

GATES® INDUSTRIAL HOSE GUIDE



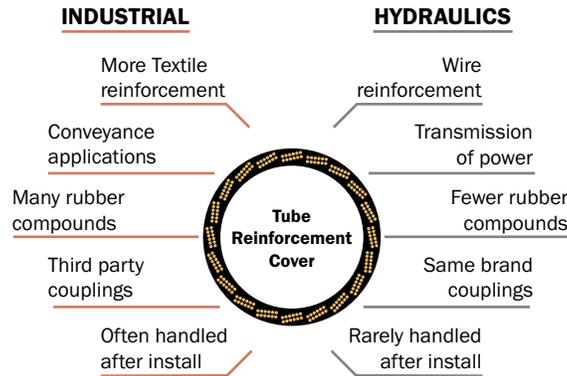
EFFICIENCY. ENGINEERED.
DESIGNED TO **MAXIMIZE**
YOUR VALUE AND **MINIMIZE**
YOUR DOWNTIME

INDUSTRIAL HOSE BASICS

**ENDLESS APPLICATIONS =
ENDLESS OPPORTUNITIES**



DIFFERENCES BETWEEN:



HOSE CONSTRUCTION TYPES



KEY TOOLS

APPLICATION ICON

More information on the application icons is in the above section

WORKING PRESSURE

Bars is the European equivalent of PSI

TUBE MATERIALS

Circle denotes tube construction; letter inside denotes tube material composition

COVER MATERIALS

Letter denotes cover material composition



GATES TYPE
Correlates to the industry or application

PERFORMANCE LEVEL

- Standard
- Plus
- Xtreme

PRESSURE RATING
Working pressure (psi)

- D Discharge
- SD Suction Discharge

PREMIUM PERFORMANCE FEATURE

- AR Abrasion Resistance
- CR Crush Resistance
- FR Flame Resistance
- HT High Temperature
- LT Low Temperature
- NC Non Conductive
- SF Silicone Free
- Braid
- Clear
- Barricade™
- Megaflex™

PERFORMANCE LEVELS AS THEY PERTAIN TO XTREME, PLUS, AND STANDARD

FAMILY	BRAND	PERFORMANCE RATING	XTREME	PLUS	STANDARD
Chemical	Chem Master	Chemical Resistance	More than 1250 highly corrosive chemicals	More than 400 basic chemicals	Mild chemicals
Air and Multi-Purpose	Plant Master	Oil Resistance	High Oil Resistance (ARPM Class A)	Medium Oil Resistance (ARPM Class B)	Limited Oil Resistance (ARPM Class C)
Food & Beverage	Food Master	Product Range	Many types of food and beverage products	N/A	Specific food and beverage products
Material Handling	Bulk Master	Tube Thickness	1/4" tube	3/16" tube	1/8" tube
Oilfield	Black Gold	Choke & Kill	API 16C	N/A	Lloyds 1000/499
Petroleum	Fuel Master	Petroleum Resistance	Constnt contact and alternative fuels	N/A	Transfer of petroleum products
Steam	Plant Master	Cover Design	N/A	Oil resistance and red non-marking cover	Standard black cover

STAMPED METHOD FOR DOCUMENTING HOSE REQUIREMENTS

S	Size	Inside Diameter, Length
T	Temperature	Internal & External, Maximum & Minimum
A	Application	Environmental Conditions, System Design
M	Material	Material(s) Conveyed (solids, liquids, gases)
P	Pressure	Operating Pressure (normal & surges,) Vacuum
E	Ends	Coupling Requirements
D	Delivery	Flow Rate (volume) & Velocity (speed)

MATERIALS AT A GLANCE

TUBE MATERIAL	EPDM	NITRILE	NAT RUBBER/SRB
Water-Based Media	Excellent	Fair to Good	Good
Oil Based Media	Poor	Excellent	Poor
Abrasion	Good	Fair to Good	Excellent

↓ WATER ↓ OIL ↓ ABRASIVES

KEY TOOLS

[Digital Catalog](#)
[STAMPED Guide](#)
[Material Characteristics & Resistance](#)

[Safety Connections Guide](#)
[eCrimp \(gates.com\)](#)

**REACH OUT TO YOUR APPLICATION ENGINEERING TEAM (303-744-5070)
FPPASUPPORT@GATES.COM OR GPLM TEAM FOR SUPPORT**

INDUSTRIAL HOSE CATEGORY OVERVIEW

	Key Applications	Top Sellers	Why Gates?
 CHEM MASTER	Bulk Transport: Tank truck, rail, ship Oilfield: Chemical blending Pharmaceuticals processing Plating operations		Kink/Crush resistance options Megaflex CPE version Multiple colors for color-coding Proprietary compounds and processes
 FOOD MASTER	Breweries, wineries, distilleries, bottlers Dairies & edible oil processing Liquid + Dry Bulk Transport Pet Food Plants Pneumatic transfer		Sanitron tube imparts no odor/taste Rust and kink/crush proof MegaFlex Oils and Dairy version MegaTuff cover option for abrasion Multiple colors, smooth and corrugated
 FUEL MASTER	Bulk Transport: Tank truck, rail, ship Fuel + LPG service/delivery trucks Gas stations: Underground fuel drop, above-ground tank loading, curb pump Oilfield: Fuel transfer		Up to E85 Curb Pump MegaFlex versions Constant contact tube materials -65° F Cold weather MegaFlex Multiple-colors Smooth and corrugated covers
 BLACK GOLD	Oil and gas well stimulation and fracking, crude oil, drilling mud, salt or fresh water, tank bottoms, and sewage transfer Tank truck service Rig site tank farms		UltraBration cover with yellow wear indicator frac hose MegaTuff cover frac hose 250#, 300#, and 400# options for fuel, chem, mud, material 200# MegaFlex Oilfield Vacuum
 BULK MASTER	Bulk Transport: Dry cement + hot air blower, aggregate and other abrasives; sand, gravel, feed, seed, and slurries		Superior abrasion resistance Heavy-duty sand blast 1/8", 3/16", and 3/4" tube thicknesses
 CLEAN MASTER	Commercial and industrial cleaning Breweries, dairies, food processing Sanitation operations Car washes Washdown in meat and poultry plants		Highly flexible and lightweight 150#-1000# Washdown options Full line includes non-marking colors Male/Female QD's
 PLANT MASTER STEAM	Saturated and superheated steam Cleaning tanks and other industrial equipment Pumping, heating, thawing, steam pumps, blow-out service, Open-end and permanent installations		450° F constant temp rating Red (Plus) has a special oil-resistant cover for refineries Qualified for crimping with Dixon and Campbell permanent couplings
 MINE MASTER	Underground and surface mining Food Plant and equipment washdown Rock dusting Air Drill Heavy-duty air (bull hose) High pressure water transfer		MSHA rated covers Oil resistant tube, abrasion resistant covers Mine Spray is a superior wire-braid washdown hose 600psi 300° F hot air drill hose
 PLANT MASTER	Air, water, oil, fuel, diluted chemicals Food and Beverage plant washdown Jackhammer hose Non-conductive applications Lock-on Color coding		Superior abrasion and oil resistance Broad selection of sizes/colors Megacrimp qualified on select products Std/Plus/Xtreme options Pressures from 150psi to 501psi



PROPRIETARY GATRON™
modified XLPE backing is best in class for chemical resistance and coupling retention

MEGAFLEX hoses are 35% LIGHTER WEIGHT AND 65% MORE FLEXIBLE compared to typical transfer hose.



Fuel/Oilfield Megaflex Hoses: 1:1 MBR, Chemical/Food Megaflex Hoses = 2:1 MBR

2024 NEW PRODUCTS

NEW Clean Master Plus 6000 Pressure Wash Hose is 50% MORE FLEXIBLE, 22% LIGHTER WEIGHT, AND 9% MORE COMPACT on average, compared to traditional 6000 PSI pressure wash hoses (Varies by size).



NEW Clean Master Assemblies 3/8" 4K/6K in all colors, 50ft/100ft



STAY TUNED for additional NEW products coming in 2024

UPSELL OPPORTUNITY
Bundle Plant Master Xtreme™ 300AR and 501AR air and washdown hoses with hydraulics and **crimp it ALL with Megacrimp**