

CHEMLINE PLASTICS

SUPERIOR FLOW SOLUTIONS

PRODUCT OVERVIEW

| VALVES | PIPING | FLOW METERS | CONTROLS |

2026



chemline.com
ISO 9001:2015 CERTIFIED



58 Years of Flow Control Solutions



The Authority in Industrial Plastics for Fluid Handling

Chemline Plastics celebrates 58 years of success providing superior flow control solutions. We serve many markets - industrial, municipal, and commercial. Applications include corrosive chemicals, high purity fluids and water.

Products

Chemline markets and distributes a large range of solid thermoplastic valves, controls, flow meters, pumps, tubing systems, specialty piping and fittings, pipe fusion equipment and filtration and irrigation products. We also fabricate manifolds and pipe spools. Our valve line in particular is extensive in the number of types, size range, choice of materials and actuation and accessory options.

Materials

Our products are made of PVC, CPVC, PP, PP-RCT, PVDF, ECTFE, HDPE, PFA, PTFE, PPG, PPSG, FRP and other materials.

Background

Founded in 1968, we were a pioneer in our market and have maintained our leadership position. We started by offering plastic valves as a long term cost effective corrosion resistant alternative to metal. A big part of our efforts continues to be solution sales.





Sales Channels

Chemline normally sells through distributors. We partner with them to cover end users and contractors. We also deal with the larger Original Equipment Manufacturers (OEM's) and EPC's (Engineering, Procurement, and Construction) companies.

Support

Our full time Territory Managers offer training and sales support with our distribution partners. Product application assistance is also available from our inside technical and engineering staff. Our head office/warehouse is located in the Toronto suburb of Thornhill where we carry a large inventory.

Market Sectors

- Municipal and Industrial Waste and Water Treatment
- Landfills
- Chemical Production and Distribution
- Metallurgical Processing (mining)
- Metal Surface Finishing
- Pulp and Paper Mills
- High Purity water and chemicals for microelectronics
- High Purity water for pharmaceutical and labs
- Aquatic Life Support (aquariums)
- Aquaculture, Fisheries and labs
- Swimming Pools, Waterparks and Fountains
- Irrigation, Fertigation
- Data Centre Cooling
- Food Processing and Breweries





MARKETS

water treatment & environmental

- Municipal and Industrial Waste & Water Treatment
- Landfill Methane and Leachate Collection
- Soil Remediation
- Air Pollution and Odour Control
- Environmental Monitoring



ECTFE (Halar®) pipe and fittings for sodium hypochlorite piping system in a sewage treatment plant



ChemFlare™ System (valves, fittings, tubing) for sodium hypochlorite in a water treatment plant



18" PP butterfly valves with stainless steel stem extensions for a landfill methane collection system

process industrial

- Chemicals & Fertilizers
- Pulp & Paper
- Mining & Refining
- Surface Finishing
- Oil & Gas
- Food, Dairy, Breweries, Cosmetics
- Fish & Meat Processing, Rendering



16" Polypropylene butterfly valves with chainwheel operators on a weak acid system in a sulphuric acid plant



Butterfly and diaphragm valves for sulphuric acid in a copper and zinc electrowinning plant



8" PVDF diaphragm valve for hot hydrochloric acid in a steel pickling line

storage & transport

- Tank Trucks
- Chemical Storage & Distribution
- Ports, Railways
- Ship Building



PVC butterfly and diaphragm valves on fibreglass tanker trucks hauling corrosive chemicals



Blue PE piping for an underground compressed air system in a railway yard

high purity

Water & Chemicals

- Hospitals & Universities
- Government Research Laboratories
- Semiconductor & Photovoltaic
- Pharmaceuticals



Polypropylene Type 25 ball valves and butt fusion piping in a DI water system in the medical industry



ChemFlare™ system with PFA tubing and fittings and PVDF back pressure/relief valve on medical DI water



MARKETS



Electrically actuated PVC butterfly valves in aquarium sand filter system



24" PP butterfly valve installed in an aquarium saltwater filtration system



PVC ball, butterfly and swing check valves at a aquatic research centre saltwater filtration system



14" Polypropylene butterfly valves on a municipal swimming pool filtration system



PVC ball valves on a pool sodium hypochlorite chemical injection system



Actuated butterfly valves on a municipal swimming pool filtration system



Hydro Cyclone filtering out sand in a vineyard irrigation system



Compact PVC ball valves installed in a greenhouse irrigation system



PVC manifolds with spigot ends in a vertical hydroponic operation



SM Series PVC metering ball valves installed on a pressure washing manifold system



PP-RCT piping installed in an industrial process water application



Pre-Insulated PP-RCT pipe and PP-RCT piping installed in a chilled water system

- Aquariums
- Zoos
- Fisheries Laboratories
- Aquaculture
- Fish Hatcheries

aquatic life support

- Pools, Spas
- Waterparks
- Fountains

pools & water parks

- Greenhouse, Hydroponic Irrigation & Fertigation
- Sand Filtration Systems for Crop Irrigation

irrigation & fertigation

- Municipal Water Supply and Wells
- Hydronics
- Chilled Water Systems
- Data Centre Cooling Systems
- Geothermal Energy Systems
- Pressure & Softwash Systems

utility water

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VALVES

Ball Valves

- Chemline ball valves come in a wide selection of body materials, end connections and actuation options
- Sizes are up to 6" full port
- Metering and Proportional valves offer linear flow control
- New HYBRID ball valve has composite metal reinforced body, PFA or PVDF lined for severe chemical services at temperatures up to 160°C (320°F)



**Type 24
True Union**
PVC: 1/2" to 4"



**Type 25
True Union**
PVC, PP, PVDF:
1/2" to 2"



**Type 26
True Union**
PVC, CPVC, PP, PVDF:
1/2" to 4"



**Type XLT
True Union**
PVC: 1/2" to 4"



**Type 20
True Union**
PVC, CPVC:
1/2" to 4"



**Type 28
Compact**
PVC: 1/2" to 4"



**Type 33
Horizontal
Multi Port**
PVC, PP, PVDF: 3/8" to 2"



**SM Series
Metering**
PVC, PP: 1/2" to 1"



**SP Series
Proportional**
PVC, PP, PVDF: 1/2" to 2"



**HC Series
High Capacity**
PVC, PP, PVDF:
2-1/2" to 6"



HB Series HYBRID
PFA or PVDF Lined
PPG, PPSG: 1" to 3"

Butterfly Valves

- Type 58 delivers smooth, reliable flow control and long-term performance in demanding industrial and environmental applications.
- Type 60 is engineered for pools, fountains, irrigation and water systems with easy installation and reliable performance
- Type 61 features a streamlined disc designed for more linear flow control
- Giant butterflies 28" to 48" have a full seat for tight sealing
- New HYBRID butterfly valve has composite metal reinforced body, PFA lined for severe chemical services at temperatures up to 160°C (320°F)
- FRP dampers are for large diameter ducting systems



**Type 58
Elastomer
Seated**
PP, PVDF:
1-1/2" to 24"



**Type 59
Elastomer
Seated**
PVC, CPVC, PP, PVDF:
2" to 24"



**Type 60
Elastomer
Seated**
PVC, CPVC:
2" to 12"



**Type 61
Elastomer
Seated**
PVC, PP:
2-1/2" to 8"



**GY Series
Giant**
PP: 28" to 48"



**ChemValve
Fluoropolymer
Lined, Composite
Body**
2" to 12"



**ChemValve
Fluoropolymer
Lined, Ductile
Iron Body**
2" to 40"



**HY Series
HYBRID**
PFA Lined, Gear
PPG, PPSG: 3" to 12"



**Low Leakage
Damper**
FRP: 12" to 96"



VALVES

Diaphragm Valves

- New HYBRID diaphragm valve has composite metal reinforced body, PFA or PVDF lined for severe chemical service temperatures up to 160°C (320°F)
- **700 Series** – 1/2" to 4", either manual or pneumatically actuated, normally closed, normally open or double acting
 - modular design
 - compact dimensions
 - designed for water treatment and original equipment manufacturers (OEM's)



Type 761/760 True Union

PVC, CPVC, PP, PVDF: 1/2" to 4"



Type 16 Flanged

PVC, CPVC, PP, PVDF: 1/2" to 10"



DV Series True Union

PVC, CPVC, PP, PVDF: 1/2" to 2"



HD Series HYBRID PFA or PVDF Lined

PPG, PPSG: 1/2" to 6"



Type 720 Manual

PVC, CPVC, PP, PVDF: 3/8" & 1/2"



Type 710 Pneumatic

PVC, CPVC, PP, PVDF: 3/8" & 1/2"



Type 731 Pneumatic

PVC, CPVC, PP, PVDF: 1/2" & 3/4"



Type 750 Pneumatic

PVC, CPVC, PP, PVDF: 1" to 2"



Type 730 Pneumatic

PVC, CPVC, PP, PVDF: 1" to 4"

Check Valves

- New spring check valves up to 4" will close in any position within the piping system
- Wafer checks are a cost effective solution



Ball Check/Foot

PVC, CPVC, PP, PVDF: 1/2" to 4"



Spring Check

PVC: 1/2" to 4"
CPVC: 2-1/2" to 4"



SW Swing Check

PVC, CPVC, PP, PVDF: 1/2" to 8"



WE Wafer Check

PVC: 2-1/2" to 8"



WP Wafer Check

PVC, PP, PVDF: 2" to 40", plus

Gate & Globe Valves

- Gate valves are full port
- Globe valves are for throttling



GT Series Gate

PP: 1-1/2" to 8"



GB Series Globe

PVC, CPVC: 1/2" to 2"

Lab Valves

- CPVC lab cocks are now available



PVC, CPVC Lab Cocks

1/4"



PVC, CPVC Lab Cock Kits

1/4"



PVDF Lab Cocks

1/4"



Needle Valves

PVC, CPVC, PPG: 1/4" to 1/2"



Goosenecks

3/8"

Strainers & Gaskets

- New CPVC Y Strainers
- Flange gaskets are recommended for all plastic flanges. Required bolt torques to seal are a fraction of those for flat face gaskets.



YD Series Y Sediment Strainers

Clear PVC: 1/2" to 3"



YD Series Y Sediment Strainers

CPVC: 1/2" to 2"



YT Series Y Sediment Strainers

Clear PVC: 2-1/2" to 4"



Low Torque Flange Gaskets

EPDM, PTFE: 1/2" to 22"



VALVES

Electric Actuation

- Corrosion Resistant, lightweight plastic housings
- NEMA 4X/IP65 enclosure
- CSA Approved or Special Inspection labelled
- Multi-Voltage operation
- Adjustable Travel through full range
- Irreversible Gearing, backlash impossible
- Heater/Thermostats are supplied standard
- 2 Extra Switches for valve position feedback are supplied standard



ER Series



V Series



V Series



VSL Series – Low Temperature Model

ERS Series Model

- Lower cost version for ON-OFF operation only
- 120-240 VAC
- CSA special inspection labelled

ERF Series Model

- Fast acting version for ON-OFF operation only
- Two multi-volt versions: 12 VAC/VDC and 24 VAC/VDC
- CSA special inspection labelled

ER Series Model

- Full feature version with additional control options
- Two multi-volt versions: 120-240 VAC and 12-24 VAC & 12 VDC
- CSA approved

V Series Model

- Higher torque version with epicyclic gear train and hand wheel
- Two multi-volt versions: 120-240 VAC and 12-24 VAC & 12 VDC
- VSL Series Low-Temp. Model rated to -50°C (-58°F) is also available
- CSA approved

Accessories for Electric Actuators



Local Control Station

- Permits local or remote operation
- Local and remote feedback of valve position
- Override feedback

Options

- 4-20 mA Positioners
- 4-20 mA Retransmit
- Battery Fail Safe
- 2-Wire Control Relay
- Feedback Potentiometer
- 3 Position/Centre-off
- ASI-Bus
- Bluetooth module

Pneumatic Actuation

- Polyamide, 316 SS or Epoxy/Rilsan coated aluminum for high corrosion resistance and durability
- Rack and pinion construction
- Rated for over one million cycles
- Mechanical travel stops



PA Series
1/4 Turn
Coated Aluminum



PG Series
1/2 Turn
Coated Aluminum



PA Series
1/4 Turn
Coated Aluminum



PP Series
1/4 Turn
Glass Filled Polyamide



P3 Series
1/4 Turn
316 Stainless Steel

Accessories for Pneumatic Actuators



Limit Switches

- Standard Mechanical Switches or Explosion-Proof



Positioners

- 3-15 psi pneumatic
- 4-20 mA Electro-Pneumatic
- 4-20 mA Smart



Declutchable Gear Overrides



Solenoid Valves

- Bolt flush onto the actuator



Travel Stop Plates

- For use in open/close control or lockout functions

Valve Actuation Service

- Chemline actuates metal valves free issued by customers





VALVE ACCESSORIES

for Ball Valves

Shaft Extensions

- For ball, butterfly, diaphragm and gate valves
- Different materials and lengths are available
- Several designs:
 - with no housing for indoors
 - with waterproofed PVC housing for indoors or outdoors
 - with stainless steel housing for buried or actuated services
 - choice of handle, lever, gear operator or municipal operating nut



Handle Lockouts
with Hasp or Padlock



Valve Tags
Plastic or Stainless Steel



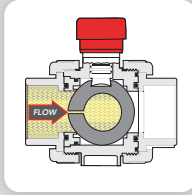
Manual Limit Switches



Municipal Operating Nuts



Shaft Extensions



Vented Ball
for sodium hypochlorite service



Gear Operators



Chain Wheel Operators

for Butterfly Valves

Chain Wheel Operators

- For overhead operation, with chain drop
- Cast iron standard, stainless steel is available
- Requires gear operator, sold separately

Shaft Extensions

- Same design as for ball valves



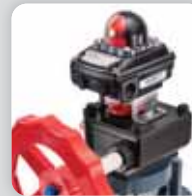
Handle Lockouts
with Hasp or Padlock



Chain Wheel Operators



Municipal Operating Nuts



Limit Switches



Shaft Extensions



Valve Tags
Plastic or Stainless Steel

for Gate & Diaphragm Valves



Low Torque Gaskets for all flanged valves
1/2" to 22"



Chain Wheel Operators



Hand Wheel Lockouts



TIG Welding for fabrication of shaft extensions

Other Options

- Silicone free valves
- Lubricant free valves
- Alternate material o-rings and seats



REGULATION & CONTROLS

Regulating Valves

- Leak-proof True Union ends
- Reliable and repeatable operation
- Low hysteresis
- **SB Series** function as both back pressure and relief valves in chemical dosing systems. They maintain system back pressure without "leakage".
- **SR50 Series** Pressure Regulating (Reducing) Valves are sensitive and provides precise control. Valves protect equipment from damaging pressure surges.



SB17 Mini Back Pressure/Relief

- Compact, fits tight spaces
- PVC, PP or PVDF
- 1/4" & 3/8"
- Certified under NSF 61



SB18 Back Pressure/Relief

- Reliable operation at lower cost
- PVC or PP
- 3/8" to 2"
- Certified under NSF 61



SB11 Back Pressure/Relief

- Proven superior performance on sodium hypochlorite
- PVC
- 1/2" to 1"
- Shown with ChemFlare™ end connections



SB12 Back Pressure/Relief

- Built-in check function for dosing applications
- PVC, PP or PVDF
- 3/8" to 4"
- Certified under NSF 61



SR50 Pressure Regulating (Reducing)

- Maintains a set downstream pressure independent of higher upstream pressures
- PVC, PP or PVDF
- 3/8" to 4"
- Certified under NSF 61

Characterized Control Valves

- Single seat globe type with a selection of linear or equal percentage seats and plugs
- High rangeability
- PTFE bellows provide precise and sensitive control
- Solid PVC, PP, PVDF or PTFE
- 1/2" to 4"



EE Series Electric Characterized Control

1/2" to 4"



EK Series Pneumatic Characterized Control

1/2" to 4"



EHK Series Pneumatic High Pressure Characterized Control

1/2" to 4"

Electrically Actuated

- For chemical dosing in municipal water treatment systems
- Outperforms expensive Teflon® lined globe valves
- Advanced control options for remote operation

Pneumatically Actuated

- Light weight corrosion resistant FRP pneumatic actuator
- For industrial chemical dosing systems
- Choice of positioners
- High pressure, lime slurry, chlorine and needle valve models are also available

Controls

Air Release Valves

- Normally open to expel air at piping high point

Injectors

- Suction at the side port is produced by venturi effect



AR Series Air Release

1/2" to 4"



SG Series Gauge Isolators

1/4" & 1/2"



SJ Series Injectors

3/8" to 3"



IN Series Injectors

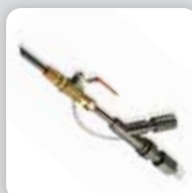
1/2", 3/4" & 1"

Chemical Feed Accessories



Calibration Columns

- All PVC construction
- Up to 20,000 ml capacity
- For accurate calibration of metering pumps
- 1/2", 1" & 2"



ChemLance Corporation Stops

- For sodium hypochlorite
- Precipitate build-up at injection points can be removed while in service
- PVC, 1/2" & 3/4"



Digiflow
FLOW X-3

Flow Sensors

- Available in CPVC, PVDF, 316L Stainless Steel
- NEMA 6,6P (IP68) sensors are available for outdoor or submersible applications
- High Accuracy: $\pm 0.75\%$ of full scale with standard K factor
- Accurately measures flow velocities down to 0.15 m/s (0.5 to 25 ft./sec.)
- ECTFE (Halar®) rotor, ceramic shaft and bearings: Offers long service life on corrosive industrial services



Direct Mount Flow Sensors



Remote Flow Sensors



Mini Flow Sensors



Ultra Low Flow Sensors



Oval Gear Flow Sensors



High Pressure Flow Sensors



No-Flow Switches



Blind Transmitters & Switches



Electromagnetic Flow Monitors/Transmitters



Hot-Tap Electromagnetic Flow Transmitters

Instruments

- Modular Design: 1/4" DIN size instruments can be mounted 3 ways: directly to sensor, remotely to panel or wall mounted



Flow Monitor/Transmitters



Battery Powered Flow Monitors



Batch Controllers



Direct Mount

Panel Mount

Wall Mount

Installation Fittings

- Sensor installation fittings are available for all sizes and types of pipes

Tees:

1/2" to 1-1/2"

Bolt-On Saddles:

2" to 12"

Metal Strap-On Saddles:

3" to 18"

Weld-On Adaptors:

1-1/2" to 24"





ANALYTICAL INSTRUMENTS, ROTAMETERS & PUMPS

Digiflow
CHEM X3

Analytical Instruments

- The ChemX3 line includes pH, ORP and conductivity/resistivity monitor/transmitters



Type M9.06
pH/ORP Monitor



Type M9.05
Conductivity
Monitor



Type M9.07
Dual Parameter
Conductivity &
Flow Monitor/
Transmitter

Variable Area Flow Meters

- Standard dimensions
- Flow tubes are interchangeable with +Georg Fischer+
- For water, chemicals or air, maximum 220 USGPM (water)
- Limit switches and flow transmitters are available



Variable Area
Flow Meters
3/8" to 2-1/2"



Flow
Transmitters
4 to 20 mA output



Limit Switches
For high and low flow
alarms

Choice of 4 Tube Materials for Many Applications:

- Clear PVC: for water or chemicals up to 60°C (140°F); high chemical resistance at low cost
- Polyamide (PA): for water or air up to 75°C (167°F); high impact strength and optical clarity
- Polysulfone (PSU): chemicals and gases up to 100°C (212°F); high impact strength and good chemical resistance
- PVDF: for chemicals and ultrapure fluids up to 110°C (230°F); high impact strength and excellent chemical resistance.

Pumps

- Horizontal Centrifugal or Vertical Centrifugal Sump
- Extreme corrosion resistance
- PP or PVDF construction
- Up to very high flow rates
- Chemline will quote a pump suitable for your specific service



SHM Series – Horizontal
Max Flow: 65m³/hr
(290 USGPM)



SHB Series – Horizontal
Max Flow: 130m³/hr
(575 USGPM)



NX Series – Horizontal
Heavy Duty
Max Flow: 1,000m³/hr
(4,400 USGPM)



ETLB-S Series – Vertical
Max Flow: 104m³/hr
(460 USGPM)



FLUOROPOLYMER TUBING SYSTEMS

PFA Tube & Fittings

Tubing

- PFA (perfluoroalkoxy) tubing is the choice for applications involving extreme chemical resistance at higher temperatures
- PFA is the highest grade of fluoropolymer tubing and has excellent mechanical properties
- Tubing sizes are 1/8" to 1"

Fittings

- Fittings are moulded from virgin high purity PFA or PVDF resin providing chemical resistance and ultra-high purity
- Fitting sizes are 1/4" to 1-1/4" in all popular configurations



Connectors



Unions



Union Reducers



Adaptors



Elbows



Sweeps



Union Tees



Reducing Tees



Branch Tees



Transitions

Flaring Machines & Tools

- Manual flare tools
- Torque wrenches
- Semi automatic bench top Flaring Machines



Universal Flare Tool



Hot Air Gun



Single Size Flare Tool



Cold Flaring Tool



TruFASTEN™ Torque Wrenches



Adjustable Grip Wrench



CHEMFLARE™ FLEXIBLE LEAK-FREE SYSTEM

Single Wall Systems

- Chemline's ChemFlare™ system is the long term leak-free alternative to standard PVC solvent welded piping on sodium hypochlorite chemical feed systems. Valves, controls and pumps with ChemFlare™ ends connect to ChemFlare™ fittings and PFA tubing.
- 25 years life expectancy for leak-free and maintenance-free service on sodium hypochlorite
- Systems are easy to install
- Mechanical connections
- No welding or curing waiting time, may be pressure tested immediately
- True Union valve sizes: 1/2", 3/4" & 1"
- Tubing sizes: 1/4", 3/8", 1/2", 3/4" & 1"

Do you have leaking chemicals? Consider a retrofit. Call Chemline to arrange a site visit.

SB12 Back Pressure/Relief Valves



All Chemline valves 1/2" to 1" with True Union ends are available with ChemFlare™ ends

Type 25 Ball Valves



Type 25 ball valves with the ChemFlare™ tubing system on dosing skids

Before



After



Before



Leaking sodium hypochlorite from solvent weld or threaded connections

After



ChemFlare™ tubing system and ECTFE piping on sodium hypochlorite service

Dual Containment Systems

For maximum safety level of chemical containment Tubing

- The carrier (inner) tube of PFA is the primary chemical line. The containment (outer) tube of FEP is translucent, permitting good visibility of the carrier tube.

Specialty Fittings

- Dripleg Fittings
- Dual containment tubing assemblies
- Dual containment splitter boxes
- Junction Boxes

Tubing Sizes O.D.

PFA Primary/FEP Containment

1/4"/1/2"
3/8"/3/4"
1/2"/3/4"
3/4"/1"



Dual Containment PFA carrier FEP containment



Junction Box



Dripleg Fittings



Dripleg Fittings



PIPING SYSTEMS

β-Polypropylene

for: Pure Water

Chemicals

Slurries



PP

Size range (ODmm)

pipe:	12	–	1,400
butt fusion fittings:	20	–	630
socket fusion fittings:	20	–	110
electro fusion fittings:	20	–	710
flanges:	20	–	630

Temperature range °C (°F)

PP-H: –5 to 90°C (23 to 194°F)

Applications

- Aggressive industrial chemicals up to 90°C (194°F)
- Slurries
- Universities and hospitals
- Deionized water systems
- Reverse osmosis water systems
- Food industry

PVDF

for: Purified Water for Semiconductors

Strong Acids

Organic Chemicals

Abrasive Slurries



PVDF¹

Size range (ODmm)

pipe:	16	–	400
butt fusion fittings:	20	–	315
socket fusion fittings:	20	–	110
flanges:	20	–	315

Temperature range °C (°F)

–40 to 121°C (–40 to 250°F)

Applications

- Chemical process piping
- Concentrated acids
- Organic chemicals
- Ultrapure water for semiconductor manufacturing
- Food industry

¹ NSF approved material

ECTFE (Halar®)

for: Sodium Hypochlorite (25+ years of service)

Hot Caustic Solutions

Purified Water for Semiconductors



ECTFE

Size range (ODmm)

pipe:	20	–	160
butt fusion fittings*:	20	–	160
valves:	20	–	63
flanges:	20	–	160

Temperature range °C (°F)

–76 to 150°C (–105 to 302°F),

• short term exposure to 170°C (338°F)

* size range depends on the specific fitting

Applications

- Best overall chemical resistance
- Sodium hypochlorite chemical feed
- Excellent resistance to mineral and oxidizing acids like PVDF but recommended for chlorine and hot alkalai solutions where PVDF is not
- High-purity water systems
- Chemical process piping



PP-RCT

for: Drinking Water
Chilled Water

PIPING SYSTEMS



PP-RCT

Size range (ODmm)
 pipe: 20 – 450
 socket fusion fittings: 20 – 110
 butt fusion fittings: 160 – 315
 butt fusion flanges: 160 – 315
 ball valves: 20 – 110
 butterfly valves: 63 – 200
 Temperature range °C (°F)
 -20 to 95°C (-4 to 203°F)

Approvals

- Certified according to NSF/ANSI 61 Standard for drinking water by ICC and IAPMO
- Conforms to CSA 137.11, ASTM F 2389

Applications

- Potable water for industrial processes – breweries, wineries, food production
- Chilled or hot water for commercial and industrial HVAC – data centers, chiller systems, hydronics

PP-RCT

for: Drinking Water
Chilled Water



PP-RCT

Size range (ODmm)
 pipe: 20 – 160
 socket fusion fittings: 20 – 160
 threaded fittings: 20 – 110
 flanges: 50 – 200
 valves: 20 – 125
 Temperature range °C (°F)
 -20 to 95°C (-4 to 203°F)



Approvals

- Certified under NSF/ANSI Standard 61 for drinking water

Applications

- Potable water for industrial processes – breweries, wineries, food production
- Chilled or hot water for commercial and industrial HVAC – data centers, chiller systems, hydronics

NoFire™ PP-RCT

for: Fire Attenuation
Sprinkler Systems



PP-RCT



Size range (ODmm)
 pipe: 20 – 160
 socket fusion fittings: 20 – 160
 grooved pipe fittings: 50 – 160
 threaded fittings: 20 – 110
 valves: 20 – 160
 Temperature range °C (°F)
 -20 to 95°C (-4 to 203°F)

Approvals

- Certified according to UL 1820 Standard: Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service (Third Edition, 2015). Section 13, Fire Exposure Test by QAI

Applications

- Fire attenuation wet pipe sprinkler systems
- Commercial buildings, residential apartments, houses

Dual Containment

for: "Maximum Safety"
Chemical Containment



PP

PVDF

ECTFE

SERIES: fused system
 SIZES: 3x1 to 20x16
 RATINGS: 150 psi & drainage
 Suitable for manual, low-point or continuous cable leak detection
 Temperature range °C (°F)
 • refer to individual material for specific operating temperatures

Applications

- Used for piping hazardous fluids underground or over a walkway in a plant
- Municipal water and wastewater treatment plant chemical lines
- Steel mills and plating shops
- Industrial waste treatment
- Bulk storage of chemicals
- Sulfuric, nitric and hydrofluoric acids for wet stations in semiconductor plants
- Sewage systems for pharmaceutical wastewater



FUSION TECHNOLOGY

Fusion Welding Machines

- For PP, PP-R, PP-RCT, PE, PVDF, PFA or ECTFE (Halar®) pipe, fittings and valve ends
- Butt or socket fusion models
- Available for rent or purchase
- Butt welding machines are contact heating element or non-contact infrared (IR) types
- Field or shop fabrication machines available for all pipe size ranges
- T.S.S.A. Approved Welding Procedure



- Representing WDS Fusion Welding Machines and Tools in Canada (formerly WIDOS)



Maxiplast Butt Fusion Welder with contact heating element
PE, PP, PP-RCT, PVDF, ECTFE



W3511W Socket Fusion Welder with contact heating element
PE, PP, PP-RCT, PVDF, PE



JIG Tool for Handheld
PE, PP, PP-RCT, PVDF, PE



W Series Hydraulic Butt Fusion Welder with contact heating element
PE, PP, PP-RCT, PVDF, ECTFE



SPA 600 Weld Log Recorder for 4900



CNC 3.0 Control Unit for 4900



SP63M Mobile Butt Fusion Welder with non-contact (Infrared) heating element
PE, PP, UPP, PVDF, ECTFE, PP-RCT



High Performance Electro Fusion Welder
PE, PP, PP-RCT, PVDF



Contact Socket Fusion Handheld Welder
PE, PP, PP-RCT, PVDF, PE



SP110.S30 Butt Fusion Welder with non-contact (Infrared) heating element
PE, PP, UPP, PVDF, ECTFE, PFA



SP250S and SP315S Butt Fusion Welder with non-contact (Infrared) heating element
PP, UPP, PP-RCT, PVDF, ECTFE

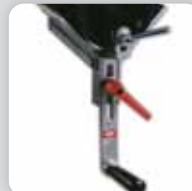
Pipe Welding Tools



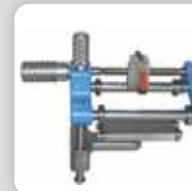
Electric Miniplaner



Adjustable Rollerstand



Pipe Chamfer



Pipe Peeler



315 Rotation Circular Saw



Outside Debeader



Hot Air Fusion Welder for field or shop, PVC, PE, PP, PVDF



PIPE FITTINGS



Grooved End Piping System

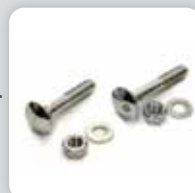
- Flexible pipe couplings & fittings for connecting grooved pipe
- 1-1/2" to 6"
- PAG joint pieces
- EPDM gaskets, FPM (Viton®) also available
- 304 SS fasteners
- PP, PE, PP-R fittings
- PP AlfaRapid™ ball valve, 1-1/2" to 4"
- Maximum pressure of Couplings/Fittings/Valves: 1-1/2" to 2-1/2": 230 psi
3" to 4": 150 psi
6": 90 psi
- Working temperature: -10 to 95°C (14 to 203°F)



Clamp Pieces
PAG



Gasket
EPDM or FPM



Fasteners
304 SS



Coupling



Nipples
PP



Reducers
PP



90° Elbows
PP



Tees
PP



Caps
PP



Male Adaptors
PP



90° Male
Threaded Elbows
PP



Flange Adaptors
PP



Butt Weld
Adaptors
PE



Ball Valves with
coupling ends
PAG

Grooving Tool

- Groove your PVC/CPVC Schedule 80 or HDPE SDR 11 pipe to connect AlfaRapid™ fittings and valves



Available
for rental or
purchase

PP-R Pipe Fittings & Valves



Pipe Unions
Socket & Butt
Weld
PP-R



Grooved End
Butt Weld
Adaptors
PP-R



Rapid Union
Ball Valves
PP-R



Compression
End Ball Valves
PP-R



Compact Ball
Valves
PP-R

Pipe Saddles

- PP with 304 SS reinforcing ring and hardware
- Pipe sizes: 1-1/2" to 6"
- FNPT branch: 1/2" to 2"
- Maximum working pressure: 235 psi



Bolt-on Saddles
ANSI, 1-1/2" to 6"



Bolt-on Saddles Installed
3" on PE pipe, 4" on PVC pipe



Manifolds

Materials/Dimensions

- PVC, CPVC, PE, PP, UPP, PP-R, PP-RCT, PVDF, ECTFE (Halar®)
 - Pipe sizes: 3" to 12" (90 to 280mm)
 - Branch sizes: 1/2" to 4" (20 to 110mm)*
- * 1-to-3 rule, the branch size should not be bigger than 1/3 of the manifold pipe size

Applications

- Membrane water treatment systems
- Hydro metallurgical processing plants
- Chemical processing
- Soil remediation
- Solar water heating
- Ice rinks

Approvals

- Available in NSF-61 approved material for water purification equipment or NSF-pw approved material for potable water use

MANIFOLDS

Chemline thermoplastic manifolds are fabricated using butt fusion, not hot air hand welding or socket fusion. Saddles are welded by a CNC machine. The resulting product is stronger, more reliable and cost effective. Dimensional tolerances are tighter also.

CNC Welding Technology offers:

Exact weld temperatures, pressures and times are controlled

- Better weld quality and resulting reliability

Dimensions are controlled exactly

- Precise dimensional tolerances for spigot spacing, orientation and offsets

Welding parameters are recorded and downloadable (heat, pressure, operation times for heat soak, cooling, etc.)

- Manufacturing traceability and quality assurance

Repeatable manufacturing process

- An identical replacement manifold of the same quality can be made years later

Other Features:

Pressure tested

- For quality assurance

Unlimited branch options

- Spigot, threaded, flanged, hose barbs, ends for valves, installation adaptors for flow meters, multiple branch rows and different port sizes

Tighter spigot spacing

- Butt fusion spigots can be closer spaced than swaged spigot connections



- 1 PE single branch spigots
- 2 PE dual branch spigots
- 3 PVC single branch spigots
- 4 PE grooved end spigots with AlfaRapid™ caps and pipe clamps
- 5 CNC saddle welding
- 6 CPVC single branch spigots
- 7 Manifold pressure testing





FABRICATION

Shop Piping Fabrication

- Panels
- Manifolds

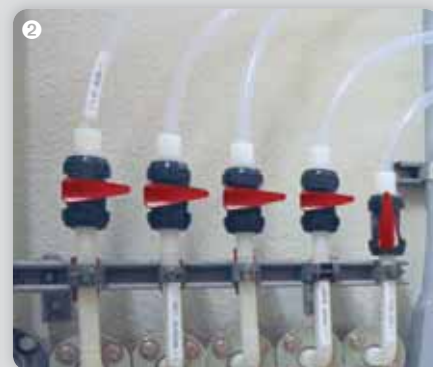
- 1 PVDF butt fusion pipe skid
- 2 PP fabricated pipe fittings
- 3 PP fabricated manifolds



Panel Refurbishment

- Shop fabrication
- Field fabrication

- 1 Shop fabricated PVDF butt fusion skid pre-fabrication
- 2 Field fabricated PFA fabricated ChemFlare™ system fittings



Field Piping Fabrication

- On site piping system installation services

- 1 Dual Containment PP pipe on-site installation
- 2 PP pipe system installed
- 3 Dual Containment PE/ECTFE (Halar®) welding
- 4 PP pipe butt weld prep
- 5 Blue PE socket fusion pipe welding
- 6 PVDF butt fusion pipe welding





FILTRATION

Screen Filters

- Y-Pattern and cartridge style models, PP bodies
- Polyester or SS mesh screens available:
120 mesh (135 micron)
- Maximum pressure: 116 psi
- Working temperature of polyester mesh: 5 to 60°C (41 to 140°F)
- Working temperature of SS mesh: 5 to 80°C (41 to 176°F)



Y-Pattern body parts



Y-Pattern bodies
3/4" to 2"



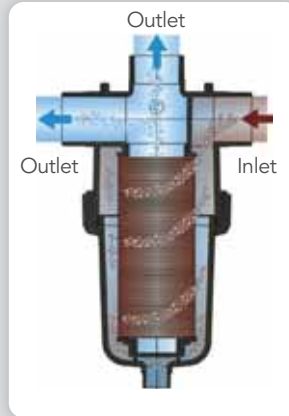
Cartridge style single
body 2" and 3"



Cartridge style twin
body 3" and 4"

Disc Filters

- 3 models available:
Y-Pattern, cartridge and self-cleaning cartridge styles
- PE filtering discs
- 75 mesh (200 micron)
- 120 mesh (130 micron)
- 150 mesh (100 micron)
- Working temperature:
-10 to 95°C (14 to 203°F)
- Maximum pressure standard models: 116 psi



PE Discs



75 Mesh



120 Mesh



150 Mesh



Y-Pattern bodies
3/4" to 2"



Cartridge style single
body 2" and 3"



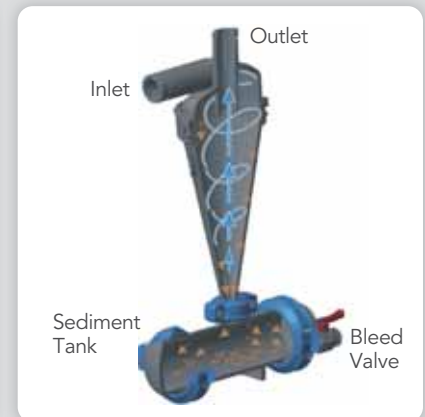
Cartridge style twin
body 3" and 4"



Filter Banks

Hydro Cyclones

- For sand separation, see application photo, page 5
- PPG bodies
- 1", 2" & 3", MNPT & AlfaRapid™ grooved ends
- Maximum pressure: 72.5 psi
- Working temperature:
-20 to 95°C (-4 to 203°F)
- Flow rate: 13 to 25 USGPM
- Filtering capacity: 70 micron





EXCEEDING CUSTOMER EXPECTATIONS

You call.
We answer.
Because
your call
matters.

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are available to take
your call. We offer
technical support and
application advice. We
make it our business
to understand your
requirements.

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right solution for your
flow control application.



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