

CHEMLINE PLASTICS

SUPERIOR FLOW SOLUTIONS

| VALVES | PIPING | FLOW METERS | CONTROLS |



chemline.com
ISO 9001:2015 CERTIFIED



Celebrating over 50 Years of Flow Control Solutions

The Authority in Plastics for Fluid Handling

Chemline Plastics celebrates 50 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

We market and distribute a large range of solid thermoplastic valves, controls, flow meters, pumps, tubing systems, specialty piping systems, pipe welding equipment, pipe fittings, 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, PDCPD, PVDF, ECTFE, HDPE, PFA, PTFE, 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 sells through a network of stocking distributors coast to coast. 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 cover all Canada, offering 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
- Swimming Pools, Fountains
- Irrigation, Fertigation
- HVAC



environmental

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



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



Butt weld Polypropylene pipe, valves and fittings for a ferric chloride system at a sewage treatment plant



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



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



8" PVC gate valves with stem extensions for a landfill leachate collection system

industrial

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



PVDF pipe, fittings and valves for sulphuric acid in a lithium processing plant



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



Installation of blue PE piping for compressed air in a copper mine operation



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



Electrically actuated PVC butterfly valves in aquarium sand filter system



PVC ball and butterfly valves in penguin exhibit water treatment system



Pneumatically actuated PVC butterfly valves in walrus exhibit water treatment system



Polypropylene butt fusion piping system for high purity water in semiconductor industry



ChemFlare™ System (valves/fittings/tubing) and polypropylene back pressure/relief valves in a DI water system in the medical industry



Commonwealth Pool, Vancouver Island



Greenhouse, Irrigation and Fertilization



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

- Aquariums
- Fisheries Laboratories
- Aquaculture
- Fish Hatcheries

aquatic life support

Water & Chemicals

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

high purity

- Pools, Spas & Fountains
- Municipal Water Supply
- Greenhouse & Turf Irrigation

water

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

other

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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
- Cavity Free model is designed for handling solids



**Type 21
True Union**
3/8" to 4"



**Type 27
Compact**
1/2" to 3"



**Type 23
Multi Port**
1/2" to 4"



Cavity Free
1/2" to 2"



High Capacity
4" & 6"



SM2 Metering
1/2" to 1"



SP2 Proportional
1/2" to 2"

Butterfly Valves

- Body style is normally Wafer. Lug body is available
- Narrow Body models can replace metal butterfly valves in-line
- ChemValve butterflies are fluoropolymer-lined for severe chemical services
- FRP dampers are for large diameter ducting systems



**Type 57P
Elastomer
Seated**
1-1/2" to 8"



**Type 57P
Elastomer
Seated**
8" to 24"



**Type 57IL Lug
Body**
3" to 12"



**Type 57IS
Narrow Wafer
Body**
3" to 8"



**Type 57LIS
Narrow Lug
Body**
3" to 8"



**Giant Elastomer
Seated, PDCPD**
28" to 48"



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



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



**Low Leakage
Damper, PVDF**
1-1/2" to 24"



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

Diaphragm Valves

- AV Series – Type 14, 15 and 72 valves stand up to heavy industrial applications
- 700 Series – 1/2" to 4", either manual or pneumatically actuated
 - modular design
 - compact dimensions
 - designed for water treatment and original equipment manufacturers (OEM's)



**Type 14
Manual**
1/2" to 4"



**Type 15 & 72
Manual**
5" to 10"



**Type 14
Pneumatic**
1/2" to 6"



**Type 731
Pneumatic**



**Type 761
Manual**

Valves

Check Valves



Ball Check &
Foot Valves
1/2" to 4"



Swing Check
3/4" to 8"



WE Series Wafer
2-1/2" to 86"



WP Series Wafer
8" to 24"



PW Series Wafer
3" to 12"

Gate & Globe Valves



Gate
1-1/2" to 14"



Globe
1/2" to 4"

Lab Valves



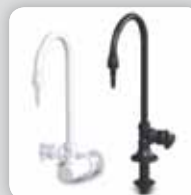
PVC Lab Cocks
1/4"



PVDF Lab Cocks
1/4"



Needle Valves
1/4" to 1/2"



Goosenecks
3/8"

Strainers & Gaskets



Y-Sediment
Strainers
1/2" to 4"



Low Torque
Flange Gaskets
1/2" to 12"



- XL Line™ offers value and competitive pricing for non-critical industrial applications
- PVC, PP-R



XLT True Union
Ball
1/2" to 4"



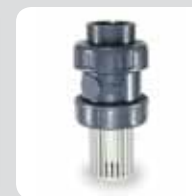
XW True Union
Water Ball
1/2" to 4"



ICE Freeze-Proof
Ball
1/2" to 4"



XLC Check
1/2" to 3"



XLF Foot
1/2" to 3"



XLB Butterfly
2-1/2" to 8"



XCB Pool Butterfly
3" to 8"

Actuation

Electric Actuation



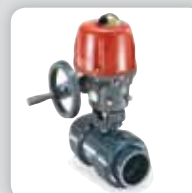
ERS Series
on a Type 21 Ball Valve



E Series
on an XA Ball Valve



E Series
on a SM2 Ball Valve



V Series
on a Type 21 Ball Valve



V Series
on a Type 57P Butterfly Valve

Accessories for Electric Actuators



Local Control Station

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

Other accessories available

- Heater/Thermostats
- Cycle Length Control
- 4-20 mA Positioners
- 4-20 mA Retransmit
- Battery Fail Safe
- 2-Wire Control Relay
- Extra Limit Switches
- Feedback Potentiometer
- 3 Position/Centre-off
- ASI-Bus

Pneumatic Actuation



PA & PG Series
Coated Aluminum
on a Type 21 Ball Valve



PA Series
Coated Aluminum
on an XA Ball Valve



PP Series
PAG Plastic
on a Type 57P Butterfly Valve



P3 Series
316 Stainless Steel
on a Type 21 Ball Valve

Accessories for Pneumatic Actuators



Limit Switches



Positioners



Declutchable Gear Overrides



Solenoid Valves

Valve Actuation Service

- Chemline can actuate metal valves free issued by customers



Valve Accessories

for Ball Valves

Stem 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 Lockout with Hasp



Coloured Handles



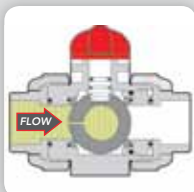
Valve Tags
Plastic or Stainless Steel



Manual Limit Switches



Stem Extensions



Vented Ball
for sodium hypochlorite services



Municipal Operating Nuts



Gear Operators



Chain Wheel Operators

for Butterfly Valves

Chain Wheel Operators

- For ball, butterfly, diaphragm and gate valves
- For overhead operation, with 7' of chain drop
- Cast iron standard, stainless steel is also available
- Requires the use of gear operator, sold separately



Handle Lockout with Hasp



Chain Wheel Operators



Gear Operator and Municipal Operating Nut



Limit Switches



Stem Extensions

for Gate & Diaphragm Valves



TIG Welding for fabrication of shaft extensions



Low Torque Flange Gaskets
1/2" - 12"



Valve Flange Splash Guards



PTFE Coated ChemBolts



Diaphragm Valve Handwheel Lockouts



Gate Valve with Municipal Operating Nut



Gate Valve with Chain Wheel Operator



Gate Valve with Stem Extension



Gate Valve with Stem Extension

Other Options

- Silicone free valves
- Lubricant free valves
- Alternate material o-rings and seats
- CRN tag plates

Regulating Valves

- Leakproof True Union ends
- Reliable and repeatable operation
- Designed for low hysteresis
- **SB Series** Back Pressure/Relief valves are designed for long maintenance-free life. They are designed for superior performance in dosing systems.
- **SR50 Series** Pressure Regulating (Reducing) Valves are sensitive and provides precise control. One application is to protect filters from damaging pressure surges.



SB17 Mini Back Pressure/Relief

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



SB11 Back Pressure/Relief HypoValve

- Proven superior performance on sodium hypochlorite service
- PVC body, FKM (Viton®) seals
- 1/2" to 1" available with ChemFlare™ end connections



SB12 Back Pressure/Relief

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



SR50 Pressure Regulating (Reducing)

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



Large Size Back Pressure/Relief & Pressure Reducing Valves

- 2-1/2" to 4"

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 also available

Controls

Ball Float Valves

Air Release Valves

- Both economical and performance models

Gauge Isolators

- For any pressure instrument

Injectors



Ball Float
1/2" to 1-1/2"



AA Series Air & Vacuum Release
1-1/4" & 3"



AR Series Air Release
1/2" to 3"



SG Series Gauge Isolators
1/4" & 1/2"



Injectors
3/8" to 3"

Chemical Feed Accessories

Calibration Columns

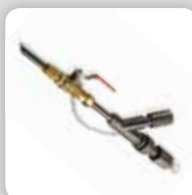
- All PVC construction

Corporation Stops



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"

Flow Meters

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
- Excellent low flow measurement. 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



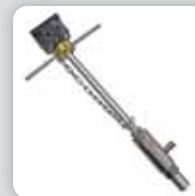
No-Flow Switches



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 Monitor



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"



Digiflow[®] CHEM X3

Analytical Instruments

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



Type M9.06
pH/ORP Monitor



Type M9.05
Conductivity
Monitor



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

Analytical Sensors & Instruments

A complete range of analytical sensors and state-of-the-art monitor/ transmitters are now available – also sensor installation fittings for pipes.

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)

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



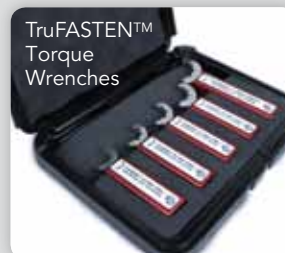
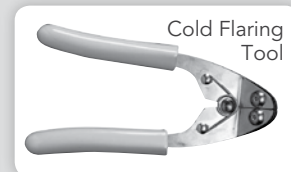
Branch Tees



Transitions

Flaring Machines & Tools

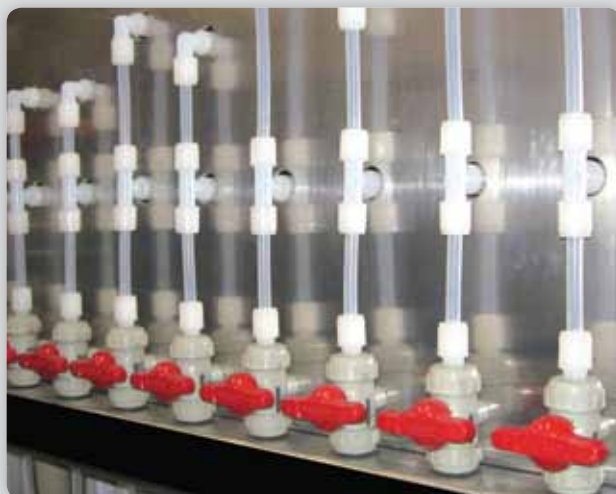
- Manual flare tools
- Torque wrenches
- Semi automatic bench top Flaring Machines



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.
- 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.



Dual Containment Systems

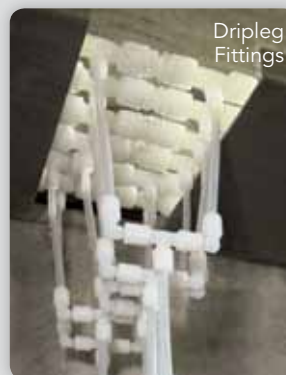
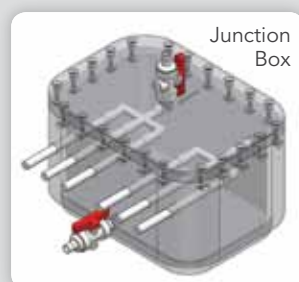
For maximum safety level of chemical containment

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



Fusion Welded Piping Systems

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

temp. range °C (°F)

- PP-H: -5 to 90°C (23 to 194°F)
- PP-R: -20 to 90°C (-4 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

Unpigmented Polypropylene

for: USP Purified Water

Food



UPP



size range (ODmm)

pipe:	20	–	110
butt fusion fittings:	20	–	110
socket fusion fittings:	20	–	63
flanges:	20	–	110

temp. range °C (°F)

- -20 to 90°C (-4 to 194°F)

applications

- Universities and Hospitals
- Deionized water systems
- Reverse osmosis water systems
- USP purified water systems in pharmaceutical plants
- Electronics industry chemical distribution systems
- Semiconductor manufacturing drain systems

PVDF

for: Purified Water for Semiconductors

Strong Acids

Organic Chemicals

Abrasive Slurries



PVDF



size range (ODmm)

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

temp. 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

ECTFE (Halar®)

for: Sodium Hypochlorite

Hot Caustic Solutions

Purified Water for Semiconductors



ECTFE



size range (ODmm)

pipe:	20	–	110
butt fusion fittings*:	20	–	110
valves:	20	–	63
flanges:	20	–	110

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

Advanced PE

for: Sodium Hypochlorite



PE100 RC



size range (ODmm)

pipe:	20	–	315
butt fusion fittings:	32	–	315
socket fusion fittings:	20	–	25
valves:	20	–	110

temp. range °C (°F)

- -50 to 60°C (-58 to 140°F)

applications

- Sodium hypochlorite services
- Chemical feed systems
- Process piping

Fusion Welded Piping Systems

Blue PE

for: Compressed Air



Blue
PE

Black
PE



size range (ODmm)

pipe:	20	–	315
butt fusion fittings:	125	–	315
socket fusion fittings:	20	–	110
electro fusion fittings:	20	–	110
valves:	20	–	110
flanges:	20	–	315

temp. range °C (°F)

• –30 to 60°C (–32 to 140°F)

applications

- Food
- Packaging
- Mining
- Engineering
- Automotive
- Transportation
- Construction
- Laboratories
- Maintenance workshops
- Other manufacturing and processing operations
- Semiconductor

PP-RCT

for: Drinking Water
HVAC



PP-RCT



size range (ODmm)

pipe:	20	–	500
butt fusion fittings:	160	–	500
socket fusion fittings:	20	–	125
electro fusion fittings:	20	–	450
valves:	20	–	63

temp. range °C (°F)

• –20 to 90°C (–4 to 194°F)

applications

- Potable water
- HVAC, hot and cold water
- Hydronics
- Commercial buildings
- Universities and hospitals

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

temp. range °C (°F)

• –20 to 95°C (–4 to 203°F)

applications

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

Dual Containment

for: "Maximum Safety"
Chemical Containment



PP

ECTFE

PE100
RC

PVDF

size range (ODmm)

pipe:	90/32	–	315/250
butt fusion fittings:	90/32	–	315/250
dog bones:	90/32	–	315/250
support discs/spider clips:	90/32	–	315/250

temp. range °C (°F)

• refer to individual material for specific operating temperatures



applications

- Often 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

Pipe Welding Machines

- For PP, PP-R, 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 Widos Welding Machines and Tools in Canada



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.S10 Butt Fusion Welder with non-contact (Infrared) heating element
– PE, PP, UPP, PP-RCT, PVDF, ECTFE, PFA



SP250S 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
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" – 6"



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

Thermoplastic Manifolds

Manifolds

Materials/Dimensions

- PVC, CPVC, PE, PP, PP-R, PP-RCT, UPP, 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

- Water treatment systems
- Ice rinks
- Hydro metallurgical processing plants

Approvals

- Available in NSF-61 approved material for water purification equipment or NSF-pw approved material for potable water use
- Canadian Food Inspection Agency approved for use with food products (PVDF)



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



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



Shop Piping Fabrication

- Panels
- Manifolds

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



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 Blue PE socket fusion pipe welding



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"



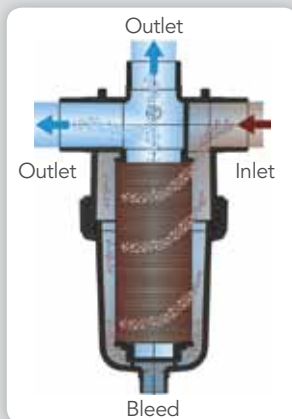
Cartridge style single
body 2" and 3"



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"



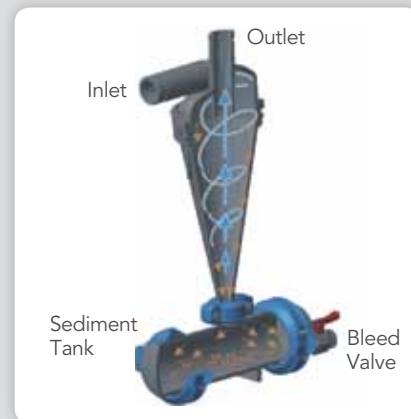
Cartridge style twin
body 3" and 4"



Filter Banks

Hydro Cyclones

- For sand separation
- 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





Irrigation

Pipe Fittings

- Compression Fittings
- *AlfaRapid™* Grooved End Fittings
- *AlfaRapid™* Flexible Pipe Couplings
- Pipe Saddles



**BluLine PP
Compression
Fittings**
20 – 110mm



***AlfaRapid™*
Flexible Pipe
Couplings**
1-1/2" – 6"



***AlfaRapid™*
Grooved End
Fittings**
1-1/2" – 4"



Bolt-on Saddles
ANSI, 1-1/2" – 6"

Ball Valves, Fertigation

- PPG valves for water and fertilizer
- Injectors, 1/4" x 1/2" up to 2" x 1"
- Optional supply kit: suction control valve and inlet filter



**Compact PPG
Ball Valves**
1/2" – 4"
Threaded



**Compression
End PP Globe
Valves**
25mm, 32mm



**Compact PP Ball
Valves**
20mm – 110mm
Compression Ends



Injectors



**Fertigation
Systems**

Irrigation Fittings



Barbed



Tape



Drip Line



Micro



Lay Flat

Cylinder Valves



Barbed



Tape



Drip Line



Micro



Threaded

Drippers & Sprinklers



**Alfa JO
Drippers**



**Alfa MIR Self
Regulating
Drippers**



**180° – 360°
Sprinklers**



**Upside-Down
Rotating
Sprinklers**

Turf Irrigation



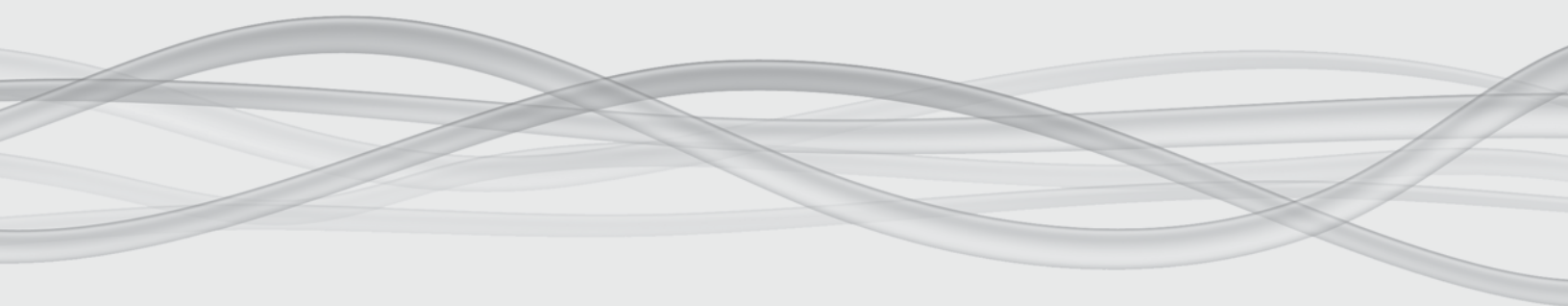
**Pop Up
Sprinklers**



**Valve Boxes
with valve**



Electric Valves



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CHEMLINE PLASTICS
SUPERIOR FLOW SOLUTIONS

55 Guardsman Road, Thornhill, Ontario, Canada, L3T 6L2

tel. 905.889.7890 fax. 905.889.8553

toll free. 1.800.930.CHEM (2436) email. request@chemline.com



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