWA	ROAD WORK AHEAD
10078308AE	26036-EFO-HF-UWA	UTILITY WORK AHEAD
<b>36" X 36" NON-REFLECTIVE</b>		
10079901AE	26036-EV-HF-BPTS	BE PREPARED TO STOP
10079902AE	26036-EV-HF-FASF	FLAGGER AHEAD SYMBOL FLAG
10079905AE	26036-EV-HF-RCLA	ROAD CLOSED AHEAD
10079906AE	26036-EV-HF-RLCA	RIGHT LANE CLOSED AHEAD
10079907AE	26036-EV-HF-RWA	ROAD WORK AHEAD
10079908AE	26036-EV-HF-UWA	UTILITY WORK AHEAD
<b>48" X 48" REFLECTIVE</b>		
10078301AZ	26048-EFO-HF-BPTS	BE PREPARED TO STOP
10078302AZ	26048-EFO-HF-FASF	FLAGGER AHEAD SYMBOL FLAG
10078305AZ	26048-EFO-HF-RCLA	ROAD CLOSED AHEAD
10078306AZ	26048-EFO-HF-RLCA	RIGHT LANE CLOSED AHEAD
10078307AZ	26048-EFO-HF-RWA	ROAD WORK AHEAD
10078308AZ	26048-EFO-HF-UWA	UTILITY WORK AHEAD
<b>48" X 48" NON-REFLECTIVE</b>		
10079901AZ	26048-EV-HF-BPTS	BE PREPARED TO STOP
10079902AZ	26048-EV-HF-FASF	FLAGGER AHEAD SYMBOL FLAG
10079905AZ	26048-EV-HF-RCLA	ROAD CLOSED AHEAD
10079906AZ	26048-EV-HF-RLCA	RIGHT LANE CLOSED AHEAD
10079907AZ	26048-EV-HF-RWA	ROAD WORK AHEAD
10079908AZ	26048-EV-HF-UWA	UTILITY WORK AHEAD

## TrafFix Devices - Type I & II Barricades



TrafFix Devices 35000 Series barricades feature metal legs with high-impact (blow molded) panels. Now you can combine the strength of impact-resistant plastic panels with traditional metal legs. These barricade components come together to form a more durable folding barricade.

### FEATURES

- Made in the United States
- Durable impact-resistant plastic panels
- Panels are recessed to protect reflective sheeting
- Panels are reinforced to increase stiffness and reduce bending or warping
- Impact-resistant blow-molded panels do not rot and break like traditional wood panels
- Steel legs available in white Painted or Galvanized finish
- NCHRP 350 accepted with standard or "D" cell barricade lights

### CERTIFICATIONS

- MUTCD Compliant, NCHRP 350 accepted

### SPECIFICATIONS

Product Height	42"
Product Width	24"
Product Material	Metal, Plastic
Leg Thickness	14 gauge

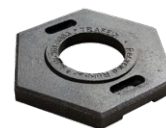
C&M PART #	MFR PART #	DESCRIPTION
100746	35208-EG14G	Type I Folding Barricade 14g Steel Legs / Plastic Panels Two 8x24 Top EG Sheeting & Two 6x24 Bottom Unsheeted
100747	35408-EG14G	Type II Folding Barricade 14g Steel Legs / Plastic Panels Two 8x24 Top EG Sheeting & Two 8x24 Bottom EG Sheeting

## TrafFix Devices Stackable Looper Cones

The TrafFix Devices Looper-Cones come in height of 42" and are ballasted by 16 lb. or 30 lb. recycled rubber bases. Simply drop the recycled rubber base over the cone stem, and you're ready to go to work. The stem of the Looper-Cone is made of flexible yet durable fluorescent low density polyethylene material, with UV inhibitors to minimize fading.



100761 100762



100757



### FEATURES

- Bright orange color molded throughout
- UV inhibitors to minimize fading
- Stackable for storage and transport
- Available with various size and types of reflective sheeting
- Bases will not be crushed when run over
- Channelize or delineate traffic
- Barricade construction work zones
- \*\*\* Bases are sold separately

### CERTIFICATIONS

- MUTCD Compliant & NCHRP 350 Approved

### SPECIFICATIONS

Product Application	Construction, General Industrial, Special Events, Traffic Work Zones
Product Collection	46000 Series

C&M PART #	MFR PART #	DESCRIPTION
<b>LOOPER CONES</b>		
100761	46164-CHIP	42" Looper Cone with 1 x 6" and 1 x 4" White HI Collars NO BASE
100762	46266-CHIP	42" Looper Cone with 4 x 6" OWOW HI Collars NO BASE
<b>BASES</b>		
100757	42016-CRU	Recycled Rubber Looper or Grabber Cone Base 16 Lbs.
100758	42030-CRU	Recycled Rubber Looper or Grabber Cone Base 30 Lbs.

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100745	2006	3V LED Heavy Duty Barricade Light. D Cell with Photocell. 3 Way Switch
100753	15046-CBYB	Cone Bar 4'-6' Adjustable Yellow / Black Reflective
100754	150610A-CBOW	Cone Bar 6'-10' Adjustable White / Orange Reflective

## TraFFix Devices - VizCon Enviro-Cones

The TraFFix Devices Enviro-Cone is the future of traffic cones: MUTCD Compliant, 80% recycled by weight and can easily be recycled again if the cone is damaged or destroyed. This saves you money and helps to keep more plastic from entering our landfills. The Enviro-Cone is manufactured from low density polyethylene, providing superior cold weather performance and increasing the life span of the Enviro-Cone compared to traditional PVC cones. This cone also provides long-term durability with excellent color retention through the use of UV stabilizers and low density polyethylene plastic.

### FEATURES

- Manufactured from low density polyethylene to provide superior cold weather performance and increased lifespan compared to traditional PVC cones
- No cracking or breaking down to -25°F
- The Easy Grip Groove provides excellent “gription” for quick deployment and retrieval
- Quality 3M Reflective collars assure superior performance in low light and nighttime conditions
- Enviro-Cone provides long-term durability
- Ultraviolet stabilizers and low density polyethylene (LDPE) help color retention and to increase the life of the product
- With nearly 80% of the weight in the base, the Enviro-Cone is more stable than traditional 7lb. or 10 lb. PVC cones
- Made in the United States of LDPE & Recycled Rubber

### CERTIFICATIONS

- MUTCD Compliant

### SPECIFICATIONS

Product Application	Construction, First Responders, General Industrial, Special Events, Traffic Work Zones
Product Material	Plastic, Rubber
Product Material Type	LDPE
Product Collection	Enviro-Cone



C&M PART #	MFR PART #	DESCRIPTION
100884	16018-HIWB-3	Enviro Cone 18" / 3 Lbs. with One Collar
100885	16018-L-HIWB-3	Enviro Cone Lime 18" / 3 Lbs. with One Collar
100886	16018-NSWB-3	Enviro Cone 18" / 3 Lbs. Plain
100889	16028-HIWB-7	Enviro Cone 28" / 7Lbs. with Two Collars
100890	16028-L-HIWB-7	Enviro Cone Lime 28" / 7Lbs. with Two Collars
100892	16028-NSWB-7	Enviro Cone 28" / 7 Lbs. Plain
100887	16028-HISL-10	Enviro Cone 28" / 10 Lbs. Slim Line with Two Collars
100888	16028-HIWB-10	Enviro Cone 28" / 10 Lbs. with Two Collars
100891	16028-NSWB-10	Enviro Cone 28" / 10 Lbs. Plain
100893	16036-HIWB-10	Enviro Cone 36" / 10 Lbs. with Two Collars
100896	16036-L-HIWB-10	Enviro Cone Lime 36" / 10 Lbs. with Two Collars
100897	16036-NSWB-10	Enviro Cone 36" / 10 Lbs. Plain
100894	16036-HIWB-12	Enviro Cone 36" / 12 Lbs. with Two Collars
100898	16036-NSWB-12	Enviro Cone 36" / 12 Lbs. Plain

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100753	15046-CBYB	Cone Bar 4'-6' Adjustable Yellow / Black Reflective
100754	150610A-CBOW	Cone Bar 6'-10' Adjustable White / Orange Reflective

## TraFFix Devices Retractable Cone Bars

The TraFFix Devices Retractable Cone Bars improve safety in your work zone by creating a visual and physical pedestrian barrier and a series of delineators or cones from TraFFix Devices. The retractable bar is made of durable ABS plastic and wrapped in reflective sheeting for night-time visibility. Each end of the retractable bar has a rugged 3-1/4" loop that easily drops over any traffic cones or delineator posts.



### FEATURES

- Improve safety in your work zone by creating a visual and physical pedestrian barrier with the retractable cone bar
- Engineer grade reflective sheeting standard
- Rugged 3-1/4" loop easily drops over traffic cones or delineator posts
- Reflective sheeting applied to bar for night-time visibility
- Lightweight and portable; easy to carry, setup and store
- 6' model extends from 53" to 87" in length
- 10' model extends from 72" to 127" in length

### SPECIFICATIONS

Product Application	Construction, General Industrial, Special Events, Traffic Work Zones
Product Color	Yellow, Black and Orange, White
Product Material	Plastic
Product Material Type	ABS

C&M PART #	MFR PART #	ADJUSTABLE SIZE (FT)	COLOR
100753	15046-CBYB	4-6	Yellow / Black Reflective
100754	150610A-CBOW	6-10	White / Orange Reflective



# NEED HELP FINDING AN ITEM?



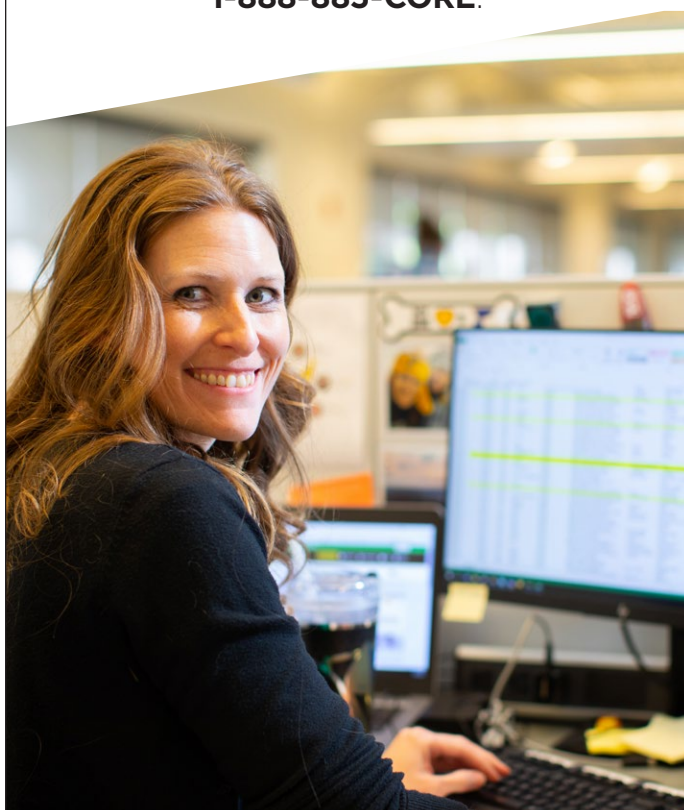
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## TrafFix Devices Grabber Tubes

The TrafFix Devices Grabber-Tube comes in 42" height and are ballasted by 12 lb. and 18lb. recycled rubber bases. Simply drop the recycled rubber base over the tube stem, and you're ready to go to work. The innovative handle design enables you to easily move, set, drag or lift the Grabber-Tube off the truck and into the field.

### FEATURES

- Bright orange color molded throughout
- UV inhibitors to minimize fading
- Grabber handle patented design allows for easy movement
- Bases will not crush when run over
- Channelize or delineate traffic
- Barricade construction work zones
- Vehicular or pedestrian traffic control
- \*\*\* Bases are sold separately

### CERTIFICATIONS

- MUTCD Compliant & NCHRP 350 Approved

### SPECIFICATIONS

Product Application	Construction, General Industrial, Special Events, Traffic Work Zones
Product Collection	42000 Series

C&M PART #	MFR PART #	DESCRIPTION
<b>LOOPER CONES</b>		
100759	42133-TSO-HIP	42" Grabber Tube with 2 x 3" White HI Collars NO BASE
<b>BASES</b>		
100755	42000-TB12	Recycled Rubber Looper or Grabber Tube Base 12 lbs.
100756	42000-TB18	Recycled Rubber Looper or Grabber Tube Base 18 lbs.

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
100753	15046-CBYB	Cone Bar 4'-6' Adjustable Yellow / Black Reflective
100754	150610A-CBOW	Cone Bar 6'-10' Adjustable White / Orange Reflective



100759



100755





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## Trumbull Telescoping Main Valve Key, 6'-10' Length

The Trumbull Telescoping Main Valve key is adjustable to reach valve depths up to 10' and fits 2" square operating nut.

### FEATURES

- Telescoping main valve key
- Adjustable to fit valve depths of 6' to 10'
- Adjustable in one foot increments with wire lock pin
- Steel socket cast with open top mud relief
- Socket fits 2" square operating nut



### SPECIFICATIONS

Product Dimensions (ft)	6 to 10
Product Weight (lbs)	38.5

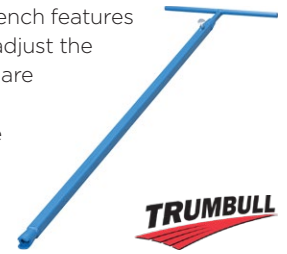
C&M PART #	MFR PART #	DESCRIPTION
101503	367-5129	Trumbull Telescoping Main Valve Key, 6'-10' Length

## Trumbull Telescoping Curb Box Wrench

The Trumbull Telescoping Curb Box Wrench features a unique design that allows the user to adjust the length of the tool. On the wrench, there are no holes to line up with or pin to insert. A spring-loaded roller ball allows for the correct amount of friction on the inner square tubing to provide the correct position length.

### FEATURES

- Available in two size ranges
- Thumb screw allows for infinitely variable adjustment within the size range of each model
- Inner shaft is 1/2" solid square rod
- Outer shaft is 5/8" square tubing
- Combination socket bottom casting



### SPECIFICATIONS

Handle Length (in)	18
--------------------	----

C&M PART #	MFR PART #	LENGTH RANGE (FT)	WEIGHT (LBS)
101443	367-4370	4-8	4
101444	367-4371	6-10	10

## Pipeline Products SW-636B - Sectional gate valve wrench kit with carry bag



The Pipeline Products SW-636B - Sectional gate valve wrench kit with carry bag is a complete snap-together wrench for 2" AWWA gate valve operation nuts.

### FEATURES

- Can be assembled to an overall length of 36", 69", or 102"
- Flank drive on connectors - No loading on pins
- 1-1/4" heavy-wall, steel-box tubing
- 30" long x 1-1/4" round handles
- Sealed lower shaft section with mud venting socket
- Durable red powder-coat finish
- Parts included in this assembly are (1) SW-636H, (2) SW-636E, (1) SW-636D
- Includes an easy-carry bag made of tough red vinyl

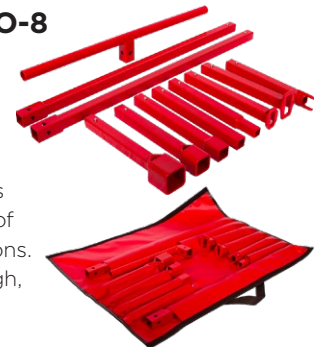
### SPECIFICATIONS

Product Dimensions	6.5 x 6.5 x 40.5 inch
Product Weight	25 pounds

C&M PART #	MFR PART #	DESCRIPTION
101403	SW-636B	SW-636B - Sectional gate valve wrench kit with carry bag

## Pipeline Products COMBO-8 kit with carrying bag

The Pipeline Products COMBO-8 in an eight-socket combo, snap-together, 45" or 78" wrench system for a wide variety of valves. With this kit, you always have a complete set of valve tools to handle most applications. This set comes complete with a tough, reinforced vinyl carrying bag.



### FEATURES

- Can snap together 45" or 78"
- Flank drive on connectors with no loading on pins
- 1-1/4" heavy-wall, steel-box tubing
- 30" long x 1-1/4" round handles
- Durable red powder-coat finish
- Includes tough reinforced vinyl carrying bag

### INCLUDES

- 1 - 30" long handle section, 2 - 33" long shaft sections, 8 - 12" long socket extensions

### SPECIFICATIONS

Product Dimensions (in)	6.75 x 6.75 x 40.75
Product Weight (lbs)	40

C&M PART #	MFR PART #	DESCRIPTION
101356	COMBO-8	COMBO-8 - 8 socket combo wrench set with bag

### Trumbull Valve & Curb Key Kit

The Trumbull Valve Key Kit and Adapters operate main valves, curb and meter stops, and a variety of curb box rods and lids. This tool collapses to compact length for convenient storage in utility vehicles. A Carrying case is included.



**INCLUDES**

- Socket for 2" AWWA Nut
- Tee handle (Doubles as 20" extension)
- Multi-purpose adapter
- Carrying case
- 3-1/2' extension
- Eerie/ Minneapolis adapter
- Handwheel adapter
- 2-Hole lid adapter
- Cleanout auger

**SPECIFICATIONS**

Weight (lbs)	20.65
Retracted Length (ft)	4'1"
Extended Length (ft)	7'7"

C&M PART #	MFR PART #	DESCRIPTION
101445	367-9100	Valve and Curb Box Key Kit

### Pipeline Products Curb Stop Wrenches

The Pipeline Products Standard Curb Stop Wrenches offer three wrench options: the CS 300-3 in 1" & 3/4"; the CS-320-3 in 1-1/2" & 2"; and the CS-300 Universal. All options are 36" long. These tools are an excellent tool for a meter service truck.



**FEATURES**

- Excellent tool for a meter service truck
- 16" x 1 1/4" O.D. T-handle
- 36" overall length
- Features full diameter socket with no spreading fork
- Durable red powder coat finish

CS-300-3: Curb stop wrench - 1" & 3/4" - 36" long  
 • 5/8-" x 1 3/4" socket

CS-320-3: Curb stop wrench - 1-1/2" & 2" - 36" long  
 • 1" x 2-3/8" socket

CS-330: Curb stop wrench - Universal - 36" long  
 • Machined 3/4" x 2" socket

C&M PART #	MFR PART #	DESCRIPTION
101360	CS-310-3	CS-310-3 - Curb stop wrench - 1" & 3/4" - 36" long
101363	CS-320-3	CS-320-3 - Curb stop wrench - 1-1/2" & 2" - 36" long
101365	CS-330	CS-330 - Curb stop wrench - Universal - 36" long

### Rhino Manhole Lid Extractor / Sledge Hammers

The Jake and Mary A is a manhole cover, inlet cover, or grate extractor used for manhole or storm inlet inspections and systems maintenance. The combination sledge hammer and pick/pry bar eliminates the need to carry two tools.



**FEATURES**

- Cast steel head helps break frozen covers or grates loose very quickly where they may be removed
- The smooth pick is constructed to virtually open any manhole cover
- Serrated edge strengthens pick-end and eliminates possibility of tool becoming bottle necked in the pick bars, pick holes or grate slots
- Heat-treated cast steel head, handle is constructed of sturdy Nupla® fiberglass with ribbed hand grip

C&M PART #	MFR PART #	DESCRIPTION
104856	Mary A	Rhino Mary A 12lb, Manhole Lid Extractor/ Sledge Hammer
104857	Jake	Rhino Jake 8lb Manhole Lid Extractor/Sledge Hammer

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### Trumbull Model HK-0 Pentagon Hand Key



The Trumbull Model HK-0 fits standard pentagon heads and makes it easy to remove the lid of a meter box.

#### FEATURES

- The socket cavity retains the head during removal, for ease in lifting the lid of a meter box from the frame
- The convenient hammer and pick ends assist in breaking ice and clearing debris
- A square shank is provided on the socket for applying extra torque

#### SPECIFICATIONS

Product Weight	0.85 pounds
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C&M PART #	MFR PART #	DESCRIPTION
101459	367-4298	Model HK-0 Pentagon Key

### Trumbull Model HK-2 Pentagon Hand Key



The Trumbull Model HK-2 has two pentagon sockets, plus a tapered-end prying blade. This tool is designed to operate the T-head of curb and meter stops.

#### FEATURES

- Socket 1 fits standard pentagon heads, and has a slot to operate T-head of curb and meter stops
- Socket 2 fits large pentagon heads
- Both sockets have cavities to retain the pentagon head during removal, for ease in lifting the lid of a meter box from the frame
- The tapered blade end is designed for prying, or for use as a chisel

#### SPECIFICATIONS

Product Weight	0.90 pounds
----------------	-------------

C&M PART #	MFR PART #	DESCRIPTION
101458	367-4332	Model HK-2 Pentagon Key

### Trumbull Model HK-1 Pentagon Hand Key



The Trumbull HK-01 fits standard pentagon heads.

#### FEATURES

- Slot in socket operates T-heads of curb and meter stops
- The socket cavity also retains the head during removal, for ease in lifting the lid of a meter box from the frame
- The T-handle has a blunt rounded end for pounding, and a curved, tapered end to assist in breaking ice and clearing debris

#### SPECIFICATIONS

Product Weight	0.60 pounds
----------------	-------------

C&M PART #	MFR PART #	DESCRIPTION
101460	367-4331	Model HK-1 Pentagon Key

### Trumbull Model HK-3 Pentagon Hand Key

The Trumbull HK-3 has three pentagon sockets, plus a tapered-end prying blade. This tool is designed to use with curb stops and meter boxes.



#### FEATURES

- Socket 1 fits standard pentagon heads, and has a head retention cavity
- Includes a slot to operate T-heads of curb and meter stops
- Two sockets both fit the 1-1/16" pentagon head used on Mueller meter boxes
- Socket 2 has the external lug which engages the lid recess
- Socket 3 has the head-retention cavity to retain the pentagon head during removal; the other socket has the external lug which engages the lid recess
- The tapered blade end is designed for prying, or for use as a chisel

#### SPECIFICATIONS

Product Weight	1.00 Pounds
----------------	-------------

C&M PART #	MFR PART #	DESCRIPTION
101461	367-4333	Model HK-2 Pentagon Key

### Trumbull Valve & Curb Box Cleaners

The Trumbull Valve & Curb Box Cleaners are heavy-duty tools designed for cleaning out 2-1/2" and 3" Buffalo curb boxes as well as 4-1/4" and 5-1/4" Buffalo valve boxes, without excavation. These are used when valve and curb boxes frequently get filled with dirt, stones and other foreign objects that prevent keys from accessing valves or curb stops. Replacement jaw kits can easily be installed in the field and the Trumbull replacement jaws can be interchanged on tools of other popular manufacturers.



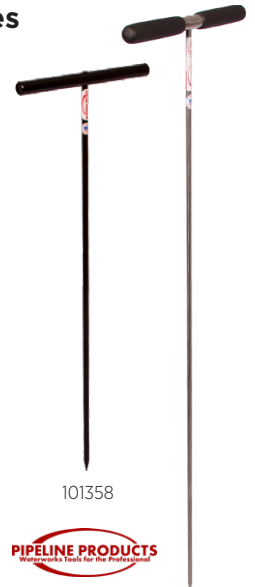
**FEATURES**

- Heavy-duty tool design
- Supports cleaning out 2-1/2" and 3" Buffalo curb boxes
- Supports 4-1/4" & 5-1/4" Buffalo valve boxes, without excavation
- Carbon steel jaws avoid breakage associated with cast iron jaws
- Designed for long life and abusive handling
- Jaw design prevents over-opening and disengagement

C&M PART #	MFR PART #	JAW TYPE	LENGTH (FT)
101485	367-9151	Standard	6
101486	367-9152	Standard	7
101487	367-9153	Standard	8
101488	367-9155	Standard	10
101489	367-9157	Standard	12
101490	367-9171	Scoop	6
101491	367-9172	Scoop	7
101492	367-9173	Scoop	8
101493	367-9175	Scoop	10
101494	367-9177	Scoop	12

### Pipeline Products Steel Probes

The Pipeline Products Steel Probes are a great soil probe for feeling for proper compaction when back filling trenches. The Steel Probes are available in both 3' and 4' lengths.



**FEATURES**

- CP-300 - Steel compaction probe**
- Used to feel for proper compaction when back filling trenches
  - 36" overall length
  - 1/2" thick steel shaft
  - Durable black powder coat finish
- SSP-400 - Stainless steel soil probe**
- 48" overall length
  - Stainless steel material
  - Vinyl rubber hand grips
  - TIG welded handle for durability

**SPECIFICATIONS**

CP- 300 Product Dim. (in)	36 × 16.5 × 2
SSP-400 Product Dim. (in)	7 × 13 × 49
CP-300 Product Weight (lbs)	5
SSP-400 Product Weight (lbs)	6

C&M PART #	MFR PART #	DESCRIPTION
101358	CP-300	CP-300 - Steel compaction probe - 36" - Black
101396	SSP-400	SSP-400 - 4' long stainless steel soil probe

### Pipeline Products Manhole Lid Lifters

The Pipeline Products Manhole Lid Lifters are a simple yet effective tool for prying open and removing manhole covers. The MH-100 supports 1/2" diameter lids and MH-200 supports 5/8" diameter lids.



**FEATURES**

- A simple yet effective tool for prying open and removing manhole covers
- Made from cold-formed 1018 solid rod
- Durable red powder coat finish
- MH-100: Manhole cover hook - 1/2" diameter by 27" long
- MH-200: Manhole cover hook - 5/8" diameter by 27" long

**SPECIFICATIONS**

Size (in)	2 × 7 × 28
MH-100 Product Weight (lbs)	3
MH-200 Product Weight (lbs)	4

C&M PART #	MFR PART #	DESCRIPTION
101374	MH-100	MH-100 - Manhole lid lifter - 1/2" diameter x 27"
101375	MH-200	MH-200 - Manhole lid lifter - 5/8" diameter x 27"

## Wheeler-Rex Model 2990-8 Hydraulic Pipe Cutters

The Wheeler-Rex Hydraulic Cutters are the solution to cutting larger diameter cast iron, tile and concrete pipe. Like the hand-operated "snap" cutters, these hydraulic cutters are not rotated around pipe. Their remotely-operated hydraulic pumps provide the required power.



### FEATURES

- Safe solution for cutting most larger diameter pipes
- Utilizes the "squeeze and pop" method
- Only 2" to 3" minimum clearance required to wrap chain around pipe
- Cuts 2" to 8" soil pipe, XH soil pipe, tile, and clay
- Cuts 2" to 6" Class 22 cast iron
- Remote hydraulic pump for ease and safety

### INCLUDES

- Hydraulic hand pump, 10' high pressure hose and case

### SPECIFICATIONS

Adjustable	Yes
Cutting Applications	2" to 8" Service Wt Soil Pipe 2" to 8" XH Soil Pipe 2" to 8" Tile / Clay Pipe 2" to 6" CI Water Main ASA Class 22
Weight (lbs)	87

C&M PART #	MFR PART #	DESCRIPTION
101908	29908	Hydraulic Chain-Style Pipe Cutter for 2"-8" Cast Iron/Tile/Clay

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
101687	3801	Hydroyl Hydraulic Pump Fluid 1 Quart
101688	3804	Hydroyl Hydraulic Pump Fluid 1 Gallon

## Wheeler-Rex Model 3890-12 Hydraulic Pipe Cutters

The Wheeler-Rex Hydraulic Cutters are the solution to cutting larger diameter cast iron, tile and concrete pipe. Like the hand operated "snap" cutters, these hydraulic cutters are not rotated around pipe. Their remotely-operated hydraulic pumps provide the required power.



### FEATURES

- Safe solution for cutting most larger diameter pipes
- Utilizes the "squeeze and pop" method
- Remote hydraulic pump for ease and safety
- Only 2" to 3" minimum clearance required to wrap chain around pipe
- Remote hydraulic pump for ease and safety

### INCLUDES

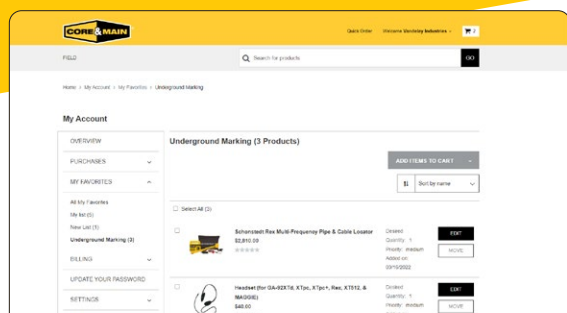
- Hydraulic hand pump, hose and case

### SPECIFICATIONS

Adjustable	Yes
Cutting Applications	4" to 12" Service Wt Soil Pipe 4" to 12" XH Soil Pipe 4" to 12" Tile and Concrete 4" to 12" CI Water Main ASA Class 22 4" to 10" CI Water Main ASA Class 26
Weight (lbs)	152

C&M PART #	MFR PART #	DESCRIPTION
102053	389012	Hydraulic Chain-Style Pipe Cutter for 4"-12" Cast Iron/Tile/Concrete

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### Wheeler-Rex 490 Ratchet Pipe Cutters

The Wheeler-Rex chain type pipe cutters are made specifically for fast cutting of tile, cast iron and concrete pipe. The cutter chain is wrapped around the pipe and engaged in the cutter jaws, which are then actuated by a ratchet wrench. Chain cutters are not affected by dirt and sand and require a minimal amount of space to operate.



**FEATURES**

- 1-1/2" to 6" Service Wt Soil Pipe
- 1-1/2" to 5" XH Soil Pipe
- 1-1/2" to 6" No Hub Pipe
- 4" to 6" Tile and Clay Pipe

**INCLUDES**

- 1/2" square drive ratchet

C&M PART #	MFR PART #	CAST IRON SIZE (IN)	TILE/CLAY SIZE (IN)	CAPACITY
101730	4906	1-1/2 - 6	4-6	1 1/2 to 6" STD or 5" XH Soil Pipe; No-Hub & Tile
101731	4908	1-1/2 - 8	4-8	1 1/2 to 6" STD or 5" XH Soil Pipe; 8" No-Hub & Tile
101946	49010	1-1/2 - 6	4-10	1 1/2 to 6" STD or 5" XH Soil Pipe; 8" No-Hub & 10" Tile
101947	49012	1-1/2 - 6	4-12	1 1/2 to 6" STD or 5" XH Soil Pipe; 8" No-Hub & 12" Tile
101948	49015	1-1/2 - 6	4-15	1 1/2 to 6" STD or 5" XH Soil Pipe; 8" No-Hub & 15" Tile

### Wheeler-Rex Model 5590-18 Hydraulic Pipe Cutters

Wheeler-Rex Hydraulic Cutters are the solution to cutting larger diameter cast iron, tile and concrete pipe. Like the hand operated "snap" cutters, hydraulic cutters are not rotated around pipe. Their remotely operated hydraulic pumps provide the required power.



**FEATURES**

- Safe solution for cutting larger diameter cast iron, tile and concrete pipe
- Utilizes the "squeeze and pop" method
- Remote hydraulic pump for ease and safety
- Only 2" to 3" minimum clearance required to wrap chain around pipe
- Remote hydraulic pump for ease and safety

**SPECIFICATIONS**

Adjustable	Yes
Cutting Applications	6" to 18" Service Wt Soil Pipe 6" to 18" XH Soil Pipe 6" to 18" Tile and Concrete 6" to 18" CI Water Main ASA Class 22 6" to 18" CI Water Main ASA Class 26
Product Weight	200 lbs

C&M PART #	MFR PART #	DESCRIPTION
102071	559018	Hydraulic Chain-Style Pipe Cutter for 6"-18" Cast Iron/Tile/Concrete

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
101687	3801	Hydroyl Hydraulic Pump Fluid 1 Quart
101688	3804	Hydroyl Hydraulic Pump Fluid 1 Gallon

### Trumbull Double Socket Ratchet Wrenches

Trumbull's heavy-duty Double Socket Ratchet Wrenches can tighten nuts on long bolts or all-thread rod without bottoming out and have a simple lever-operated reverse feature.



**FEATURES**

- Color-coded grips are cushioned and ergonomically contoured for comfortable use
- Heavy-duty Ratchet Mechanism is sandwiched between steel plates for strength and protection

**INCLUDES**

- One 1-1/4" x 1-1/16" Wrench
- One 1-1/8" x 15/16" Wrench
- One 7/8" x 3/4" Wrench
- One Outside Diameter Tape
- Sturdy Carrying Case

C&M PART #	MFR PART #	DESCRIPTION
101462	364-9986	Double Socket Ratchet Wrench, 3 Wrench & OD Tape in Carrying Case

**ACCESSORIES**

C&M PART #	MFR PART #	COLOR	LARGE SOCKET SIZE (IN)	SMALL SOCKET SIZE (IN)
<b>INDIVIDUAL WRENCHES</b>				
101463	364-9982	Blue	1 1/4	11/16
101464	364-9985	Green	1 1/8	15/16
101465	364-9983	Yellow	7/8	3/4



## Wheeler-Rex Deep Sockets for Repair Clamps



101636



Wheeler-Rex Heavy Duty Deep Sockets are designed for tightening hex nuts on repair clamps, mechanical joint fittings and saddles. Featuring large diameter barrels that enable fast and easy hand tightening, Wheeler-Rex Deep Sockets can be operated with any 1/2" square drive manual or impact wrench.

### FEATURES

- Designed for tightening hex nuts on repair clamps, mechanical joint fittings and saddles
- Large diameter barrels make fast hand tightening easy
- Operates with any 1/2" drive manual or impact wrench
- Includes manual ratchet and case

### INCLUDES

- Deep Sockets
- Tool Box
- Ratchet Wrench

C&M PART #	MFR PART #	DESCRIPTION
101630	961	Kit - 980,981,982,983 (15/16", 1-1/16", 1-1/4", 1-1/8")
101635	966	Kit - 978,979,980,981 (3/4", 7/8", 15/16", 1-1/16")
101636	967	Kit - 978 Thru 987
101637	968	Kit - 978 Thru 983

### ACCESSORIES

C&M PART #	MFR PART #	SIZE (IN)
<b>INDIVIDUAL SIX POINT DEEP SOCKETS</b>		
101638	978	3/4
101639	979	7/8
101640	980	15/16
101642	982	1-1/4
101643	983	1-1/8
101644	984	1-5/16
101645	985	1-7/16
101647	987	1-1/2
101641	981	1-1/16
101646	986	1

## Reed Thru Bolt 4-in-1 Ratchet Wrenches



REED L4N1 Thru-Bolt™ Ratchet Wrenches feature four sockets on one wrench in a popular dog bone configuration. Use just one tool to work on mechanical joints and restraints, repair clamps, service saddles, gas/water couplings, flange bolts, friction clamps, hydrant break flanges and some bonnet bolts. Additionally, tightening nuts on long bolts or all-thread rod is never a problem with REED Thru-Bolt™. Sockets work by letting the bolt pass completely through the socket and arm head so nuts can be worked on any threaded length.

### FEATURES

- Carry one wrench for all your jobs
- Sockets are designed to stay on the handle, meaning no loose sockets
- Rugged grip handle construction for a secure hold
- Four sockets are mounted permanently on one wrench
- Thru-bolt sockets replace the need for separate regular and deep sockets
- The length and design of the handle provide maximum leverage
- Made in the United States

### SPECIFICATIONS

Socket Sizes (in)	1-1/4, 1-1/8, 1-1/16 and 15/16
Handle	Ergonomic Grip
Capacity (ft-lbs)	200
Weight (lbs)	2.5
Length (in)	17
Socket Center to Socket Center (in)	15
Handle Thickness (in)	0.5
Head Diameter (in)	2.1
Socket Extension:	1-1/4" & 1-1/8" = 0.75" 1-1/16" & 15/16" = 0.5"

C&M PART #	MFR PART #	DESCRIPTION
103388	02690	Reed Thru-Bolt 4-In-1 Ratchet Wrench

## Reed Aluminum Valve Wrenches



Reed Valve Wheel Wrenches grip the rims of hand valve wheels securely and provide leverage for opening and closing. Valve wheel wrenches are the solution for handling hard-to-open valves. Choose a wrench based on the hook opening. OSHA inspectors can assess penalties for using a pipe wrench on a valve wheel rim as wrench teeth can leave sharp burrs on the wheel rim, which result in hand injuries.

### FEATURES

- Valve wheel wrenches are the solution for handling hard-to-open valves
- Hook works without gouging the wheel rim, which creates burrs leading to hand injuries
- Designed to apply torque needed for valve-turning, over long periods of time
- Aluminum-magnesium alloy casting for low spark potential
- Safety feature of Reed design warns user of potential overload; wrench bends before it breaks
- Grip the rims of hand valve wheels securely and provide leverage for opening and closing

### SPECIFICATIONS

Style	Single-End
Material	Aluminum
02851 - Hook Opening (in)	1-3/8
02851 - Length (in)	14
02851 - Weight (lbs)	2.2
02852 - Hook Opening (in)	1-3/4
02852 - Length (in)	18
02852 - Weight (lbs)	4

C&M PART #	MFR PART #	LENGTH (IN)
103390	02851	14
103391	02852	18

## Reed Cordless Power Drive Valve Operator



Lightweight yet powerful, the REED Cordless Power Drive Valve Operator is designed for waterworks use. Power drive unit adapts to drilling and tapping machines or attaches to exercise valves. Weighing about 15 pounds, the power drive for waterworks applications is easy to handle and provides impressive torque. Add REED utility clutch (05287) for valve work. For pipe tapping, add the REED tapping machine adapter #103582 (08430) to connect REED and other common tapping or drilling machines.

### FEATURES

- With a change of the drophead, power drive adapts for tapping/drilling or valve turning
- Provides plentiful torque without all the weight – just 15 pounds (6.8 kg)
- Battery power which means no pneumatic or electric drop lines
- Power switch has locking position, but stops almost immediately when released
- Convenient carrying handle offers support for valve turning
- Power source is Bosch® angle grinder. User to provide 18V Bosch® battery, sold separately
- Motor power kick-off feature provides added operator safety
- Compact unit fits easily into ditches
- Cordless equals safety as no power cords or air lines are needed; eliminating tangles in tight spaces

### SPECIFICATIONS

Power	18V Bosch® Battery
Power Type	Cordless
Weight (lbs)	15

C&M PART #	MFR PART #	DESCRIPTION
103473	05258	18V Cordless Power Drive Valve Operator

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
103580	05295	Cordless Power Drive Digital Counter
103581	92339	Valve Key Lower Shaft w/ 2" key
103523	92344	Valve Key, Pivot Head Lower Shaft 2"
103524	92358	Valve Key Extension Shaft, Plated
103582	08430	Power Drive Adapter
103583	98185	Bosch 4AH battery, 18V
103584	98187	Bosch 18V battery charger
103585	98197	Bosch 8AH batter, 18V

## Wheeler Rex Plastic Pipe Bevelers

The Wheeler-Rex Universal Plastic Pipe Beveler makes a 15-degree bevel on SDR35 and Sch 40 thermoplastic pipe through 12" (300mm) capacity. It is lightweight and easy to adjust to different wall thicknesses for beveling and deburring. The wide saddle won't twist and dig into the pipe like other products.



### FEATURES

- 1-1/2" - 12" capacity
- Makes a 15 degree bevel on SDR35 and schedule 40 thermoplastic pipe
- Easily adjusts to different wall thicknesses
- Wide saddle prevents twisting and digging into the pipe

### SPECIFICATIONS

Diameter Capacity (in)	1-1/2 to 12
Weight (lbs)	5
Tool Type	Beveler

C&M PART #	MFR PART #	DESCRIPTION
101871	9015	Hand Operated Plastic Pipe Beveler

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
102036	220083	Replacement Blade for 9015 Pipe Beveler

## US Saws Bevel Buddy Assembly Package

The U.S. Saws Bevel Buddy is an all-in-one solution for working with PVC pipe. This is one of the only tools in the industry that provides a quick, easy and safe way to bevel plastic pipe. Use this cordless beveling system to bevel pipe faster than would be possible with simple hand tools.



### FEATURES

- Faster than hand saws
- Quick, easy and safe way to bevel plastic pipe
- Beveller is adjustable for all sizes of pipe
- Unique handle for working in a trench
- Lightweight for secure handling in trenches

## Reed Copper Tubing C Cutters

The Copper Tubing C Cutter is an easy-to-grip cutter that easily snaps on to copper tubing for a quick, clean cut. Just turn the cutter in the direction of the arrow and the cut will be complete in seconds. Compact c-shape means no handle swing space is required. The spring-loaded cutter wheel self-feeds on Type K, L, and M copper and CTS CPVC with consistent pressure as the tool is turned around the tubing.



### FEATURES

- Compact c-shape means no handle swing space is required
- Spring-loaded cutter self-feeds on copper and CTS CPVC
- Easy-to-grip cutter easily snaps on to copper tubing for a quick, clean cut
- Turn the cutter in the direction of the arrow and the cut will be complete in seconds
- Consistent pressure is maintained as the tool is turned manually around the tubing
- Each cutter fits just one popular size of copper tubing

### SPECIFICATIONS

Application	Copper, CPVC
Weight (lbs)	0.5

C&M PART #	MFR PART #	DESCRIPTION
103404	03413	3/4" OD Capacity
103405	03414	1" OD Capacity

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
103402	03375	Cutter Replacement Wheel

### INCLUDES

- 110V battery charger, 2 batteries, carry case and 16 flute beveller

### SPECIFICATIONS

Beveller	16 Flute
Battery	20V DeWalt
Unit Weight (lbs)	22

C&M PART #	MFR PART #	DESCRIPTION
101569	US26559	Bevel Buddy Assembly

### US Saws Sewer Buddy Assembly Package

The U.S. Saw Sewer Buddy is your all-in-one solution for working with sewer pipe. This is one of the only tools in the industry that provides a quick, easy and safe way to bevel plastic pipe. Cut and bevel pipe faster and easier than with these separate hand tools.



**U.S.SAWS™**

**FEATURES**

- Faster than hand saws
- Battery operated
- Beveller is adjustable for all sizes of pipe
- Beveller is adjustable for 6" - 12" sizes of unique pipe handle for working in a trench
- Lightweight for secure handling in trenches

**INCLUDES**

- 20V DeWalt Grinder, 11V charger, 4.5" Tiger Tooth Blade, 16 Flute Beveller, 2 catteries, carrying case and wrenches

**SPECIFICATIONS**

Beveller	16 Flute
Battery	20V DeWalt
Blade	4.5" Tiger Tooth
Weight (lbs)	22

C&M PART #	MFR PART #	DESCRIPTION
101568	US26550	Sewer Buddy Assembly for Beveling

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
101507	APB45080	4.5" Tiger Tooth Diamond Pipe Cutting Blade

### Reed Cone Chamfer Tools

The Reed Cone Chamfer Tool efficiently chamfers the inside or outside diameter of multiple pipe sizes, including metric pipe sizes, with one tool. Chamfer pipe and be ready for glue in seconds. Generally used with a drill, the removable 3/8" hex shaft on the power cone also permits manual operation. The cone chamfer tool is designed for PE (including HDPE), PVC, CPVC, PEX, ABS and PP pipe. The tool's hardened steel blade is sharp and durable, providing a fast chamfer result in seconds, with smooth edges. For best results, replace blade as needed.



**FEATURES**

- Chamfer pipe and have it ready for glue in seconds
- Cone shape chamfers full range of 3/4" to 2-1/2" nominal plastic pipe sizes
- Removable shaft allows for power or manual operation
- Works great for PE water service lines

**SPECIFICATIONS**

Weight (lbs)	0.2
Pipe Capacity O.D. nom. (in)	3/4 - 2-1/2
Pipe Capacity I.D. nom. (in)	1 - 2-1/2

C&M PART #	MFR PART #	DESCRIPTION
103454	04438	Chamfer Tool

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
103529	94440	Replacement Blades 2 Pack

### Wheeler-Rex Deburring Tools

The Wheeler-Rex Deburring tool is ideal for removing internal burrs in copper, plastic, aluminum and steel tubing. This tool features long-lasting and replaceable high-speed steel blade as well as a plastic handle with a built-in pocket clip.



**FEATURES**

- Ideal for removing internal burrs in copper, plastic, aluminum and steel tubing
- Long-lasting, replaceable high-speed steel blade
- Swivel head and easy blade change
- Built-in pocket clip

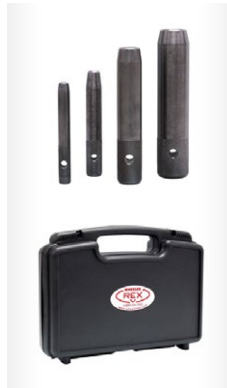
C&M PART #	MFR PART #	DESCRIPTION
101626	919	Deburring Tool 5 Pack

**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
102008	80711	Replacement Deburring Blade

## Wheeler-Rex Copper Rerounding Tools

Wheeler-Rex Rerounding Tools quickly and easily reround soft type-K copper tubing for proper seal when using compression fittings. For safety: use these tools only with brass hammers. For 3/4" through 2" copper pipe, this compact, divided kit makes transport easy.



### FEATURES

- Made from heat-treated hardened steel
- Restores round shape to soft copper tubing
- Includes four sizes: 3/4", 1", 1-1/2" and 2"
- For use with a brass hammer
- Includes a carrying case

### INCLUDES

Kit includes a case

### CERTIFICATIONS

- Type K Copper

C&M PART #	MFR PART #	DESCRIPTION
101729	4900	Rerounding Tool Kit for 3/4"-2" Copper (3/4", 1", 1-1/2", 2")

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
<b>INDIVIDUAL TOOL</b>		
101949	49075	3/4" Copper Rerounding Tool
101950	49100	1" Copper Rerounding Tool
101951	49150	1 1/2" Copper Rerounding Tool
101952	49200	2" Copper Rerounding Tool

## Reed Pipe Descalers

REED Pipe Descalers feature wide, tough scrapers that remove scale, dirt, and corrosion quickly from the pipe surface to allow more effective cutting, joining, gasket/valve seating or other operations. Pipe descalers are faster and more effective than chisels, chains or files and need only two inches of clearance around the pipe. Use pipe descalers to clean pipe before cutting, water tapping or drilling.



### FEATURES

- Faster and more effective than chisels, chains or files
- Needs only two inch of clearance around the pipe
- Roller handles allow smoother movement in use

### SPECIFICATIONS

Type	Steel
08000: Length (in)	32
08000: Weight (lbs)	5.7
08006: Length (in)	44
08006: Weight (lbs)	8.2

C&M PART #	MFR PART #	PIPE CAPACITY NOM. (IN)
103496	08000	3 to 12
103497	08006	3 to 36

## Reed Pressure Relieving Hammer Flares

With precision channels drilled from the tool's end to its side, REED Pressure-Relieving Hammer Flares allow flaring even when water is in the service line. Use only on Type K soft copper water service tubing. To absorb impact shock on striking, it is recommended to only strike the flaring tool with a soft-faced brass hammer.

### FEATURES

- Suited for flaring Type K copper tubing with water in the service line
- Make 45-degree flares with pressure relieving hammer flaring tools for copper tubing
- Hardened and tempered to resist wear

### SPECIFICATIONS

Length (in)	7.5
Weight (in)	2.3
Use With	Copper Tubing



103489

103490



C&M PART #	MFR PART #	SIZE (IN)
103489	06073	3/4"
103490	06074	1"

### Reed Replacement Cutting Wheels for Reed Cutters



All REED Cutter Wheels are made from high shock resistant tool steel, while competitive cutter wheels are made from carbon steel or still lower quality tool steel. By using this higher quality raw material, REED cutter wheels can be made thinner and can therefore cut pipe more easily and leave less burr. Also, because of their higher quality, certified material, only REED cutter wheels can be heat-treated for the perfect balance between hardness and toughness to make REED cutter wheels resist breakage and last longer.

**FEATURES**

- Largest cutter wheel line for all types of pipe, tubing and conduit

C&M PART #	MFR PART #	DESCRIPTION
103424	03660	# O Copper, Aluminum, Brass & Steel Tubing
103425	03665	# 30-40 Copper, Aluminum, Brass & Steel Tubing
103428	04180	# OP2 ABS, PE, PEX, PP, PEX/AL/PEX
103429	04184	# 1-2 ABS, PVC, CPVC, PVDF
103430	04190	# 30-40P ABS, PE, PP
103431	04194	# 3-6 ABS, 3"-6" PVC, 4" Heavy Wall, CPVC

### Reed Copper Tube Straightener/Rerounders



Save time and material with Reed Copper Tube Straighteners. Grips the end of a coil for effortless uncoiling; rerounds oval tubing or mild kinks anywhere along its length so cutter will track and fittings will seal properly.

**FEATURES**

- Take the trouble out of handling copper rolls by using REED Round It® tools for straightening and rerounding
- Provides the needed leverage to guide tube into position for fit-ups
- Removes mild kinks, frequently preventing the need to cut out a section and to splice-in a short piece
- Tools will quickly pay for themselves in material, labor and time savings
- Long-handled RCR rerounders are beneficial when extra leverage is needed
- Provides safe grip when flaring, and guides copper into alignment for easier fit-ups

C&M PART #	MFR PART #	TUBE SIZE (IN)
103507	08226	3/4
103508	08227	1
103506	08220	1-1/2 & 2

### Reed PVC / C900 Drilling Machine Kits

Use the REED PVC/C900 Drilling Machine Kit to cut through the pipe wall via the corporation stop inserted into the service saddle while under pressure. The DMPVC Complete Drilling Machine Kit includes everything you need to tap PVC pipe and consists of the base unit and corporation adapters in a plastic toolbox along with PVC/PE shell cutters for both 3/4" and 1" drilling projects. NPT to CC AWWA adapter converters and a 7/16" socket wrench complete the set.

**FEATURES**

- Drill through the pipe wall while the system is under pressure
- Drill feed rate can handle PVC, C900 and PE wall thickness up to 1-1/8"
- Steel parts are plated or powder epoxy coated for corrosion resistance
- New, one-piece stainless steel boring bar assembles easier
- Adapters are included for both CC AWWA and NPT Threads



C&M PART #	MFR PART #	SIZE (IN.)	WT(LBS.)
103453	04404	3/4 to 1	11

## Reed Feed Tap™ Drilling Machine



REED's Feed Tap™ drills through PVC, PE, cast iron and ductile iron while under pressure. The compact design, featuring a separate feed for advancing the heavy-duty shell cutter into the pipe, allows the user to easily complete the tap using an electric or cordless drill, right angle drill for cast and ductile iron, or even a 7/16" wrench (drill/wrench not included) with manual power for plastics. Kits are available for drill power (103513) or manual power for plastic pipes (103601).

### FEATURES

- Superior performance and life of the carbide-tipped, heavy-duty shell cutters on cast and ductile iron
- Preferred tool for PVC and PE taps using manual power and PL Series Shell Cutters
- Coupon retaining pilot drill bit with proven technology provides consistent results
- All units ship with a sturdy carrying case

### INCLUDES

- C&M part # 103513, FT2000UNIV includes machine, corporation adapters, shell cutters, coupon retaining drill bit, two sets of coupon retaining magnets, wrenches and tapping compound.
- C&M part # 103601, FTP2000UNIV is used for Plastic Pipe only, manual drilling operations. Kit comes complete with machine, corporation adapters, shell cutters, adapters and a ratchet wrench with socket to cover
- 3/4" to 2" services in PVC and PE.

### SPECIFICATIONS

Note: To saddle tap cast/ductile iron pipe, use drill power

According to Uni-Bell PVC Pipe Association recommendations, PVC and other plastic pipe must be tapped manually

C&M PART #	MFR PART #	DESCRIPTION	SIZE (IN.)	WT (LBS.)
103513	09165	FT2000UNIV, Complete Feed Tap™ Kit	3/4 to 2	34
103601	09168	FTP2000UNIV, Complete Plastic Pipe ONLY Feed Tap Kit	3/4 to 2	36

## Reed TM-1100 Pipe Tapping



Use REED's Direct Tapping Machine to drill and tap water mains while under pressure, then to install 3/4" or one" corporation stops in a two-step process. It covers a range of 4" to 48" cast or ductile iron and C900 PVC pipe with the use of saddles and chain extensions (tapping saddles sold separately.) The swing valve allows easy change-out from drill tap to corporation insertion tool without main shutdown.

### FEATURES

- Drill and tap water mains while they remain under pressure
- Lightweight yet strong, corrosion-resistant aluminum frames are easy to carry and set-up
- Modular design allows fast and simple conversion to drilling machine
- Lightweight yet sturdy for tough in-ditch applications
- Anodized and epoxy-painted aluminum frames
- TM100 features a flip clamp feed system
- Tapping machine uses Reed DT series drill taps

### INCLUDES

- Reed TM1100 ships with all the necessary parts, including the corp insertion tools. Exception being the saddles and drill taps. By ordering these separately, one only needs to purchase the right sizes for the job.

### SPECIFICATIONS

Note: Cast Aluminum Tapping Saddles and Reed DT series drill taps required and sold separately

C&M PART #	MFR PART #	SIZE (IN.)	NOMINAL PIPE SIZE (IN.)	WT (LBS.)
103515	TM1100	3/4 - 1	4 - 48	101.8

**Reed Drill Taps**



REED Drill Taps offer superior performance when tapping into iron or C900 PVC pipe. Iron pipe drill taps perform fast with six cutting edges for clean threads and a sharp point for easy starts. PVC pipe drill taps feature three-spiral flute which bore easier than other drill tap designs with less friction as well as retain the coupon and cuttings to save you time and effort.

**FEATURES**

- Reed's DT-series Drill Tap has been used by the AWWA Tapping Competition winning teams for the past 15 years!
- Use with most brands of tapping machines

C&M PART #	MFR PART #	REED MODEL#	SIZE (IN)	THREAD	PIPE MATERIAL
103445	04390	DT75	3/4	CC AWWA	Cast/Ductile
103446	04391	DT100	1	CC AWWA	Cast/Ductile
103449	04396	DT75P	3/4	CC AWWA	C900 PVC
103450	04397	DT100P	1	CC AWWA	C900 PVC

**Wheeler-Rex Shut-Off Tools for Copper Tubing**

The Wheeler-Rex shut-off tools are invaluable for maintenance and installation of soft copper service lines. They allow you to shut off, hold and restore water flow quickly and easily. They are also extremely handy for quick repairs with their swing-out design and come complete with socket, ratchet, holding clamp and carrying case.



**FEATURES**

- Shut off, holds & restores flow
- Swing out design with no die removal
- Corrosion resistant
- Compact and easy to use
- Does not overwork tube walls
- Complete with ratchet, socket, holding clamp and toolbox

**INCLUDES**

- Socket, ratchet, holding clamp and carrying case

C&M PART #	MFR PART #	DIAMETER (IN)
101605	85	3/4 - 1 Copper
101600	70	1-1/4 - 2 Copper

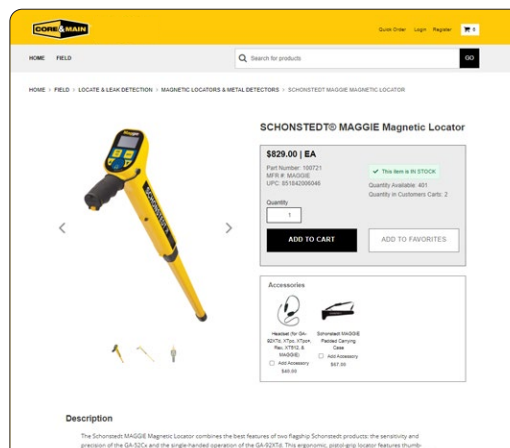
**ACCESSORIES**

C&M PART #	MFR PART #	DESCRIPTION
101773	6515	1/2" Square Male Drive Ratchet
101599	62	1/2" through 1" Clamp for soft copper pipe
101602	72	1 1/4" through 2" Clamp for soft copper pipe
102040	221220	Conversion Kit for 85 to 86

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## Reed Squeeze-Off Tools for Plastic Pipe

REED Squeeze-Off Tools for Plastic Pipe use IPS and/or CTS plastic pipe for sizes 1/2" through 2". Sliding bar handles make work in tight places easier and increases leverage for tightening. All PE squeeze-off tools use positive stops to prevent damage caused by over-clamping. Multiple size/SDR settings on one pair of stops provide quick, convenient over-squeeze protection for standard pipe sizes.



### FEATURES

- Two-position handle for work location options
- Fine thread feed for smooth squeeze from the operator
- Grease fittings at friction points
- Uses a pair of rotating stops to prevent damage to the pipe
- Swing out arm to easily get tool around the pipe
- Grounding accessory use recommended; REED PEGR7 (04621)

C&M PART #	MFR PART #	DESCRIPTION
103434	04302	w/ IPS Stop
103435	04304	w/ CTS Stop

### ACCESSORIES

C&M PART #	MFR PART #	DESCRIPTION
103533	98078	CTS Stop Only
103534	98079	IPS Stop Only
103465	04621	Reed Static Grounding Device

## Reed Standing Shut-Off Pipe Tools



REED Standing Shut-Off Tool compresses 3/4" to 1" PE plastic tubes to stop the flow of water. The shut-off tool uses 30" handles to develop a clamping force in a manner similar to a pair of bolt cutters. The long handles make for easy shut off from above the ditch with a chain to hold the tool closed.

### FEATURES

- Stop the flow of water in 3/4" to 1" PE plastic tubes
- Long 30" handles allow both clamping leverage and reach into pits
- Perform shut-off from above the ditch
- Not intended for gas service lines

### SPECIFICATIONS

Nominal Range (in)	3/4 to 1
Length (in)	43.5
Weight (lbs)	17.7

C&M PART #	MFR PART #	DESCRIPTION
103432	04281	Standing Shut-Off Pipe Tool

## Trumbull PE Water Service Shut-Off Tools

The Trumbull Shutoff Tool can be used on polyethylene water service tubing for making emergency shutoffs where curb stops or other valves are not readily accessible. Hinge on one end allows this tool to open for use on 3/4" and 1" polyethylene. Latch on opposite ends keeps this tool closed during repair.

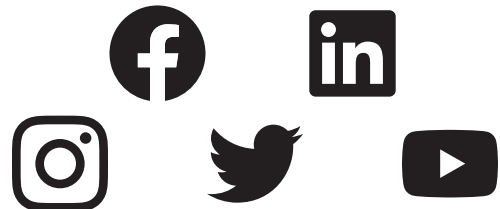


### SPECIFICATIONS

Weight (lbs)	2.9
Overall Length (in)	17-7/8"

C&M PART #	MFR PART #	DESCRIPTION
101476	368-9040	Water Service Shutoff Tool

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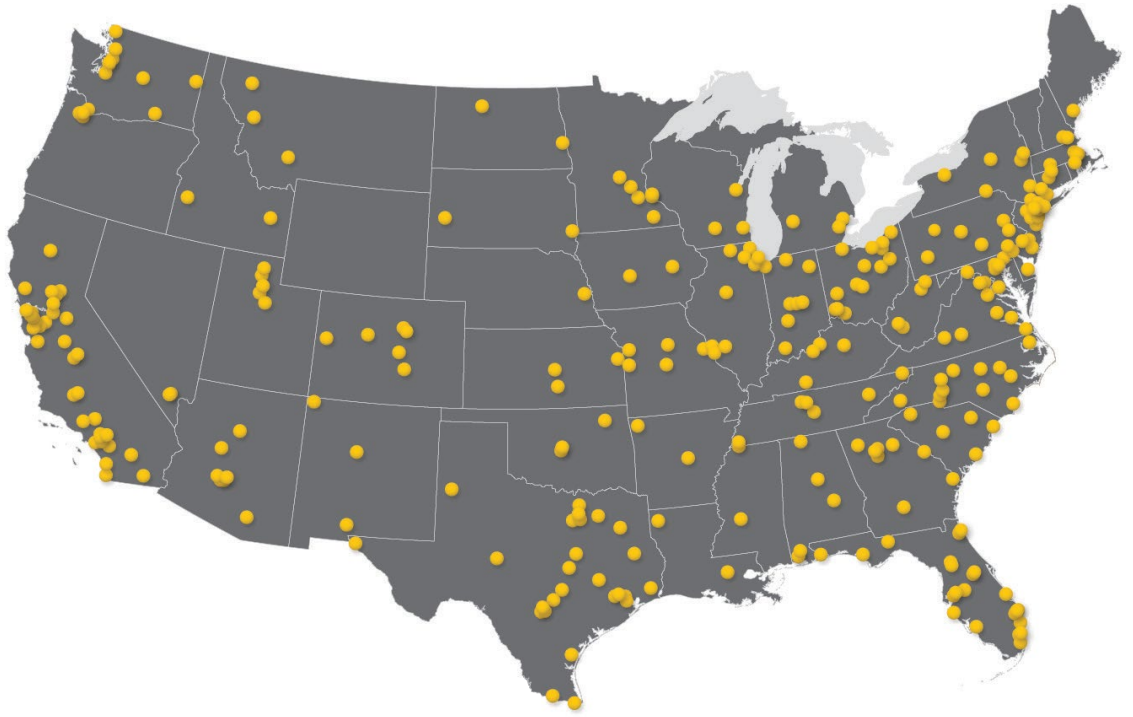
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