

HF hydrofit™
Quick Connect Fittings Catalog





HYDROFIT™ - QUICK CONNECT FITTINGS

Are your best choice for all of your connection needs.

Made from FDA approved high grade Polyacetal. HYDROFIT™ Fittings are designed to meet strict market requirements and are manufactured under precise tolerance levels.

HYDROFIT™ - QUICK CONNECT FITTINGS

HYDRO FIN DESIGN handles are ergonomically designed, offer ease of use, and provide a smoother valve rotation.

HYDROFIT™ - QUICK CONNECT FITTINGS

Are suitable for water and multiple liquids.

Manufactured with safe, non toxic FDA approved material.

Certified to NSF /ANSI Standard 61



Independently tested to NSF /ANSI Standard 58 Testing Criteria



- Static - 3x Rated Pressure or 300 PSI minimum
- Burst - 4x Rated Pressure or 400 PSI minimum
- Cyclic - 100,000 cycles at 150 PSI

HYDROFIT™ - QUALITY AND INNOVATION

HYDROFIT™ - Quick Connect Fittings offer you a quality engineered product designed to give you a reliable connector for a reliable connection. HYDROFIT™ - Quick Connect Fittings have been designed to provide you with all the typical benefits and ease of use of a quick connect fitting while providing you with an user friendly ergonomically pleasing design.

HYDROFIT's innovative design is not only an aesthetically appealing improvement to conventional quick connect fittings, our improved valve handle design allow for ease of use for installers, maintenance personnel and end users everywhere. The HYDROFIT™ exclusive HYDRO FIN DESIGN valve handles accommodate for an easier grip, less strain and smoother ball rotation for truly quick and easy operation.



HYDROFIT™ - Quick Connect Fittings have been tested by NSF International under NSF/ANSI Standard 61 and comply with FDA requirements for all materials in contact with food and drinking water. HYDROFIT™ - Quick Connect Fittings have been Independently Tested to NSF/ANSI 58 Standards for Burst pressure, Static pressure and Cyclic pressure testing (see chart) and undergo rigorous quality assurance testing for quality performance time and time again.

HYDROFIT™ - WELL CONNECTED^(SM)

HYDROFIT™ - Quick Connect Fittings are ideal for use on a broad range of applications; Reverse Osmosis Systems, Water Coolers, Coffee Machines, RV's, Misting Systems, Marine, Point-of-Use Filtration, Beverage Dispensing, Ice Makers, Car Wash Systems and many others. HYDROFIT™ - Quick Connect Fittings are designed to be used with potable water but are also compatible with a wide range of chemicals (see chart) to suit your multiple application needs.

HYDROFIT™ - Quick Connect Fittings do not require the use of any special tools for installation and create a tight seal on many tubing types. They offer a compact design, high durability, ease of use, consistent quality and an unparalleled cost to benefit ratio. In short, there is no disputing that with HYDROFIT™ you are truly... Well connected!



All materials in contact with food and drinking water are in compliance with the United States Food and Drug Administration



Certified to NSF/ANSI standard 61



USDA NSF H1
The grease used in Hydrofit Quick Connect fittings conforms to USDA NSF H1 recommendations



HDF-MC MALE CONNECTORS

Part Number	Description	Bag	Box
HDF-MC0402	1/4" Tube x 1/8" NPTF Male Connector	10	500
HDF-MC0404	1/4" Tube x 1/4" NPTF Male Connector	10	400
HDF-MC0406	1/4" Tube x 3/8" NPTF Male Connector	10	400
HDF-MC0604	3/8" Tube x 1/4" NPTF Male Connector	10	300
HDF-MC0606	3/8" Tube x 3/8" NPTF Male Connector	10	250
HDF-MC0608	3/8" Tube x 1/2" NPTF Male Connector	10	250
HDF-MC0806	1/2" Tube x 3/8" NPTF Male Connector	10	200
HDF-MC0808	1/2" Tube x 1/2" NPTF Male Connector	10	200



Male Connector

HDF-FC FEMALE CONNECTORS

Part Number	Description	Packaging	Case Qty
HDF-FC0404	1/4" Tube x 1/4" NPT Female Connector	10	350



Female Connector

HDF-UC UNION CONNECTORS

Part Number	Description	Packaging	Case Qty
HDF-UC04	1/4" Tube x 1/4" Tube Union Connector	10	400
HDF-UC06	3/8" Tube x 3/8" Tube Union Connector	10	300
HDF-UC0604	3/8" Tube x 1/4" Tube Reducing Union	10	300



Union Connector

HDF-BU BULKHEAD UNIONS

Part Number	Description	Packaging	Case Qty
HDF-BU04	1/4" Tube x 1/4" Tube Bulkhead Union	10	300
HDF-BU06	3/8" Tube x 3/8" Tube Bulkhead Union	10	180
HDF-BU0604	3/8" Tube x 1/4" Tube Bulkhead Union	10	180



Bulkhead Union



Brass Fitting



Hose Fitting



Union Elbows



Fixed Elbow

HDF-BF

BRASS FITTINGS

Part Number	Description	Bag	Box
HDF-BF0404	1/4" Tube x 1/4" Flare Female Connector	10	150
HDF-BF0604	3/8" Tube x 1/4" Flare Female Connector	10	150
HDF-BF0606	3/8" Tube x 3/8" Flare Female Connector	10	100
HDF-BF0412	1/4" Tube x 3/4" Female National Hose Connector	10	100

HDF-UE

UNION ELBOWS

Part Number	Description	Bag	Box
HDF-UE04	1/4" Tube x 1/4" Tube Union Elbow	10	400
HDF-UE06	3/8" Tube x 3/8" Tube Union Elbow	10	250
HDF-UE0604	3/8" Tube x 1/4" Tube Union Elbow	10	250

HDF-FE

FIXED ELBOW

Part Number	Description	Bag	Box
HDF-FE0402	1/4" Tube x 1/8" NPTF Fixed Elbow	10	500
HDF-FE0404	1/4" Tube x 1/4" NPTF Fixed Elbow	10	400
HDF-FE0406	1/4" Tube x 3/8" NPTF Fixed Elbow	10	300
HDF-FE0604	3/8" Tube x 1/4" NPTF Fixed Elbow	10	300
HDF-FE0606	3/8" Tube x 3/8" NPTF Fixed Elbow	10	250
HDF-FE0608	3/8" Tube x 1/2" NPTF Fixed Elbow	10	250
HDF-FE0808	1/2" Tube x 1/2" NPTF Fixed Elbow	10	150

HDF-ECV		ELBOW CHECK VALVE	
Part Number	Description	Bag	Box
HDF-ECV0402	1/4" Tube x 1/8" NPTF Elbow Check Valve	10	500



Elbow Check Valve

HDF-ICV		INLINE CHECK VALVES	
Part Number	Description	Bag	Box
HDF-ICV04	1/4" Tube x 1/4" Tube Inline Check Valve	10	300
HDF-ICV06	3/8" Tube x 3/8" Tube Inline Check Valve	10	150



Inline Check Valve

HDF-MBT		MALE BRANCH TEES	
Part Number	Description	Bag	Box
HDF-MBT0404	1/4" Tube x 1/4" NPTF X 1/4" Tube Male Branch Tee	10	300
HDF-MBT0606	3/8" Tube x 3/8" NPTF X 3/8" Tube Male Branch Tee	10	200



Male Branch Tee

HDF-SBT		STEM BRANCH TEE	
Part Number	Description	Bag	Box
HDF-SBT0404	1/4" Tube x 1/4" Stem X 1/4" Tube Stem Branch Tee	10	300
HDF-SBT0606	3/8" Tube x 3/8" Stem X 3/8" Tube Stem Branch Tee	10	150



Stem Branch Tee



Union Tee



Stem Run Tee



Male Run Tee



Two-Way Divider

HDF-UT UNION TEES

Part Number	Description	Bag	Box
HDF-UT04	1/4" Tube x 1/4" Tube x 1/4" Tube Union Tee	10	300
HDF-UT06	3/8" Tube x 3/8" Tube x 3/8" Tube Union Tee	10	150
HDF-UT0406	1/4" Tube x 1/4" Tube X 3/8" Tube Union Tee	10	150
HDF-UT0604	3/8" Tube x 3/8" Tube x 1/4" Tube Union Tee	10	150

HDF-SRT STEM RUN TEE

Part Number	Description	Bag	Box
HDF-SRT0404	1/4" Tube x 1/4" Tube X 1/4" Stem Run Tee	10	300
HDF-SRT0606	3/8" Tube x 3/8" Tube X 3/8" Stem Run Tee	10	200

HDF-MRT MALE RUN TEES

Part Number	Description	Bag	Box
HDF-MRT0404	1/4" Tube x 1/4" Tube x 1/4" NPTF Male Run Tee	10	300
HDF-MRT060404	3/8" Tube x 1/4" Tube x 1/4" NPTF Male Run Tee	10	200
HDF-MRT060604	3/8" Tube x 3/8" Tube x 1/4" NPTF Male Run Tee	10	200

HDF-TW TWO-WAY DIVIDERS

Part Number	Description	Bag	Box
HDF-TW04	1/4" Tube x 1/4" Tube X 1/4" Tube Two Way Divider	10	300
HDF-TW06	3/8" Tube x 3/8" Tube X 3/8" Tube Two Way Divider	10	120



HDF-MSA

MALE STEM ADAPTERS

Part Number	Description	Bag	Box
HDF-MSA0404	1/4" Stem x 1/4" Male NPTF	10	500
HDF-MSA0604	3/8" Stem x 1/4" Male NPTF	10	400
HDF-MSA0606	3/8" Stem x 3/8" Male NPTF	10	300



Male Stem Adapter

HDF-FF

FAUCET FITTINGS

Part Number	Description	Bag	Box
HDF-FF04	1/4" Tube x 7/16"-24 UNS Faucet Fitting	10	300
HDF-FF06	3/8" Tube x 7/16"-24 UNS Faucet Fitting	10	300



Faucet Fitting

HDF-PE

PLUG IN ELBOW

Part Number	Description	Bag	Box
HDF-PE0404	1/4" Stem x 1/4" Tube Plug In Elbow	10	500
HDF-PE0406	1/4" Stem x 3/8" Tube Plug In Elbow	10	300
HDF-PE0604	3/8" Stem x 1/4" Tube Plug In Elbow	10	300
HDF-PE0606	3/8" Stem x 3/8" Tube Plug In Elbow	10	300



Plug In Elbow

HDF-SC

STEM CONNECTOR

Part Number	Description	Bag	Box
HDF-SC0604	3/8" Stem x 1/4" Stem Tube Connector	10	300



Stem Connector



Angle Stop Valve Adaptor



Male Ball Valve



Inline Ball Valve



Tank Ball Valve



Feed Water Adaptor

HDF-ASVA ANGLE STOP VALVE ADAPTOR

Part Number	Description	Bag	Box
HDF-ASVA-14	3/8" Thread x 1/4" Tube (with 1/2 adaptors)	10	200
HDF-ASVA-38	3/8" Thread x 3/8" Tube (with 1/2 adaptors)	10	200

HDF-BVM MALE BALL VALVES

Part Number	Description	Bag	Box
HDF-BVM0404	1/4" Tube x 1/4" Male NPT Ball Valve	10	150
HDF-BVM0606	3/8" Tube x 3/8" Male NPT Ball Valve	10	100

HDF-BVI INLINE BALL VALVES

Part Number	Description	Bag	Box
HDF-BVI04	1/4" Tube x 1/4" Tube Inline Ball Valve	10	150
HDF-BVI06	3/8" Tube x 3/8" Tube Inline Ball Valve	10	100
HDF-BVI0604	3/8" Tube x 1/4" Tube Inline Ball Valve	10	100

HDF-BVT TANK BALL VALVES

Part Number	Description	Bag	Box
HDF-BVT0404	1/4" Tube x 1/4" Female NPT Tank Ball Valve	10	120
HDF-BVT0604	3/8" Tube x 1/4" Female NPT Tank Ball Valve	10	100

WNV FEED WATER ADAPTOR

Part Number	Description	Bag
WNV-3	1/2" FNPT x 1/2" NPT x 1/4" Tube Feed Water Adaptor	100
WNV-4	1/2" FNPT x 1/2" NPT x 3/8" Tube Feed Water Adaptor	100



HDF-CT COLLETS

Part Number	Description	Bag
HDF-CT04	1/4" Collet White	300
HDF-CT06	3/8" Collet White	300



Collet

HDF-LC LOCKING CLIP

Part Number	Description	Bag
HDF-LC04R	1/4" Locking Clip Red	1000
HDF-LC06R	3/8" Locking Clip Red	1000



Locking Clip

HDF-TC TUBE CUTTER

Part Number	Description	Box
HDF-TC	Tube Cutter	200



Tube Cutter

HDF-ORING O-RING

Part Number	Description	Bag
HDF-04ORING	1/4" O-Ring	1000
HDF-06ORING	3/8" O-Ring	1000
HDF-08ORING	1/2" O-Ring	1000



O-Ring

HDF-PG PLUG

Part Number	Description	Box
HDF-PG04WH	1/4" Plug White	1000



Plug



1/4" Tubing



3/8" Tubing



1/2" Tubing

PT04 1/4" TUBING (500 FT ROLLS)

Part Number	Description	Packaging	Box
PT04-BK-0500	1/4" Polyethylene Tube - Black	1	2
PT04-BL-0500	1/4" Polyethylene Tube - Blue	1	2
PT04-GN-0500	1/4" Polyethylene Tube - Green	1	2
PT04-NA-0500	1/4" Polyethylene Tube - Natural	1	2
PT04-OG-0500	1/4" Polyethylene Tube - Orange	1	2
PT04-RD-0500	1/4" Polyethylene Tube - Red	1	2
PT04-WH-0500	1/4" Polyethylene Tube - White	1	2
PT04-YL-0500	1/4" Polyethylene Tube - Yellow	1	2

PT06 3/8" TUBING (500 FT ROLLS)

Part Number	Description	Packaging	Box
PT06-BK-0500	3/8" Polyethylene Tube - Black	1	1
PT06-BL-0500	3/8" Polyethylene Tube - Blue	1	1
PT06-NA-0500	3/8" Polyethylene Tube - Natural	1	1
PT06-RD-0500	3/8" Polyethylene Tube - Red	1	1
PT06-WH-0500	3/8" Polyethylene Tube - White	1	1

PT08 1/2" TUBING (250 FT ROLLS)

Part Number	Description	Packaging	Box
PT08-BK-0250	1/2" Polyethylene Tube - Black	1	1
PT08-BL-0250	1/2" Polyethylene Tube - Blue	1	1
PT08-NA-0250	1/2" Polyethylene Tube - Natural	1	1
PT08-WH-0250	1/2" Polyethylene Tube - White	1	1

TECHNICAL SPECIFICATIONS





CHEMICAL COMPATIBILITY

HYDROFIT™ - Quick Connect Fittings can be used on liquids other than potable water. We recommend that you consult with our Chemical Compatibility Chart to determine if they can be utilized under your specifications. You may also contact us to further verify compatibility.

FOOD QUALITY

HYDROFIT™ - Quick Connect Fittings are suitable for food and water use. They are manufactured using FDA approved materials and are certified by NSF to NSF/ANSI standards 61.

MAXIMUM TORQUE VALUES

Threads	Max. Torque
1/4"	1.0 ft/lb (1.5 Nm)
3/8"	2.2 ft/lb (3.0 Nm)
1/2"	2.2 ft/lb (3.0 Nm)

RESPONSIBILITY OF USE/ WARRANTY

HYDROFIT™ warrants its products against defects in manufacturing or materials. HYDROFIT™ - Quick Connect Fittings are warranted for water use only unless specified, in writing, by HYDROFIT™. It is the responsibility of the installer/user to ensure that the installation is made correctly, leak free and that it is adequately maintained.

TECHNICAL SPECIFICATIONS

Materials of Construction

HYDROFIT™ - Quick Connect Fittings are made of the following components:

Body FDA POM (Polyacetal, Polyoxy Methylene)

O-Ring	Nitrile (NBR)
Collet	Polyoxy Methylene & SS Teeth

Fittings Working Pressure & Temperature Range

Max	150 PSI (10 BAR) @ 70°F (20°C)
Max	60 PSI (4 BAR) @ 140°F (60°C)
Min	33°F (1°C)

Tubing Working Pressure & Temperature Range

1/4" & 3/8"	- 230 PSI @ 70°F (15 BAR @ 20°C)
Max	120 PSI @ 150°F (8 BAR @ 65°C)
1/2"	- 150 PSI @ 70°F (10 BAR @ 20°C)
Max	90 PSI @ 150°F (6 BAR @ 65°C)

Tubing Use

Depending on the type of tube used, HYDROFIT™ - Quick Connect Fittings may be used at higher pressures and temperatures.

Plastic Tubing - Polyethylene, Nylon that conforms to the specifications listed under tube tolerances.

Braided Hose - Barbs must be utilized with clamps and must incorporate Tube to Hose Stems

Metal Tubing - Copper, Brass and Mild Steel that conforms to the tolerances listed under Tube Tolerances.

Metal Tubing (Hard) - HYDROFIT™ - Quick Connect Fittings are not designed for Hard Metal Tubing.

Outside Diameter	Inside Diameter
1/4"	0.160"
3/8"	0.250"
1/2"	0.37"

Potable Water Applications

HYDROFIT™ Tubing is suitable for potable water applications with a maximum chlorine content of 4ppm (parts per million). Water heated above 70°F (20°C) and/or pressure above the rated maximum pressures will significantly reduce the service life. Avoid direct exposure to sunlight. Direct exposure to sunlight will also reduce its service life and may

lead to failure. It is commonly known and good practice to inspect tubing and fittings regularly. Should there be evidence of damage, color change, cracking or hardening, fittings and tubing should be replaced immediately. All fitting and tubing should not be used near heat emitting appliances. Note: Hot and Cold water plumbing systems MUST comply with local plumbing code for pipe and fittings. Frequent visual inspections are advisable. Frequency should be predicated on the severity of the application, risk of failure or when failure could result in unacceptable downtime, damage or injury risk. Keep away from contact with ANY chemicals or aggressive liquids.

Food Quality

HYDROFIT™ Fittings and Tubing are produced with Food and Drug Administration (FDA CFR 21 177.2470 and 177.2600) approved material and can be used in food quality applications.

Side Loads

HYDROFIT™ Fittings Should not be exposed to excessive side loads. They should not be used to support brackets or other components and extreme caution should be taken during shipping and transportation to prevent undue stress and excessive side loading.

Suitability

It is the customers responsibility to gauge and ensure that HYDROFIT™ Fittings and Tubing are suitable for their specific application and variable parameters. All HYDROFIT™ Fittings and Tubing should be installed in accordance to the recommended guidelines and specifications.

Responsibility of Use

While HYDROFIT™ gives a warranty against defects in manufacture and materials, it is the responsibility of the user/installer to ensure that all fittings and tubing are suitable for their application. The installation must be carried out correctly and comply with recognized codes and national standards. All connections must be properly maintained. Please refer to Terms and Conditions.

Installation and System Testing

Fittings and tubing installations should be pressure tested and each connection inspected by pushing and pulling on the connection points prior to handing over to final user.

INCH SPECIFICATIONS CHART

OD (inch)		Wall Thickness (inch)		Max. Ovality (inch)	Min. Bend Radius @ +20°C (mm)	Max. Working Pressure (bar)		
D	Tolerance	e	Tolerance			-15°C to +20°C	+40°C	+65°C
1/4"	± 0.0004	0.047	± 0.0004	± 0.008	1"	16	12	10
3/8"	± 0.0004	0.063	± 0.0004	± 0.009	1.25"	13	12	7
1/2"	± 0.0004	0.063	± 0.0004	± 0.01	2.5"	11	9	7



HYDROFIT™ - Quick Connect Fittings

Installation Instructions

Step 1. Cut the Tubing

Cut the tube cleanly and squarely. Ensure that the tube has a smooth outside diameter without any burrs, chamfers or score marks prior to inserting it into the fitting. Tubing that has not been cut properly can cause drips and leaks.

Step 2. Insert Tubing

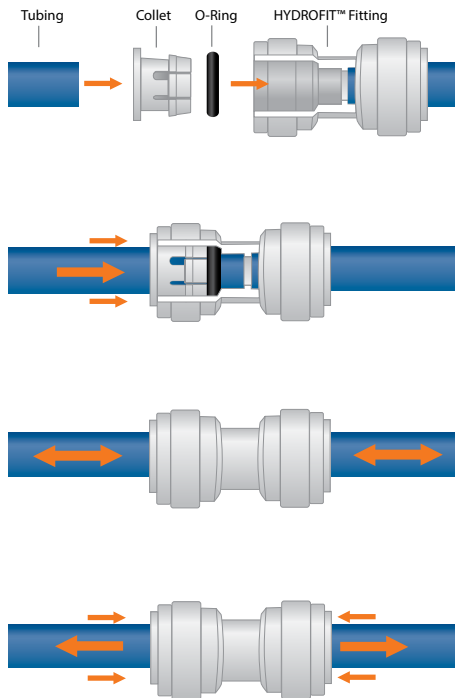
Push the tubing through the collet and o-rings until it bottoms out against the tube stop. The collet holds the tube in place and the o-ring provides a leak resistant seal. If you need to remove the tubing always re-cut before connecting tubing again. Scores on tubing can cause failure.

Step 3. Inspect and Test

Push and pull the tubing toward and away from the fitting to ensure that it has been installed properly. Test and inspect the installation for any leaks.

Tube Removal

Relieve pressure from the tubing and fitting. Push the collet flange against the fitting body while pulling the tubing away from the fitting to release it.



RECOMMENDED MAINTENANCE

It is recommended that installations are inspected a minimum of once per year and parts replaced as needed.

USE LOCKING CLIPS



To ensure that connections don't release accidentally we recommend you use locking clips on all connections.



TUBE CUTTER

For clean, square, chamfer, and burr free cuts always use a HYDROFIT™ Tube Cutter. Never use scissors or other non approved cutting devices. Use of these could result in failure and damage.



Certified to NSF/ANSI Standard 61

CHEMICAL COMPATIBILITY CHART

CHEMICAL	COMPATIBILITY	CHEMICAL	COMPATIBILITY
Acetic Acid	Good	Hydrofluoric Acid - Dilute	Good
Acetone	Good	Hydrogen Peroxide 3%	Satisfactory
Air	Good	Hydrogen Sulfide	Good
Ammonia - Cold Gas	Good	Lactic Acid 20%	Good
Ammonium Carbonate	Good	Linseed Oil	Good
Ammonium Chloride	Good	Maleic Acid	Unsuitable
Ammonium Nitrate	Good	Mercury	Good
Ammonium Sulfate 10% pH 5.8	Good	Methyl Chloride	Unsuitable
Amyl Alcohol	Satisfactory	Milk	Good
Aniline	Satisfactory	Natural Gas	Unsuitable
Beer	Good	Nickel Salts	Good
Benzaldehyde	Good	Nitric Acid 10%	Satisfactory
Borax	Good	Nitric Acid - Concentrated	Unsuitable
Boric Acid	Good	Olive Oil	Satisfactory
Bromine Water	Unsuitable	Oxalic Acid	Good
Butane	Unsuitable	Petrol	Unsuitable
Butter	Good	Phosphoric Acid 20-25%	Good
Butyl Acetate	Satisfactory	Phosphoric Acid - Concentrated	Satisfactory
Calcium Chloride	Good	Potable Water	Good
Calcium Hypochlorite	Good	Potassium Hydroxide 50%	Good
Carbon Tetrachloride	Unsuitable	Propane	Unsuitable
Chlorine - Dry	Unsuitable	Pyridine	Satisfactory
Chlorine - Wet	Unsuitable	Salt Water	Good
Chloroform	Unsuitable	Soap Solution	Good
Chromic Acid 3%	Unsuitable	Sodium Carbonate 10%	Good
Citric Acid 10%	Satisfactory	Sodium Chloride 10%	Good
Coke Oven Gas	Unsuitable	Sodium Hydroxide (Caustic Soda Solution)	Good
Cottonseed Oil	Unsuitable	Sodium Hypochlorite (12.5% Active Chlorine)	Satisfactory
Creosote	Satisfactory	Sodium Nitrite 10% pH 8.8	Good
Cyclohexanol	Satisfactory	Stearic Acid	Satisfactory
Cyclohexanone	Good	Sulfur	Good
Detergent Solution	Good	Sulfur Chloride	Unsuitable
Dimethylformamide	Satisfactory	Sulfur Dioxide Gas	Good
Ethyl Acetate	Satisfactory	Sulfuric Acid - Concentrate	Unsuitable
Ethyl Alcohol 50%	Good	Tar	Unsuitable
Ethyl Alcohol 95%	Good	Tartaric Acid	Satisfactory
Formaldehyde 40%	Satisfactory	Toluene	Unsuitable
Formic Acid 10%	Good	Trichloroethane	Unsuitable
Glucose	Good	Vegetable Oil	Satisfactory
Glycerin	Good	Vinegar	Good
Hydrobromic Acid	Good	Zinc Salts	Good



TERMS AND CONDITIONS

The products described in this document are hereby offered for sale to be established by Hydrofit Quick Connect Fittings, Polaris Scientific Ultraviolet, Hydron Membranes, Aquatrol, Shok Blok, HydroGuard, Hydronix Water Technology, any of its subsidiaries and its authorized distributors. This offer and its acceptance by any customer (the "Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in this document, when communicated to Hydrofit Quick Connect Fittings, Polaris Scientific Ultraviolet, Hydron Membranes, Aquatrol, Shok Blok, HydroGuard, Hydronix Water Technology, its subsidiaries or an authorized distributor (the "Seller") verbally or in writing, shall constitute acceptance of this offer. Provided, however, that these terms and conditions shall not operate as a rejection of the Buyer's offer unless such offer contains variances in the description, quantity, price, or delivery schedule of the items.

1. Terms and Conditions of Sale.

All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of the Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein (the "Agreement"). The Buyer's acceptance of any offer to sell is limited to the terms and conditions in the Agreement. Any terms or conditions in addition to or inconsistent with those stated in the Agreement, proposed by the Buyer in any acceptance of an offer by the Seller, are hereby rejected. No such additional, different or inconsistent terms and conditions shall become part of the agreement between the Buyer and the Seller unless expressly accepted in writing by the Seller. The Seller's acceptance of any offer to purchase by the Buyer is expressly conditioned upon the Buyer's assent to all the terms and conditions in this Agreement, irrespective of any terms in addition to, or inconsistent with those contained in the Buyer's offer. Acceptance of the Seller's products shall in all events constitute such assent.

2. Documents.

Unless provided otherwise in the Agreement, all catalog descriptions, illustrations, drawings and literature or independently submitted estimates of performance, weights and measurements or other specifications provided by the Seller are mere approximations and the Seller reserves the right to alter or amend them at any time. The Seller reserves the right to correct clerical or technical errors in the contract documents. The Buyer shall furnish with his order all necessary specifications and information. The Seller takes no responsibility for goods manufactured, priced or delivered not in accordance with the order or the specifications unless the Buyer's order and specifications are clear and correct.

3. Prices.

Unless otherwise provided, all prices contained in our quotations and written acceptances are ex-works and do not include the cost of packing. All orders are accepted on the condition that all such prices are subject to revision by the Seller at any time before the goods are dispatched to take account of any price change. In the event that the Buyer does not place the entire order quoted by the Seller for the Buyer, the Seller reserves the right to revise its prices. The Seller also reserves the right to revise its prices if the Buyer modifies the specification or quantity of the goods or the delivery requirements after the order has been accepted by the Seller.

4. Advice.

All advice given in connection with the Seller's goods is provided without charge to the Buyer. ANY ADVICE AND ASSISTANCE GIVEN BY THE SELLER TO THE BUYER IS GIVEN AT THE BUYER'S RISK, AND THE SELLER SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE OR CLAIM ARISING THEREFROM.

5. Payment.

Unless otherwise provided in the Agreement, or explicitly agreed upon in writing by the Seller, payment is due in full 30 days from date of shipment of the items purchased herein under. (b) In the case of an installment contract, deliveries or parts, payment for each installment delivery or part shall be made under sub-clause (a) as if the same constituted a separate agreement. (c) Amounts not timely paid shall bear interest at the rate of 2-1/2% above the Seller's bank's prime rate from time to time in force. (d) In the event that the Buyer fails within one calendar month of the date for payment to effect any payment which may be due under the Agreement or any agreement with the Seller, or if the Buyer commits any breach of the Agreement, or if the Buyer becomes insolvent or commits any act of bankruptcy or contemplation of liquidation, the Seller will be entitled, without prejudice to the Seller's other rights, to terminate the Agreement or any unfulfilled part thereof, or at the Seller's option to make partial deliveries.

6. Modifications and Cancellations.

This Agreement is not subject to oral modification or cancellation. A Buyer's request for modification or cancellation will not be incorporated into the Agreement unless the request is accepted by the Seller in a writing that amends the Agreement. Acceptance of any such requested modification or cancellation shall be at the Seller's discretion and shall be upon such terms and conditions as the Seller may require.

7. Handling Charge.

Goods supplied in accordance with the Buyer's order may later be returned to the Seller at the Seller's discretion provided the return is pre-authorized in writing, and the merchandise is unused, in original packages, unaltered, clean and no older than 60 days from the date of shipment by the Seller. The Buyer will be required to pay to the Seller a handling charge of 25% of the purchase price of the returned goods. A copy of the original invoice for the merchandise must accompany all returns.

8. Delivery.

(a) Any delivery dates quoted are approximate only and the Seller shall have no liability for any delays in delivery. (b) Unless provided otherwise, delivery of the goods shall be made when the Seller has notified the Buyer that the goods are ready for dispatch. Regardless of the method of delivery, delivery shall be made F.O.B. Seller's plant, where the risk of loss shall thereupon pass to the Buyer upon the Seller's delivery to a carrier. Notwithstanding that the Seller's prices are ex-works, the Seller is prepared by special contract to procure carriage or freight and insurance on behalf of the Buyer and at Buyer's cost in which event the Seller shall be under no liability for damage in transit or loss or damage to the goods beyond the point at which the Seller contracts to deliver the same. (c) The Seller will not make drop shipments.

9. Inspection and Rejection.

(a) The following provisions shall apply in relation to all deliveries of goods: the Seller shall not be held liable for any claims of damage in transit, shortage of delivery or loss of goods, unless in the case of shortage of delivery, a separate notice in writing is given to the carrier concerned and to the Seller within three (3) days of the receipt of the goods, followed by a complete claim in writing within five (5) days of receipt of the goods and in the case of loss of goods, a separate notice in writing is given to the carrier concerned and to the Seller and a complete claim in writing made within thirty (30) days of the date of consignment. The Buyer must inspect the goods on arrival from the carrier; however, where goods are accepted from the carrier concerned without being inspected, the delivery book of the carrier concerned must be signed "not examined". The Seller shall have the right to inspect the goods at the Buyer's premises in respect to any such claims made by the Buyer and the Buyer shall retain such goods until the Seller has inspected such goods or until the Seller has notified the Buyer that the Seller does not wish to inspect such goods. Any breach of these conditions in this provision shall serve as a waiver to any claim brought by the buyer. (b) Without prejudice to the Seller's other rights, should the Buyer fail for any reason to send the Seller forwarding instructions within ninety (90) days after the date of the Seller's notification that the goods are ready for dispatch or to accept delivery of the goods, the Seller shall be entitled at the Buyer's risk and expense to store the goods and/or to procure or effect storage of the goods elsewhere. Goods so stored shall be paid for as if they had been dispatched and/or accepted.

10. Special Tooling.

Where it is necessary for the Seller to manufacture or to purchase special tooling, including without limitation tools, dies, jigs, mandrills, fixtures, molds, and patterns, in order to execute a contract, the Buyer will be charged with all or a proportion of the cost of such special tools. Such special tooling shall be and remain the Seller's property notwithstanding payment of any charges made by the Buyer. In no event will the Buyer acquire any interest in apparatus belonging to the Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by the Buyer therefore. Unless otherwise agreed, the Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

11. Test and Performance.

(a) The Seller's goods are, where practicable, submitted to the Seller's standard test before delivery. If special tests are required, these shall be made at the Seller's premises unless otherwise agreed, and will be subject to an extra charge. (b) The Seller accepts no liability for failure to attain any performance figures quoted by the Seller unless the Seller specifically has guaranteed them with an agreed sum as liquidation damages and the Buyer has suffered actual loss by reason of the failure to attain the figures quoted. (c) Any particulars of weights and measurements, power and consumption, power output or performance relating to the goods and like matters furnished by the Seller to the Buyer in the Seller's catalogs, literature or otherwise, are approximate and are intended only to present a general idea of the goods to be supplied and unless previously agreed specifically in writing shall not form part of the Agreement.

12. Buyer's Property.

Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished to the Seller by the Buyer, or any other items which become the Buyer's property, may be considered obsolete and may be destroyed by the Seller after two (2) consecutive years have elapsed without the Buyer placing an order for the items which are manufactured using such property. The Seller shall not be responsible for any loss or damage to such property while it is in the Seller's possession or control.

13. Taxes.

Unless otherwise indicated, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by the Seller, or if the Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the item sold. The Buyer agrees to pay all such taxes or to reimburse the Seller therefore upon receipt of its invoice. If the Buyer claims exemption from any sales, use or other tax imposed

by any taxing authority, the Buyer shall promptly indemnify and hold the Seller harmless from and against any such tax, as well as any interest or penalties thereon which may be assessed if the items are held to be taxable.

14. Warranty.

EXCEPT AS EXPRESSLY WARRANTED IN WRITING BY THE SELLER, THE GOODS SOLD BY THE SELLER ARE PURCHASED BY THE BUYER "AS IS." THE SELLER DOES NOT WARRANT THAT THE GOODS ARE OF MERCHANTABILITY QUALITY OR THAT THEY CAN BE USED FOR ANY PARTICULAR PURPOSE. EXCEPT AS EXPRESSLY WARRANTED IN WRITING BY THE SELLER, THE SELLER MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND WITH RESPECT TO THE PRODUCTS.

(a) The Seller warrants that the items sold hereunder shall be free from defects in material or workmanship at the time of shipment by the Seller. The Seller warrants that if within 12 months of delivery of the goods to the Buyer the Buyer returns immediately to the Seller's premises any of the said goods which the Buyer believes to be defective, carrier paid, properly packed and clearly marked with the Buyer's full name and address and any other information such as serial numbers which may be necessary to enable the goods to be identified, together with a complete description of the alleged defect, they will be repaired or new goods will be supplied in exchange and the goods so repaired or such new goods will be delivered to the Buyer free of charge at the Seller's premises; provided, however, that the foregoing warranty shall be applicable only if upon demand by the Seller, the Buyer proves to the Seller's satisfaction: (i) that the defect was due solely to defective workmanship; (ii) that no alterations or repairs have been made to the goods except with the Seller's written consent; (iii) that the defect was not caused by any act of the Buyer or its agents; and (iv) that the defect was not caused by any matter beyond the reasonable control of the Seller, including, without limitation, accident or normal wear and tear. (b) THIS WARRANTY DOES NOT APPLY UNLESS THE SELLER'S PRODUCTS ARE: (I) USED IN DOMESTIC PLUMBING APPLICATIONS; (II) INSTALLED BY A LICENSED CONTRACTOR, PLUMBER OR QUALIFIED EQUIPMENT INSTALLATION PROFESSIONAL; AND (III) INSTALLED AND OPERATED IN ACCORDANCE WITH PUBLISHED HYDROFIT / HYDRONIX WATER TECHNOLOGY SPECIFICATIONS. (c) All costs and expenses, including freight charges, customs duties, and insurance incurred in returning the goods to the Seller's premises in accordance with this provision shall be paid by the Buyer. The benefit of this warranty shall not be assignable by the Buyer. (d) THIS WARRANTY DOES NOT EXTEND TO ANY GOODS NOT MANUFACTURED BY THE SELLER EVEN THOUGH SUPPLIED BY THE SELLER NOR DOES IT EXTEND TO ANY SECOND-HAND OR RECONDITIONED GOODS NOR DOES IT EXTEND TO COMPONENTS MANUFACTURED BY THE SELLER BUT INSTALLED, ATTACHED OR WELDED BY THE BUYER OR HIS CUSTOMER ON EQUIPMENT NOT MANUFACTURED BY THE SELLER. GOODS NOT MANUFACTURED BY THE SELLER CARRY ONLY THE WARRANTY (IF ANY) OF THEIR MAKERS AND THE BUYER IS ENTITLED TO THE BENEFIT THEREOF ONLY SO FAR AS THE SELLER HAS THE POWER TO TRANSFER IT. (e) THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. THE SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESSED OR IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING, ARE HEREBY DISCLAIMED. (f) NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY TO THE BUYER'S DESIGN OR SPECIFICATIONS.

15. Limited Remedy.

THE SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS AGREEMENT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD. IN NO EVENT SHALL THE SELLER BE LIABLE TO THE BUYER OR ANY THIRD PARTY FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ANY ITEMS SOLD, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY. IN NO EVENT SHALL THE SELLER BE LIABLE TO THE BUYER OR ANY OTHER ENTITY FOR MORE THAN THE INVOICE PRICE RECEIVED BY THE SELLER FOR ANY NON-CONFORMING PRODUCTS. THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER ENTITY FOR PERSONAL INJURY, PROPERTY DAMAGE, OR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, SPECIAL, OR OTHER DAMAGES OF ANY KIND, INCLUDING WITHOUT LIMITATION THE COST OF PROCUREMENT OF SUBSTITUTE GOODS, THE LOSS OF PROFITS, PRODUCTS, OR PRODUCTION, OR THE INTERRUPTION OF BUSINESS, HOWEVER CAUSED. THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER ENTITY ON ANY THEORY OF LIABILITY INCLUDING WITHOUT LIMITATION BREACH OF CONTRACT OR EXPRESS OR IMPLIED WARRANTY, TORT, NEGLIGENCE, FAILURE TO WARN, OR STRICT LIABILITY, AND WHETHER OR NOT THE SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE ESSENTIAL PURPOSE OF THIS PROVISION IS TO LIMIT THE LIABILITY OF THE SELLER ARISING OUT OF THE SALE OF PRODUCTS TO THE BUYER WHETHER FOR BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY AND NOTWITHSTANDING THE PROVISIONS OF ANY OTHER AGREEMENT BETWEEN THE SELLER AND THE BUYER.

16. Indemnity for Infringement of Intellectual Property Rights.

(a) The Buyer shall defend and indemnify the Seller against all actions, claims, demands, penalties and costs by third parties in tort, or for infringement, or alleged infringement, of patents, trademarks, copyrights, trade dress, trade secret or other rights of any third party resulting from the goods manufactured in accordance with the Buyer's specifications or based on any information provided by the Buyer. The Buyer will defend any action against the Seller for title, patent, trademark, copyright infringement, or other claimed by a third party at the Buyer's sole cost and expense. (b) The Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this provision. The Seller will defend and indemnify the Buyer against allegations of infringement of patents, trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). The Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against the Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. The Seller's obligation to defend and indemnify the Buyer is contingent on the Buyer notifying the Seller within 10 days after sole control over the defense of any allegations or actions, including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, the Seller may, at its sole expense and option, procure for the Buyer the right to continue using said item, replace or modify said item so as to make it non-infringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, the Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in combination or use in a system of any item sold hereunder. The foregoing in this provision shall constitute the Seller's sole and exclusive liability and the Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

17. Lien.

In addition to any right of lien to which the Seller may by law be entitled, the Seller shall have a general lien on all goods of the Buyer in the Seller's possession (although such goods or some of them may have been paid for) for the unpaid price of any other goods sold and delivered to the Buyer by the Seller under the same or other contracts.

18. Waiver.

The Seller's rights shall not be affected or restricted by any indulgence or forbearance granted to the Buyer. No waiver by the Seller of any breach shall operate as a waiver of any later breach.

19. Force Majeure.

The Seller shall be excused from performing any of its obligations under this Agreement which are prevented or delayed by any occurrence not within the reasonable control of the Seller, including but not limited to, accidents, acts of God, destruction or damage to the goods or the Seller's manufacturing plant, delays or failures in delivery of carriers or suppliers, shortages of materials, strikes or other labor matters, floods, earthquakes, fire, riots, explosions, or any regulations, rules, ordinances or orders of any governmental authority, federal, state or local, whether such cause exists at the date of the order or not.

20. Buyer's Representation of Solvency.

The Buyer hereby represents that as of the signing of this Agreement it was not insolvent within the meaning of the Uniform Commercial Code or any Bankruptcy Laws.

21. Assignment and Delegation.

The rights and obligations of the parties under this Agreement may not be assigned or delegated, except on the express written consent of the other party to the assignment or delegation.

22. Integration.

The rights and obligations of the parties and the terms and conditions set forth herein, together with any amendments, modifications and any different terms and conditions expressly accepted by the Seller in writing, shall constitute a complete and exclusive statement of the terms of this Agreement. This Agreement supersedes not only all prior agreements, but also oral agreements made contemporaneously with the execution of this Agreement. All such materials may not be used to supplement, explain, or contradict the terms of this Agreement.

23. Severability.

If any of these conditions or any part thereof purports to exclude or restrict or limit any liability and such exclusion or restriction or limitation is prohibited or rendered void or unenforceable by any legislation to which it is subject, or is itself prohibited or rendered void or unenforceable by any legislation to which it is subject, then the exclusion, restriction or limitation on the condition or part thereof in question shall be so prohibited or rendered void or unenforceable and the validity or enforceability of any other part of these provisions shall not thereby be affected.

24. Governing Law/Limitation on Actions.

The terms, conditions, rights, and obligations under this Agreement shall be construed under the laws of the State of California, without regard to principles of conflicts of laws. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by the Buyer more than two (2) years after such cause of action accrues.



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