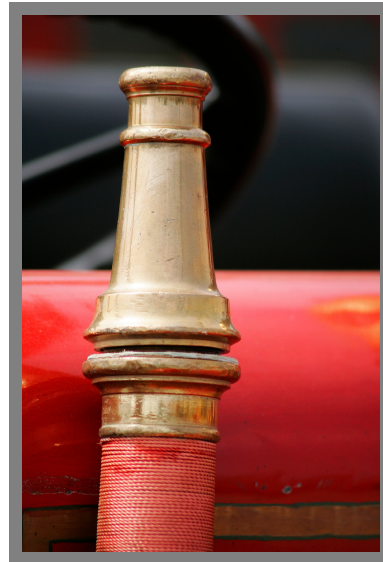


Fire & Waterworks Specialties



Sierra Fire Equipment
Division of IFW Products LLC
Boise, Idaho 83714

75
years

1951 - 2026



Introduction

Sierra Fire Equipment has a long and distinguished history in the fire protection industry. The company was originally founded in the early 1950s near downtown Los Angeles by N.L. Smith and Harry Halprin to provide interior and industrial fire equipment to fire extinguisher dealers and contractors in Southern California. Over a 40 year period, Sierra grew to become one of the largest providers of fire equipment in the western United States.

For many years the Sierra name appeared prominently in construction specifications written by some of the nation's leading architects and engineers. Many of the best known landmarks in and around Southern California and beyond feature cabinets, hose equipment, and standpipe brass furnished by Sierra. The company's logo, depicting a mountain landscape with the Sierra name emblazoned on it was a widely recognized emblem of quality for two generations.

During the construction boom of the 1950s and 1960s the company grew quickly. By 1977 the western division of Standard Fire Hose Co. had been acquired from Zurn Industries, and in 1979 Sierra along with its companion operation Halprin Supply Company were sold to a group of investors.

During the 1980s, traditional construction industry practices were changing. New contractor licensing requirements, updated building codes, and evolving models of product distribution caused management to seek a new direction. The operation was scaled back in the early 1990s, and in 1997 the company was dissolved.

Following a lengthy pause the Sierra Fire Equipment name has returned under new ownership and is now headquartered in the Boise, Idaho area. As one of our industry's legacy brands, the Sierra name has long been synonymous with quality products and responsive service. As we celebrate the 75th anniversary of our founding, it is our goal to continue that tradition.



Sierra's longtime headquarters facility in Los Angeles, circa 1973

Get in Touch With Us

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Business Hours

Monday thru Friday
8:30 AM to 4:30 PM
Mountain Time



Pressure & Flow Testing



Hydrant Cap Gauges

Measures static (non-flowing) pressure on hydrants or standpipes
 • Lightweight hard anodized aluminum cap with female fire hose thread • Purge valve • Liquid filled gauge with stainless steel or phenolic case • 2-1-2% accuracy in accordance with ASME/ANSI B40.1 Grade A • Specify scale when ordering: 0 – 160, 0 – 200, or 0 – 300 PSI



Option (select by suffix) – P Liquid filled gauge with phenolic case.

Variation: With chrome plated brass cap.

Part No.	Size • Thread
HCG15.....	1-1/2" NST (NH)
HCG25.....	2-1/2" NST (NH)

Pitot Gauges

Allows accurate pressure and flow calculations • Chrome plated tube
 • Liquid filled gauge with 2-1-2% accuracy in accordance with ASME/ANSI B40.1 Grade A • Includes molded plastic carrying case with foam lining and computation charts • Specify scale when ordering: 0 – 160, 0 – 200, or 0 – 300 PSI



Option (select by suffix) – P Liquid filled gauge with phenolic case

Variation: With notched stainless steel or plastic blade for easy positioning.

Part No.	Description
701	Pitot Gauge w/ Carrying Case

Test Gauges

Used to obtain accurate pressure readings when testing water flow or fire pumps • Liquid filled stainless steel case with 4" dial • Brass internals • 1/4" NPT lower male connection • 1% full scale accuracy (ANSI/ASME B40.100, Grade 1A) • High impact padded carrying case included •



Option (select by suffix) – CC Certified calibration.

Part No.	Description
208L	Test Gauge w/ Carrying Case

Scale – PSI	Graduations	
	Major	Minor
0 - 60	10	5
0 – 100	20	10
0 – 200	20	10
0 – 300	50	10
0 – 600	100	50
30" – 0 - 150	30	10
30" – 0 – 200	20	10
30" – 0 – 300	50	10

Test Cap

Used to purge air from hose lines or standpipe systems to allow for accurate static pressure testing • Forged aluminum with hard coat anodized finish • 2-1/2" female fire hose thread as standard • Quarter turn miniature ball valve



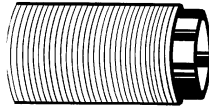
Part No.	Size • Thread
TC25	2-1/2" NST (NH)



Test Hoses

Single Jacket

Usage: Used when testing fire pumps, hydrants, or standpipes • Suitable for use from +20° F to +150° F.



Construction: 100% polyester jacket with synthetic rubber lining • Aluminum expansion ring couplings with National Standard Threads (NST) to NFPA 1963 furnished as standard.

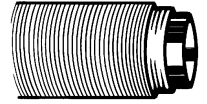
Pressure Ratings: See table below.

Lengths: 10', 20', 25' or 50' lengths. Other lengths available (odd length surcharge may apply).

Option: Synthetic polymeric coating for added abrasion and chemical resistance • Select red, yellow, orange, blue, green, brown, tan, or black.

Double Jacket

Usage: Used when testing fire pumps, hydrants, or standpipes • Outer jacket provides added resistance to abrasion and wear, and additional safety factor • Suitable for use from +20° F to +150° F.



Construction: Two (2) 100% polyester jackets with synthetic rubber lining • Aluminum expansion ring couplings with National Standard Threads (NST) to NFPA 1963 furnished as standard.

Pressure Ratings: See table below.

Lengths: 10', 20', 25' or 50' lengths lengths. Other lengths available (odd length surcharge may apply).

Option: Synthetic polymeric coating for added abrasion and chemical resistance • Select red, yellow, orange, blue, green, brown, tan, or black.

Part No.	Hose Type	Test PSI		Size	Length
		Proof	Service Test		
H2515S	Single Jacket	500	250	2-1/2"	10' • 20' • 25' • 50'
H2526D	Double Jacket	600	300		

Fire Hydrant Accessories



Hydrant Flushing Diffusers

Used for fire hydrant flushing • Allows fire hydrant to be flushed while directing discharge away from traffic and/or landscaped areas • Specially designed deflector reduces high velocity discharge to a slower, diffused flow while still allowing debris to pass • Swivels a full 360°, allowing flow to be directed right, left, up or down •



Welded carbon steel or 316 stainless steel body • Female hose thread swivel connection • Red polyester powder coat finish inside and out for improved appearance and corrosion resistance • Other colors available (setup charge may apply)

Part No.	Size • Thread	Material
HFD1	2-1/2" NST (NH)	Carbon Steel
HFD2	2-1/2" NST (NH)	Stainless Steel

Hydrant Flushing Elbows

Directs water flow away from traffic and/or landscaped areas when flushing hydrant • Cast brass swivel with female fire hose thread • Aluminum elbow • Swivels a full 360°



Part No.	Size • Thread
HFE1	2-1/2" NST (NH)
HFE2	4" NST (NH)
HFE3	4-1/2" NST (NH)

Angle & Suction Elbows

Used for fire hydrant discharge • Minimizes hose kinking • Cast brass • Female hose thread swivel connection • Male hose thread outlet



Variation: Polished chrome finish.

Part No.	Style	Size • Thread
212	30°	2-1/2" NST (NH) 3" NST (NH) 4" NST (NH)
222	45°	1-1/2" NST (NH) 2-1/2" NST (NH) 3" NST (NH)
232	90°	2-1/2" NST (NH)

Hydrant Hose Bibb

Reduces 2-1/2" NST hydrant outlet to 3/4" Garden Hose Thread (GHT) connection with hose bibb • Lightweight hard anodized aluminum cap with rocker lugs • Lead free brass hose bibb with male GHT outlet and tee style handle • Maximum working pressure 125 PSI



Part No.	Size • Thread
HHB25	2-1/2" NST (NH) x 3/4" GHT



Fire Hydrant Accessories

Hydrant Conversion Bushings

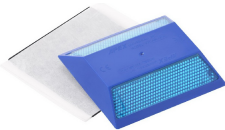
Provides a method of converting any male hose thread to National Standard Thread (NST) as per NFPA 1963 • Cast brass • Female hose thread inlet • NST (NH) male outlet • Set screw allows permanent attachment to existing male outlet • Specify your existing male hose thread or provide thread template when ordering



Part No.	Female	Male NST (NH)
HCB2525 HCB4040	2-1/2" 4"	2-1/2" 4"
HCB4540 HCB4545	4-1/2" 4-1/2"	4" 4-1/2"

Reflective Fire Hydrant Marker

Brilliant blue reflective acrylic lens allows hydrant to be spotted from a distance of 1000' • High impact housing withstands traffic on busy city streets • Size: Approximately 4" x 4" x 3/4" high • 1.6 in² reflective surface area on two sides • Installs easily with adhesive pads (sold below)



Part No.	Description
921	Fire Hydrant Marker
AP50	Butyl Adhesive Pads (box of 50)

Hydrant Out of Service Covers

Used to identify non-working hydrants to fire or maintenance personnel • Heavy duty 10 oz./yd.² nylon reinforced vinyl withstands temperature extremes and humidity • Brass eyelets allow cover to be secured over hydrant with ordinary nylon cable ties • Two sizes available: "Short" (27") cover for smaller wet barrel hydrants, and a "long" (36") cover for standard dry barrel or 3-way wet barrel hydrants • Available in orange, red, or yellow • Custom covers also available



Part No.	Length	Color
HC27O HC27R HC27Y	27" 27" 27"	Orange w/ black lettering Red w/ white lettering Yellow w/ black lettering
HC36O HC36R HC36Y	36" 36" 36"	Orange w/ black lettering Red w/ white lettering Yellow w/ black lettering

Cast Iron

Part No.	Size • Thread	Chain
HCP250	2-1/2" NST (NH)	No
HCP400	4" NST (NH)	No
HCP450	4-1/2" NST (NH)	No
HCP250C	2-1/2" NST (NH)	Yes
HCP400C	4" NST (NH)	Yes
HCP450C	4-1/2" NST (NH)	Yes



Note: These caps are for use only as described above. They are not designed to hold static water pressure.

Brass



Part No.	Size • Thread
HCB250.....	2-1/2" NST (NH)



Part No.	Size • Thread	Chain
HCI250	2-1/2" NST (NH)	No
HCI450	4-1/2" NH	No
HCI250C	2-1/2" NST (NH)	Yes
HCI450C	4-1/2" NH	Yes
HCI73	Zinc plated chain w/ ring	

Standard Hose Threads

3/4"	GHT, NPSH, NPT
1"	NPSH, NPT, NST (NH)
2"	NPSH, NPT
2-1/2" thru 4"	NPT, NST (NH)
4-1/2"	NST (NH)



Hose Adapters

Flange Hose Adapters

Changes flange connection to male or female swivel hose thread • Flange drilling conforms to ANSI B16.5 • Choice of materials, pressure class ratings, and configurations • Flange bolt kits and/or gaskets optional • DIN and JIS flange types also available



When inquiring or ordering, please provide the following information:

- Flange function
- Material
- Pressure class rating
- Flange facing
- Finish, e.g. powder coating
- Accessories required, if any

Red Thermoplastic Hose Adapters

Used to change size and/or thread • Female end larger or same size as male end • Reinforced red thermoplastic material • No scrap value, problems of jobsite theft are minimized • Rocker lugs



Part #	Female	Male
137	1-1/2" NPSH	1-1/2" NST
	2-1/2" NST	1-1/2" NPSH
	2-1/2" NST	1-1/2" NST
	2-1/2" NST	3/4" GHT
	2-1/2" NST	2" NPT

Stainless Steel Adapters & Accessories

Used in applications where brass, bronze, or hard coated aluminum adapters are not practical due to corrosive environmental elements and/or higher working pressure requirements



- Superior corrosion resistance
- Resistant to many acids and common industrial chemicals
- Extremely durable
- Precision machined, with threads cut to exact tolerances
- All types of adapters available: reducers, hexagonal hose nipples, swivel adapters
- Full range of size and thread combinations
- Available in 304 or 316 stainless steel material



Swivel Adapters w/ Screen

Allows connection of male hose coupling to standpipe system, meter, or other device • Screen prevents entry of foreign matter • Cast brass • Zinc plated aluminum screen • Female hose thread swivel with rocker lugs • Rigid male NPT outlet with hexagonal wrench flats



Variation: With plastic screen

Part No.	Female	Male
220	2-1/2" NST (NH)	2" NPT 2-1/2" NPT 3" NPT

Valves



Economy Hydrant Valve



Used as a fire department outlet connection • Designed to minimize unauthorized use or tampering • Cast brass • Rubber seat disc • Screw-in bonnet • 1-1/8" pentagonal nut • Female NPT inlet • NST (NH) male outlet to NFPA 1963 • 300 PSI rated • Cap & chain ordered separately

Ball Shutoff Valve



Used as a fire department outlet connection • Typically used on industrial fire hydrants or monitor standpipes where a quarter turn valve is needed • Also used on water storage tanks for emergency fire fighting • Forged brass • Chrome ball with PTFE seats • Full port • Vinyl coated reversible handle • Female NPT inlet • NST (NH) male outlet to NFPA 1963 • 200 PSI maximum working pressure • Cap & chain ordered separately

4" Hose Gate Valve



Used as a fire department outlet connection • Typically used on industrial fire hydrants with an external valve arrangement • Also used on water storage tanks for emergency fire fighting • Cast brass • Solid wedge disc with tapered seats • Screw-in bonnet • Metal handwheel • Female NPT inlet • NST (NH) male outlet to NFPA 1963 • 200 PSI maximum working pressure • Cap & chain ordered separately

Part No.	Valve Type	Female Inlet	Male Outlet	Rated PSI
251	Hydrant	2-1/2" NPT	2-1/2" NST (NH)	300
185	Ball Shutoff	2-1/2" NPT	2-1/2" NST (NH)	200
335	Hose Gate	4" NPT	4" NST (NH)	200



Custom Enclosures

One of our specialties is solving challenges where project requirements make using off-the-shelf cabinets or enclosures impractical or otherwise unsuitable. Our years of experience in providing custom fabrication services allow us to tailor solutions that will meet your specific needs. We have numerous existing designs that can be used with or without modification, or we can develop a clean sheet design for your project. Drawings will be submitted for your approval before any work is begun, and as-built drawings will be furnished upon completion of the project.

How to Order: The following information is required when inquiring or ordering.

- Approximate overall size and/or interior storage capacity required.
- Size or clearance limitations, if any.
- Material requirements (type of material, material gauge).
- Type of mounting, e.g. free standing, wall (surface mount), recessed.
- Door style, door hardware, and locking requirements, if any.
- Will the enclosure be installed indoors, outdoors in a protected area, or outdoors in an unprotected area?
- Glazing requirements, if any.
- Protective coatings or finishes required.
- Shelving and/or bracket requirements, if any.
- Location(s) of piping knockouts or entry holes, if any.
- Signage, labeling, or nameplate requirements.
- Any other special requirements, if any — describe in detail.

Note: Equipment is specified and ordered separately.



*Outdoor fire equipment enclosures
built for Shell Oil Nigeria*



*Custom safety cabinet outfitted with
fire blankets, emergency escape
breathing apparatus, first aid kits,
stretchers, and forcible entry tools*



Here is another example of our custom fabrication capabilities. This panel board incorporates manual deluge release stations and a graphic plot plan. The frame is constructed of hot dip galvanized steel angle with a powder coated stainless steel panel.

Swinging Hose Reels



- Provides storage for flat-folding fire hose
- Reel automatically swings to proper angle as hose is unreeled
- Drum storage eliminates kinking, prolongs hose life
- Heavy gauge slotted steel rims with rolled edge
- 12 gauge steel frame and wall bracket
- High strength injection molded drum
- Red polyester powder coat finish



Part #	Hose Size	Hose Capacity			Rim Dia.	Overall Width	Overall Depth
		Rack & Reel	Single Jacket	Double Jacket			
R186	1-1/2"	100'	50'	—	18"	23-1/2"	6-1/4"
R246	1-1/2"	150'	100'	50'	24"	29"	6-1/4"
R248	2-1/2"	150'	100'	50'	24"	33-1/2"	7-7/8"

Thermoplastic FDC Plugs

Used to protect female hose threads and prevent entry of foreign matter • High impact red thermoplastic construction with UV stabilizers to resist fading • Withstands wide range of temperatures from -4° F to +200° F • Pentagonal nut discourages tampering and casual mischief – no pin lugs or rocker lugs to grip • Weep hole allows inspector to spot leaky check valve • No scrap value • Removes from FDC with a standard adjustable hydrant wrench – no need for expensive, inconvenient master keyed systems or special tools • **Patented – U.S. Patent & Trademark Office Patent No. D664632S**



Variation: With bright galvanized chain with "S" hook

Part No.	Size • Thread
310	2-1/2" NST (NH)

NyloTuff™ Wrenches

Great alternative to conventional wrenches made of aluminum, malleable iron, or brass • Glass filled nylon construction is strong and durable • International Orange color is highly visible • Lightweight – up to 75% lighter than comparable metal tools • No scrap value – problems with job site theft are all but eliminated • Economically priced



Five Hole Hydrant Wrench

Fits five common hydrant nut sizes: 1" – 1-1/8" – 1-1/4" – 1-1/2" – 1-3/4" • Spanner hook fits pin lugs or rocker lugs to 4"

Part No. W604N

Universal Spanner

Fits pin lugs or rocker lugs up to 4" • Gas cock shutoff • Window jimmy • Eyelet for hanging on hook or tool belt

Part No. W605N



Equipment Covers

Used to protect fire equipment from dirt and moisture while providing clear identification of location • Water & mildew resistant • 10 oz./yd.² nylon reinforced vinyl • Bright red with screen printed message in white lettering • Hook and loop fastening straps • Custom covers are available in variety of fabrics, sizes, and colors

Hose Rack



Hose Reel



Fire Extinguisher



Part No.	For Use With	Size	Window
S-90004	50' or 75' Hose Rack Unit	22" W x 28" H	—
S-90005	100' Hose Rack Unit.	22" W x 32" H	—
S-90006	Hump Rack.	30" W x 25" H x 6" D	—
S-90018	18" Swinging Hose Reel for 1-1/2" Hose	18" dia. x 7" D	—
S-90021	21" Swinging Hose Reel for 1-1/2" Hose	21" dia. x 7" D	—
S-90024	24" Swinging Hose Reel for 1-1/2" Hose	24" dia. x 7" D	—
S-90026	26" Swinging Hose Reel for 1-1/2" Hose	26" dia. x 7" D	—
S-90124	24" Hose Reel for 2-1/2" Hose	24" dia. x 10" D	—
S-90126	26" Hose Reel for 2-1/2" Hose	26" dia. x 10" D	—
S-90301	5lb. or 10 lb. Dry Chemical Fire Extinguisher	12-1/2" W x 20" H	—
S-90303	20 lb. or 30 lb. Dry Chemical Fire Extinguisher	16" W x 27" H	—
S-90305	10 – 15 – 20 lb. Carbon Dioxide Fire Extinguisher	16" W x 32" H	—
S-90311	5lb. or 10 lb. Dry Chemical Fire Extinguisher	12-1/2" W x 20" H	✓
S-90313	20 lb. or 30 lb. Dry Chemical Fire Extinguisher	16" W x 27" H	✓
S-90315	10 – 15 – 20 lb. Carbon Dioxide Fire Extinguisher	16" W x 32" H	✓
S-90321	10 lb. Cartridge Operated Fire Extinguisher	14" W x 18-1/2" H	—
S-90323	20 lb. Cartridge Operated Fire Extinguisher	15-1/2" W x 22" H	—
S-90325	30 lb. Cartridge Operated Fire Extinguisher	16-1/2" W x 24-1/2" H	—
S-90331	50 lb. Wheeled Fire Extinguisher	23" W x 26" D x 47" H	—
S-90333	125/150 lb. Wheeled Fire Extinguisher	30" W x 46" D x 52" H	—
S-90335	300/350 lb. Wheeled Fire Extinguisher	36" W x 41" D x 57" H	—

Hose Threads



The hose threads in the accompanying tables are the most commonly used threads. However, we can supply almost any distinct or special thread you may require. Contact us for additional information.

National Standard Thread

Size	ODM	TPI
3/4"	1.3750"	8
1"	1.3750"	8
1-1/2"	1.9900"	9
2"	2.5156"	8
2-1/2"	3.0686"	7-1/2
3"	3.6239"	6
4"	5.0109"	4
4-1/2"	5.7609"	4
5"	6.2600"	4
6"	7.0250"	4

National Pipe Straight Hose

Size	ODM	TPI
3/4"	1.0353"	14
1"	1.2951"	11-1/2
1-1/4"	1.6399"	11-1/2
1-1/2"	1.8788"	11-1/2
2"	2.3582"	11-1/2
2-1/2"	2.8410"	8
3"	3.4670"	8
4"	4.4660"	8
4-1/2"	4.9850"	8
5"	5.5281"	8
6"	6.5848"	8

Pacific Coast Thread

Size	ODM	TPI
3/4"	1.0625"	11
1"	1.3125"	11-1/2
1-1/4"	1.8600"	11
1-1/2"	2.1000"	11
2"	2.5500"	10
2-1/2"	3.0350"	7-1/2

Chemical Hose Thread

Size	ODM	TPI
3/4"	1.3750"	8
1"	1.3750"	8

Underwriters Tip Thread

Size	ODM	TPI
1-1/2"	2.1875"	12

Garden Hose Thread

Size	ODM	TPI
3/4"	1.0625"	11-1/2

Canadian Standards Association

Size	ODM	TPI
2-1/2"	3.1250"	5

U.S. Navy Thread

Size	ODM	TPI
3/4"	1.0625"	11-1/2
1"	1.2951"	11-1/2
1-1/4"	1.6399"	11-1/2
1-1/2"	1.8788"	11-1/2
2"	2.3582"	11-1/2
2-1/2"	3.0686"	7-1/2
3"	3.6239"	6
4"	4.9082"	6



Hose Thread Compatibility

Abbreviation	System Name	Remarks
GHT	Garden Hose Thread	Not compatible with any other system. Uses washer seal.
IPT	Iron Pipe Thread	Generic name for all pipe threads.
NST (NH)	American Standard Fire Hose Coupling Thread (National Standard Thread, also referred to as National Hose thread)	Not compatible with any other system. Uses washer seal.
NPT	American Standard Taper Pipe Thread (National Pipe Taper)	Thread seal; use pipe sealant or PTFE tape as appropriate. Male NPT fitting is compatible with female NPSH thread.
NPSH	American Standard Straight Pipe for Hose Couplings (National Pipe Straight Hose)	Uses washer seal. Female NPSH thread will accept male NPT thread.

Female Thread	Male Thread			
	GHT	NST (NH)	NPT	NPSH
GHT	✓	—	—	—
NST (NH)	—	✓	—	—
NPT	—	—	✓	—
NPSH	—	—	✓	✓

Terms & Conditions of Sale



Prices — Subject to change without notice. Verify pricing with our sales department when placing your order.

How To Order — Your order should contain a full description of each item, indicating its part number, size, threading, and any other applicable information. Please include shipping instructions with exact destination. Written confirmations of verbal orders must be clearly marked as such to avoid duplication.

Minimum Order — \$25.00 net selling price, plus applicable taxes and freight.

Payment — Net 30 days on approved credit. Past due accounts are subject to a 1-1/2% per month (18% per annum) service charge, or the maximum lawful rate in your state. Shipments will not be made to accounts with a past due balance.

We also accept all major credit cards..

Delivery — Every effort is made to deliver all orders in a timely manner, but we are not responsible for delays due to parts or material shortages, labor disputes, transportation delays, acts of God, or any other similar cause beyond our reasonable control. Products listed in this catalog are not necessarily to be construed as stock items in all cases.

Freight Terms — FOB shipping point with no freight allowance unless quoted otherwise. Title passes immediately to buyer upon delivery of goods to carrier.

Returned Merchandise — No material may be returned without our prior consent and issuance of a Return Goods Authorization (RGA). Returned goods, if accepted, are subject to a minimum 30% handling charge.

Goods must be in new and original condition, subject to inspection, and returned to us freight prepaid. Credit for returned goods will apply to future purchases only.

Requests to return merchandise more than six (6) months after the original date of shipment are subject to management approval. No merchandise may be returned after twelve (12) months, for any reason.

Non-stock, specially manufactured goods, or items ordered in excess of normal stocking quantities may not be canceled or returned for credit.

Claims & Shortages — All claims for error or shortage must be made within 10 days after receipt of merchandise. Claims for goods damaged in transit are the purchaser's responsibility and must be made against the delivering carrier.

Warranty — All goods sold are warranted against defects in materials and workmanship for one year from date of original shipment. If examination by Seller confirms defect, settlement shall not exceed the net sale price of the specific product with no allowance for additional expense or labor resulting from same product. THIS IS SELLER'S SOLE WARRANTY IN ITS ENTIRETY. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. This warranty does not apply to products subjected to accidents, Buyer's modifications, negligence or misuse.

Disclaimer — The descriptions contained in this list price catalog are for identification purposes only and do not express or imply that the products are merchantable or fit for a particular purpose. It is the user's responsibility to determine the suitability of the product for its intended use.

Taxes — All prices and quotations are subject to applicable state and/or local sales taxes unless a valid tax exemption certificate is provided.

Liability — Liability is limited to obligation of Seller's warranty. Seller is not liable for any loss, damage, or additional expense, whether based upon warranty, damage, contract, or negligence attached to the design, manufacture and sale of products or of the engineering or specifications of the Buyer.

Controlling Provisions — These terms and conditions control with respect to any purchase order placed with the Seller. No modification, waiver, alteration, or addition to these terms shall be valid as part of Buyer's purchase order unless individually acknowledged and accepted in writing by an authorized representative of the Seller. It is agreed that all orders placed with Seller will be paid in full and in accordance with Terms and Conditions as stated above. Should Buyer not pay Seller according to same, it is understood that credit privileges may be withdrawn and interest will be charged at the full lawful rate. If it becomes necessary to obtain collection assistance, Buyer agrees to pay all collection costs and any attorney fees or court costs.

Specifications are subject to change. We assume no responsibility for the use of void or superseded data.

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