

Flow Products / Pulse Cooling

PRICE LIST

Introduction to Pulse Cooling



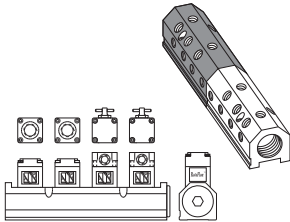
StackPulse™ Controllers	2-5
PulseCooling™ Controllers	6-7
Connection Cables	8



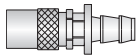
StackFlow™ Products, and Replacement Parts	9-18
MiniFlow Products	19
RotoFlow™ Products, Certification	20-23
ThermoFlow™ Analyzer Flow Kits	24-26



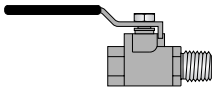
Flow Kit Accessories for ThermoFlow™ Analyzer	27
Flow Sensors for FlowReadout™	28
Flow Kit Adapters, RotoFlow™ and StackFlow™ Accessories	29
Sensor Selection	30-31
Probes and Sensors	32-35
Sensor Guide Insert	36



Inline™ Manifolds	37-42
Sideline™ Manifolds	43-47
BottomLine™ Custom Mold Mounted Manifolds	48
RotoLine™ Flow Indicating Manifolds	49
Flow Restrictions	50
Flow Considerations	51



“C” Series Straight Through Plugs	52
“C” Series Quick Connector Couplings	53
“S” Series Plugs and Couplings,	54



Hose Fittings	55
Valves, Bushings, Plugs and Couplings	56



Brass Elbows and Brass Nipples	57
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Pipe Nipples, Hose and Hose Clamps	58
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CITO Products Location	59
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CITO Products, Inc.
 N8779 County Road X • P.O. Box 90
 Watertown, WI 53094 • USA

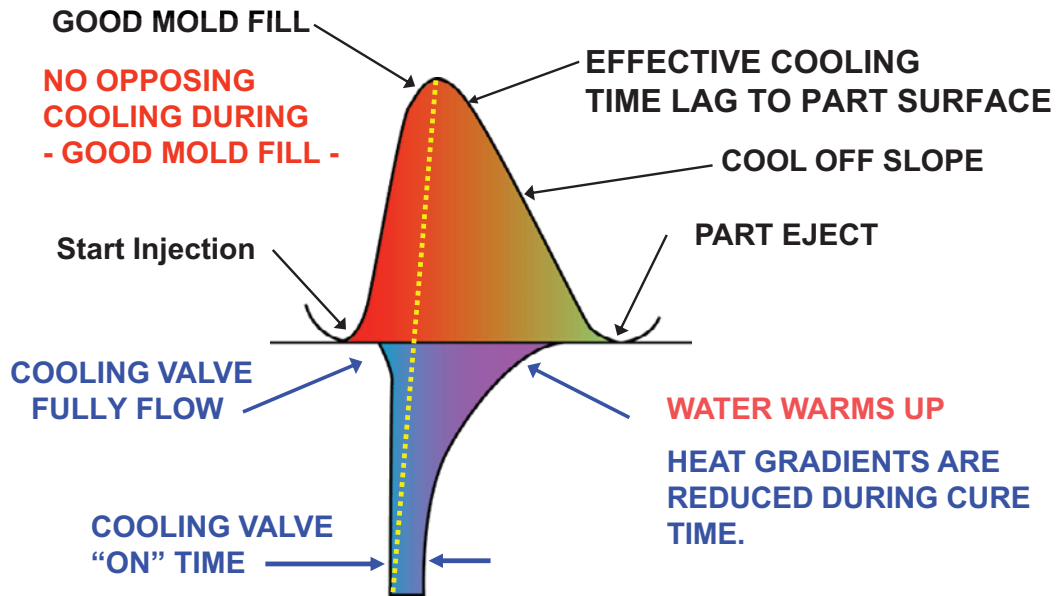
Phone: (920) 261-2606 • E-mail: sales@citoinc.com

Visit us at www.citoinc.com

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CITO-FP-PRICE-24-0213

PulseCooling™ Dynamics



PulseCooling

HIGH PART QUALITY - BEST CYCLE - ENERGY SAVINGS

FOR INDEPENDANT CASE STUDY AND ENERGY SAVINGS PROPOSAL
CONTACT CITO PRODUCTS: support@pulsecooling.com

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StackPulse™ Benefits

1. Direct control over **MOLD SURFACE TEMPERATURE** - not just waterline
2. **QUICK WARM UP**, only the very molding surface reaches temperature, not the entire mold
3. **HIGHER PRODUCTION OUTPUT** - full flow, turbulent cooling with cold water
4. **HIGHER QUALITY PARTS** through gradient dissipation during soak period
5. **OPTIMIZING OF THE MOLDING CYCLE** - continues feed back of **mold surface** temperature
6. **ELIMINATES THERMAL DRIFT** (warp, sinks, distortion and inconsistent fill)
7. **PRECISION CONTROL OF MOLDING SURFACE TEMPERATURE** results in predictable Parts through compensation and correction of:

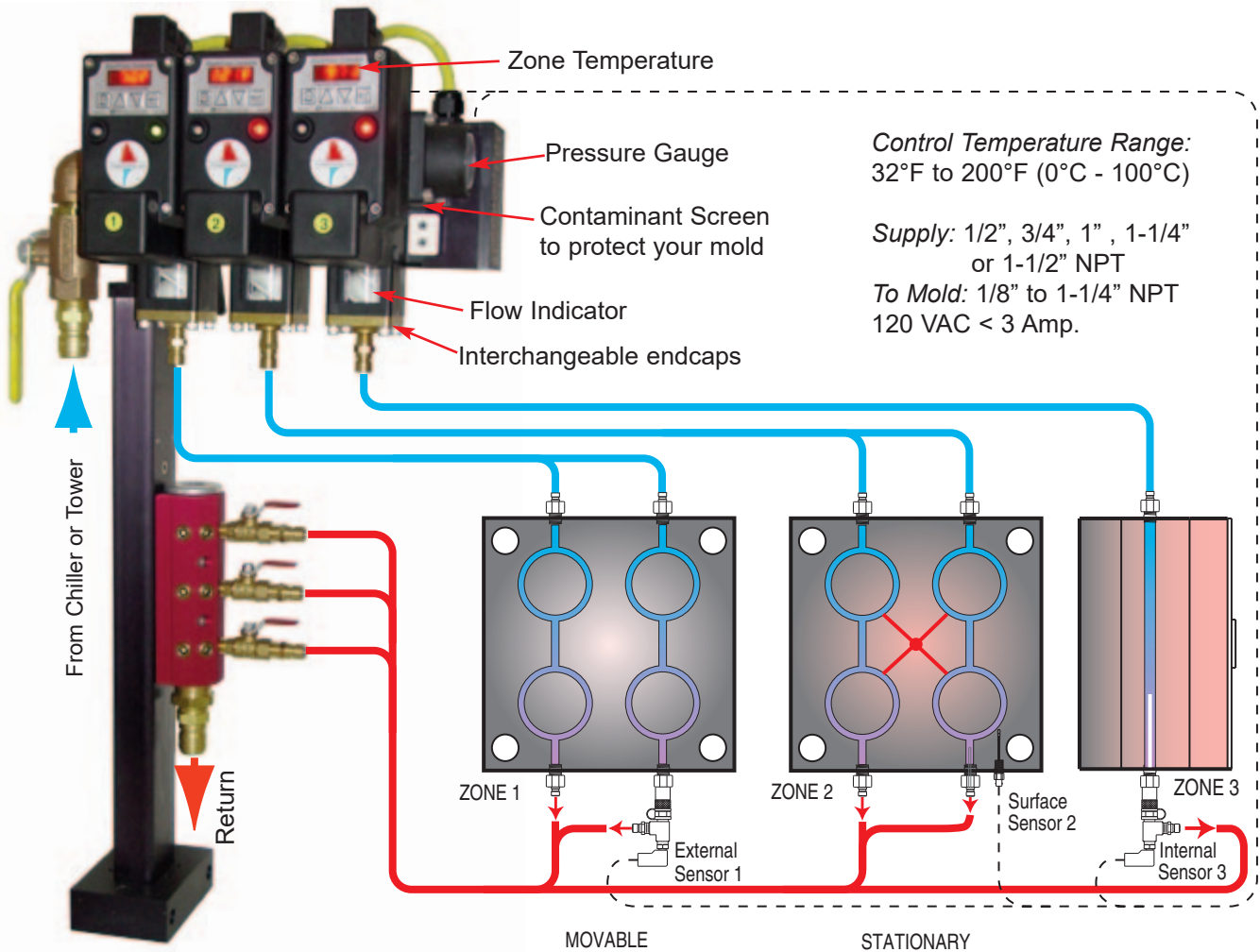


Ambient Temperature changes
Water supply pressure changes
Back pressure changes
Water Temperature changes (chiller or tower)
Cycle changes (manual operation)
Platen and machine temperature changes
Day and night shift changes
Partial plant shut down - (flow / pressure / temp. changes)
Reduced Cycle Time Due to More Aggressive (Cold Water) Cooling

CITO-FP-PRICE-22-0515

StackPulse™ Controllers

For Mold Surface or waterlines sensors, Consistently higher parts quality,
 In Port 1/2" through 1-1/2" NPT
 Outports 1/8" through 1-1/4" NPT



M - Machine Mount



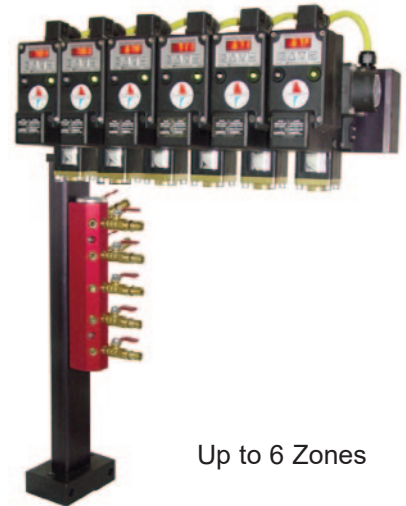
Up to 6 Zones
 (2 Shown)

S - Swing Mount



Up to 6 Zones
 (4 Shown)

P - Post Mount



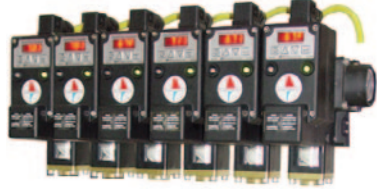
Up to 6 Zones

For Dimensions - see page 5

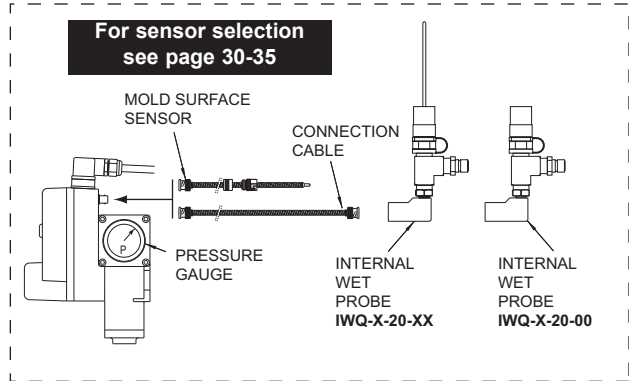
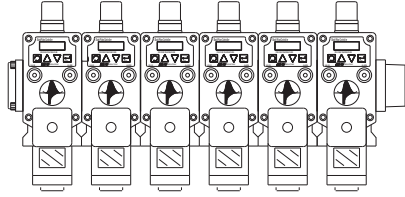
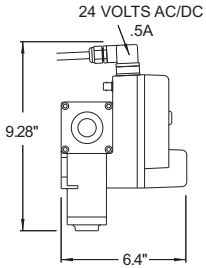
StackPulse™ Controllers - StackValve - 24 Volt ACDC

Wall Mount

WMA-6100

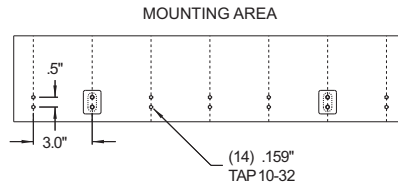
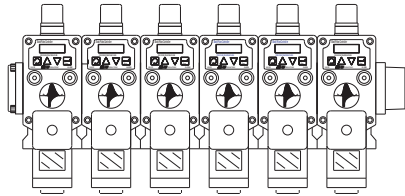


NOTE: Order Sensors, Manifold w/Hand Valves, and In/Out Fittings separately



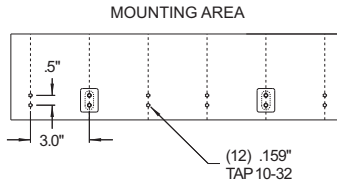
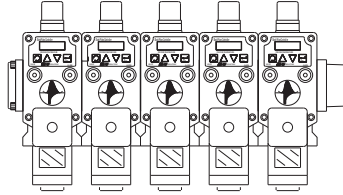
WMA-6XXX

6 ZONES



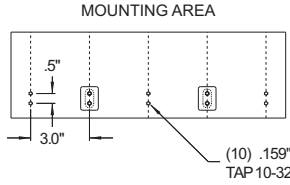
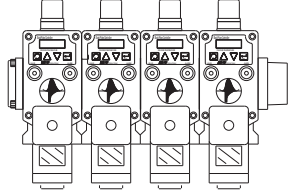
WMA-5XXX

5 ZONES



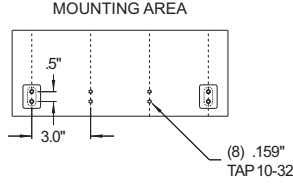
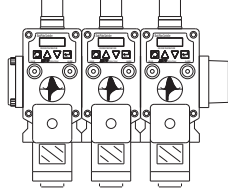
WMA-4XXX

4 ZONES



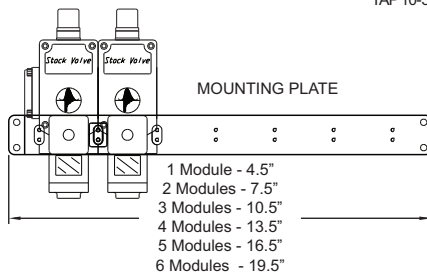
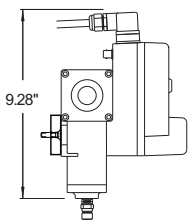
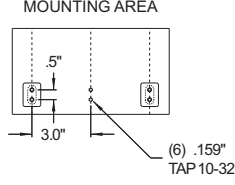
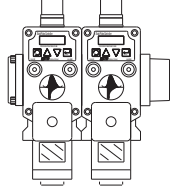
WMA-3XXX

3 ZONES



WMA-2XXX

2 ZONES



Any Port Combination

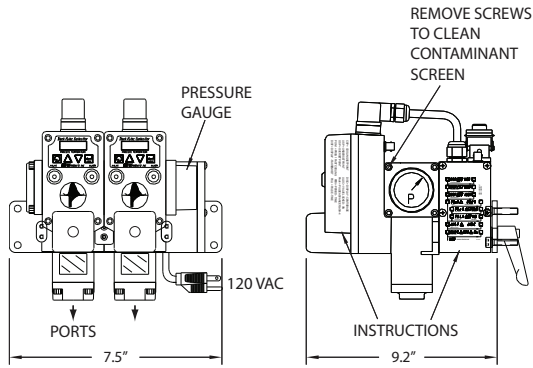
Supply	Out Ports
1/2"	1/8"
3/4"	1/8" (4)
1"	1/4"
1-1/4"	1/4" (2)
1-1/2"	1/4" (4)
	3/8"
	3/8" (2)
	3/8" (4)
	1/2"
	1/2" (2)
	3/4"
	1"
	1-1/4"

Specify In/Out Fittings separately

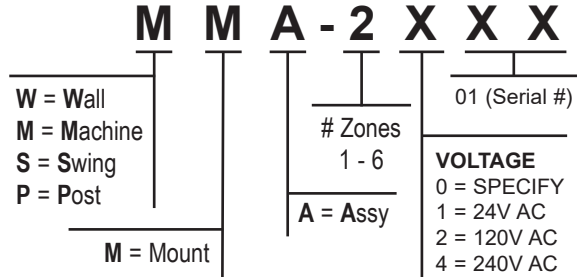
W	M	A	X	X	X
W = Wall	M = Machine	S = Swing	P = Post	# Zones 1 - 6	01 (Serial #)
				A = Assy	VOLTAGE 0 = SPECIFY 1 = 24V AC 2 = 120V AC 4 = 240V AC
M = Mount					

StackPulse™ Controllers - 120 / 240 Volt AC

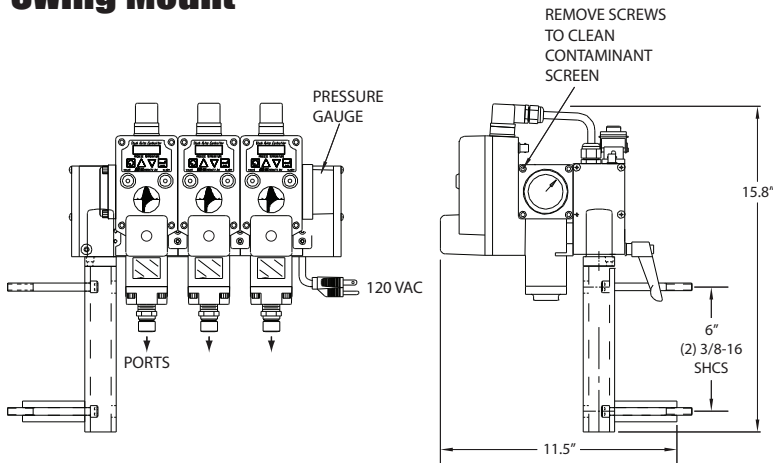
Machine Mount



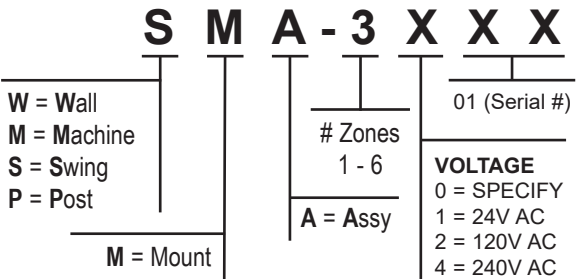
Specify In/Out Fittings separately



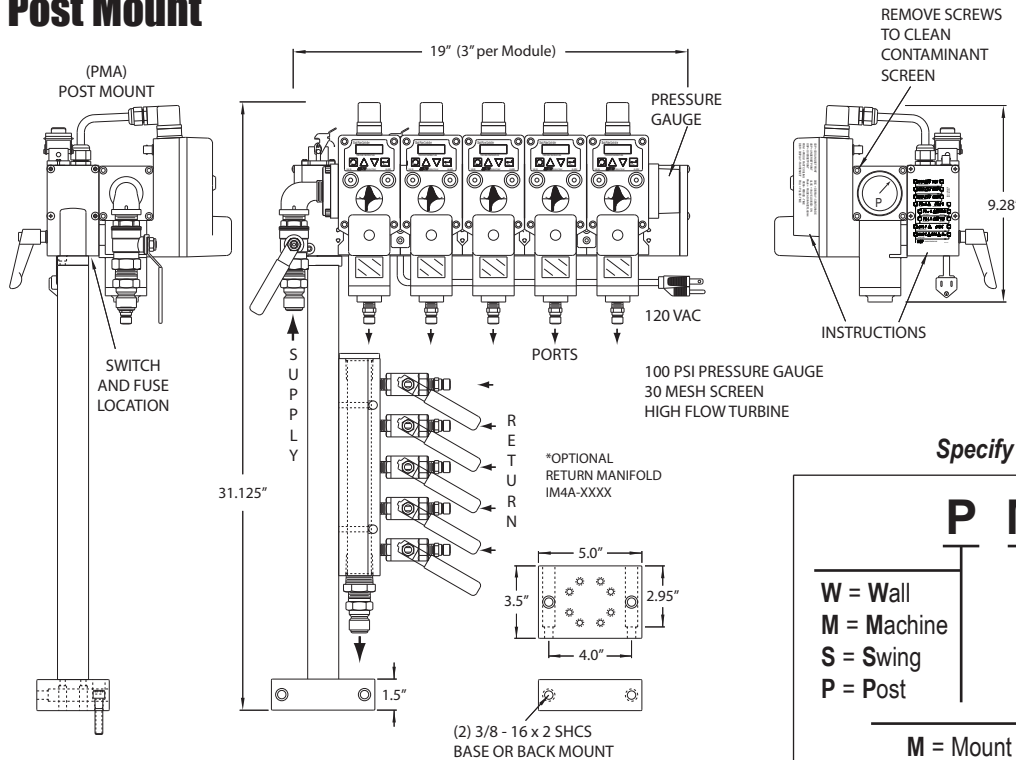
Swing Mount



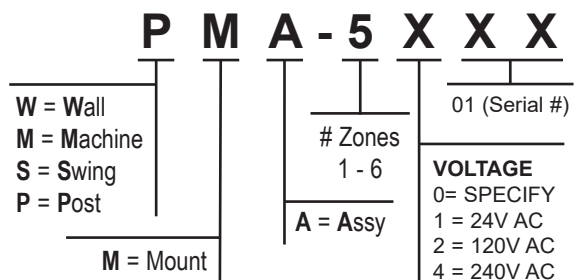
Specify In/Out Fittings separately



Post Mount



Specify In/Out Fittings separately

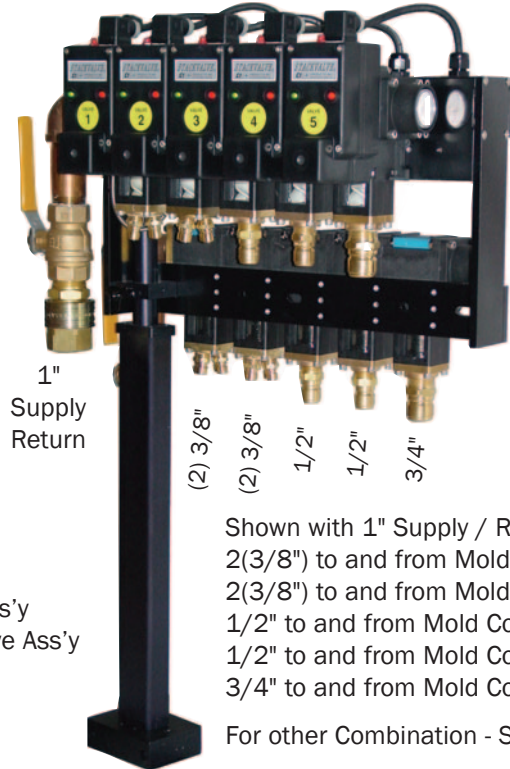


CITO-FP-PRICE-22-0812

PulseCooling™ Controllers - 5 Zone Cooling - Post Mount

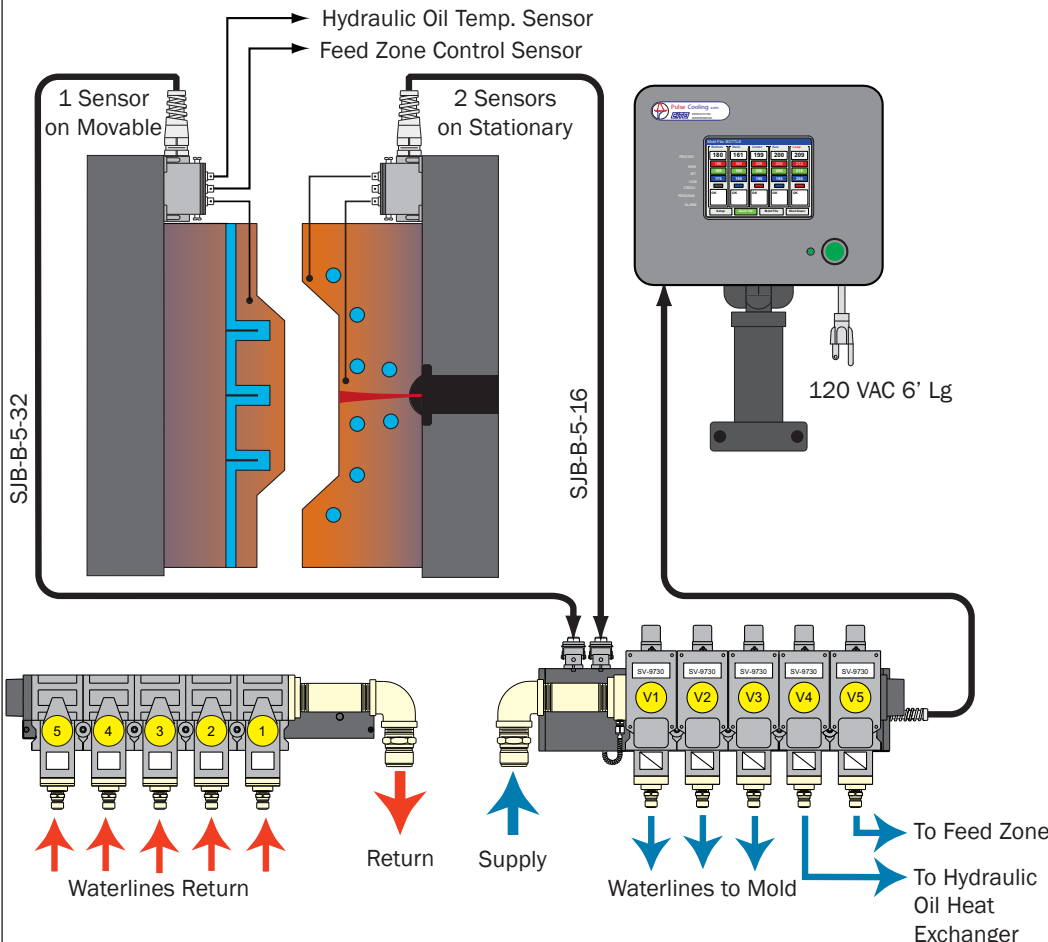


PulseCooling™
Touch Screen Controller
5 Zone Cooling
Model: PC5-120
\$3,660.00



Valve Swing Arm Ass'y
5 Zone Cooling Valve Ass'y
Model: VSA-5-XXX
\$3,200.00

1" Supply / Return
2(3/8") to and from Mold Conn
2(3/8") to and from Mold Conn
1/2" to and from Mold Conn
1/2" to and from Mold Conn
3/4" to and from Mold Conn
For other Combination - Specify



Available with 10 Zones
Used with Model PCX Controller

MODEL CODE	
PC5	- VSA - XXX
SERIAL #	
VSA = VALVE SWING ASSY	
PulseCooling™ 5 ZONES	

CITO-FP-PRICE-22-0627

PulseCooling™ Controllers - 5 Zone Cooling - Valve Kart

LOW TEMPERATURE MOLDING
When Melt Provides the Start Up Heat

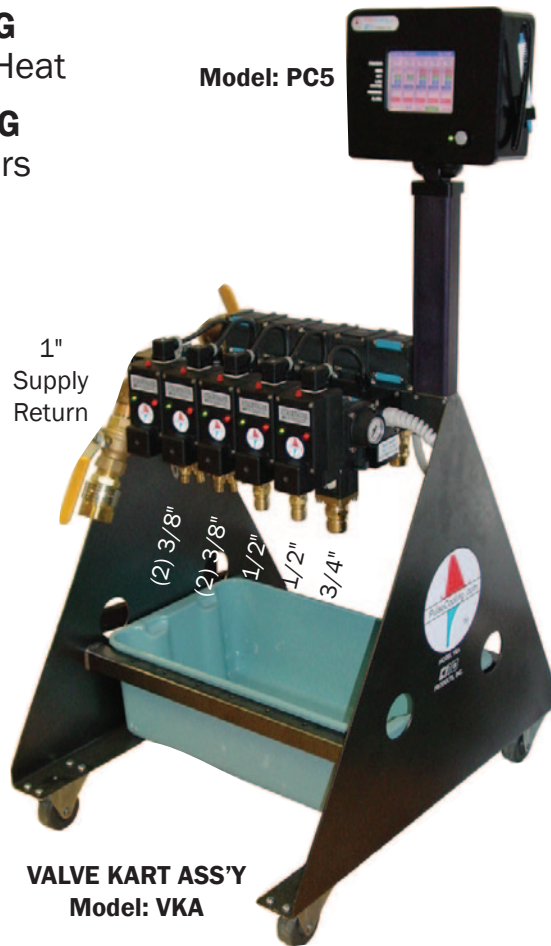
HIGH TEMPERATURE MOLDING
Design Mold with Electric Heaters

- Precision Molding
- High Volume Molding
- Hot Runner Control
- Family Molds

Shown with 1" Supply / Return
2(3/8") to and from Mold Connection
2(3/8") to and from Mold Connection
1/2" to and from Mold Connection
1/2" to and from Mold Connection
3/4" to and from Mold Connection

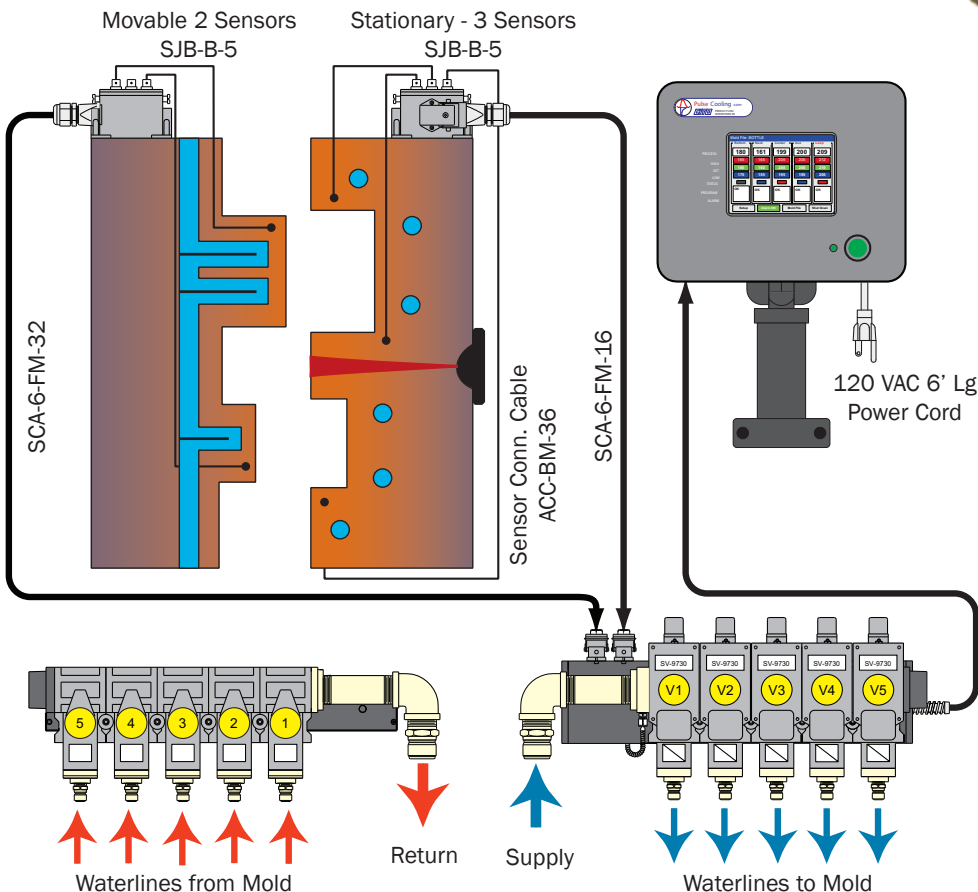
For other Combination - Specify

Model: PC5



VALVE KART ASS'Y
MODEL: PC5-VKA
\$7,890.00

VALVE KART ASS'Y
Model: VKA



Available with 10 Zones
Used with Model PCX Controller

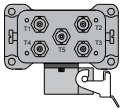
MODEL CODE	
PC5	- VKA - XXX
SERIAL #	
VKA = VALVE KART ASS'Y	
PulseCooling™ 5 ZONES	

CITO-FP-PRICE-22-0627

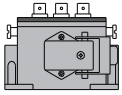
Connection Cables

23 Sensor Junction Box - Mold Mounted

MFG. DWG. SJB-1265



6 PIN CONNECTOR
5 ZONE CONNECTION



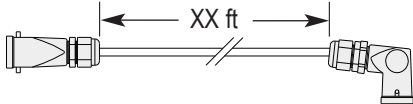
Use same Assembly for moveable and/or stationary.

For PC5 Controller

SJB-6-5 \$ 288.00

24 Sensor Cable Ass'y

MFG. DWG. SJB-1206



Use same Assembly for moveable and/or stationary.

For PC5 Controller

SCA-6-FM-1616 ft \$ 104.00
SCA-6-FM-3232 ft \$ 120.00

StackFlow™ Modular Valve/Diagram

2D - CAD

StackPort™

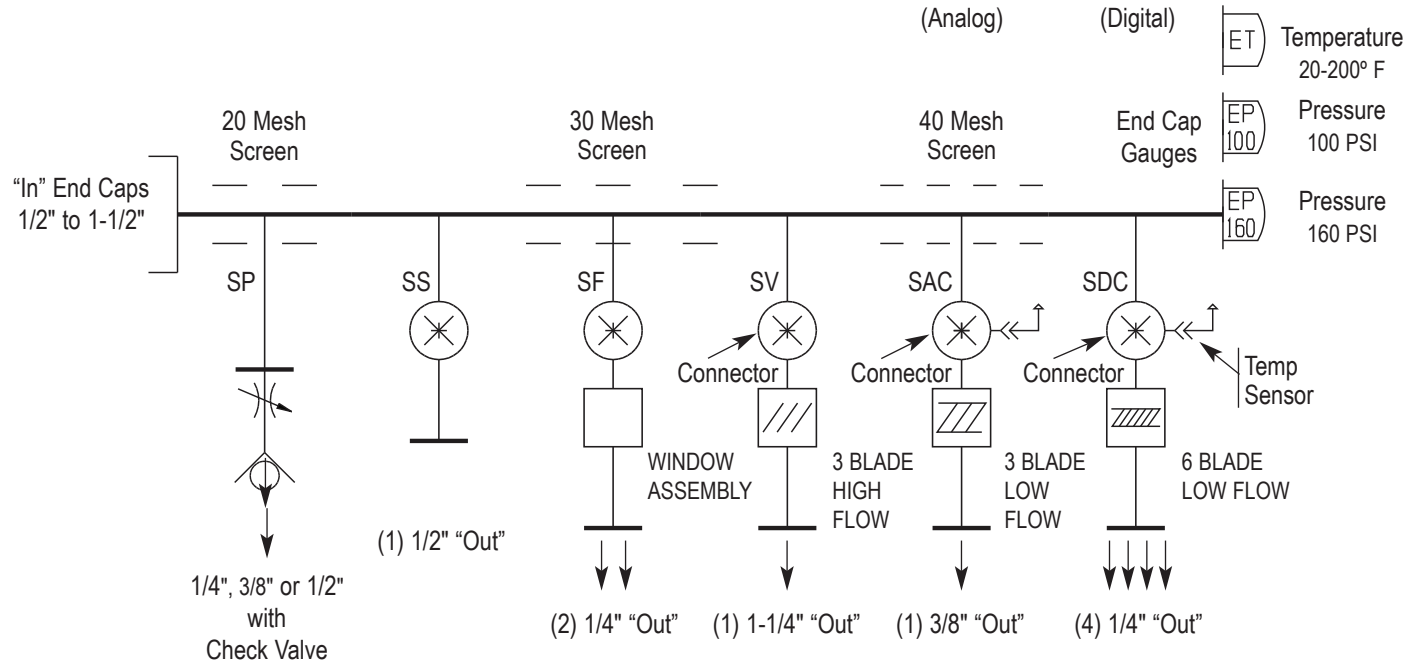
StackShort™

StackFlow™

StackValve™

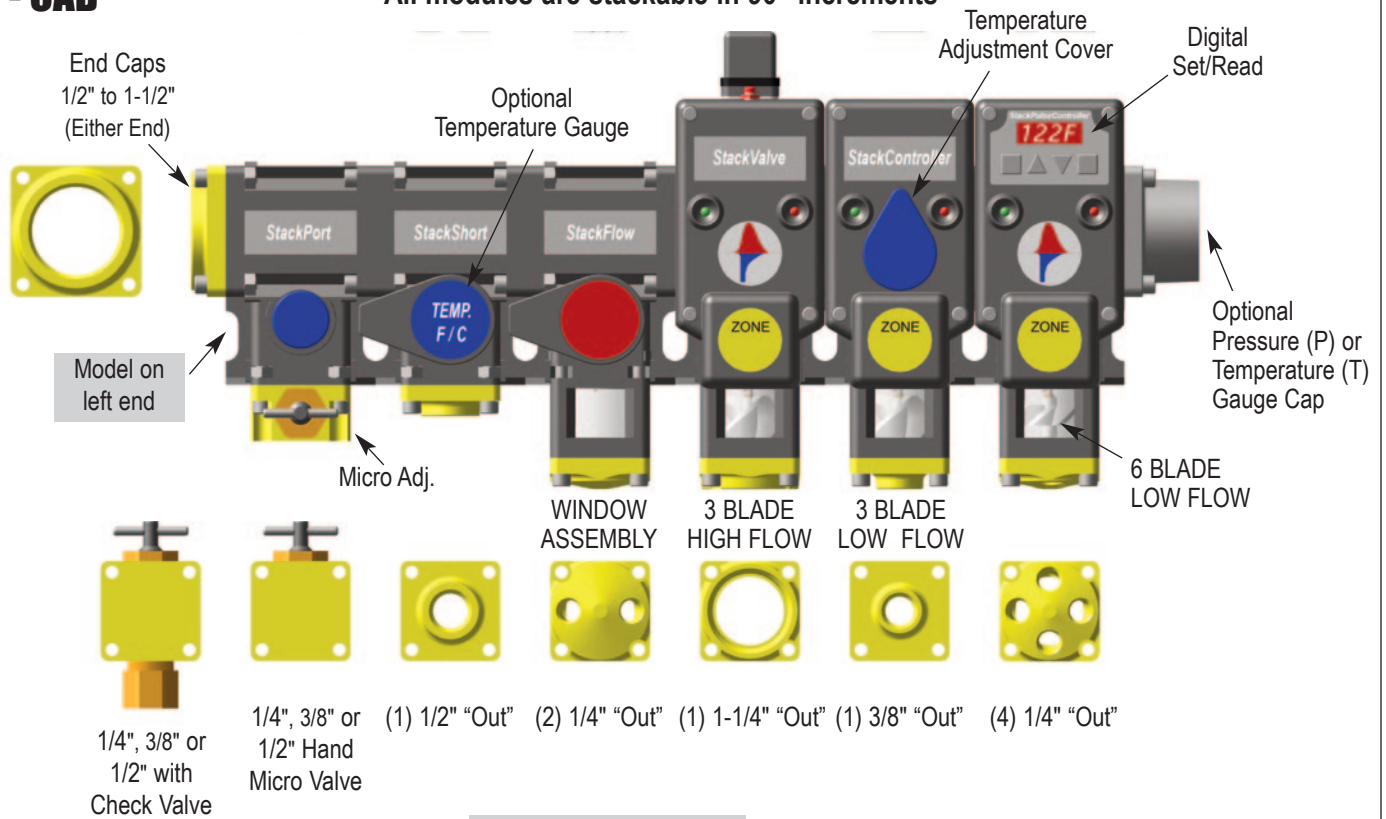
StackAnalog
Controller™
(Analog)

StackPulse
Controller™
(Digital)



3D - CAD

All modules are stackable in 90° increments



Model on left side - First Left Module
 SPA = StackPort Ass'y
 SSA = StackShort Ass'y
 SFA = StackFlow Ass'y
 SVA = StackValve Ass'y
 SAA = StackAnalog Ass'y
 SDA = StackDigital Ass'y

MODEL SERIAL:
SPA - 6000 - YY-MMDD
 Modules Sequential Serial

CITO-FP-PRICE-23-1120

StackFlow™ Modular Hand Valves

THE STACK-MODULES PROVIDE A MYRIAD OF APPLICATION COMBINATIONS.

All Valves have interchangeable Input End Ports from 1/2" to 1-1/2" NPT/BSPP/BSPT

Output Ports range from 1/8" to 1-1/4" and Multi-Port combination including Micro and Check Valves.

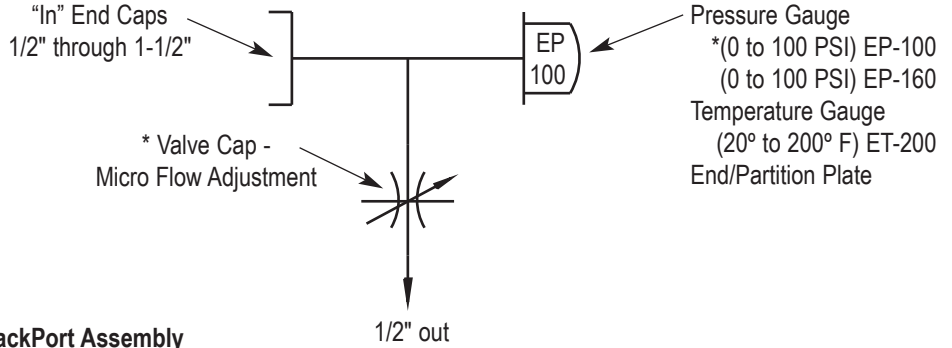
Pressure rating: 120 PSI - Temperature rating -20°F 180°F - Cv 13.6

Each Supply Module has an Internal Screen and the optional Pressure and - or - Temperature End Cap.

StackPort™

MODULE - SPA

Provides a Module for access to unrestricted flow for out-port



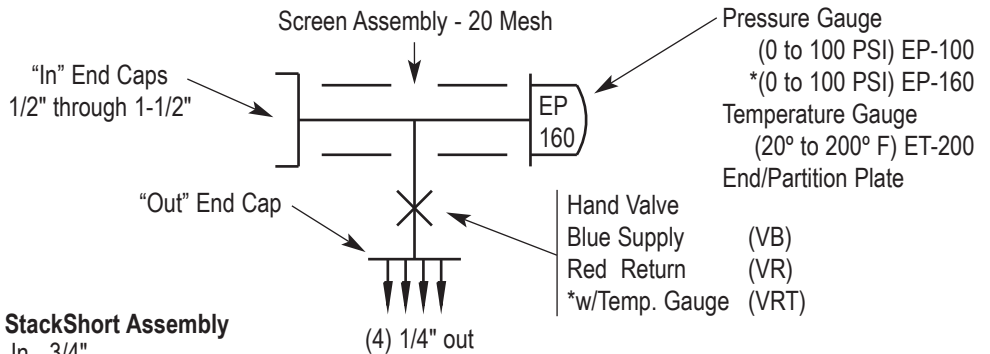
StackPort Assembly
In - 3/4"
Out - 1/2" Valve Cap
End - Pressure Gauge

SPA-1000\$166.00

StackShort™

MODULE - SSA

Provides a Module for access to unrestricted flow for out-port



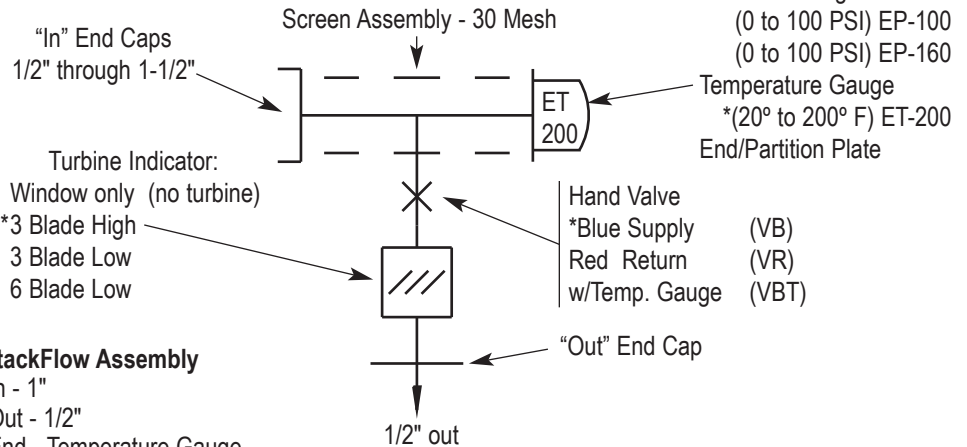
StackShort Assembly
In - 3/4"
Out - (4) 1/4"
Front - Temperature Gauge

SSA-1000\$113.00

StackFlow™

MODULE - SFA

Provides a Module with an Hand Shut off Valve with optional Temperature Gauge and a Visual Flow Turbine that may be used with a Digital Flow Read out



StackFlow Assembly
In - 1"
Out - 1/2"
End - Temperature Gauge
Flow Indicating Turbine

SFA-1000\$180.00

CITO-FP-PRICE-23-1219

StackValve™ Modular Electric Valve

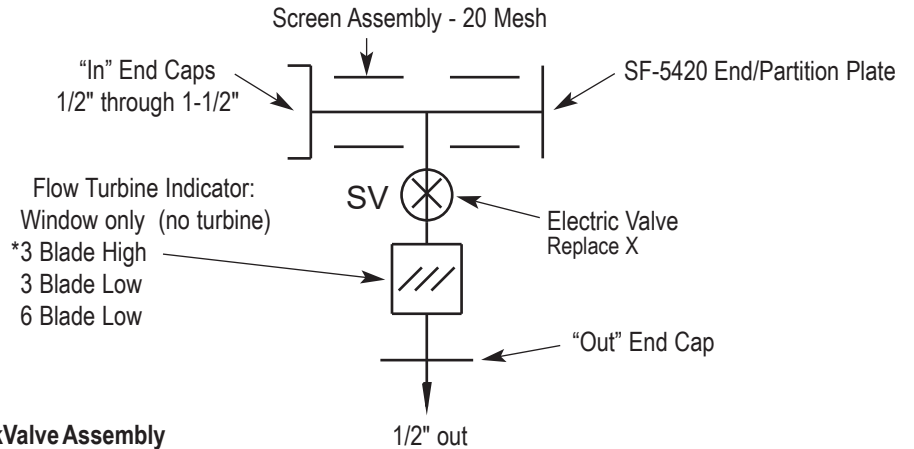
StackValve™

MODULE - SVA



Rotary Flow Turbine
for Indication
OR
Clip-on Digital
Flow Meter

Provides a NORMALLY CLOSED Pressure Differential Valve that is Electrically operated. The Diaphragm is closed via a self cleaning Orifice. L E D Indicator lights will provide the Valve status Each Module has a Visual Flow Turbine that may be used with a Digital Flow Read out Each Module is available with a Purge Button that activates the Valve. Power Connection: 4 Pin Xall - 4 Pin DIN - 4 Pin Micro and 4 Pin Mini Water Proof Connector Supply Volt - 24 V ACDC - 120 V AC - 240 V AC @ < 10 Watt



StackValve Assembly
In - 1"
Out - 1/2"
Flow Indicating Turbine

SVA-1000 \$327.00

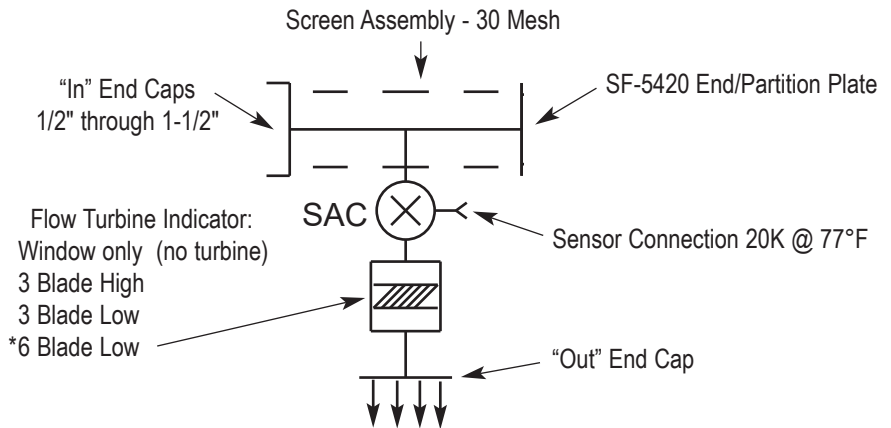
StackController™ Modular Analog Temperature Controller

StackAnalogController™MODULE - SAA



Rotary Flow Turbine
for Indication
OR
Clip-on Digital
Flow Meter

Provides a NORMALLY CLOSED Pressure Differential Valve that is Electrically operated. The Diaphragm is closed via a self cleaning Orifice. L E D Indicator lights will provide the Valve status Each Module has a Visual Flow Turbine that may be used with a Digital Flow Read out The Analog Dial is located below the splash proof Cover. A broad selection of Sensors are available for temperature control. Power Connection: 4 Pin Connexall - 4 Pin DIN - 4 Pin Micro and 4 Pin Mini Water Proof Connector Supply Volt - 24 V ACDC - 120 V AC - 240 V AC @ < 10 Watt



StackAnalog Assembly
In - 1" in
Out - (4) 1/4" out
Flow Indicating Turbine
120V AC with End Plate

SAA-1000 \$ 395.00

CITO-FP-PRICE-23-1219

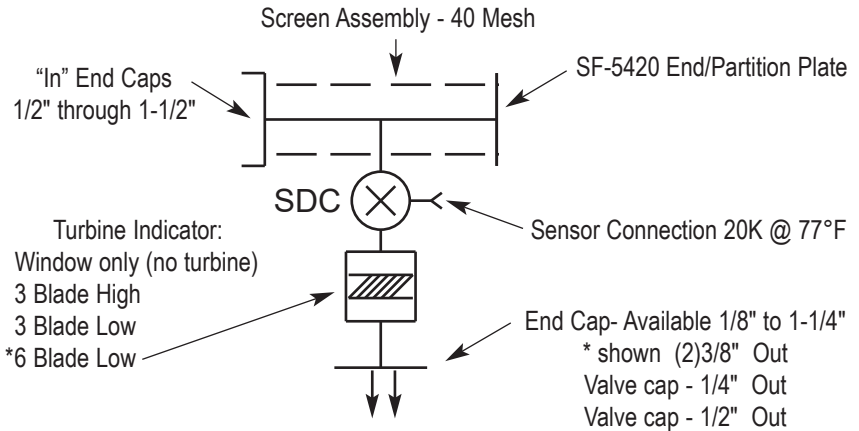
StackPulseController™ Modular Digital Controller

StackDigitalController™ MODULE - SDA



Rotary Flow Turbine
for Indication
OR
Clip-on Digital
Flow Meter

Provides a NORMALLY CLOSED Pressure Differential Valve that is Electrically operated. The Diaphragm is closed via a self cleaning Orifice.
L E D Indicator lights will provide the Valve status
Each Module has a Visual Flow Turbine that may be used with a Digital Flow Read out
A Key Board is used to set the Digital Set Point / Temperature Display.
Valve Status Indicator will provide continuous read out of Control Functions.
Power Connection.:4 Pin Connexall - 4 Pin DIN - 4 Pin Micro and 4 Pin Mini Water Proof Connector
Supply Volt - 24 V ACDC - 120 V AC - 240 V AC @ < 10 Watt



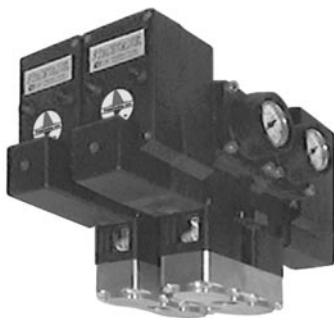
Stack Digital Assembly

In - 1-1/4"
Out - (2) 3/8"
Rotary Flow Turbine

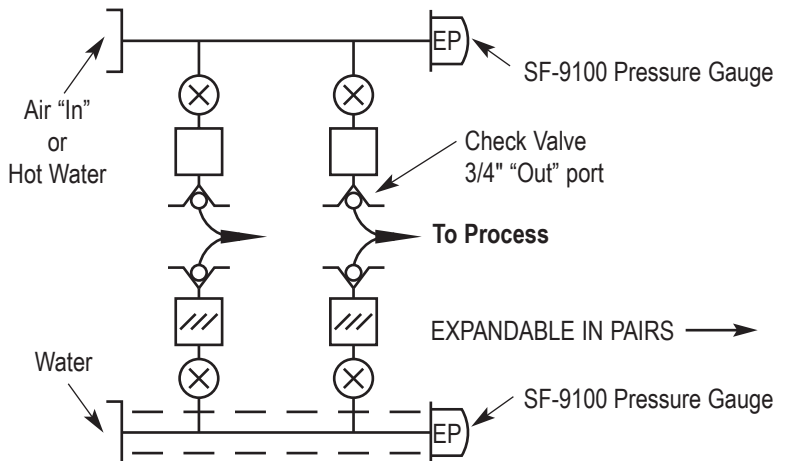
SDA-1000 \$ 617.00

StackBack™ Valve

StackBack™ - Electric valve



For rapid change of temperature



StackBack™ Assembly for detail - Consult Factory


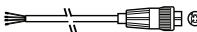

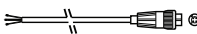
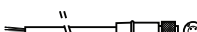



SBA-2000


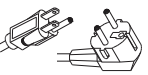
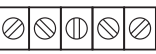




CITO-FP-PRICE-23-1219

For Custom Applications - Contact Factory

StackValve™ Top




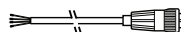

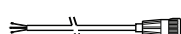
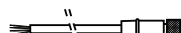
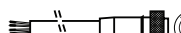
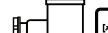
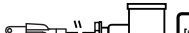
-  SVCA-4C ConneXall 4 Conductor Plug Only \$ 8.80
-  SVCA-4C-72 ConneXall 4 Conductor 72" Cable Ass'y . . \$ 18.00
-  SVCA-3C ConneXall 3 Conductor Plug Only \$ 7.60
-  SVCA-3C-36 ConneXall 3 Conductor 36" Cable Ass'y . . \$ 17.40
-  SVCC-12-72 Micro 12 Water Tight 72" Cable Ass'y . . . \$ 26.00
-  SVCC-22-72 Mini 22 Water Tight 72" Cable Ass'y \$ 28.00
-  SVCA-4D Din Connector Plug Only \$ 12.00
-  SVPA-4D-72 Din Connector 72" Plug Assembly \$ 32.00


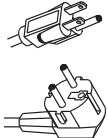





	PART NO.	CONNECTION	VOLT	AMP	SENSOR	PURGE	ALARM	CABLE	PRICE
	SVT-3224	CORDED	24V ACDC	.3A	NO	NO	X	3 CONDUCTOR	\$ 98.00
	SVT-3324	CORDED	24V ACDC	.3A	NO	YES	X	3 CONDUCTOR	\$104.00
	SVT-4120	CORDED - US	120V AC	.1A	NO	NO	X	US CORD - 120V	\$ 98.00
	SVT-4240	CORDED - EU	240V AC	.05A	NO	NO	X	EU CORD - 240V	\$ 98.00
	SVT-5224	TERMINALS	24V ACDC	.3A	NO	NO	X	NONE	\$ 98.00
	SVT-5324	TERMINALS	24V ACDC	.3A	NO	YES	X	NONE	\$104.00
	SVT-5120	TERMINALS	120V AC	.1A	NO	NO	X	NONE	\$ 98.00
	SVT-5240	TERMINALS	240V AC	.05A	NO	NO	X	NONE	\$ 98.00
	SVT-6224	CONNEXALL	24V ACDC	.3A	NO	NO	X	USE WITH CONNEXALL PLUG CABLE ASSEMBLY	\$ 98.00
	SVT-6324	CONNEXALL	24V ACDC	.3A	NO	YES	X		\$104.00
	SVT-6120	CONNEXALL	120V AC	.3A	NO	NO	X		\$ 98.00
	SVT-6240	CONNEXALL	240V AC	.1A	NO	NO	X		\$ 98.00
	SVT-6360	CONNEXALL	120/240 AC	.07/.12A	NO	NO	X		\$128.00
	SVT-7224	MICRO - 12mm	24V ACDC	.1A	NO	NO	X	USE WITH MICRO 12MM WATER TIGHT CONNECTOR	\$108.00
	SVT-7324	MICRO - 12mm	24V ACDC	.3A	NO	YES	X		\$114.00
	SVT-7120	MICRO - 12mm	120V AC	.3A	NO	NO	X		\$108.00
	SVT-7240	MICRO - 12mm	240V AC	.3A	NO	NO	X		\$108.00
	SVT-7360	MICRO - 12mm	120/240 AC	.07/.12A	NO	NO	X		\$138.00
	SVT-8224	MINI - 22mm	24V ACDC	.1A	NO	NO	X	USE WITH MINI 22MM WATER TIGHT CONNECTOR	\$114.00
	SVT-8324	MINI - 22mm	24V ACDC	.3A	NO	YES	X		\$120.00
	SVT-8120	MINI - 22mm	120V AC	.3A	NO	NO	X		\$114.00
	SVT-8240	MINI - 22mm	240V AC	.3A	NO	NO	X		\$114.00
	SVT-8360	MINI - 22mm	120/240 AC	.07/.12A	NO	NO	X		\$144.00
	SVT-9224	DIN	24V ACDC	.3A	NO	NO	X	USE WITH DIN CONNECTOR	\$ 98.00
	4-SVT-9324	DIN	24V ACDC	.3A	NO	YES	X		\$104.00
	4-SVT-9120	DIN	120V AC	.3A	NO	NO	X		\$ 98.00
	SVT-9240	DIN	240V AC	.1A	NO	NO	X		\$ 98.00
	SVT-9360	DIN	120/240 AC	.07/.12A	NO	NO	X		\$128.00

Prices shown are for valves with standard components. For custom assemblies - consult factory

StackController™ Analog Top




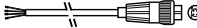

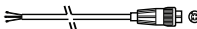




-  SVCA-4C ConneXall 4 Conductor Plug Only \$ 8.80
-  SVCA-4C-72 ConneXall 4 Conductor 72" Cable Ass'y . . \$ 18.00
-  SVCA-3C ConneXall 3 Conductor Plug Only \$ 7.60
-  SVCA-3C-36 ConneXall 3 Conductor 36" Cable Ass'y . . \$ 17.40
-  SVCC-12-72 Micro 12 Water Tight 72" Cable Ass'y . . . \$ 26.00
-  SVCC-22-72 Mini 22 Water Tight 72" Cable Ass'y \$ 28.00
-  SVCA-4D Din Connector Plug Only \$ 12.00
-  SVPA-4D-72 Din Connector 72" Plug Assembly \$ 32.00







	PART NO.	CONNECTION	VOLT	AMP	SENSOR	PURGE	ALARM	CABLE	PRICE
	SAT-3524	CORDED	24V ACDC	.3A	YES	NO	X	3 CONDUCTOR	\$174.00
	SAT-4120	CORDED - US	120V AC	.1A	YES	NO	X	US CORD - 120V	\$174.00
	SAT-4240	CORDED - EU	240V AC	.05A	YES	NO	X	EU CORD - 240V	\$174.00
	SAT-5524	TERMINAL	24V ACDC	.3A	YES	NO	X		\$168.00
	SAT-5360	TERMINAL	120/240 AC	.07/.12A	NO	NO	X		\$174.00
	SAT-6624	CONNEXALL	24V ACDC	.3A	YES-YES	NO	YES	USE WITH CONNEXALL PLUG CABLE ASS'Y	\$198.00
	SAT-6360	CONNEXALL	120/240 AC	.07/.12A	YES	NO	YES		\$212.00
	SAT-7624	MICRO - 12mm	24V ACDC	.3A	YES-YES	NO	YES	USE WITH MICRO 12MM WATER TIGHT CONNECTOR	\$208.00
	SAT-7360	MICRO - 12mm	120/240 AC	.12/.07A	YES	NO	YES		\$222.00
	SAT-8624	MINI - 22mm	24V ACDC	.3A	YES-YES	NO	YES	USE WITH MINI 22MM WATER TIGHT CONNECTOR	\$214.00
	SAT-8360	MINI - 22mm	120/240 AC	.12/.07A	YES	NO	YES		\$228.00
	SAT-9624	DIN	24V ACDC	.3A	YES-YES	NO	YES	USE WITH DIN CONNECTOR	\$198.00
	SAT-9360	DIN	120/240 AC	.12/.07A	YES	NO	YES		\$212.00

CITO-FP-PRICE-23-0502

StackPulse Controller™ Digital Top



-  SVCA-4C ConneXall 4 Conductor Plug Only \$ 8.80
-  SVCA-4C-72 ConneXall 4 Conductor 72" Cable Ass'y . . \$ 18.00
-  SVCA-3C ConneXall 3 Conductor Plug Only \$ 7.60
-  SVCA-3C-36 ConneXall 3 Conductor 36" Cable Ass'y . . \$ 17.40
-  SVCC-12-72 Micro 12 Water Tight 72" Cable Ass'y . . . \$ 26.00
-  SVCC-22-72 Mini 22 Water Tight 72" Cable Ass'y \$ 28.00
-  SVCA-4D Din Connector Plug Only \$ 12.00
-  SVPA-4D-72 Din Connector 72" Plug Assembly \$ 32.00

	PART NO.	CONNECTOR	VOLT	AMP	SENSOR	PURGE	ALARM	CABLE	PRICE
	SDT-4120	CORDED - US	120V AC	.1A	YES	NO	X	US CORD 120V	\$468.00
	SDT-4240	CORDED - EU	240V AC	.05A	YES	NO	X	EU CORD 240V	\$468.00
	SDT-6524	CONNEXALL	24V ACDC	.3A	YES	NO	X	USE WITH CONNEXALL PLUG CABLE ASS'Y	\$468.00
	SDT-7524	MICRO - 12mm	24V ACDC	.3A	YES	NO	X	USE WITH MICRO 12MM WATER TIGHT CONNECTOR	\$478.00
	SDT-8524	MINI - 22mm	24V ACDC	.3A	YES	NO	X	USE WITH MINI 22MM WATER TIGHT CONNECTOR	\$484.00
	SDT-9524	DIN	24V ACDC	.3A	YES	NO	X	USE WITH DIN CONNECTOR	\$468.00
	SDT-9360	DIN	120/240 ACDC	.05A	YES	NO	X		\$488.00

CITO-FP-PRICE-23-0502


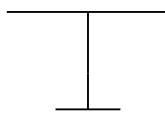

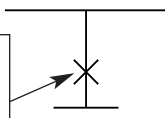

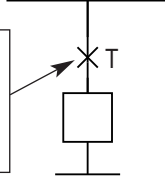

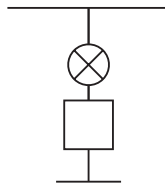


Power Supply - For up to 8 Valves

2 POLE TERMINAL BLOCK
Input - 100-240V AC
Output - 24V - 2.5A










PS-24-2.5 \$ 60.00

StackPort™ / StackShort™ / StackFlow™ / StackValve™ - Modular Valve Bodies

<p>StackPort™ Body</p> 	<p>Includes: (2) "O" RINGS 082-228-E70 (1) "O" RING 082-221-E70 (1) valve port cover (blue) SF-5508-B (1) valve port cover (red) SF-5509-R</p>	
<p>StackPort™ Body (With blue cover) # SP-1000-B \$ 29.00 StackPort™ Body (With red cover) # SP-1000-R \$ 29.00</p>		
<p>StackShort™ Hand Valve</p> 	<p>Includes: (2) "O" RINGS 082-228-E70 (1) "O" RING 082-221-E70 (1) "O" RING DISC SF-5514 (1) blue valve handle cover (1) red valve handle cover</p>	<p>Hand Valve Blue Supply (B) Red Return (R) w/Temp. Gauge (T)</p> 
<p>StackShort™ Body (With blue valve cover) # SS-1000-B \$ 47.00 StackShort™ Body (With red valve cover) # SS-1000-R \$ 47.00 StackShort™ Body with Temperature Gauge (With blue valve cover) # SS-1002-B \$ 69.00 (With red valve cover) # SS-1002-R \$ 69.00</p>		
<p>StackFlow™ Hand Valve - with Window Extension</p> 	<p>Includes: (2) "O" RINGS 082-228-E70 (2) "O" RING 082-221-E70 (1) red valve handle cover (1) blue valve handle cover</p>	<p>Hand Valve Blue Supply (B) Red Return (R) w/Temp. Gauge (T)</p> 
<p>StackFlow™ Body (With blue valve cover) # SF-1000-B \$ 60.00 StackFlow™ Body (With red valve cover) # SF-1000-R \$ 60.00 StackFlow™ Body with Temperature Gauge (With blue valve cover) # SF-1002-B \$ 82.00 (With red valve cover) # SF-1002-R \$ 82.00</p>		
<p>StackValve™ StackController™ StackPulse Controller™</p> 	<p>Includes: (2) "O" RINGS 082-228-E70 (2) "O" RING 082-221-E70 Diaphragm Ass'y SV-1260</p>	
<p>StackValve™ Body # SV-1000 \$ 188.00</p>		

CITO-FP-PRICE-23-1128

Stack™ End Parts - 1 = 1/8"

<p>“IN” End Cap</p> <p>NOTE: All endcaps are available in:</p> <p>N = NPT P = BSPP T = BSPT</p>	<p>1/2" 3/4" 1" 1-1/4" 1-1/2"</p>	<p>EC-3401-N \$ 42.25 EC-3601-N \$ 42.25 EC-3801-N \$ 42.25 EC-3101-N \$ 42.25 EC-3121-N \$ 42.25</p>	
<p>“OUT” End Cap</p> <p>NOTE: All endcaps are available in:</p> <p>N = NPT P = BSPP T = BSPT</p>	<p>1/8" 1/8" (4) 1/4" 1/4" (2) 1/4" (4) 3/8" 3/8" (2) 3/8" (4) 1/2" 1/2" (2) 3/4" 1" 1-1/4"</p>	<p>EC-2011-N \$ 35.75 EC-2014-N \$ 35.75 EC-2021-N \$ 35.75 EC-2022-N \$ 35.75 EC-2024-N \$ 35.75 EC-2031-N \$ 35.75 EC-2032-N \$ 35.75 EC-2034-N \$ 35.75 EC-2041-N \$ 35.75 EC-2042-N \$ 35.75 EC-2061-N \$ 35.75 EC-2081-N \$ 35.75 EC-2101-N \$ 35.75</p>	
<p>End Cover</p>		<p>SF-5420 \$ 5.75</p>	
<p>End Temperature Cap</p> <p>20° to 200° F</p>		<p>SF-9220 \$ 33.80</p>	
<p>End Pressure Cap - (EP-100) 0 to 100 PSI</p>		<p>SF-9100 \$ 33.80</p>	
<p>End Pressure Cap - (EP-160) 0 to 160 PSI</p>		<p>SF-9160 \$ 33.80</p>	
<p>Valve Cap (HAND MICRO VALVE)</p>		<p>1/4" VC-2902 \$ 65.00 3/8" VC-2903 \$ 70.00 1/2" VC-2904 \$ 86.00</p>	
<p>Check Valve</p>		<p>1/4" CV-1202-MF \$ 28.00 3/8" CV-1203-MF \$ 34.00 1/2" CV-1204-MF \$ 42.00</p>	
<p>Check Cap (HAND MICRO) WITH CHECK VALVE</p>		<p>1/4" VCA-2902 \$ 98.00 3/8" VCA-2903 \$ 109.00 1/2" VCA-2904 \$ 133.00</p>	

CITO-FP-PRICE-23-1211

StackFlow™ Replacement Parts

	<p>Diaphragm Rebuild Kit - StackValve™, StackController™, StackPulse Controller™</p> <p>Valve Guide and Diaphragm Assembly</p> <p>Standard Closing Speed SV-9120 \$ 88.50</p>
	<p>Pilot Valve Assembly for StackValve™, StackController™, StackPulseController™</p> <p>DC (Direct Current) Pilot Valve Assembly - Standard Closing PV-1420-DC \$ 69.80</p> <p>AC (Alternating Current - Yellow Dot in Hex) Pilot Valve Assembly - Standard Closing PV-1440-AC \$ 79.40</p>
	<p>Seals for StackFlow™</p> <p>Seals for StackFlow Hand Valve SF-9442 \$ 26.50</p>
	<p>Seals for End cap - StackValve™, StackController™ StackFlow™</p> <p>SF-5228 - 20 \$ 9.40</p>
	<p>Seals for Window - StackValve™, StackController™, Rotoflow™, StackFlow™</p> <p>SF-5221 - 60 \$ 16.40</p>
	<p>Screen Assembly</p> <p>20 Mesh Coarse SF-9120 \$ 20.80 30 Mesh Medium SF-9130 \$ 20.80 40 Mesh Fine SF-9140 \$ 20.80</p>
	<p>Window Assembly for StackFlow™, StackValve™, StackController™, Rotoflow™ (Includes: (2) SF-5221-E "O" RINGS)</p> <p>Flow Window Ass'y FWA-1903 \$ 23.40</p>
 <p>High Flow Low Flow High L-Low Flow Flow 6 Blade 6 Blade</p>	<p>Rotary Flow Turbine for StackFlow™, StackValve™, StackController™, StackPulse Controller™, Rotoflow™ (Includes: (2) SF-5221-E "O" RINGS)</p> <p>High Flow - 3 Blade - 1-60 GPM RTA-3903 \$ 57.20 Low Flow - 3 Blade - .5-10 GPM RTA-3191 \$ 57.20 High Flow - 6 Blade - 1-30 GPM RTA-6903 \$ 57.20 Low Flow - 6 Blade - .2-3.4 GPM RTA-6051 \$ 57.20</p> <p>REVERSE FLOW</p> <p>High Flow Rev. - 3 Blade - 1-60 GPM RTA-3903-R \$ 57.20 Low Flow Rev. - 3 Blade - .5-10 GPM RTA-3191-R \$ 57.20 Low Flow Rev. - 6 Blade - .2-3.4 GPM RTA-6051-R \$ 57.20</p>

CITO-FP-PRICE-23-1109

MiniFlow™ Products - 1 = 1/16"

MF - 0 4 0 4 - N - X

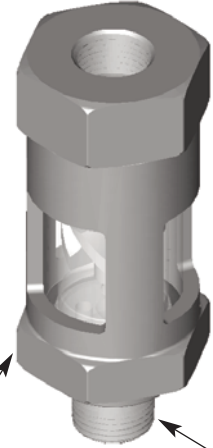
MiniFlow

04 = 1/4" IN
06 = 3/8" IN

04 = 1/4" OUT
06 = 3/8" OUT

Flow Direction
S - Standard Flow Direction
(Male Fitting - "IN")
R - Revers Flow

N = National Pipe Taper (USA)
P = Parallel Pipe
T = Tapered Pipe



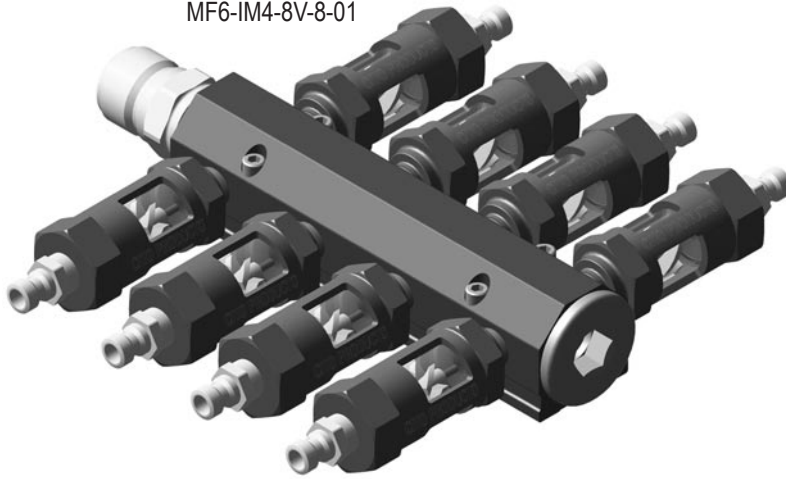
BSPT - 1 Notch
BSPP - 2 Notches

MiniFlow™\$125.00

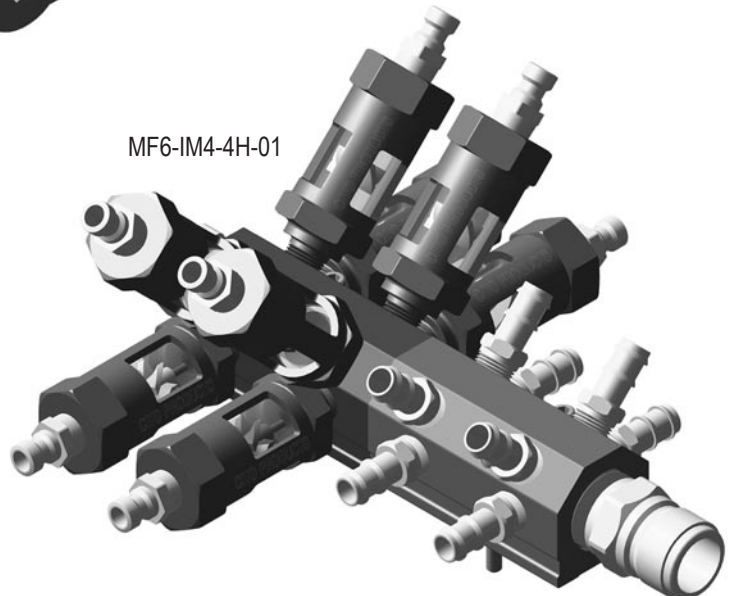
MiniFlow™ Flat Mounted

1" IN (8) 3/8" OUT

MF6-IM4-8V-8-01



MF6-IM4-4H-01



Any Combination for your application

CITO-FP-PRICE-23-1109

RotoFlow™ Assembly/Fittings

CALIBRATED WITH FLOW STRAIGHTENER (MIN LENGTH 5X PIPE DIA.)



High Flow Turbine

RotoFlow™ Use (4) 1/4-20 x 2-1/4" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/4"	1/4"	1-5	4-20	RFH-0404	\$185.00
3/8"	3/8"	1-12	4-46	RFH-0606	\$185.00
1/2"	1/2"	1-22	4-82	RFH-0808	\$185.00
3/4"	3/4"	1-40	4-152	RFH-1212	\$185.00
1"	1"	1-60	4-400	RFH-1616	\$185.00
1-1/4"	1-1/4"	1-60	4-400	RFH-2020	\$185.00



Low Flow Turbine

RotoFlow™ Use (4) 1/4-20 x 2-1/4" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/8"	1/8"	.5-2.4	2-9	RFL-0202	\$185.00
1/4"	1/4"	.5-5.2	2-20	RFL-0404	\$185.00
3/8"	3/8"	.5-8	2-30	RFL-0606	\$185.00
1/2"	1/2"	.5-10	2-38	RFL-0808	\$185.00



L-Low Flow Turbine

RotoFlow™ Use (4) 1/4-20 x 2-1/4" SHCS

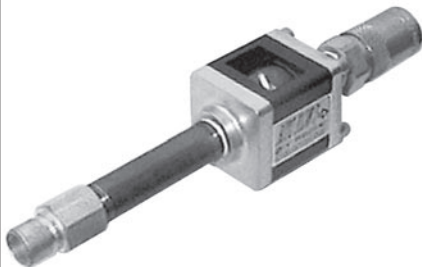
Port In	Port	Gpm	Lpm	Model	Price
1/8"	1/8"	.2-8	.8-3	RF6-0202	\$185.00
1/4"	1/4"	.2-3.4	.8-14	RF6-0404	\$185.00
3/8"	3/8"	.2-4.0	.8-15	RF6-0606	\$185.00



High Flow Turbine - Flow Certification - \$110/Request

RotoFlow™ with Quick Disconnect Fittings, use (4) 1/4-20 x 2-1/4" SHCS

Port	Gpm	Lpm	Q-Coupling	Model	Price
1/4"	1-5	4-20	"C" SERIES	RFH-0404-C	\$215.00
3/8"	1-12	4-46	"C" SERIES	RFH-0606-C	\$215.00
1/2"	1-22	4-82	"C" SERIES	RFH-0808-C	\$230.00
3/4"	1-40	4-152	"S" SERIES	RFH-1212-S	\$250.00
1"	1-60	4-400	"S" SERIES	RFH-1616-S	\$282.00
1-1/4"	1-60	4-400	"S" SERIES	RFH-2020-S	\$314.00



Low Flow Turbine

RotoFlow™ with Quick Disconnect Fittings, use (4) 1/4-20 x 2-1/4" SHCS

Port	Gpm	Lpm	Q-Coupling	Model	Price
1/8"	.5-2.4	2-9	"C" SERIES	RFL-0202-C	\$ 206.00
1/4"	.5-5.2	2-20	"C" SERIES	RFL-0404-C	\$ 209.00
3/8"	.5-8	2-30	"C" SERIES	RFL-0606-C	\$ 215.00
1/2"	.5-10	2-38	"C" SERIES	RFL-0808-C	\$ 231.00



L-Low Flow Turbine

RotoFlow™ with Quick Disconnect Fittings, use (4) 1/4-20 x 2-1/4" SHCS

Port	Gpm	Lpm	Q-Coupling	Model	Price
1/8"	.2-8	.8-3	"C" SERIES	RF6-0202-C	\$ 206.00
1/4"	.2-3.4	.8-13	"C" SERIES	RF6-0404-C	\$ 209.00
3/8"	.2-4.0	.8-15	"C" SERIES	RF6-0606-C	\$ 215.00

CITO-FP-PRICE-22-0720

RotoFlow™ with Screen Assembly (RS)

CALIBRATED WITH FLOW STRAIGHTENER (MIN LENGTH 5X PIPE DIA.)

High Flow Turbine

RotoFlow™ with Screen Insert, use (4) 1/4-20 x 2.6" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/4"	1/4"	1-5	4-20	RSH-0404 ...	\$ 221.00
3/8"	3/8"	1-12	4-46	RSH-0606 ...	\$ 221.00
1/2"	1/2"	1-22	4-82	RSH-0808 ...	\$ 221.00
3/4"	3/4"	1-40	4-152	RSH-1212 ...	\$ 221.00
1"	1"	1-60	4-400	RSH-1616 ...	\$ 221.00



Low Flow Turbine

RotoFlow™ with Screen Insert, use (4) 1/4-20 x 2.6" SHCS

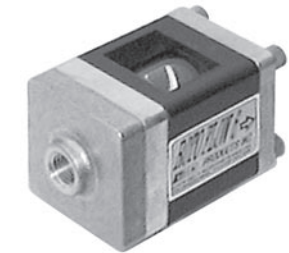
Port In	Port Out	Gpm	Lpm	Model	Price
1/8"	1/8"	.5-2.4	2-9	RSL-0202 ...	\$ 221.00
1/4"	1/4"	.5-5.2	2-20	RSL-0404 ...	\$ 221.00
3/8"	3/8"	.5-8	2-30	RSL-0606 ...	\$ 221.00
1/2"	1/2"	.5-10	2-38	RSL-0808 ...	\$ 221.00



L-Low Flow Turbine

RotoFlow™ with Screen Insert, use (4) 1/4-20 x 2.6" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/8"	1/8"	.2-8	.8-3	RS6-0202 ...	\$ 221.00
1/4"	1/4"	.2-3.4	.8-14	RS6-0404 ...	\$ 221.00
3/8"	3/8"	.2-4.0	.8-15	RS6-0606 ...	\$ 221.00



High Flow Turbine

 RotoFlow™ with Screen Insert and Quick Disconnect Fittings.
 Use (4) 1/4-20 x 2.6" SHCS

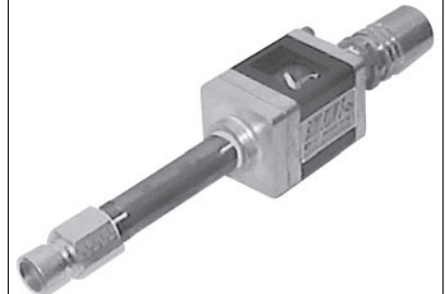
Port	Gpm	Lpm	Q-Coupling	Model	Price
1/4"	1-5	4-20	"C" SERIES	RSH-0404-C ..	\$ 250.00
3/8"	1-12	4-46	"C" SERIES	RSH-0606-C ..	\$ 250.00
1/2"	1-22	4-82	"C" SERIES	RSH-0808-C ..	\$ 267.00
3/4"	1-40	4-152	"S" SERIES	RSH-1212-S ..	\$ 286.00
1"	1-60	4-400	"S" SERIES	RSH-1616-S ..	\$ 318.00



Low Flow Turbine

 RotoFlow™ with Screen Insert and Quick Disconnect Fittings.
 Use (4) 1/4-20 x 2.6" SHCS

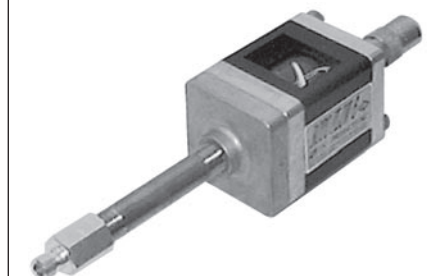
Port	Gpm	Lpm	Q-Coupling	Model	Price
1/8"	.5-2.4	2-9	"C" SERIES	RSL-0202-C ...	\$ 243.00
1/4"	.5-5.2	2-20	"C" SERIES	RSL-0404-C ...	\$ 245.00
3/8"	.5-8	2-30	"C" SERIES	RSL-0606-C ...	\$ 250.00
1/2"	.5-10	2-38	"C" SERIES	RSL-0808-C ...	\$ 267.00



L-Low Flow Turbine

 RotoFlow™ with Screen Insert and Quick Disconnect Fittings
 Use (4) 1/4-20 x 2.6" SHCS

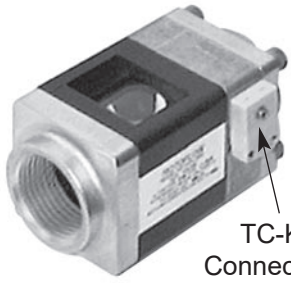
Port	Gpm	Lpm	Q-Coupling	Model	Price
1/8"	.2-8	.8-3	"C" SERIES	RS6-0202-C ...	\$ 243.00
1/4"	.2-3.4	.8-13	"C" SERIES	RS6-0404-C ...	\$ 245.00
3/8"	.2-4.0	.8-15	"C" SERIES	RS6-0606-C ...	\$ 250.00



CITO-FP-PRICE-22-0721

RotoFlow™ with Temperature Insert (RT)

CALIBRATED WITH FLOW STRAIGHTENER (MIN LENGTH 5X PIPE DIA.)

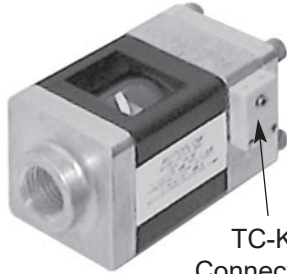


TC-K Connection

High Flow Turbine

RotoFlow™ with Temperature Insert, use (4) 1/4-20 x 3" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/4"	1/4"	1-5	4-20	RTH-0404	\$ 232.00
3/8"	3/8"	1-12	4-46	RTH-0606	\$ 232.00
1/2"	1/2"	1-22	4-82	RTH-0808	\$ 232.00
3/4"	3/4"	1-40	4-152	RTH-1212	\$ 232.00
1"	1"	1-60	4-400	RTH-1616	\$ 232.00
1-1/4"	1-1/4"	1-60	4-400	RTH-2020	\$ 232.00

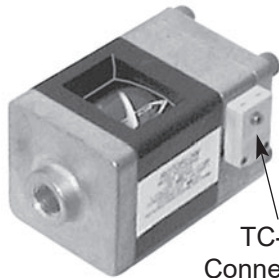


TC-K Connection

Low Flow Turbine

RotoFlow™ with Temperature Insert, use (4) 1/4-20 x 3" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/8"	1/8"	.5-2.4	2-9	RTL-0202	\$ 232.00
1/4"	1/4"	.5-5.2	2-20	RTL-0404	\$ 232.00
3/8"	3/8"	5-8	2-30	RTL-0606	\$ 232.00
1/2"	1/2"	.5-10	2-38	RTL-0808	\$ 232.00

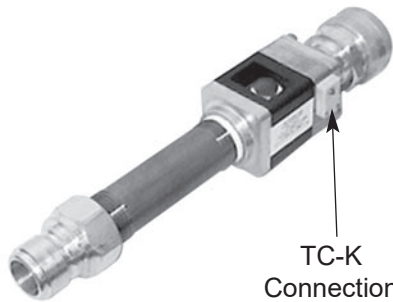


TC-K Connection

L-Low Flow Turbine

RotoFlow™ with Temperature Insert, use (4) 1/4-20 x 3" SHCS

Port In	Port Out	Gpm	Lpm	Model	Price
1/8"	1/8"	.2-8	8-3	RT6-0202	\$ 232.00
1/4"	1/4"	.2-3.4	8-14	RT6-0404	\$ 232.00
3/8"	3/8"	.2-4.0	8-15	RT6-0606	\$ 232.00

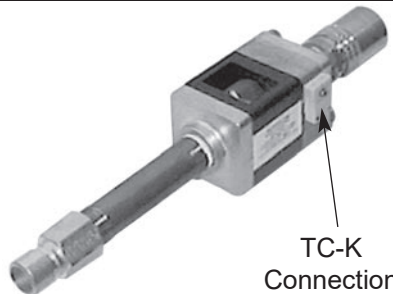


TC-K Connection

High Flow Turbine (Flow Certification Upon Request \$140)

RotoFlow™ with Temperature Insert and Quick Disconnect Fittings
Use (4) 1/4-20 x 3" SHCS

Port	Gpm	Lpm	Q-Coupling	Model	Price
1/4"	1-5	4-20	"C" SERIES	RTH-0404-C . . .	\$ 260.00
3/8"	1-12	4-46	"C" SERIES	RTH-0606-C . . .	\$ 260.00
1/2"	1-22	4-82	"C" SERIES	RTH-0808-C . . .	\$ 278.00
3/4"	1-40	4-152	"S" SERIES	RTH-1212-S . . .	\$ 296.00
1"	1-60	4-400	"S" SERIES	RTH-1616-S . . .	\$ 313.00
1-1/4"	1-60	4-400	"S" SERIES	RTH-2020-S . . .	\$ 332.00

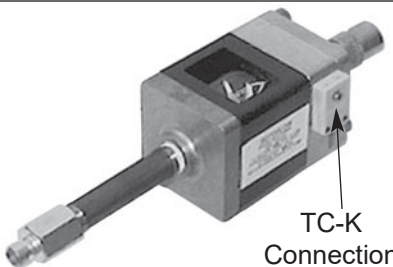


TC-K Connection

Low Flow Turbine (Flow Certification Upon Request \$140)

RotoFlow™ with Temperature Insert and Quick Disconnect Fittings
Use (4) 1/4-20 x 3" SHCS

Port	Gpm	Lpm	Q-Coupling	Model	Price
1/8"	.5-2.4	2-9	"C" SERIES	RTL-0202-C . . .	\$ 253.00
1/4"	.5-5.2	2-20	"C" SERIES	RTL-0404-C . . .	\$ 256.00
3/8"	.5-8	2-30	"C" SERIES	RTL-0606-C . . .	\$ 262.00
1/2"	.5-10	2-38	"C" SERIES	RTL-0808-C . . .	\$ 278.00



TC-K Connection



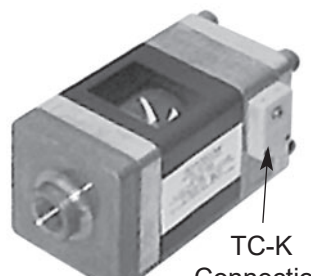
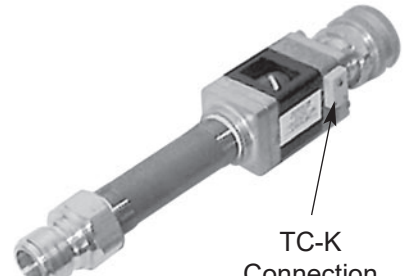
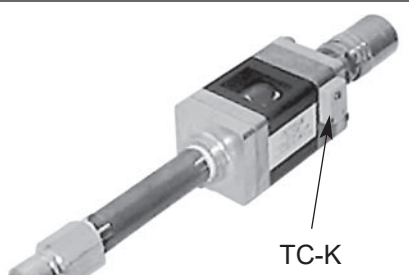
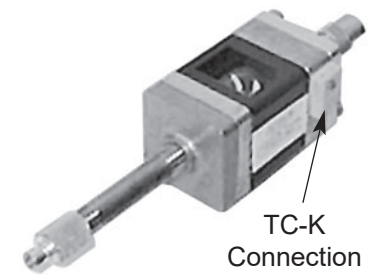
L-Low Flow Turbine (Flow Certification Upon Request \$140)

RotoFlow™ with Temperature Insert and Quick Disconnect Fittings
Use (4) 1/4-20 x 3" SHCS

Port	Gpm	Lpm	Q-Coupling	Model	Price
1/8"	.2-8	8-3	"C" SERIES	RT6-0202-C . . .	\$ 253.00
1/4"	.2-3.4	8-13	"C" SERIES	RT6-0404-C . . .	\$ 256.00
3/8"	.2-4.0	8-15	"C" SERIES	RT6-0606-C . . .	\$ 262.00

CITO-FP-PRICE-22-0721

RotoFlow™ Combinations - Screen/Temperature Insert (RC)

<p>High Flow Turbine RotoFlow™ with Screen and Temperature Insert, use (4) 1/4-20 x 2.25" SHCS</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Port In</th> <th style="text-align: center;">Port Out</th> <th style="text-align: center;">Gpm</th> <th style="text-align: center;">Lpm</th> <th style="text-align: center;">Model</th> <th style="text-align: center;">Price</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1/4"</td> <td style="text-align: center;">1/4"</td> <td style="text-align: center;">1-5</td> <td style="text-align: center;">4-20</td> <td style="text-align: center;">RCH-0404</td> <td style="text-align: right;">\$ 350.00</td> </tr> <tr> <td style="text-align: center;">3/8"</td> <td style="text-align: center;">3/8"</td> <td style="text-align: center;">1-12</td> <td style="text-align: center;">4-46</td> <td style="text-align: center;">RCH-0606</td> <td style="text-align: right;">\$ 350.00</td> </tr> <tr> <td style="text-align: center;">1/2"</td> <td style="text-align: center;">1/2"</td> <td style="text-align: center;">1-22</td> <td style="text-align: center;">4-82</td> <td style="text-align: center;">RCH-0808</td> <td style="text-align: right;">\$ 350.00</td> </tr> <tr> <td style="text-align: center;">3/4"</td> <td style="text-align: center;">3/4"</td> <td style="text-align: center;">1-40</td> <td style="text-align: center;">4-152</td> <td style="text-align: center;">RCH-1212</td> <td style="text-align: right;">\$ 350.00</td> </tr> <tr> <td style="text-align: center;">1"</td> <td style="text-align: center;">1"</td> <td style="text-align: center;">1-60</td> <td style="text-align: center;">4-400</td> <td style="text-align: center;">RCH-1616</td> <td style="text-align: right;">\$ 350.00</td> </tr> </tbody> </table>	Port In	Port Out	Gpm	Lpm	Model	Price	1/4"	1/4"	1-5	4-20	RCH-0404	\$ 350.00	3/8"	3/8"	1-12	4-46	RCH-0606	\$ 350.00	1/2"	1/2"	1-22	4-82	RCH-0808	\$ 350.00	3/4"	3/4"	1-40	4-152	RCH-1212	\$ 350.00	1"	1"	1-60	4-400	RCH-1616	\$ 350.00	 <p style="font-size: small;">CALIBRATED WITH FLOW STRAIGHTENER (MIN LENGTH 5X PIPE DIA.)</p> <p style="font-size: small;">TC-K Connection</p>
Port In	Port Out	Gpm	Lpm	Model	Price																																
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3/8"	.5-8	2-30	"C" SERIES	RCL-0606-C	\$ 296.00																																
1/2"	.5-10	2-38	"C" SERIES	RCL-0808-C	\$ 315.00																																
<p>L-Low Flow Turbine RotoFlow™ with Screen, Temperature Insert and Quick Disconnect Fittings Use (4) 1/4-20 x 3.25" SHCS</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Port</th> <th style="text-align: center;">Gpm</th> <th style="text-align: center;">Lpm</th> <th style="text-align: center;">Q-Coupling</th> <th style="text-align: center;">Model</th> <th style="text-align: center;">Price</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1/8"</td> <td style="text-align: center;">.2-3</td> <td style="text-align: center;">.8-3</td> <td style="text-align: center;">"C" SERIES</td> <td style="text-align: center;">RC6-0202-C</td> <td style="text-align: right;">\$ 290.00</td> </tr> <tr> <td style="text-align: center;">1/4"</td> <td style="text-align: center;">.2-3.4</td> <td style="text-align: center;">.8-13</td> <td style="text-align: center;">"C" SERIES</td> <td style="text-align: center;">RC6-0404-C</td> <td style="text-align: right;">\$ 292.00</td> </tr> <tr> <td style="text-align: center;">3/8"</td> <td style="text-align: center;">.2-4.0</td> <td style="text-align: center;">.8-15</td> <td style="text-align: center;">"C" SERIES</td> <td style="text-align: center;">RC6-0606-C</td> <td style="text-align: right;">\$ 315.00</td> </tr> </tbody> </table>	Port	Gpm	Lpm	Q-Coupling	Model	Price	1/8"	.2-3	.8-3	"C" SERIES	RC6-0202-C	\$ 290.00	1/4"	.2-3.4	.8-13	"C" SERIES	RC6-0404-C	\$ 292.00	3/8"	.2-4.0	.8-15	"C" SERIES	RC6-0606-C	\$ 315.00	 <p style="font-size: small;">TC-K Connection</p>												
Port	Gpm	Lpm	Q-Coupling	Model	Price																																
1/8"	.2-3	.8-3	"C" SERIES	RC6-0202-C	\$ 290.00																																
1/4"	.2-3.4	.8-13	"C" SERIES	RC6-0404-C	\$ 292.00																																
3/8"	.2-4.0	.8-15	"C" SERIES	RC6-0606-C	\$ 315.00																																

CITO-FP-PRICE-22-0721

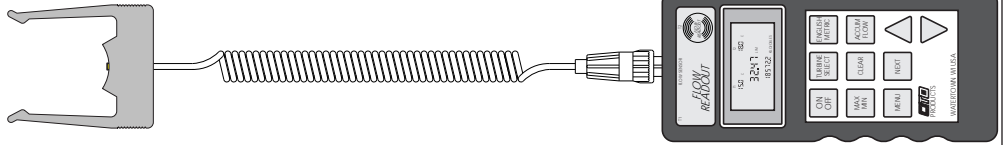
FlowReadout™

ThermoFlow™ Analyzer

Flow Calibrator™



FlowReadout™



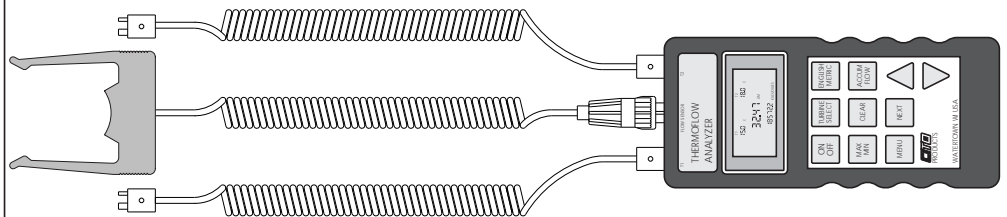
FlowReadout™ Kit # FKR-2002
Flow range from .2 to 60 GPM

Consists of: FlowReadout™ # FR-9600
 Flow Sensor # FSA-1-C36-M06
 9 Volt Replacement Battery FR-8009
 Instruction Manual FP-1-40-A-1

With Case\$ 790.00



ThermoFlow™ Analyzer



ThermoFlow™ Analyzer Kit # FKA-2002
Flow range from .2 to 60 GPM
Reads Temperature from 32° to 999.0° F (0° to 537° C)

Consists of: ThermoFlow™ Analyzer # FA-9600
 Flow Sensor # FSA-1-C36-M06
 (2) "K" Temperature Sensor Cables FK-CCA-36
 9 Volt Replacement Battery FR-8009
 120/9V AC Converter FK-FCA-8120
 Output cable FK-AUC-96
 Instruction Manual FP-1-40-A-1

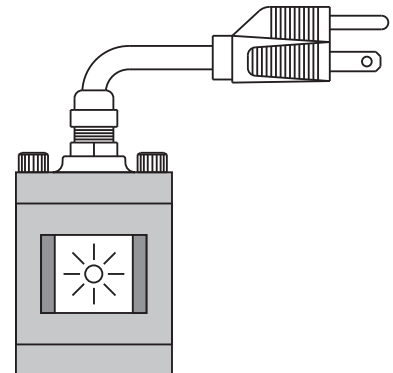
With Case\$ 1,190.00



Flow Calibrator™

Flow Calibrator™ # RoCal 3600

A precision signal generator to check flow calibration (High, Low , L - Low) of the FlowReadout™ or the ThermoFlow™ Analyzer



With Pouch\$ 242.00

CITO-FP-PRICE-22-0721

Flow Kits with 2 RotoFlows™

FlowReadout™ Kit # FKR-2212

Consists of:

FlowReadout™ # FR-9600	FSA-I-C36-M06
Flow Sensor	FR-8009
9 Volt Replacement Battery	
1/4" .5 to 5.2 GPM	
Quick Couple RotoFlow™	RFL-0404-C
3/8" 1 to 12 GPM	
Quick Couple RotoFlow™	RFH-0606-C
Instruction Manual	FP-I-40-A-1

With Case\$ 1,222.00



ThermoFlow™ Analyzer Kit # FKA-2202

Consists of:

ThermoFlow™ Analyzer # FA-9600	FSA-I-C36-M06
Flow Sensor	FR-8009
9 Volt Replacement Battery	FK-CCA-36
(2) "K" Temperature Sensor Cable	FK-FCA-8120
120/9V AC Converter	FK-AUC-96
Output Cable	FTC-FF-04-TCK
(2) 1/4" Thermocouplings	FTC-FF-06-TCK
(2) 3/8" Thermocouplings	RFL-0404
1/4" .5 to 5.2 GPM RotoFlow™	RFH-0606
3/8" 1 to 12 GPM RotoFlow™	FP-I-40-A-1
Instruction Manual	

With Case\$ 1,742.00



ThermoFlow™ Analyzer Kit # FKA-4212

Consists of:

ThermoFlow™ Analyzer # FA-9600	FSA-I-C36-M06
Flow Sensor	FR-8009
9 Volt Replacement Battery	FK-CCA-36
(2) "K" Coiled Cable Ass'y	FK-FCA-8120
120/9V AC Converter	FK-AUC-96
Output Cable	FTC-QQ-04-TCK
(2) 1/4" Thermocouplings	FTC-QQ-06-TCK
(2) 3/8" Thermocouplings	
1/4" .5 to 5.2 GPM	
Quick Couple RotoFlow™	RFL-0404-C
3/8" 1 to 12 GPM	
Quick Couple RotoFlow™	RFH-0606-C
Melt Sensor	FK-MSA-4-60-K
Instruction Manual	FP-I-40-A-1

With Case\$ 1,963.00



CITO-FP-PRICE-23-0110

Flow Kits with 3 *RotoFlows*™



ThermoFlow™ Analyzer Kit # FKA-3312

Consists of: ThermoFlow™ Analyzer # FA-9600

Flow Sensor	FSA-I-C36-MO6
(2) 9 Volt Replacement Battery	FR-8009
(2) "K" Coiled Cable Ass'y	FK-CCA-36
120/9V AC Converter	FK-FCA-8120
Data Output Cable	FK-AUC-96
1/4" Q-TEMP Coupling	FTC-QQ-04-TCK
3/8" Q-TEMP Coupling	FTC-QQ-06-TCK
1/2" Q-TEMP Coupling	FTC-QQ-08-TCK
RotoFlow™ with Temperature Sensor insert	
.5 to 5.2 GPM 1/4" Quick Coupling	RTL-0404-C
1 to 12 GPM 3/8" Quick Coupling	RTH-0606-C
Pressure Gauge-Side	PGS-100
Pressure Gauge - Bottom	PGB-100
(2) 3/8" M - 1/4" F Quick Adapter	QA-06-04
(2) 3/8" M - 1/2" F Quick Adapter	QA-06-08
Surface Temp. Sensor w/Laser Beam	FK-ITS-120K
Melt Sensor 100-800° F	FK-MSA-4-36-K
Instruction Manual	FP-I-40-A-1

With Case \$ 2,938.00

Differential Pressure Flow Kit



DIFFERENTIAL PRESSURE KIT # DPK-4803

- Connect Water Line
- Set for Flow to 5 # Differential Pressure
- Establish Cv (Flow Coefficient) for each Cooling Circuit
- Check for X Flow
- Record and Forward
- To Cooling Plan Designer
- For Mold Fitting 1/4" - 3/8" and 1/2"

With Case \$ 1,248.00

CITO-FP-PRICE-22-0721

Flow Kit Accessories For *ThermoFlow*™ Analyzer

AC Converter 120-240/9 - Volt for line power conversion

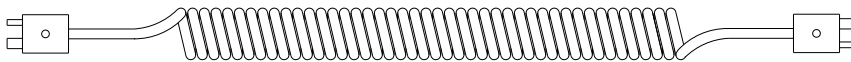


FK-FCA-8120 72" long 120-240 V AC \$ 16.40

Output Cable - for analog output to chart recorder or PLC



FK-AUC-96 96" Length \$ 30.45



Coiled TC Cable - for water line temperature measurements

- 36" Long cord (extended)
- Type K

FK-CCA-36 \$ 53.30



Melt Temperature Sensor - for melt temperature measurements up to 999° F


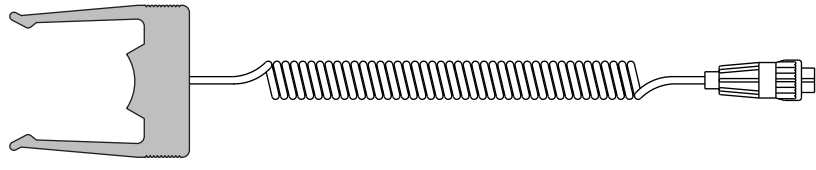

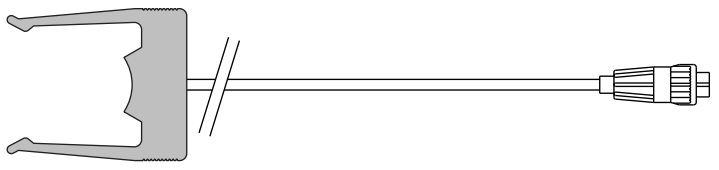
- 4" Probe
- 36" Cable

FK-MTSA-4-36-K \$ 114.40


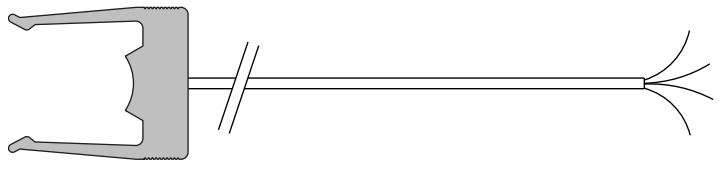

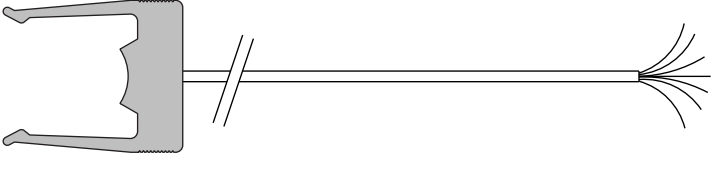


CITO-FP-PRICE-22-0721

Flow Sensors For *FlowReadout™* and *ThermoFlow™* Analyzer




	 <p>Coiled Flow Sensor - up to 36" FSA-I-C36-M6 36" Long Expandable Cable with 6 Pin Connector \$ 158.00</p>									
	 <p>Flow Sensor - with Cable</p> <table border="0"> <tr> <td>FSA-I-06-M6</td> <td>6" cable with 6 Pin Connector</td> <td>\$ 124.00</td> </tr> <tr> <td>FSA-I-48-M6</td> <td>48" cable with 6 Pin Connector</td> <td>\$ 132.00</td> </tr> <tr> <td>FSA-I-120-M6</td> <td>120" cable with 6 Pin Connector</td> <td>\$ 148.00</td> </tr> </table>	FSA-I-06-M6	6" cable with 6 Pin Connector	\$ 124.00	FSA-I-48-M6	48" cable with 6 Pin Connector	\$ 132.00	FSA-I-120-M6	120" cable with 6 Pin Connector	\$ 148.00
FSA-I-06-M6	6" cable with 6 Pin Connector	\$ 124.00								
FSA-I-48-M6	48" cable with 6 Pin Connector	\$ 132.00								
FSA-I-120-M6	120" cable with 6 Pin Connector	\$ 148.00								

Flow Sensors For PLC and Monitoring Equipment



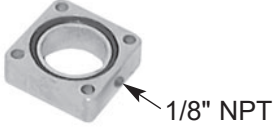
	 <p>Flow Sensor - F F - 16-24 Volt DC Input - Frequency out</p> <table border="0"> <tr> <td>FSF-I-120</td> <td>120" cable</td> <td>\$ 122.00</td> </tr> </table>	FSF-I-120	120" cable	\$ 122.00
FSF-I-120	120" cable	\$ 122.00		
	 <p>Flow Sensor Converter F / V / I 16-24 Volt DC Input - Frequency out 4-20 ma current out 0-10 Volt output</p> <table border="0"> <tr> <td>FSC-I-120</td> <td>120" cable</td> <td>\$ 252.00</td> </tr> </table>	FSC-I-120	120" cable	\$ 252.00
FSC-I-120	120" cable	\$ 252.00		

CITO-FP-PRICE-22-0822

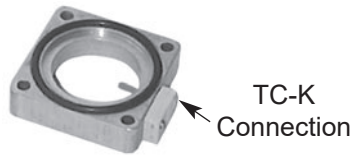
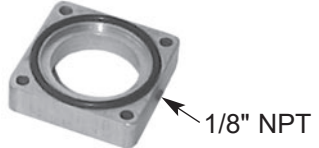
Flow Kit Adapters

<p>Pressure Gauge - Back with Quick Coupling</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">PGB-60</td> <td style="width: 45%;">0-60 PSI</td> <td style="width: 40%; text-align: right;">\$ 49.00</td> </tr> <tr> <td>PGB-100</td> <td>0-100 PSI</td> <td style="text-align: right;">\$ 49.00</td> </tr> <tr> <td>PGB-160</td> <td>0-160 PSI</td> <td style="text-align: right;">\$ 49.00</td> </tr> </table>	PGB-60	0-60 PSI	\$ 49.00	PGB-100	0-100 PSI	\$ 49.00	PGB-160	0-160 PSI	\$ 49.00				
PGB-60	0-60 PSI	\$ 49.00											
PGB-100	0-100 PSI	\$ 49.00											
PGB-160	0-160 PSI	\$ 49.00											
<p>Pressure Gauge - Side with Quick Coupling</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">PGS-60</td> <td style="width: 45%;">0-60 PSI</td> <td style="width: 40%; text-align: right;">\$ 49.00</td> </tr> <tr> <td>PGS-100</td> <td>0-100 PSI</td> <td style="text-align: right;">\$ 49.00</td> </tr> <tr> <td>PGS-160</td> <td>0-160 PSI</td> <td style="text-align: right;">\$ 49.00</td> </tr> </table>	PGS-60	0-60 PSI	\$ 49.00	PGS-100	0-100 PSI	\$ 49.00	PGS-160	0-160 PSI	\$ 49.00				
PGS-60	0-60 PSI	\$ 49.00											
PGS-100	0-100 PSI	\$ 49.00											
PGS-160	0-160 PSI	\$ 49.00											
<p>Pressure Gauge Adapter- "C" Series Quick Connect</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">QA-06-04</td> <td style="width: 45%;">3/8" M - 1/4" F</td> <td style="width: 40%; text-align: right;">\$ 8.30</td> </tr> <tr> <td>QA-04-06</td> <td>1/4" M - 3/8" F</td> <td style="text-align: right;">\$ 9.75</td> </tr> <tr> <td>QA-06-08</td> <td>3/8" M - 1/2" F</td> <td style="text-align: right;">\$14.95</td> </tr> <tr> <td>QA-08-06</td> <td>1/2" M - 3/8" F</td> <td style="text-align: right;">\$16.25</td> </tr> </table>	QA-06-04	3/8" M - 1/4" F	\$ 8.30	QA-04-06	1/4" M - 3/8" F	\$ 9.75	QA-06-08	3/8" M - 1/2" F	\$14.95	QA-08-06	1/2" M - 3/8" F	\$16.25	
QA-06-04	3/8" M - 1/4" F	\$ 8.30											
QA-04-06	1/4" M - 3/8" F	\$ 9.75											
QA-06-08	3/8" M - 1/2" F	\$14.95											
QA-08-06	1/2" M - 3/8" F	\$16.25											

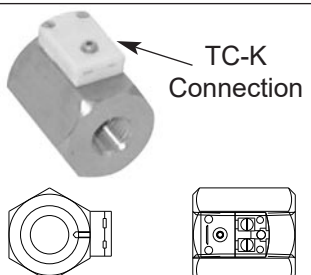
RotoFlow™ Additions

<p>Flow Screen Insert - 30 mesh screen (for RotoFlow™) Use with (4) 1/4-20 x 2.580" SHCS Note: combined screen length 3.320"</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">RF-2420</td> <td style="width: 45%;">Coarse</td> <td style="width: 40%; text-align: right;">\$ 46.00</td> </tr> <tr> <td>RF-2430</td> <td>Medium</td> <td style="text-align: right;">\$ 46.00</td> </tr> <tr> <td>RF-2440</td> <td>Fine</td> <td style="text-align: right;">\$ 46.00</td> </tr> </table>	RF-2420	Coarse	\$ 46.00	RF-2430	Medium	\$ 46.00	RF-2440	Fine	\$ 46.00	
RF-2420	Coarse	\$ 46.00								
RF-2430	Medium	\$ 46.00								
RF-2440	Fine	\$ 46.00								
<p>Flow Temperature Insert TC "K" (for RotoFlow™ StackFlow™) Use with (4) 1/4-20 x 3.0" SHCS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ET-2000-TCK</td> <td style="width: 45%;"></td> <td style="width: 40%; text-align: right;">\$ 59.00</td> </tr> </table> <p>NOTE: WHEN USING SCREEN AND TEMP INSERT = USE 1/4-20 x 3.25" SHCS THERMO COUPLE "K" CONNECTOR</p>	ET-2000-TCK		\$ 59.00							
ET-2000-TCK		\$ 59.00								
<p>Flow Temperature Insert - For 1/8" NPT (for RotoFlow™ StackFlow™) Use with (4) 1/4-20 x 3" SHCS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ET-2125</td> <td style="width: 45%;"></td> <td style="width: 40%; text-align: right;">\$ 42.00</td> </tr> </table> <p>THERMO COUPLE "K" CONNECTOR</p>	ET-2125		\$ 42.00							
ET-2125		\$ 42.00								

StackFlow™ Additions

<p>Flow Temperature Insert TC "K" (Screen end) Use with (4) 1/4-20 x 1-3/4" SHCS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ET-3000-TCK</td> <td style="width: 45%;"></td> <td style="width: 40%; text-align: right;">\$ 59.00</td> </tr> </table>	ET-3000-TCK		\$ 59.00	
ET-3000-TCK		\$ 59.00		
<p>Flow Temperature Adapter 1/8" NPT (for temperature sensor) Use with (4) 1/4-20 x 1-3/4" SHCS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ET-3125</td> <td style="width: 45%;"></td> <td style="width: 40%; text-align: right;">\$ 48.00</td> </tr> </table>	ET-3125		\$ 48.00	
ET-3125		\$ 48.00		

Flow/Temperature Adapter Assembly

Type "K" Thermocouple - Miniature Type connector																
<p>Female / Female Temperature Coupling</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">FT-2002-TCK</td> <td style="width: 45%;">1/4"</td> <td style="width: 40%; text-align: right;">\$ 46.15</td> </tr> <tr> <td>FT-2003-TCK</td> <td>3/8"</td> <td style="text-align: right;">\$ 46.15</td> </tr> <tr> <td>FT-2004-TCK</td> <td>1/2"</td> <td style="text-align: right;">\$ 46.15</td> </tr> <tr> <td>FT-2006-TCK</td> <td>3/4"</td> <td style="text-align: right;">\$ 47.50</td> </tr> <tr> <td>FT-2008-TCK</td> <td>1"</td> <td style="text-align: right;">\$ 49.40</td> </tr> </table> <p><i>For Additional Ports - Contact Factory</i></p>	FT-2002-TCK	1/4"	\$ 46.15	FT-2003-TCK	3/8"	\$ 46.15	FT-2004-TCK	1/2"	\$ 46.15	FT-2006-TCK	3/4"	\$ 47.50	FT-2008-TCK	1"	\$ 49.40	
FT-2002-TCK	1/4"	\$ 46.15														
FT-2003-TCK	3/8"	\$ 46.15														
FT-2004-TCK	1/2"	\$ 46.15														
FT-2006-TCK	3/4"	\$ 47.50														
FT-2008-TCK	1"	\$ 49.40														

Suggested Sensor Selection

CITO PRODUCTS HAS DEVELOPED A SERIES OF SENSORS

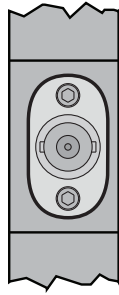
SUITABLE FOR A WIDE RANGE OF APPLICATIONS

THE SENSOR TIP SHOULD BE PLACED AT A DYNAMIC POSITION.

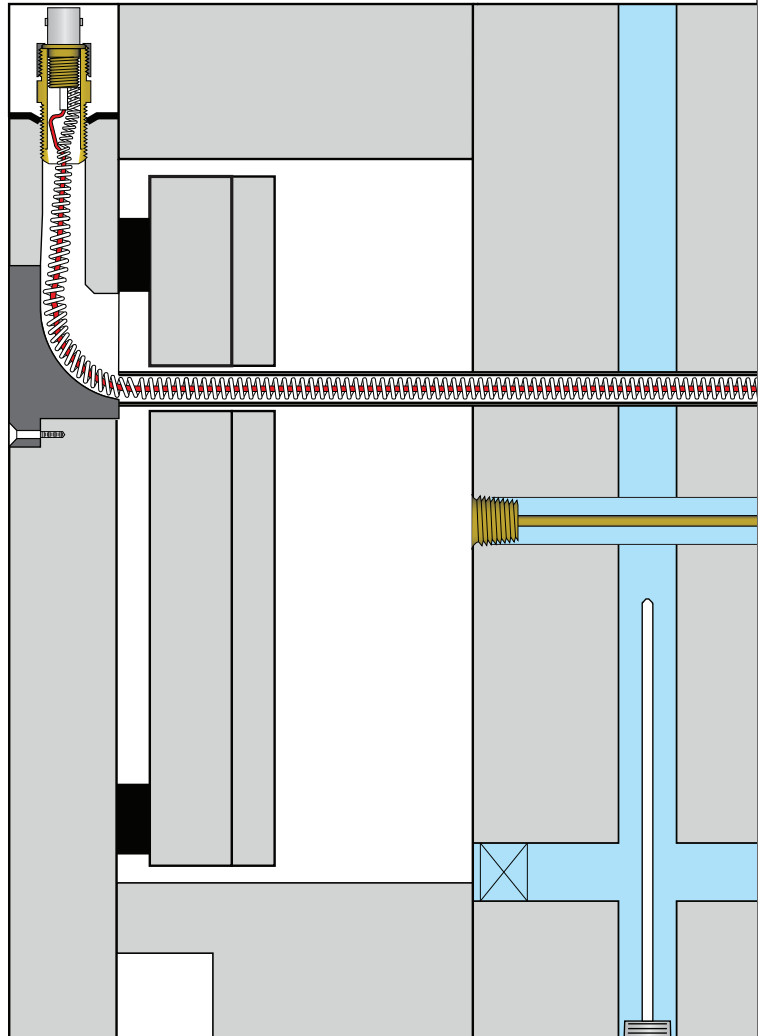
TO CHECK THE SENSOR - USE AN OHM METER. THE RESISTANCE SHOULD READ 20.000 OHM @ 77 DEGR F.(25C) AS THE TEMPERATURE INCREASES - THE RESISTANCE WILL DECREASE.

THE LENGTH OF THE CONNECTION CABLE MAY BE EXTENDED TO ANY LENGTH WITH MINIMAL CHANGE IN PERFORMANCE.

FOR CUSTOM SENSOR ASSEMBLIES - CONTACT FACTORY



6
 SPRING BEAD PROBE 3/16" WITH 3/16" SENSOR GUIDETUBE FOR 90 DEGR. TURNS



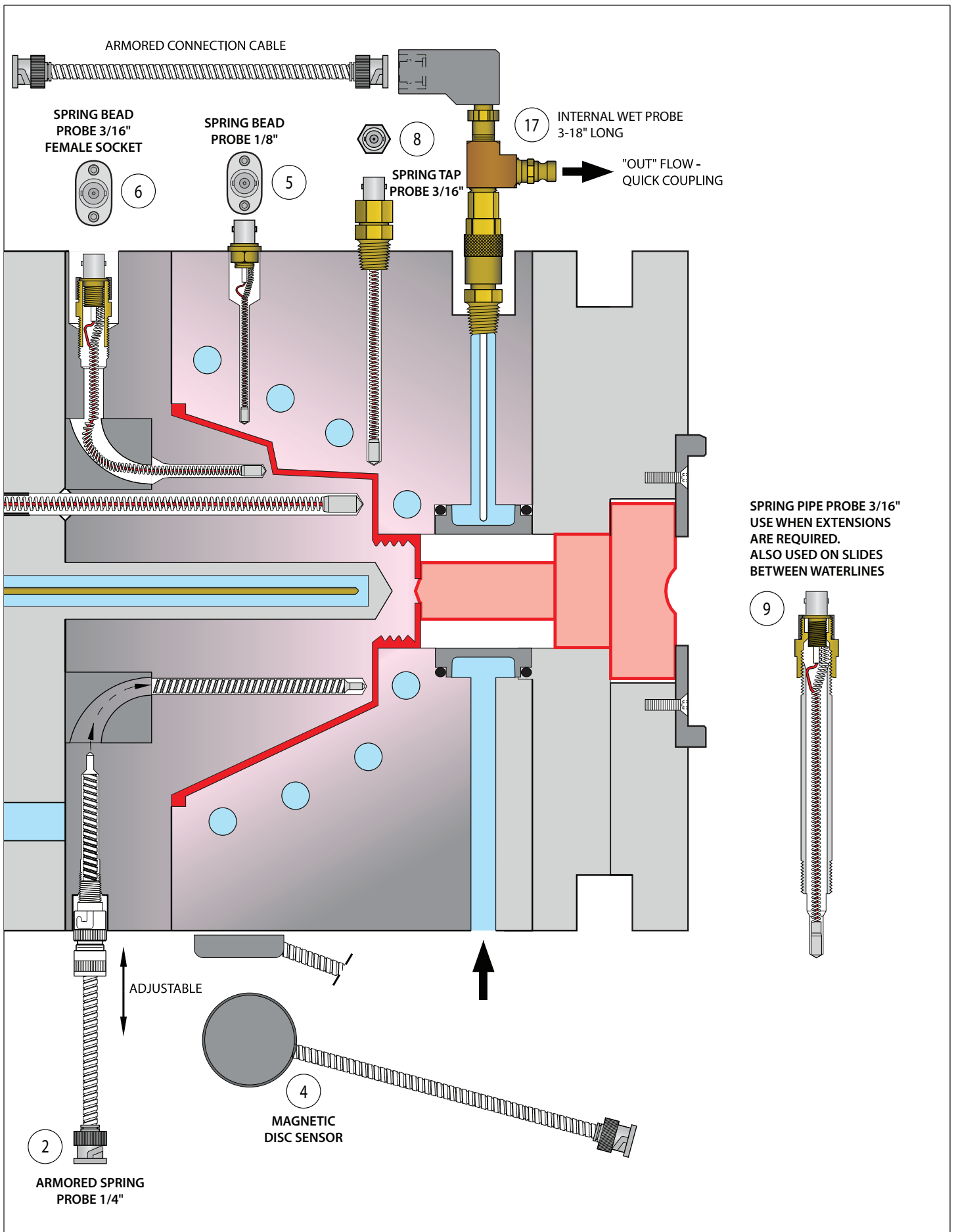
Select a sensor that can be installed closest to the area that needs to be controlled.

Ideal distance
 0.1" from Molding Surface



14
 INTERNAL WEB PROBE
 Use with "Pulse Advance" Controller

CITO-FP-PRICE-21-0820

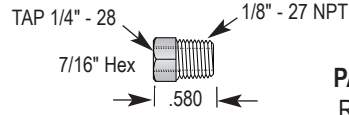
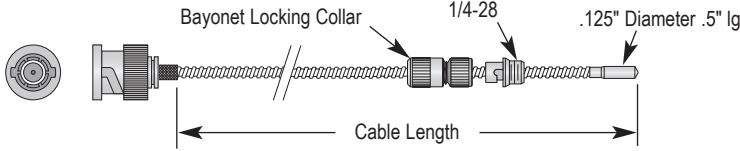


CITO-FP-PRICE-21-0823

Armored Spring Probes - Custom Sizes - Request Quote

1 Armored Mini Probe 1/8", 1/8" X .5" Long Tip (CAD: AMP-2-20-XXX)

SENSOR SELECTION: PC-1000
MFG. DWG. AMP-1200
AMP-1220
INSTALL. AMP-1800



PART NO. PRICE
RB-02-28 \$ 2.80

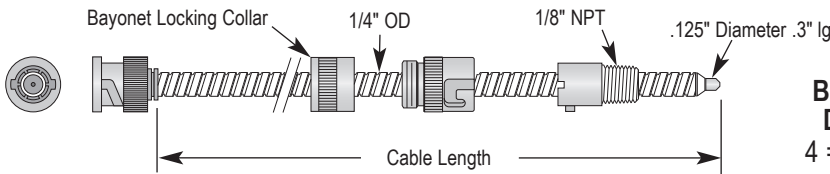
Reducer for Armored Mini
Probe to fit 1/8" NPT

BODY DIA.	OHM 20K	CABLE LENGTH	PART NO.	PRICE
2 = 1/8"	20	6"	AMP-2-20-006	\$104.00
		12"	AMP-2-20-012	\$106.00
		24"	AMP-2-20-024	\$110.00
		48"	AMP-2-20-048	\$118.00
		96"	AMP-2-20-096	\$134.00
		144"	AMP-2-20-144	\$150.00

To make a 90° change in direction use
sensor guide insert SGI-6-875-1.5

2 Armored Spring Probe 1/4", 1/8" X .3" Long Tip (CAD: ASP-4-20-XXX)

SENSOR SELECTION: PC-1000
MFG. DWG. ASP-1200
ASP-1220
INSTALL. ASP-1800

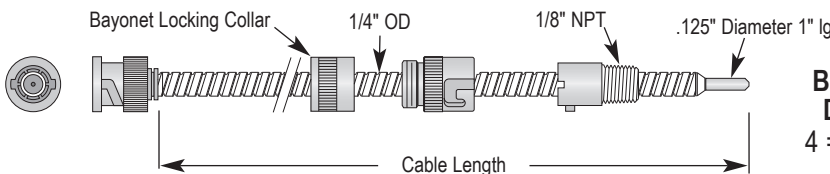


BODY DIA.	OHM 20K	CABLE LENGTH	PART NO.	PRICE
4 = 1/4"	20	36"	ASP-4-20-036	\$110.00
		48"	ASP-4-20-048	\$114.00
		60"	ASP-4-20-060	\$118.00
		72"	ASP-4-20-072	\$122.00
		96"	ASP-4-20-096	\$130.00
		120"	ASP-4-20-120	\$140.00
		144"	ASP-4-20-144	\$148.00

To make a 90° change in direction use
sensor guide insert SGI-8-1500-2

3 Armored Long Probe 1/4", 1/8" X 1" Long Tip (CAD: ALP-4-20-XXX)

SENSOR SELECTION: PC-1000
MFG. DWG. ALP-1200
ASP-1220
INSTALL. ASP-1800



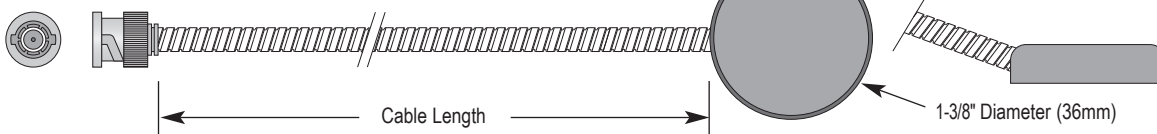
BODY DIA.	OHM 20K	CABLE LENGTH	PART NO.	PRICE
4 = 1/4"	20	36"	ALP-4-20-036	\$112.00
		48"	ALP-4-20-048	\$116.00
		60"	ALP-4-20-060	\$120.00
		72"	ALP-4-20-072	\$124.00
		96"	ALP-4-20-096	\$132.00
		120"	ALP-4-20-120	\$140.00
		144"	ALP-4-20-144	\$148.00

**NOTE: Do not use with
Sensor Guide Insert**

Magnetic Disc Sensor

4 Magnetic Disc Sensor

SENSOR SELECTION: PC-1000
MFG. DWG. MDS-1200

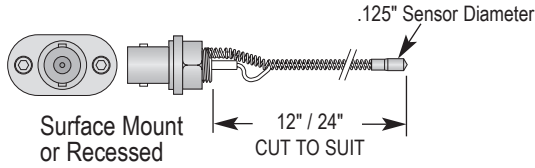


DIA (mm)	OHM 20K	CABLE LENGTH	PART NO.	PRICE
36	20	36"	MDS-36-20-36	\$128.00
		72"	MDS-36-20-72	\$134.00

Spring Bead Probes

5 Spring Bead Probe 1/8" (CAD: SBP-2-20-XX)

SENSOR SELECTION: PC-1000
MFG.DWG. SBP-1102
SBP-1202
INSTALL. SBP-1800

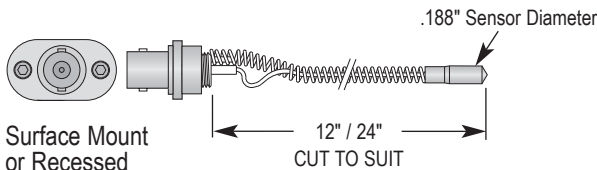


Use with type "ACC" Extension Cable

DIA.	OHM 20K	LENGTH	PART NO.	PRICE
2 = 1/8"	20	12"	SBP-2-20-12	\$ 94.00
	20	24"	SBP-2-20-24	\$ 98.00

6 Spring Bead Probe 3/16" (CAD: SBP-3-20-XX)

SENSOR SELECTION: PC-1000
MFG.DWG. SBP-1103
SBP-1203
INSTALL. SBP-1800

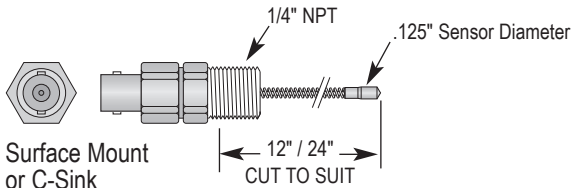


Use with type "ACC" Extension Cable

DIA.	OHM 20K	LENGTH	PART NO.	PRICE
3 = 3/16"	20	12"	SBP-3-20-12	\$ 96.00
	20	24"	SBP-3-20-24	\$ 98.00

7 Spring Tap Probe 1/8" - 1/4" NPT (CAD: STP-2-20-XX)

SENSOR SELECTION: PC-1000
MFG. DWG. STP-1202
INSTALL. STP-1800

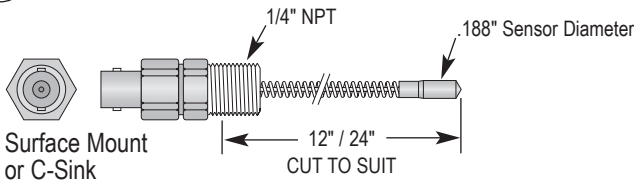


Use with type "ACC" Extension Cable

DIA.	OHM 20K	LENGTH	PART NO.	PRICE
2 = 1/8"	20	12"	STP-2-20-12	\$ 96.00
	20	24"	STP-2-20-24	\$ 98.00

8 Spring Tap Probe 3/16" - 1/4" NPT (CAD: STP-3-20-XX)

SENSOR SELECTION: PC-1000
MFG. DWG. STP-1203
INSTALL. STP-1800

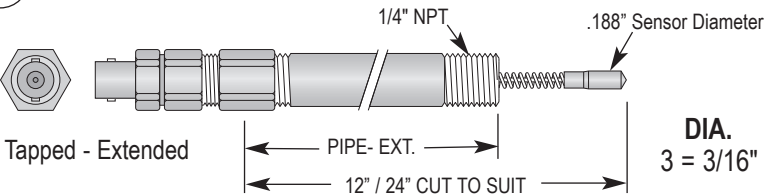


Use with type "ACC" Extension Cable

DIA.	OHM 20K	LENGTH	PART NO.	PRICE
3 = 3/16"	20	12"	STP-3-20-12	\$ 96.00
	20	24"	STP-3-20-24	\$ 98.00

9 Spring Pipe Probe 3/16" - 1/4" NPT (CAD: SPP-3-PX-20-XX)

SENSOR SELECTION: PC-1000
MFG. DWG. SPP-1200



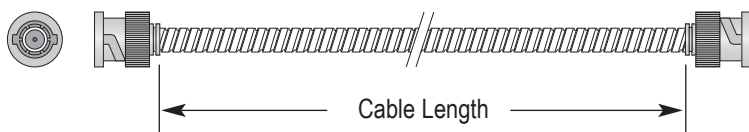
Use with type "ACC" Extension Cable

DIA.	PIPE EXT.	OHM 20K	LENGTH (XX)	PART NO.	PRICE
3 = 3/16"	P4 = 4"	20	12"	SPP-3-P4-20-XX	\$ 98.00
	P6 = 6"		24"	SPP-3-P6-20-XX	\$ 102.00
	P8 = 8"			SPP-3-P8-20-XX	\$ 104.00

Connection Cables

MFG. DWG. ACC-1200

10 Armored Connection Cable

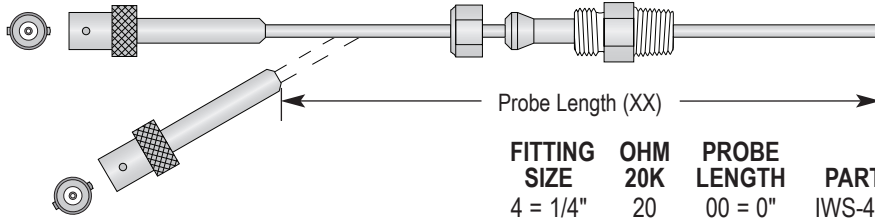


CABLE LENGTH	PART NO.	PRICE
12"	ACC-BB-012	\$ 70.00
24"	ACC-BB-024	\$ 75.00
36"	ACC-BB-036	\$ 80.00
48"	ACC-BB-048	\$ 85.00
60"	ACC-BB-060	\$ 90.00
96"	ACC-BB-096	\$ 105.00
120"	ACC-BB-120	\$ 115.00
144"	ACC-BB-144	\$ 125.00

Internal Wet Temperature Sensors

SENSOR SELECTION: PC-1000
MFG. DWG. IWS-1200
INSTALL. IWS-1800

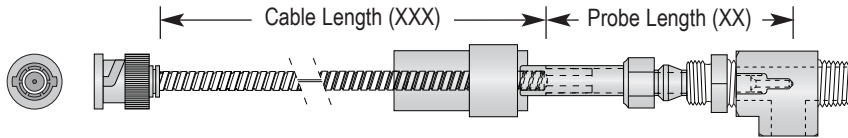
11 Internal Wet Probe - Straight Flow (CAD: IWS-X-20-XX)



FITTING SIZE	OHM 20K	PROBE LENGTH	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE
4 = 1/4"	20	00 = 0"	IWS-4-20-00 . . .	\$ 87.00	IWS-6-20-00 . . .	\$ 93.00
6 = 3/8"		03 = 3"	IWS-4-20-03 . . .	\$ 90.00	IWS-6-20-03 . . .	\$ 98.00
		06 = 6"	IWS-4-20-06 . . .	\$ 96.00	IWS-6-20-06 . . .	\$ 104.00
		09 = 9"	IWS-4-20-09 . . .	\$102.00	IWS-6-20-09 . . .	\$110.00
		12 = 12"	IWS-4-20-12 . . .	\$108.00	IWS-6-20-12 . . .	\$116.00

12 External Wet Long Probe (CAD: EWL-X-20-XXX)

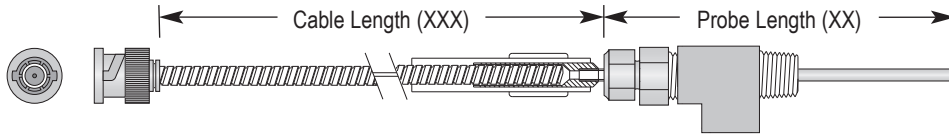
SENSOR SELECTION: PC-1000
MFG. DWG. EWL-1200
INSTALL. EWL-1800



FITTING SIZE	OHM 20K	PROBE LENGTH	CABLE LENGTH	PART NO.	**BASE PRICE
8 = 1/2"	20	04 = 4"	48"	EWL-8-20-04-048 . . .	\$152.00
			72"	EWL-8-20-04-072 . . .	\$163.00
			96"	EWL-8-20-04-096 . . .	\$174.00
			144"	EWL-8-20-04-144 . . .	\$197.00

13 Internal Wet Probe Assembly (CAD: IWA-8-20-06-XXX)

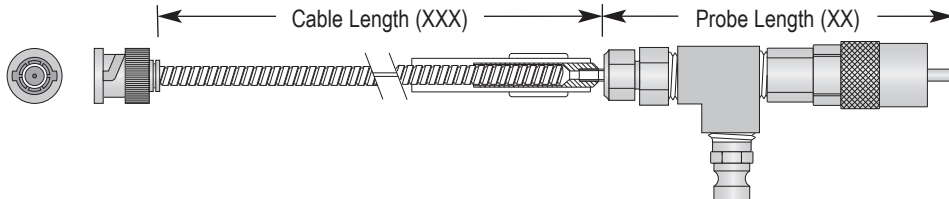
SENSOR SELECTION: PC-1000
MFG. DWG. IWA-1200
INSTALL. IWP-1820
IWP-1840



FITTING SIZE	OHM 20K	PROBE LENGTH	CABLE LENGTH	PART NO.	**BASE PRICE
8 = 1/2"	20	06 = 6"	48"	IWA-8-20-06-048 . . .	\$156.00
			72"	IWA-8-20-06-072 . . .	\$166.00
			96"	IWA-8-20-06-096 . . .	\$176.00
			144"	IWA-8-20-06-144 . . .	\$197.00

Internal Wet Probe Disconnectable (CAD: IWD-X-20-XX-XXX)

SENSOR SELECTION: PC-1000
MFG. DWG. IWD-1200
INSTALL. IWP-1820
IWP-1840



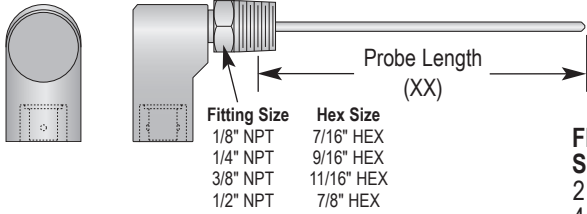
FITTING SIZE	OHM 20K	PROBE LENGTH	CABLE LENGTH	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE
4 = 1/4"	20	03 = 3"	48"	IWD-4-20-03-048 . . .	\$157.00	IWD-6-20-03-048 . . .	\$159.00	IWD-8-20-03-048 . . .	\$163.00
6 = 3/8"		06 = 6"	72"	IWD-4-20-03-072 . . .	\$167.00	IWD-6-20-03-072 . . .	\$169.00	IWD-8-20-03-072 . . .	\$173.00
8 = 1/2"		09 = 9"	144"	IWD-4-20-03-144 . . .	\$198.00	IWD-6-20-03-144 . . .	\$200.00	IWD-8-20-03-144 . . .	\$204.00
				IWD-4-20-06-048 . . .	\$163.00	IWD-6-20-06-048 . . .	\$165.00	IWD-8-20-06-048 . . .	\$169.00
				IWD-4-20-06-072 . . .	\$173.00	IWD-6-20-06-072 . . .	\$175.00	IWD-8-20-06-072 . . .	\$179.00
				IWD-4-20-06-144 . . .	\$204.00	IWD-6-20-06-144 . . .	\$206.00	IWD-8-20-06-144 . . .	\$210.00
				IWD-4-20-09-048 . . .	\$169.00	IWD-6-20-09-048 . . .	\$171.00	IWD-8-20-09-048 . . .	\$175.00
				IWD-4-20-09-072 . . .	\$179.00	IWD-6-20-09-072 . . .	\$181.00	IWD-8-20-09-072 . . .	\$185.00
				IWD-4-20-09-144 . . .	\$210.00	IWD-6-20-09-144 . . .	\$212.00	IWD-8-20-09-144 . . .	\$216.00

CITO-FP-PRICE-23-0822

Internal Wet Temperature Sensors

MFG. DWG. IWP-1200
 INSTALL. IWP-1800
 IWP-1820
 IWP-1840

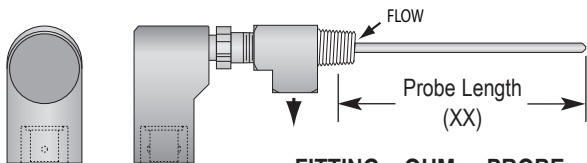
14 Internal Wet Probe (CAD: IWP-X-20-XX)



FITTING SIZE (X)	OHM 20K	PROBE LENGTH	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE
2 = 1/8"	20	03 = 3"	IWP-2-20-03	\$108.00	IWP-6-20-03	\$112.00
4 = 1/4"		04 = 4"	IWP-2-20-04	\$110.00	IWP-6-20-04	\$114.00
6 = 3/8"		06 = 6"	IWP-2-20-06	\$114.00	IWP-6-20-06	\$118.00
8 = 1/2"		09 = 9"	IWP-2-20-09	\$120.00	IWP-6-20-09	\$124.00
			IWP-4-20-03	\$110.00	IWP-8-20-03	\$114.00
			IWP-4-20-04	\$112.00	IWP-8-20-04	\$116.00
			IWP-4-20-06	\$116.00	IWP-8-20-06	\$120.00
			IWP-4-20-09	\$122.00	IWP-8-20-09	\$126.00

15 Internal Wet Probe - 90 Degree Ports (CAD: IW9-X-20-XX)

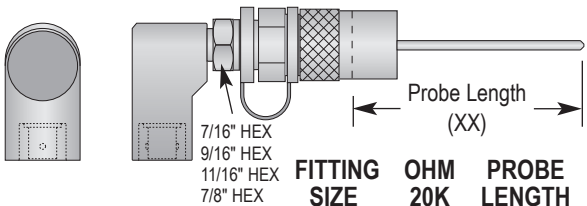
MFG. DWG. IW9-1200
 INSTALL. IW9-1800
 IW9-1820
 IW9-1840



FITTING SIZE	OHM 20K	PROBE LENGTH	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE
4 = 1/4"	20	00 = 0"	IW9-4-20-00	\$114.00	IW9-6-20-00	\$118.00	IW9-8-20-00	\$120.00
6 = 3/8"		03 = 3"	IW9-4-20-03	\$114.00	IW9-6-20-03	\$118.00	IW9-8-20-03	\$120.00
8 = 1/2"		04 = 4"	IW9-4-20-04	\$116.00	IW9-6-20-04	\$120.00	IW9-8-20-04	\$122.00
		06 = 6"	IW9-4-20-06	\$120.00	IW9-6-20-06	\$124.00	IW9-8-20-06	\$126.00
		09 = 9"	IW9-4-20-09	\$136.00	IW9-6-20-09	\$130.00	IW9-8-20-09	\$132.00

16 Internal Wet Probe - Removable (CAD: IWR-X-20-XX)

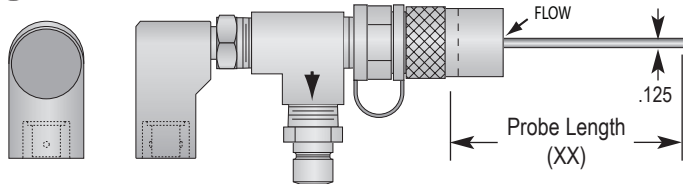
MFG. DWG. IWR-1200
 INSTALL. IWR-1800
 IWR-1820
 IWR-1840



FITTING SIZE	OHM 20K	PROBE LENGTH	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE
4 = 1/4"	20	00 = 0"	IWR-4-20-00	\$113.00	IWR-6-20-00	\$117.00	IWR-8-20-00	\$119.00
6 = 3/8"		03 = 3"	IWR-4-20-03	\$113.00	IWR-6-20-03	\$117.00	IWR-8-20-03	\$119.00
8 = 1/2"		04 = 4"	IWR-4-20-04	\$115.00	IWR-6-20-04	\$119.00	IWR-8-20-04	\$121.00
		06 = 6"	IWR-4-20-06	\$120.00	IWR-6-20-06	\$124.00	IWR-8-20-06	\$126.00
		09 = 9"	IWR-4-20-09	\$127.00	IWR-6-20-09	\$131.00	IWR-8-20-09	\$133.00
		12 = 12"	IWR-4-20-12	\$132.00	IWR-6-20-12	\$136.00	IWR-8-20-12	\$138.00

17 Internal Wet Probe - Quick Change (CAD: IWQ-X-20-XX)

MFG. DWG. IWQ-1200
 INSTALL. IWQ-1800
 IWQ-1820
 IWQ-1840



FITTING SIZE	OHM 20K	PROBE LENGTH	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE	PART NO.	**BASE PRICE
4 = 1/4"	20	00 = 0"	IWQ-4-20-00	\$120.00	IWQ-6-20-00	\$128.00	IWQ-8-20-00	\$131.00
6 = 3/8"		03 = 3"	IWQ-4-20-03	\$120.00	IWQ-6-20-03	\$128.00	IWQ-8-20-03	\$131.00
8 = 1/2"		04 = 4"	IWQ-4-20-04	\$122.00	IWQ-6-20-04	\$130.00	IWQ-8-20-04	\$133.00
		06 = 6"	IWQ-4-20-06	\$124.00	IWQ-6-20-06	\$132.00	IWQ-8-20-06	\$135.00
		09 = 9"	IWQ-4-20-09	\$133.00	IWQ-6-20-09	\$141.00	IWQ-8-20-09	\$144.00
		12 = 12"	IWQ-4-20-12	\$140.00	IWQ-6-20-12	\$148.00	IWQ-8-20-12	\$151.00

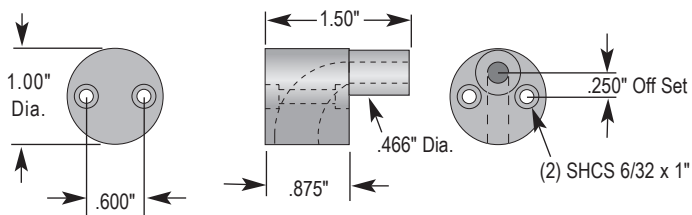
CITO-FP-PRICE-23-0510

Sensor Guides

18 Sensor Guide Insert 3/16" Instructions - see MM-1710/1770 (used with Spring Bead Probes only)

MFG.DWG. PC-1860

For CAD see: SG-Sensor-Guide.step

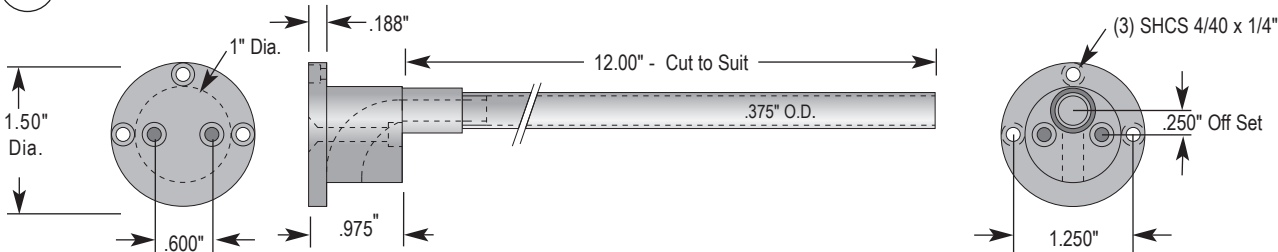


PART NO. SGI-6-875-1.5

PRICE \$ 34.00

19 Sensor Guide Tube 3/16" Installation instructions - see MM-1710/1770 (used with Spring Bead Probes only)

MFG.DWG. PC-1862

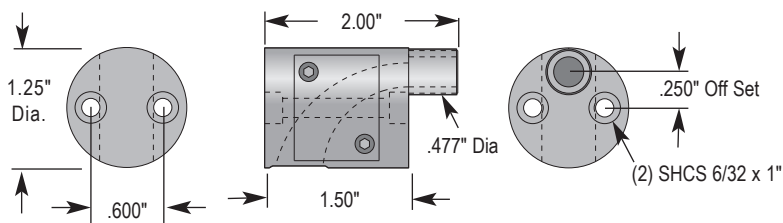


PART NO. SGT-6-875-12

PRICE \$ 47.00

20 Sensor Guide Insert 1/4" Installation instructions - see MM-1780 (used with Armored Spring Probe)

MFG.DWG. PC-1966

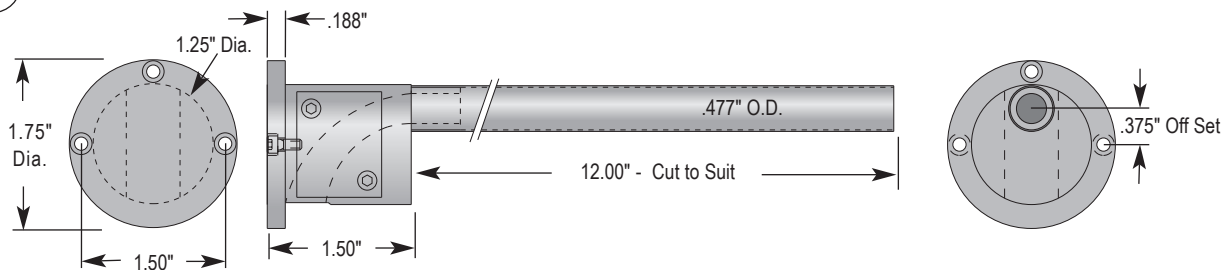


PART NO. SGI-8-1500-2

PRICE \$ 42.00

21 Sensor Guide Tube 1/4" Installation instructions - see MM-1780 (used with Armored Spring Probes only)

MFG.DWG. PC-1968

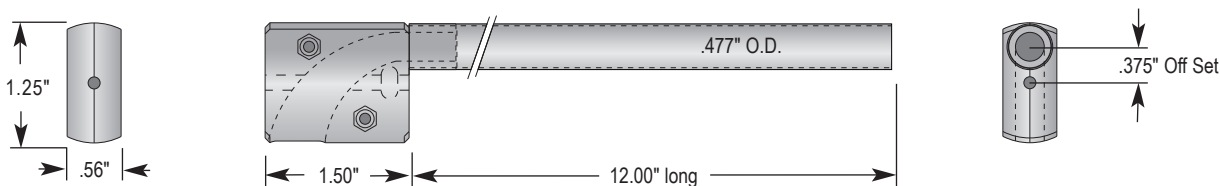


PART NO. SGT-8-1500-12

PRICE \$ 49.00

22 Sensor Guide (Flat) Tube 1/4" Installation instructions - see MM-1790 (used with Armored Spring Bead Probes)

MFG.DWG. PC-1862



PART NO. SGF-8-1500-12

PRICE \$ 51.00

Inline™ Manifolds Ordering Information

Mold Mounted Manifolds provide many benefits to the operation and performance of the water cooled process. Our manifolds offer a myriad of combinations to suit your needs.

STANDARD MANIFOLDS

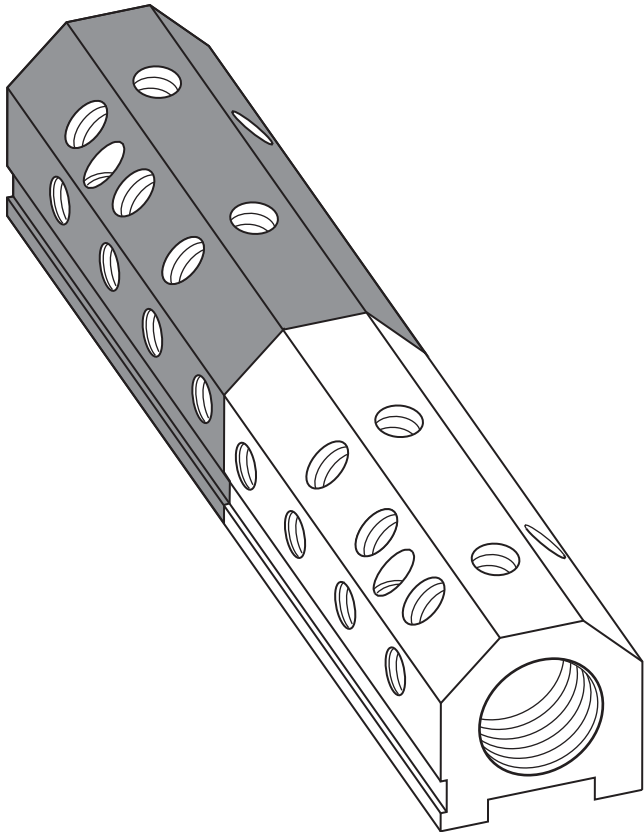
1. Choose your manifold from the following pages.
2. Stock Manifolds will ship same day or by the next business day.

WHEN ORDERING CUSTOM MANIFOLDS

1. Submit design or sketch.
2. Cito will make CAD drawing and submit via fax with price quote and delivery information.
3. Upon approval of drawing, the manifold will be shipped the following week.

TO ORDER YOUR DESIGN KIT FOR INLINE MANIFOLDS

Our Design Kit will assist in your mold or machine mounted design of Inline™ Manifolds — complete with CAD Patterns, and custom order forms.



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N8779 County Road X • P.O. Box 90

Watertown, WI 53094 • USA

Phone: (920) 261-2606

Fax: (920) 261-1350

E-mail: sales@pulsecooling.com

ATTENTION: SALES DEPARTMENT

Please specify which CAD system you are using when requesting your Design Kit.

The Design Kit is available in:

.PRT (CadKey)

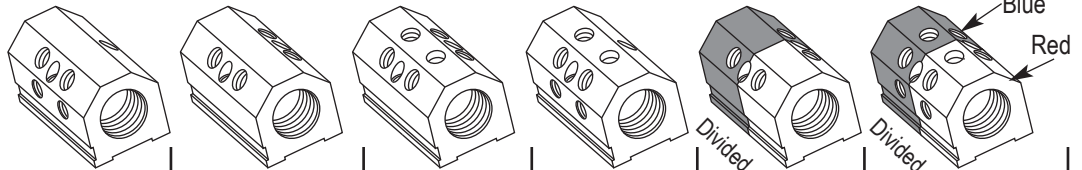
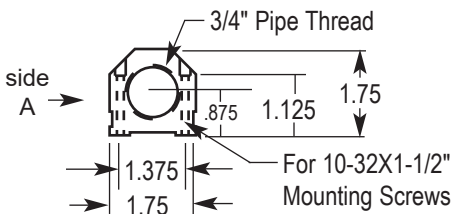
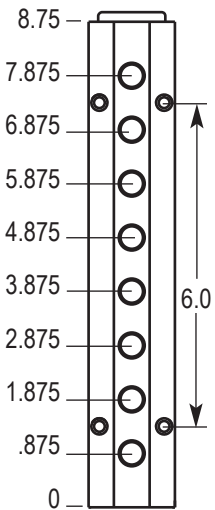
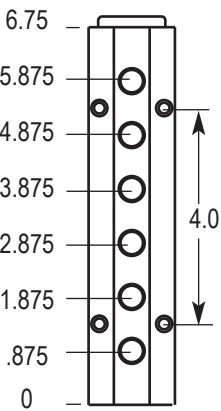
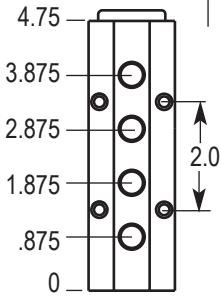
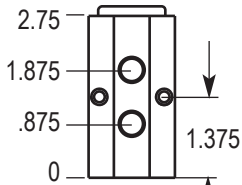
.DWG (AutoCad)

.DXF (Data Exchange Format)

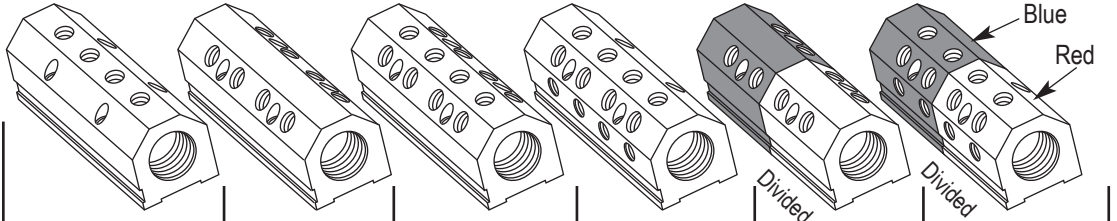
.IGES (International Graphic Exchange)

The anodized aluminum is not suitable for corrosive liquids (high chlorine content).
Brass, steel and stainless is available. Request quote.

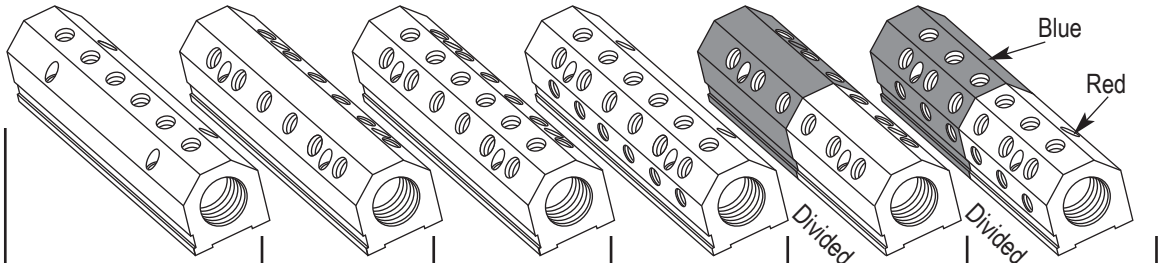
3/4" Inline™ Manifold - 1 = 1/4"



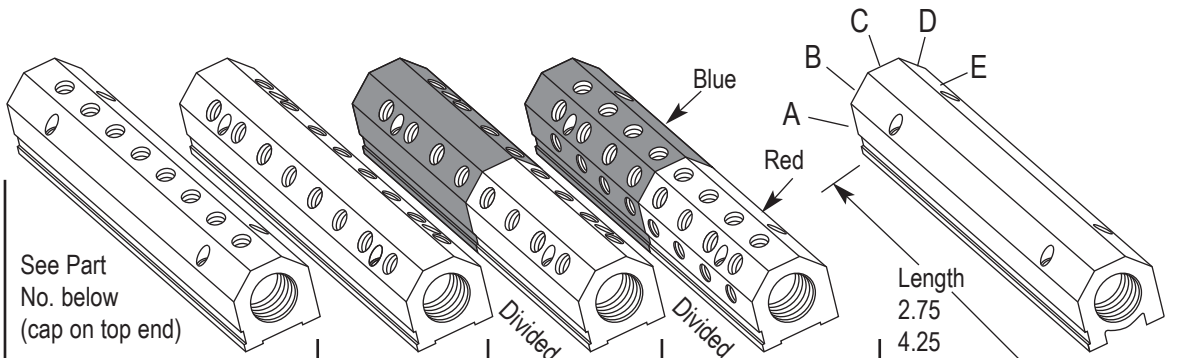
IM3-2-AB-4 1/8 or 1/4 \$60.00
 IM3-2-BD-4 1/8 or 1/4 \$60.00
 IM3-2-BCD-6 1/8 or 1/4 \$66.00
 IM3-2-ABC-6 1/8 or 1/4 \$66.00
 IM3-2-BD-2-2 1/8 or 1/4 \$74.00
 IM3-2-ABCDE-5-5 1/8 \$92.00



IM3-4-C-4 1/8 or 1/4 \$72.00
 IM3-4-BD-8 1/8 or 1/4 \$84.00
 IM3-4-BCD-12 1/8 or 1/4 \$84.00
 IM3-4-ABC-12 1/8 or 1/4 \$96.00
 IM3-4-BD-4-4 1/8 or 1/4 \$98.00
 IM3-4-ABC-6-6 1/8 or 1/4 \$110.00



IM3-6-C-6 1/8 or 1/4 \$90.00
 IM3-6-BD-12 1/8 or 1/4 \$108.00
 IM3-6-BCD-18 1/8 or 1/4 \$126.00
 IM3-6-ABC-18 1/8 or 1/4 \$126.00
 IM3-6-BD-6-6 1/8 or 1/4 \$122.00
 IM3-6-ABC-9-9 1/8 or 1/4 \$140.00



See Part No. below (cap on top end)

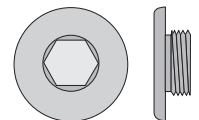
IM3-8-C-8 1/8 or 1/4 \$108.00
 IM3-8-BD-16 1/8 or 1/4 \$132.00
 IM3-8-BD-8-8 1/8 or 1/4 \$146.00
 IM3-8-ABC-12-12 1/8 \$170.00

PART NUMBER CODE:

IM3-8-C-8-1/4-N-BLUE

Red, Blue or Divided
 Thread Type: N=NPT
 1/4" "Out"
 8 Holes
 Row on side "C"
 8 = 8.750" Overall Length
 (3) x 1/4" = 3/4" Port
 Inline Manifold

3/4" NPT

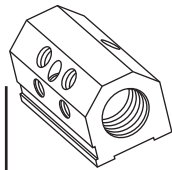
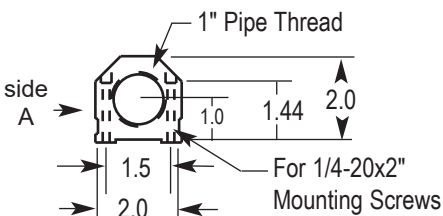
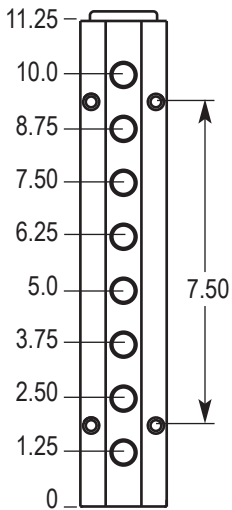
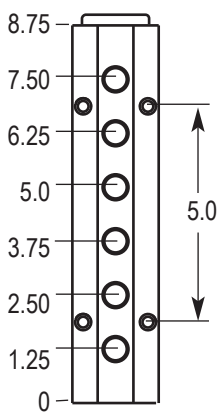
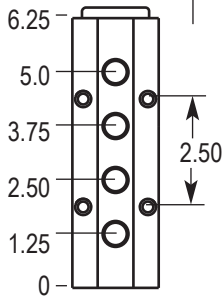
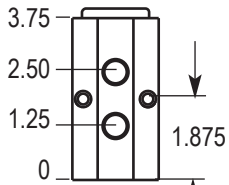


For Solid Color Manifolds
PRICES INCLUDE: End Cap and Stainless mounting screws.
 ADDITIONAL 3/4" MANIFOLD END CAPS: IM-3030 - \$10.00 ea.
CUSTOM MANIFOLDS QUOTED UPON REQUEST

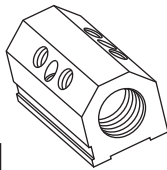
The anodized aluminum is not suitable for corrosive liquids (high chlorine content)

CITO-FP-PRICE-24-0124

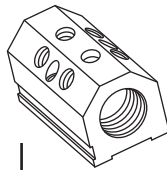
1" Inline™ Manifold - 1 = 1/4"



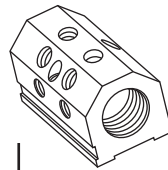
IM4-4-AB-4
1/4 or 3/8
\$72.00



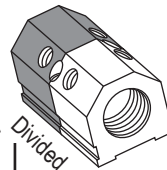
IM4-4-BD-4
1/4 or 3/8
\$72.00



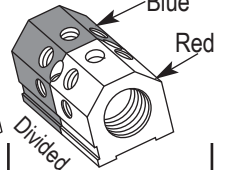
IM4-4-BCD-6
1/4 or 3/8
\$78.00



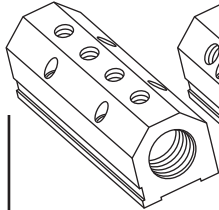
IM4-4-ABC-6
1/4 or 3/8
\$78.00



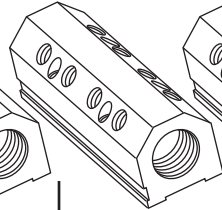
IM4-4-BD-2-2
1/4 or 3/8
\$90.00



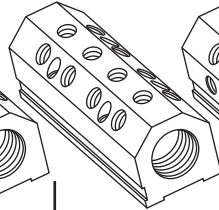
IM4-4-ABCDE-5-5
1/4
\$108.00



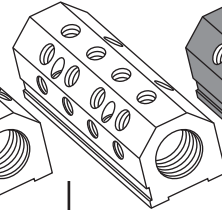
IM4-6-C-4
1/4 or 3/8
\$93.00



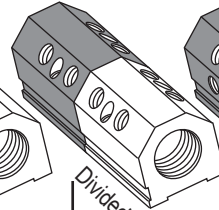
IM4-6-BD-8
1/4 or 3/8
\$105.00



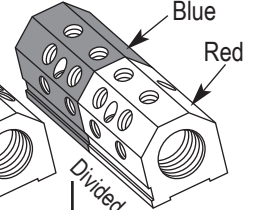
IM4-6-BCD-12
1/4 or 3/8
\$117.00



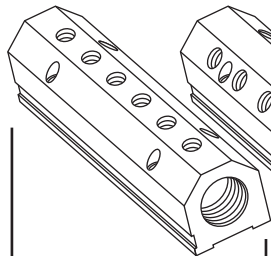
IM4-6-ABC-12
1/4 or 3/8
\$117.00



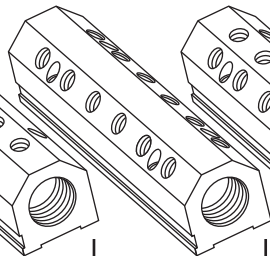
IM4-6-BD-4-4
1/4 or 3/8
\$123.00



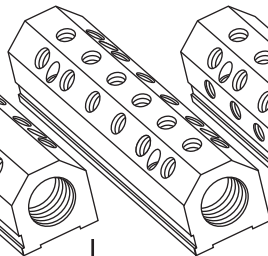
IM4-6-ABC-6-6
1/4 or 3/8
\$135.00



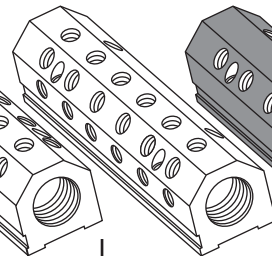
IM4-9-C-6
1/4 or 3/8
\$113.00



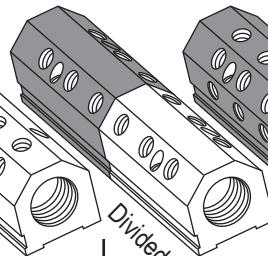
IM4-9-BD-12
1/4 or 3/8
\$131.00



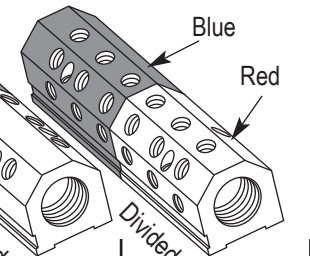
IM4-9-BCD-18
1/4 or 3/8
\$149.00



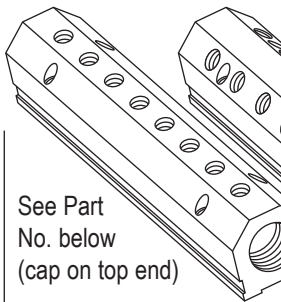
IM4-9-ABC-18
1/4 or 3/8
\$149.00



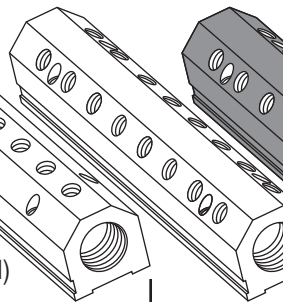
IM4-9-BD-6-6
1/4 or 3/8
\$149.00



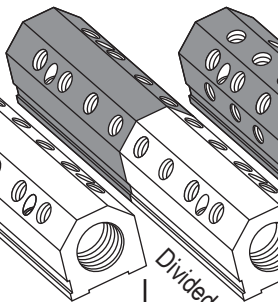
IM4-9-ABC-9-9
1/4 or 3/8
\$167.00



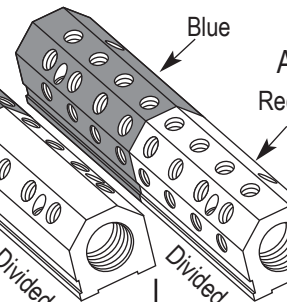
IM4-11-C-8
1/4 or 3/8
\$140.00



IM4-11-BD-16
1/4 or 3/8
\$164.00



IM4-11-BD-8-8
1/4 or 3/8
\$182.00



IM4-11-ABC-12-12
1/4 or 3/8
\$206.00

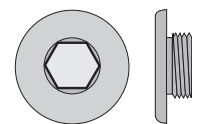
See Part No. below (cap on top end)

PART NUMBER CODE:

IM4-11-C-8-3/8-N-BLUE

Red, Blue or Divided
Thread Type: N=NPT
P=Mark BSPP
T=Mark BSPT
8 Holes
Row on side "C"
11 = 11.25" Overall Length
(4) x 1/4" = 1" Port
Inline Manifold

1" NPT



For Solid Color Manifolds
PRICES INCLUDE: End Cap and Stainless mounting screws.
ADDITIONAL 1" MANIFOLD END CAPS: IM-3040 - \$12.00 ea.
CUSTOM MANIFOLDS QUOTED UPON REQUEST

CITO-FP-PRICE-22-0812

The anodized aluminum is not suitable for corrosive liquids (high chlorine content)

1-1/4" Inline™ Manifold - 1 = 1/4"

Technical drawings on the left show manifold profiles with dimensions: 2.25, 3.0, 1.5, 0, 7.5, 6.0, 4.5, 3.0, 1.5, 0, 10.5, 9.0, 7.5, 6.0, 4.5, 3.0, 1.5, 0, 13.5, 12.0, 10.5, 9.0, 7.5, 6.0, 4.5, 3.0, 1.5, 0, and 9.0.

IM5-5-AB-4 1/4 or 3/8 \$92.00	IM5-5-BD-4 1/4 or 3/8 \$92.00	IM5-5-BCD-6 1/4 or 3/8 \$100.00	IM5-5-ABC-6 1/4 or 3/8 \$100.00	IM5-5-BD-2-2 1/4 or 3/8 \$110.00	IM5-5-ABCDE-5-5 1/4 or 3/8 \$134.00
IM5-8-C-4 1/4 or 3/8 \$116.00	IM5-8-BD-8 1/4 or 3/8 \$132.00	IM5-8-BCD-12 1/4 or 3/8 \$148.00	IM5-8-ABC-12 1/4 or 3/8 \$148.00	IM5-8-BD-4-4 1/4 or 3/8 \$150.00	IM5-8-ABC-6-6 1/4 or 3/8 \$166.00
IM5-11-C-6 1/4 or 3/8 \$148.00	IM5-11-BD-12 1/4 or 3/8 \$172.00	IM5-11-BCD-18 1/4 or 3/8 \$196.00	IM5-11-ABC-18 1/4 or 3/8 \$196.00	IM5-11-BD-6-6 1/4 or 3/8 \$190.00	IM5-11-ABC-9-9 1/4 or 3/8 \$214.00
IM5-14-C-8 1/4 or 3/8 \$180.00	IM5-14-BD-16 1/4 or 3/8 \$212.00	IM5-14-BD-8-8 1/4 or 3/8 \$230.00	IM5-14-ABC-12-12 1/4 or 3/8 \$262.00	See Part No. below (cap on top end)	

PART NUMBER CODE:
IM5-14-C-8-3/8-N-BLUE

- IM5 - In-line Manifold
- 14 - 14 = 13.5" Overall Length
- C - Row on side "C"
- 8 - 8 Holes
- 3/8" - 3/8" "Out"
- N - Thread Type: N=NPT
- BLUE - Red, Blue or Divided
- (5) x 1/4" = 1-1/4" Port

1-1/4" NPT

Red, Blue or Divided
 Thread Type: N=NPT
 P=Mark BSPP
 T=Mark BSPT

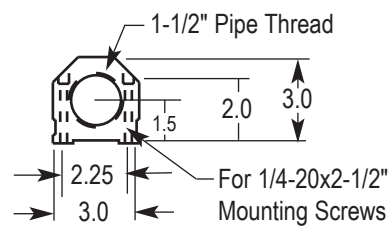
For Solid Color Manifolds
PRICES INCLUDE: End Cap and Stainless mounting screws.
 ADDITIONAL 1-1/4" MANIFOLD END CAPS: IM-3050 - \$14.00 ea.
CUSTOM MANIFOLDS QUOTED UPON REQUEST

CITO-FP-PRICE-24-0213

The anodized aluminum is not suitable for corrosive liquids (high chlorine content)

1-1/2" Inline™ Manifold - 1 = 1/4"

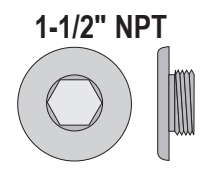
IM6-6-AB-4 3/8 or 1/2 \$106.00	IM6-6-BD-4 3/8 or 1/2 \$106.00	IM6-6-BCD-6 3/8 or 1/2 \$116.00	IM6-6-ABC-6 3/8 or 1/2 \$116.00	IM6-6-BD-2-2 3/8 or 1/2 \$126.00	IM6-6-ABCDE-5-5 3/8 or 1/2 \$156.00
IM6-10-C-4 3/8 or 1/2 \$142.00	IM6-10-BD-8 3/8 or 1/2 \$162.00	IM6-10-BCD-12 3/8 or 1/2 \$182.00	IM6-10-ABC-12 3/8 or 1/2 \$182.00	IM6-10-BD-4-4 3/8 or 1/2 \$182.00	IM6-10-ABC-6-6 3/8 or 1/2 \$202.00
IM6-14-C-6 3/8 or 1/2 \$188.00	IM6-14-BD-12 3/8 or 1/2 \$218.00	IM6-14-BCD-18 3/8 or 1/2 \$248.00	IM6-14-ABC-18 3/8 or 1/2 \$248.00	IM6-14-BD-6-6 3/8 or 1/2 \$238.00	IM6-14-ABC-9-9 3/8 or 1/2 \$268.00
IM6-18-C-8 3/8 or 1/2 \$234.00	IM6-18-BD-16 3/8 or 1/2 \$274.00	IM6-18-BD-8-8 3/8 or 1/2 \$294.00	IM6-18-ABC-12-12 3/8 or 1/2 \$334.00	See Part No. below (cap on top end)	



PART NUMBER CODE:
IM6-18-C-8-3/8-N-BLUE

Red, Blue or Divided
 Thread Type: N=NPT
 P=Mark BSPP
 T=Mark BSPT

3/8" "Out"
 8 Holes
 Row on side "C"
 18 = 18" Overall Length
 (6) x 1/4" = 1-1/2" Port
 Inline Manifold



1-1/2" NPT

For Solid Color Manifolds
PRICES INCLUDE: End Cap and
 Stainless mounting screws.
**ADDITIONAL 1-1/2" MANIFOLD END
 CAPS:** IM-3060 - \$16.00 ea.
**CUSTOM MANIFOLDS
 QUOTED UPON REQUEST**

The anodized aluminum is not suitable for corrosive liquids (high chlorine content)

CITO-FP-PRICE-22-0812

2" Inline™ Manifold - 1 = 1/4"

IM8-8-ACE-6
1/2, 3/4 or 1
\$154.00

IM8-8-ABCDE-10
1/2 or 3/4
\$178.00

IM8-12-C-4
1/2, 3/4 or 1
\$182.00

IM8-12-BD-8
1/2, 3/4 or 1
\$206.00

IM8-12-ABC-12
1/2 or 3/4
\$230.00

IM8-12-ABC-6-6
1/2 or 3/4
\$256.00

IM8-17-C-6
1/2, 3/4 or 1
\$244.00

IM8-17-BD-12
1/2, 3/4 or 1
\$280.00

IM8-17-ABC-18
1/2 or 3/4
\$316.00

IM8-17-BD-6-6
1/2, 3/4 or 1
\$306.00

IM8-17-ABC-9-9
1/2 or 3/4
\$342.00

IM8-22-C-8
1/2, 3/4 or 1
\$306.00

IM8-22-BD-16
1/2, 3/4 or 1
\$354.00

IM8-22-BD-8-8
1/2, 3/4 or 1
\$380.00

IM8-22-ABC-12-12
1/2 or 3/4
\$428.00

PART NUMBER CODE:
IM8-22-C-6-1/2-N-BLUE

- Red, Blue or Divided
- Thread Type: N=NPT
- P=Mark BSPP
- T=Mark BSPT
- 1/2" "Out"
- 6 Holes
- Row on side "C"
- 22 = 22" Overall Length
- (8) x 1/4" = 2" Port

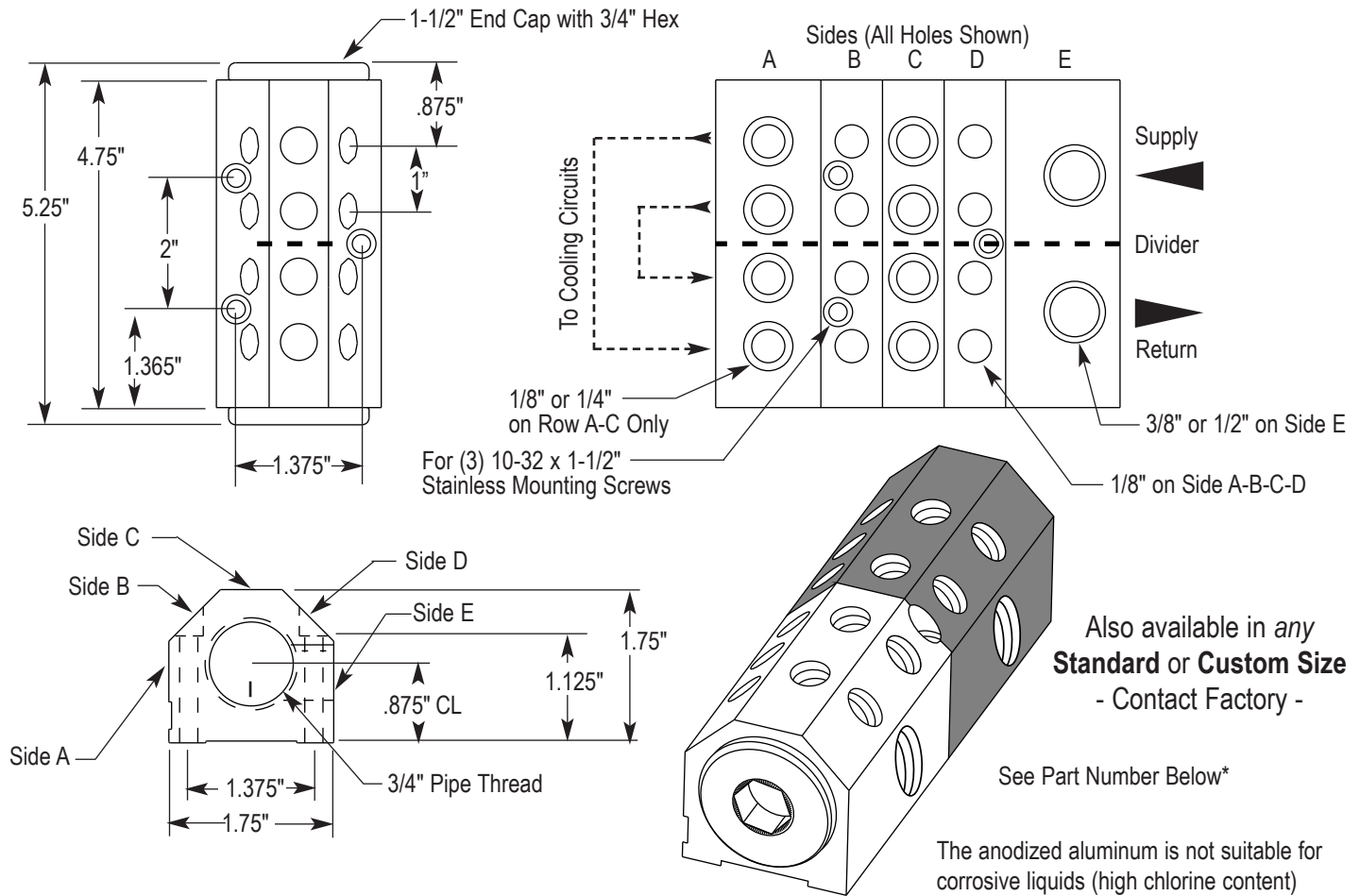
2" NPT

For Solid Color Manifolds
PRICES INCLUDE: End Cap and Stainless mounting screws.
ADDITIONAL 2" MANIFOLD END CAPS: IM-3080 - \$18.00 ea.
CUSTOM MANIFOLDS QUOTED UPON REQUEST

CITO-FP-PRICE-22-0812

The anodized aluminum is not suitable for corrosive liquids (high chlorine content)

3/4" x 5" Sideline™ Manifold - 1 = 1/4"

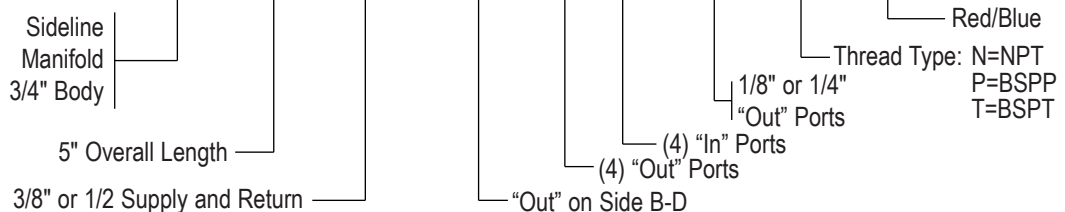


Outgoing Ports					Part Number	Price
Side A In/Out	Side B In/Out	Side C In/Out	Side D In/Out	Side E - Return In/Out		
	(2) (2) 1/8"-1/8"				IM3S-5-3/8-B-2-2-1/8-N-R/B	\$112.00
(2) (2) 1/8"-1/8"	(2) (2) 1/8"-1/8"				IM3S-5-3/8-AB-4-4-1/8-N-R/B	\$124.00
	(2) (2) 1/8"-1/8"		(2) (2) 1/8"-1/8"		*IM3S-5-3/8-BD-4-4-1/8-N-R/B	\$124.00
	(2) (2) 1/8"-1/8"	(2) (2) 1/8"-1/8"	(2) (2) 1/8"-1/8"		IM3S-5-3/8-BCD-6-6-1/8-N-R/B	\$136.00
(2) (2) 1/8"-1/8"	(2) (2) 1/8"-1/8"	(2) (2) 1/8"-1/8"	(2) (2) 1/8"-1/8"		IM3S-5-3/8-ABCD-8-8-1/8-N-R/B	\$148.00
	(2) (2) 1/4"-1/4"				IM3S-5-1/2-B-2-2-1/4-N-R/B	\$112.00
	(2) (2) 1/4"-1/4"		(2) (2) 1/4"-1/4"		IM3S-5-1/2-BD-4-4-1/4-N-R/B	\$124.00

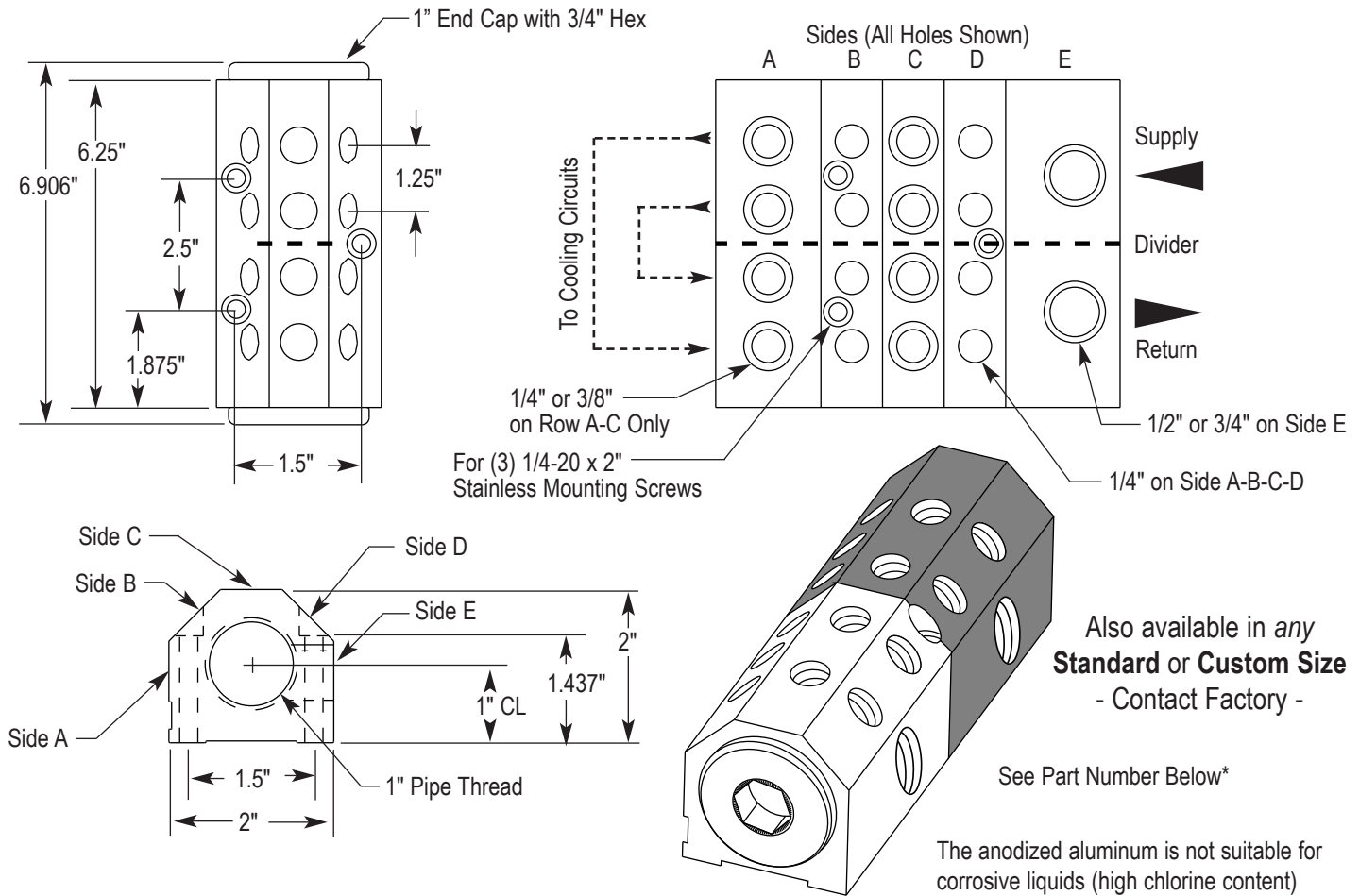
PRICE INCLUDES: End Caps and (3) 10-32 x 1-1/2" ST. ST. Mtg. Screws. ADDITIONAL 3/4" End Caps \$8.00 ea.

*Part Number Code:

IM3S-5-3/8-BD-4-4-1/8-N-R/B



1" x 7" Sideline™ Manifold - 1 = 1/4"

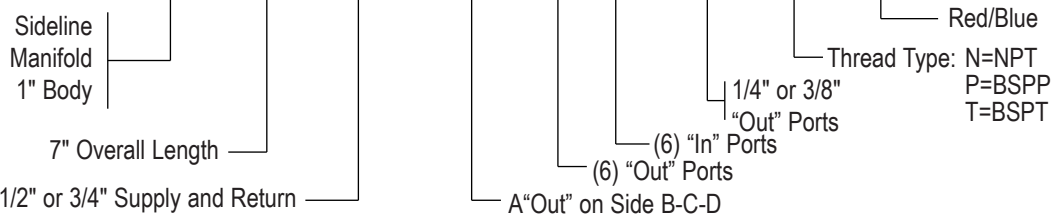


Outgoing Ports					Part Number	Price
Side A In/Out	Side B In/Out	Side C In/Out	Side D In/Out	Side E - Return In/Out		
	(2) (2) 1/4"-1/4"			1/2"-1/2"	IM4S-7-1/2-B-2-2-1/4-N-R/B	\$137.00
(2) (2) 1/4"-1/4"	(2) (2) 1/4"-1/4"			1/2"-1/2"	IM4S-7-1/2-AB-4-4-1/4-N-R/B	\$149.00
	(2) (2) 1/4"-1/4"		(2) (2) 1/4"-1/4"	1/2"-1/2"	IM4S-7-1/2-BD-4-4-1/4-N-R/B	\$149.00
	(2) (2) 1/4"-1/4"	(2) (2) 1/4"-1/4"	(2) (2) 1/4"-1/4"	1/2"-1/2"	*IM4S-7-1/2-BCD-6-6-1/4-N-R/B	\$161.00
(2) (2) 1/4"-1/4"	(2) (2) 1/4"-1/4"	(2) (2) 1/4"-1/4"	(2) (73) 1/4"-1/4"	1/2"-1/2"	IM4S-7-1/2-ABCD-8-8-1/4-N-R/B	\$173.00
	(2) (2) 3/8"-3/8"			3/4"-3/4"	IM4S-7-3/4-B-2-2-3/8-N-R/B	\$137.00
	(2) (2) 3/8"-3/8"		(2) (2) 3/8"-3/8"	3/4"-3/4"	IM4S-7-3/4-BD-4-4-3/8-N-R/B	\$149.00

PRICE INCLUDES: End Caps and (3) 1/4-20x2" ST. ST. Mtg. Screws. ADDITIONAL 1" End Caps \$10.00 ea.

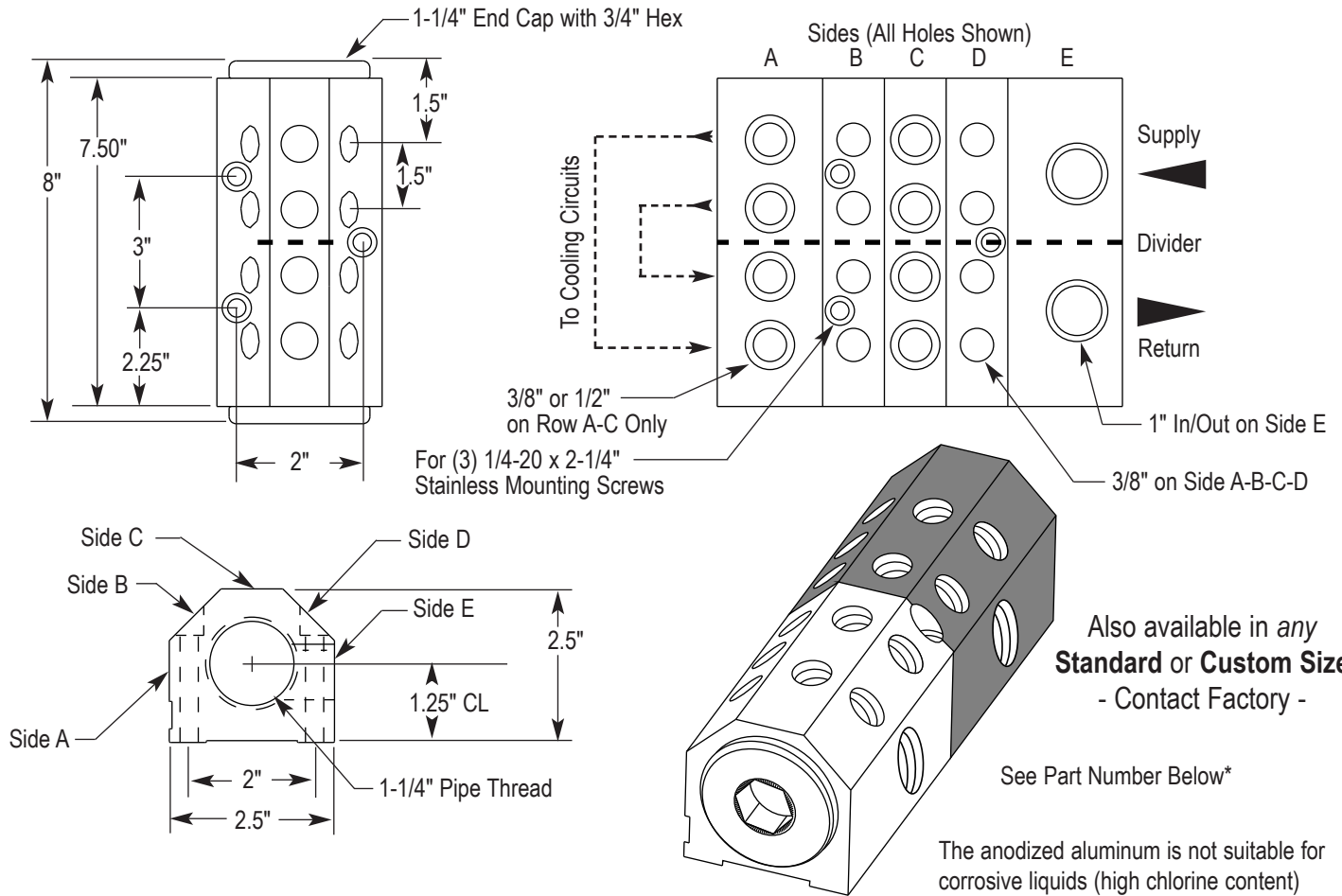
*Part Number Code:

IM4S-7-1/2-BCD-6-6-1/4-N-R/B



CITO-FP-PRICE-22-0812

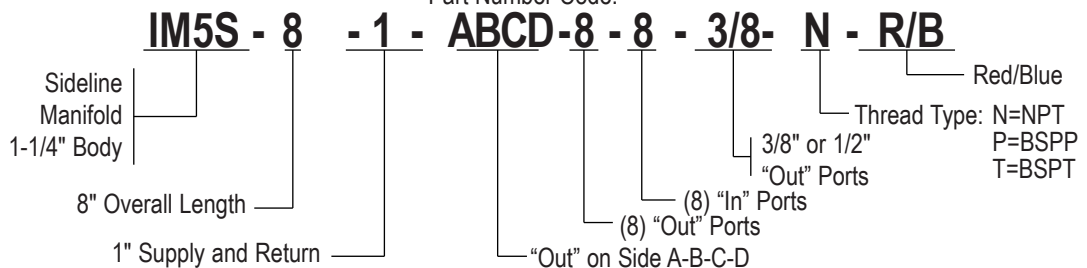
1-1/4" x 8" Sideline™ Manifold - 1 = 1/4"



Outgoing Ports					Part Number	Price
Side A In/Out	Side B In/Out	Side C In/Out	Side D In/Out	Side E - Return In/Out		
	(2) (2) 3/8"-3/8"			1"-1"	IM5S-8-1-B-2-2-3/8-N-R/B	\$166.00
(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"			1"-1"	IM5S-8-1-AB-4-4-3/8-N-R/B	\$182.00
	(2) (2) 3/8"-3/8"		(2) (2) 3/8"-3/8"	1"-1"	IM5S-8-1-BD-4-4-3/8-N-R/B	\$182.00
	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	1"-1"	IM5S-8-1-ABC-6-6-3/8-N-R/B	\$198.00
(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	1"-1"	*IM5S-8-1-ABCD-8-8-3/8-N-R/B	\$214.00
	(2) (2) 1/2"-1/2"			1"-1"	IM5S-8-1-B-2-2-1/2-N-R/B	\$166.00
	(2) (2) 1/2"-1/2"		(2) (2) 1/2"-1/2"	1"-1"	IM5S-8-1-BD-4-4-1/2-N-R/B	\$182.00

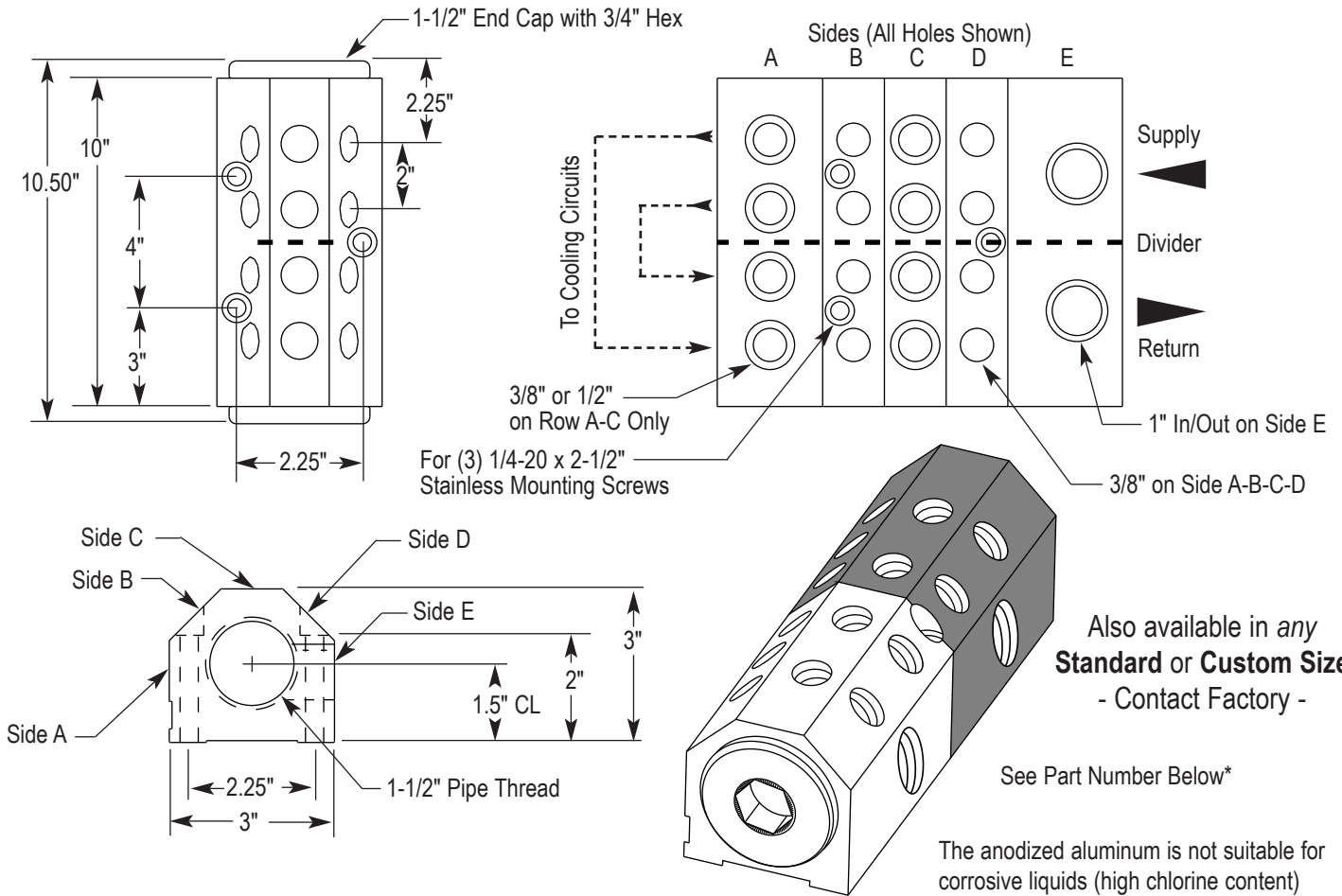
PRICE INCLUDES: End Caps and (3) 1/4-20 x 2-1/4" ST. ST. Mtg. Screws. ADDITIONAL 1-1/4" End Caps \$12.00 ea.

*Part Number Code:



CITO-FP-PRICE-21-0812

1-1/2" x 10" Sideline™ Manifold - 1 = 1/4"

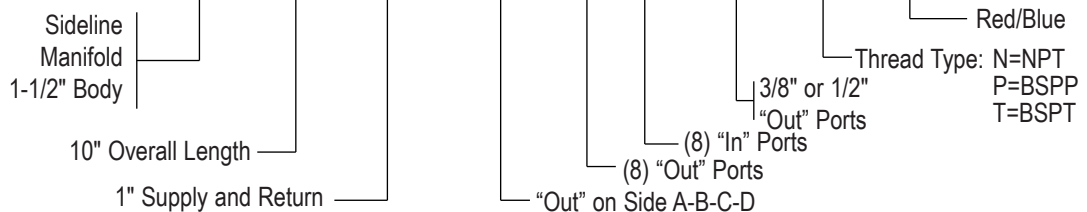


Outgoing Ports					Part Number	Price
Side A In/Out	Side B In/Out	Side C In/Out	Side D In/Out	Side E - Return In/Out		
	(2) (2) 3/8"-3/8"			1"-1"	IM6S-10-1-B-2-2-3/8-N-R/B	\$200.00
(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"			1"-1"	IM6S-10-1-AB-4-4-3/8-N-R/B	\$220.00
	(2) (2) 3/8"-3/8"		(2) (2) 3/8"-3/8"	1"-1"	IM6S-10-1-BD-4-4-3/8-N-R/B	\$240.00
	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	1"-1"	IM6S-10-1-ABC-6-6-3/8-N-R/B	\$240.00
(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	(2) (2) 3/8"-3/8"	1"-1"	*IM6S-10-1-ABCD-8-8-3/8-N-R/B	\$260.00
	(2) (2) 1/2"-1/2"			1"-1"	IM6S-10-1-B-2-2-1/2-N-R/B	\$200.00
	(2) (2) 1/2"-1/2"		(2) (2) 1/2"-1/2"	1"-1"	IM6S-10-1-BD-4-4-1/2-N-R/B	\$220.00

PRICE INCLUDES: End Caps and (3) 1/4-20 x 2-1/2" ST. ST. Mtg. Screws. ADDITIONAL 1-1/2" End Caps \$14.00 ea.

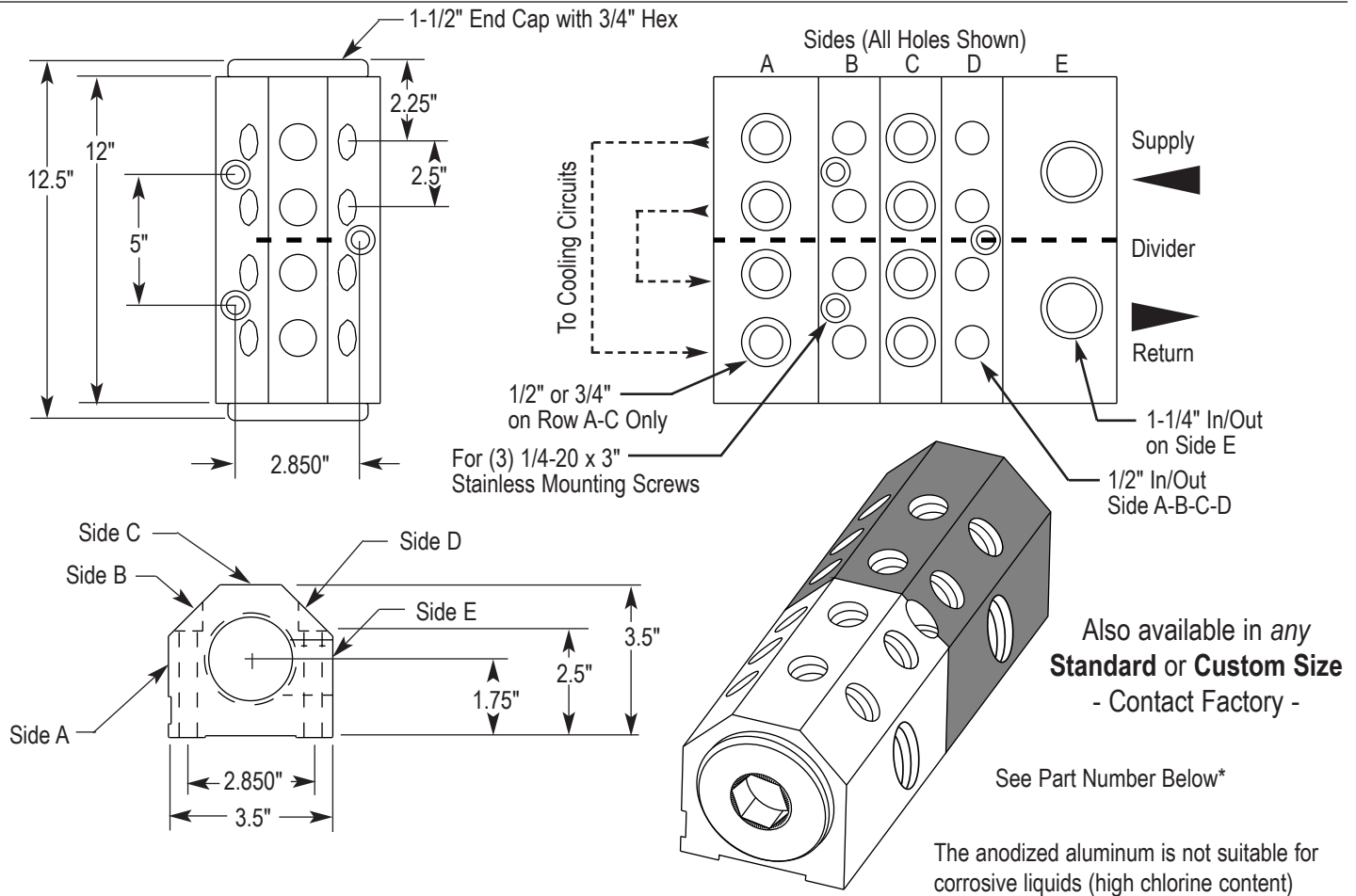
*Part Number Code:

IM6S - 10 - 1 - ABCD - 8 - 8 - 3/8 - N - R/B



CITO-FP-PRICE-22-0812

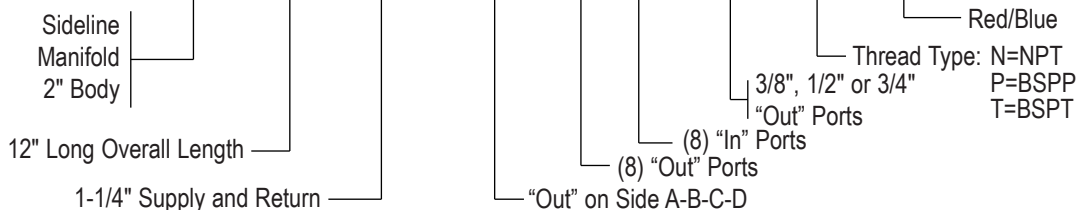
2" x 12" Sideline™ Manifold - 1 = 1/4"



Outgoing Ports					Part Number	Price
Side A In/Out	Side B In/Out	Side C In/Out	Side D In/Out	Side E - Return In/Out		
	(2) (2) 1/2"-1/2"			1-1/4"-1-1/4"	IM8S-12-1-1/4-B-2-2-1/2-N-R/B	\$252.00
(2) (2) 1/2"-1/2"	(2) (2) 1/2"-1/2"			1-1/4"-1-1/4"	IM8S-12-1-1/4-AB-4-4-1/2-N-R/B	\$276.00
	(2) (2) 1/2"-1/2"		(2) (2) 1/2"-1/2"	1-1/4"-1-1/4"	IM8S-12-1-1/4-BD-4-4-1/2-N-R/B	\$276.00
	(2) (2) 1/2"-1/2"	(2) (2) 1/2"-1/2"	(2) (2) 1/2"-1/2"	1-1/4"-1-1/4"	IM8S-12-1-1/4-BCD-6-6-1/2-N-R/B	\$300.00
(2) (2) 1/2"-1/2"	(2) (2) 1/2"-1/2"	(2) (2) 1/2"-1/2"	(2) (2) 1/2"-1/2"	1-1/4"-1-1/4"	*IM8S-12-1-1/4-ABCD-8-8-1/2-N-R/B	\$324.00
	(2) (2) 3/4"-3/4"			1-1/4"-1-1/4"	IM8S-12-1-1/4-B-2-2-3/4-N-R/B	\$252.00
	(2) (2) 3/4"-3/4"		(2) (2) 3/4"-3/4"	1-1/4"-1-1/4"	IM8S-12-1-1/4-BD-4-4-3/4-N-R/B	\$276.00

PRICE INCLUDES: End Caps and 1/4 - 20 x 3" ST. ST. Mtg. Screws. ADDITIONAL 2" End Caps \$16.00 ea.

*Part Number Code: **IM8S-12-1-1/4-ABCD-8-8-3/8-N-R/B**



CITO-FP-PRICE-22-0812

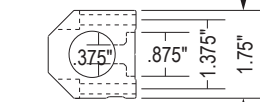
BottomLine™ Custom Mold Mounted Manifold

Submit your requirements for pricing and delivery

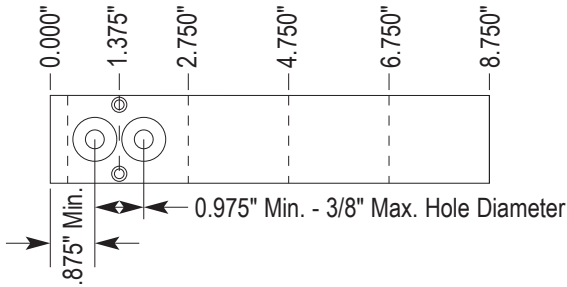
CITO PRODUCTS INC.
ATTENTION: SALES DEPARTMENT

CITO will submit drawing and assign part number to your models

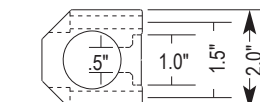
3/4" IB3



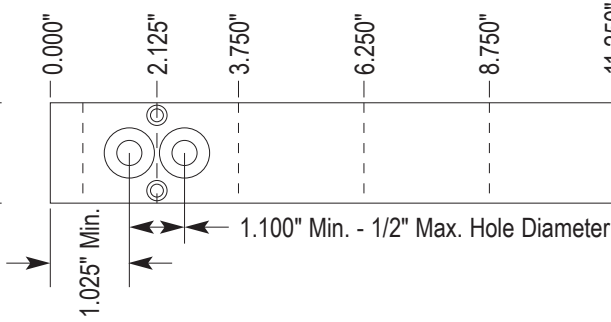
3/8" Hole Diameter
310 "O" Ring
ORDER # IB3-XXXX-XX



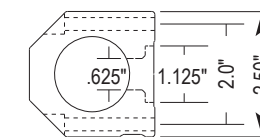
1" IB4



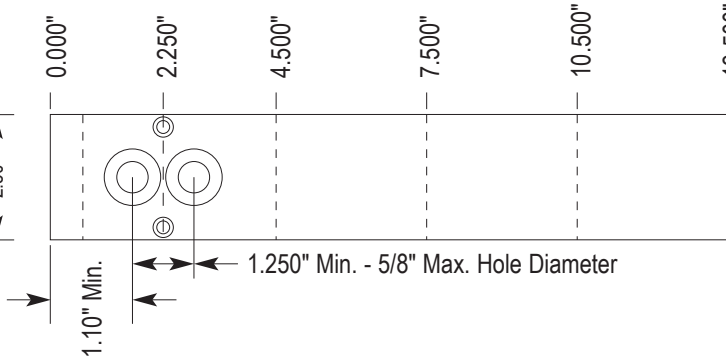
1/2" Hole Diameter
312 "O" Ring
ORDER # IB4-XXXX-XX



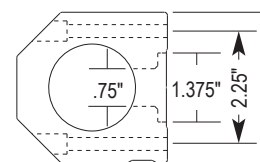
1-1/4" IB5



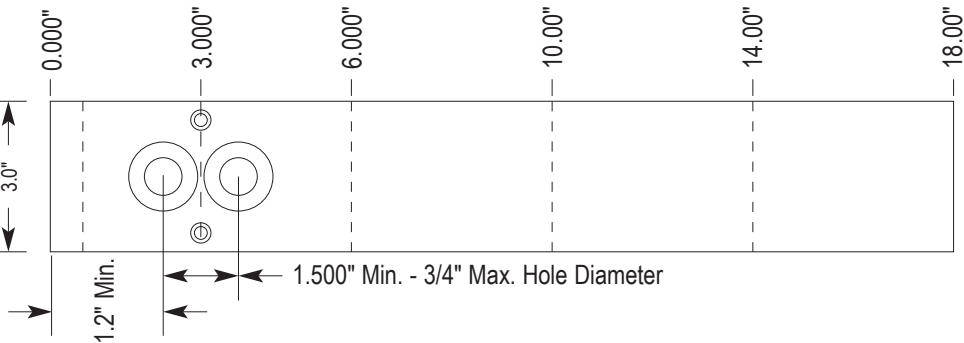
5/8" Hole Diameter
314 "O" Ring
ORDER # IB5-XXXX-XX



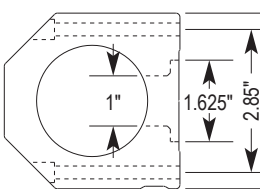
1-1/2" IB6



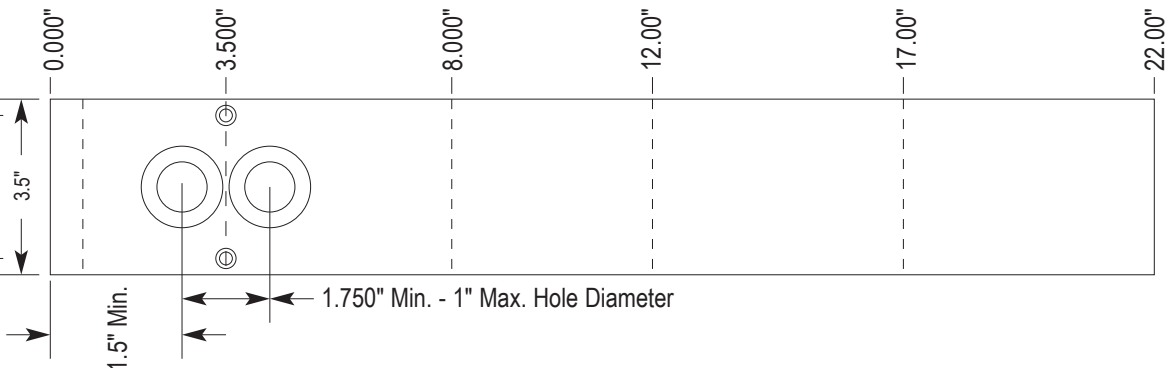
3/4" Hole Diameter
318 "O" Ring
ORDER # IB6-XXXX-XX



2" IB8



1" Hole Diameter
322 "O" Ring
ORDER # IB8-XXXX-XX

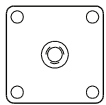


IB4-02NB-01

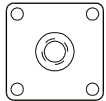
InLine	Zones	Serial
	3 = 3/4"	R - Red
	4 = 1"	B - Blue
	5 = 1-1/4"	
	6 = 1-1/2"	
	8 = 2"	
Bottomline		N = National Pipe Taper (USA)
		P = Parallel Pipe
		T = Tapered Pipe

CITO-FP-PRICE-23-1120

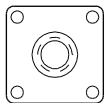
RotoLine™ Flow Indicating Manifold



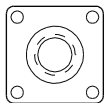
(1) 1/8" EC-2011



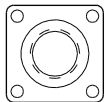
(1) 1/4" EC-2021



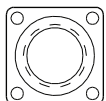
(1) 3/8" EC-2031



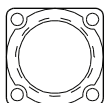
(1) 1/2" EC-2041



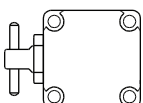
(1) 3/4" EC-2061



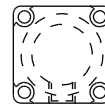
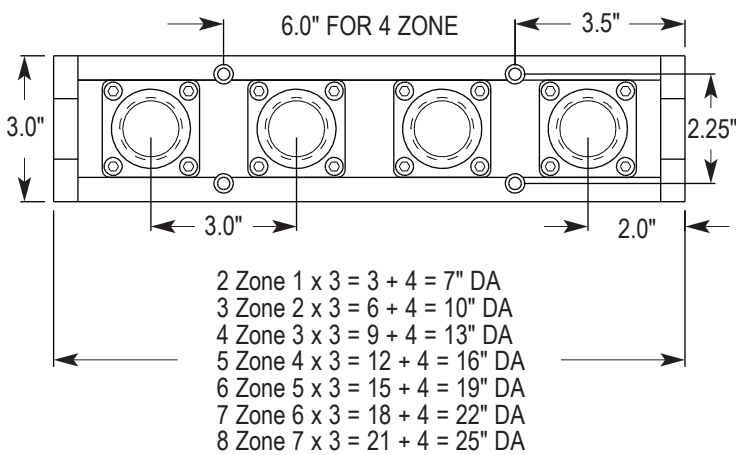
(1) 1" EC-2081



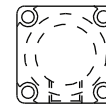
(1) 1-1/4" EC-2101



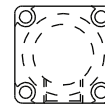
Valve Cap
1/4" - VC-2902
3/8" - VC-2903
1/2" - VC-2904



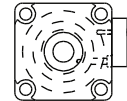
1/4" Side EC-220S



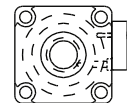
3/8" Side EC-230S



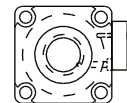
1/2" Side EC-240S



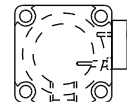
1/4" End EC-22TE-TCK



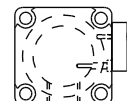
3/8" End EC-23TE-TCK



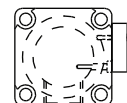
1/2" End EC-24TE-TCK



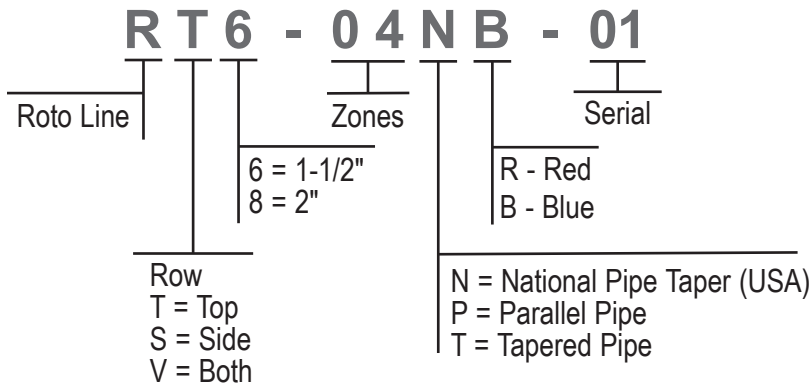
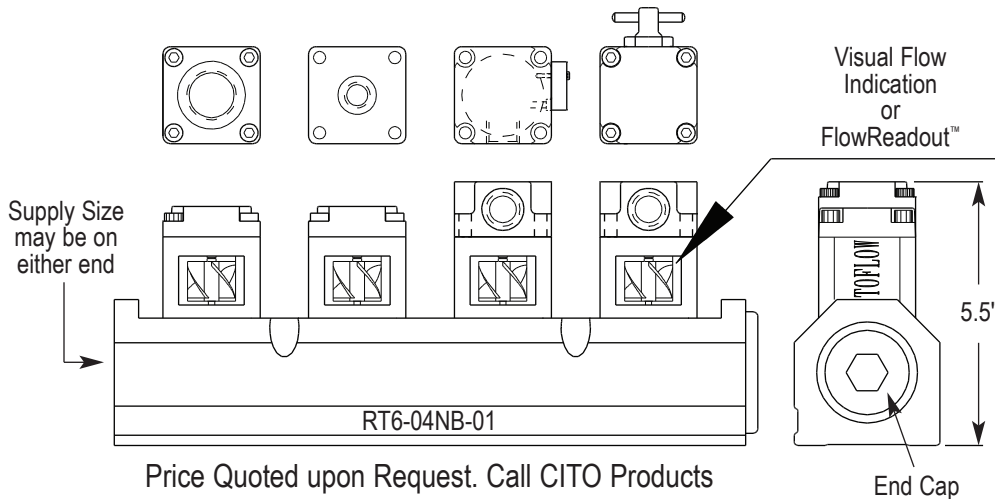
1/4" End EC-22TS-TCK



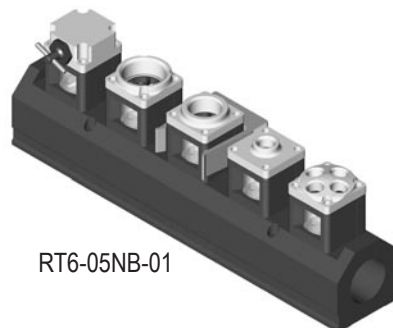
3/8" Side EC-23TS-TCK



1/2" Side EC-24TS-TCK

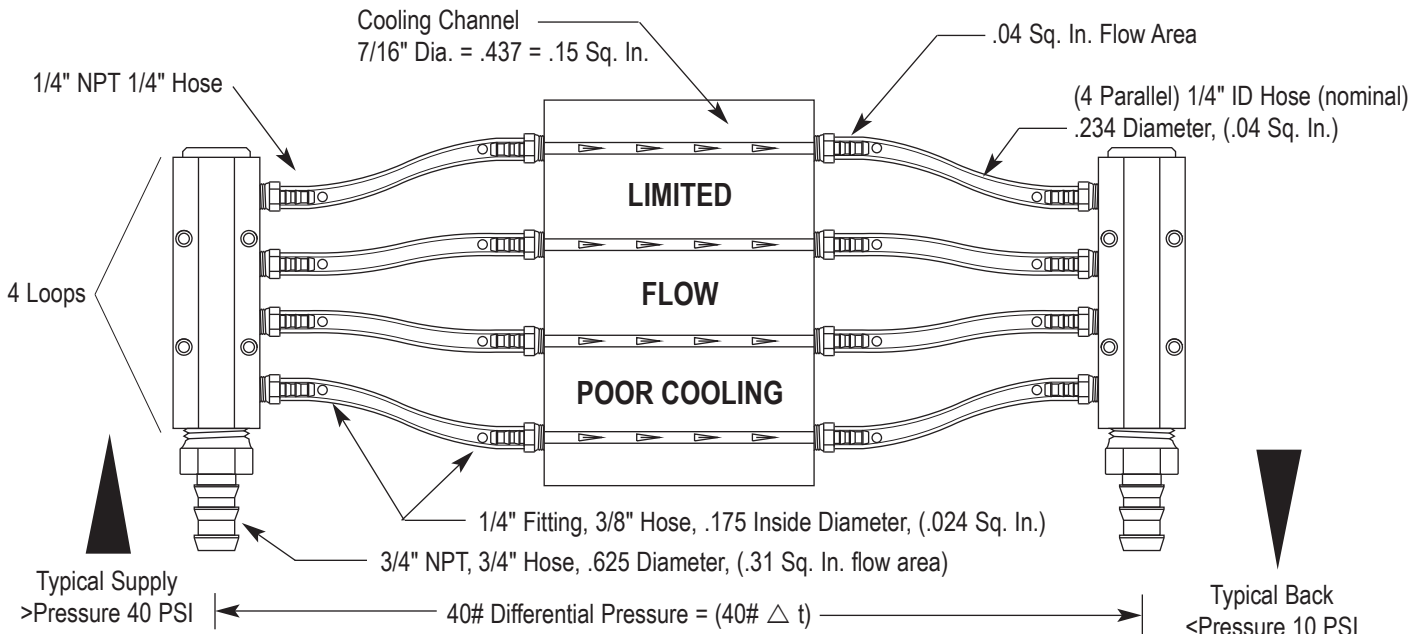


CITO PRODUCTS
WILL ASSIGN MODEL NUMBER TO EACH CUSTOM ASSEMBLY



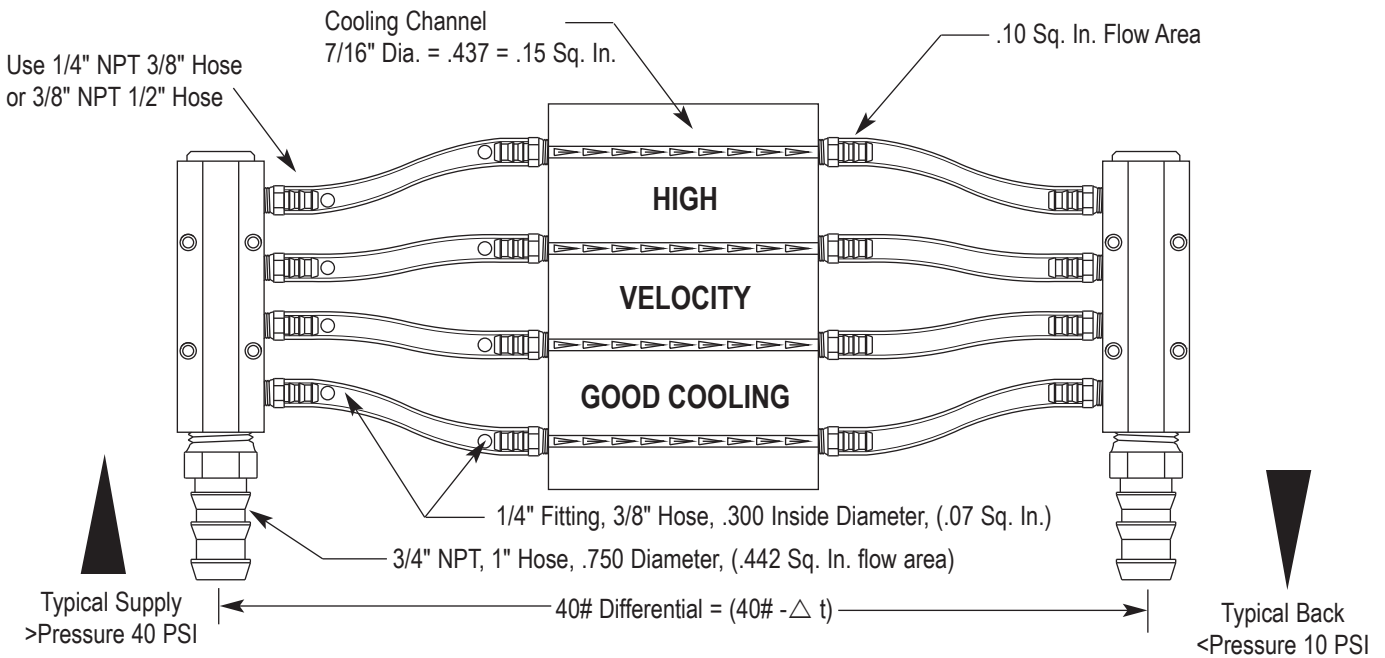
CITO-FP-PRICE-22-1004

Flow Restrictions



Supply line must be larger than total of all cooling circuits
(As shown: Supply .31 Sq. In.,
Loop Fittings 4 x .024 Sq. In. = .096 Sq. In.)

HIGH PERFORMANCE COOLING USE OF FULL FLOW FITTINGS

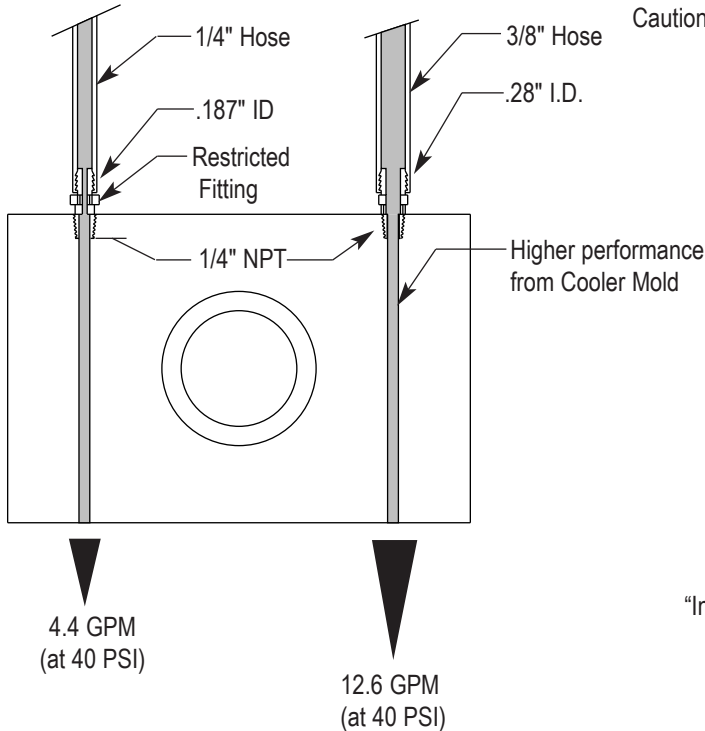


Supply line must be larger than total of all cooling circuits
(As shown: Supply .442 Sq. In.,
Fittings 4 x .07Sq. In. = .28 Sq. In.)

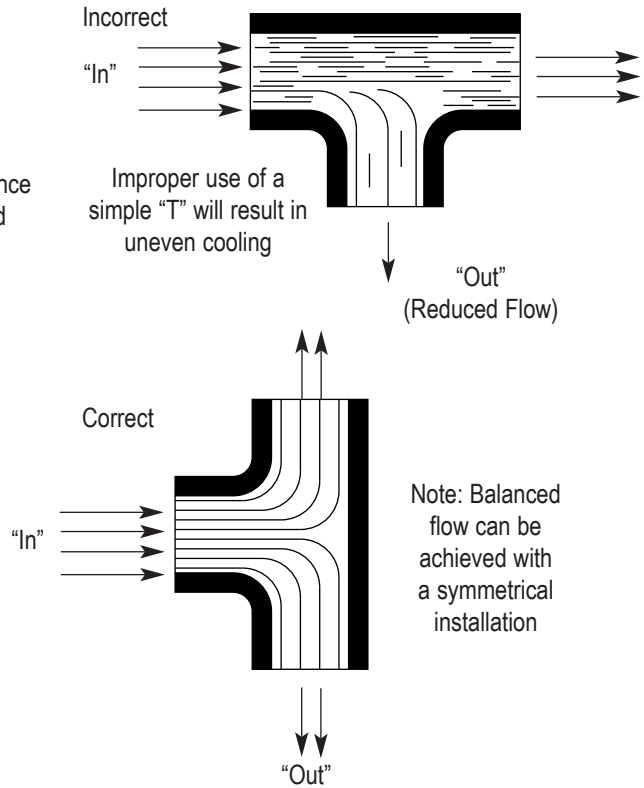
CITO-FP-PRICE-23-1120

Flow Considerations

Flow Restriction (or Unbalanced) Hook Ups Will Increase Cycle Time



Caution: Unbalanced flow will result from change in flow direction.



200% More Flow Area with High Flow Fittings

A mold will always be limited by its least cooled cavity. Coolant supply area should always be more than total mold ports area to avoid starving the mold of pressure and flow. Pressure difference across the mold should be no less than 40 P.S.I.

Avoid kinked hoses and any other restrictions.

Hose I.O.	Fitting Orifice Size	Area Square Inch	Supply area should exceed total of outlets (area square inch)						
			2 Ports	4 Ports	6 Ports	8 Ports	10 Ports	12 Ports	16 Ports
1/4"	.19"	.03	.06"	.12	.18	.24	.30	.36	.48
3/8"	.28"	.06	.12"	.24	.36	.48	.60	.72	.96
1/2"	.40"	.12	.24"	.48	.72	.96	1.20	1.44	1.92
3/4"	.56"	.25	.50"	1.0	1.50	2.00	2.50	3.00	4.00
1"	.87"	.59							
1-1/4"	1.0"	.78							
1-1/2"	1.25"	1.23							
2"	1.88"	2.7							

Example:
Supply 1" .59 sq. inch
3/8" waterlines = .06 square inches
.56 divided by .06 = up to 9 waterlines

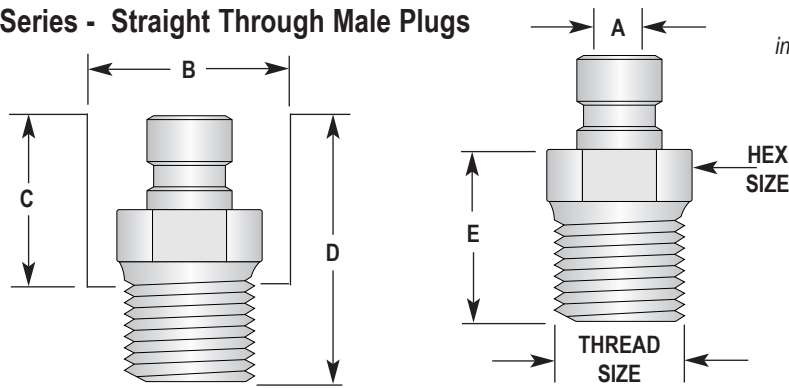
Note: supply .48 sq. in. exceeds total hold cooling channel area

A typical mold with 8 (3/8) cooling circuits can be supplied with a 1" manifold.

CITO-FP-PRICE-20-1023

"C" Series Plugs - 1 = 1/16"

"C" Series - Straight Through Male Plugs

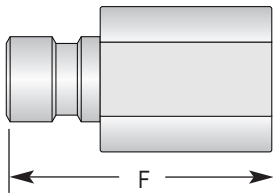


High quality brass connector
interchangeable with Parker Moldmate
DME, OBAC Mold Tite, etc.

USE WITH BODY SIZE	NOMINAL BODY SIZE	THREAD SIZE	HEX SIZE	"A"	"B"	"C" F	"D"	"E"	PART NO.	PRICE
.704"	1/4"	1/8" - 27	7/16"	.240	.844	.70	.94	.52	CMP-04-02	... \$.85
.704"	1/4"	1/4" - 18	9/16"	.240	.844	.85	1.13	.70	CMP-04-04	... \$.86
.950"	3/8"	1/4" - 18	9/16"	.364	1.00	1.00	1.34	.70	CMP-06-04	... \$.99
.950"	3/8"	3/8" - 18	11/16"	.364	1.00	1.14	1.38	.73	CMP-06-06	... \$ 1.82
1.200"	1/2"	1/2" - 14	7/8"	.592	1.25	1.50	1.69	.90	CMP-08-08	... \$ 2.75

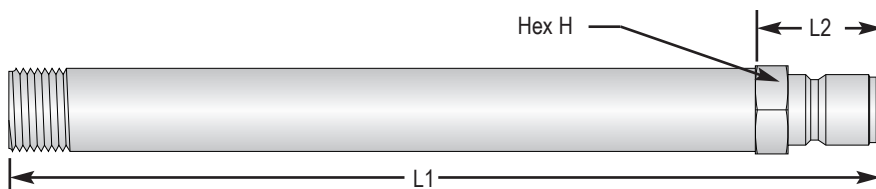
"C" Series - Straight Through Plated Steel Female Plugs

SIZE



BODY SIZE	THREAD SIZE	HEX "F"	PART NO.	PRICE
1/4"	1/8" - 27	7/16"	.97 CFP-04-02	... \$ 1.06
1/4"	1/4" - 18	9/16"	1.28 CFP-04-04	... \$ 1.22
3/8"	1/4" - 18	9/16"	1.47 CFP-06-04	... \$ 1.17
3/8"	3/8" - 18	3/4"	1.59 CFP-06-06	... \$ 1.97
1/2"	1/2" - 14	15/16"	1.77 CFP-08-08	... \$ 3.56

"C" Series - Straight Through Male Extension Plugs

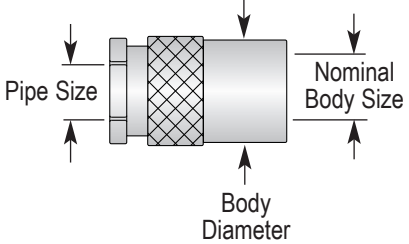
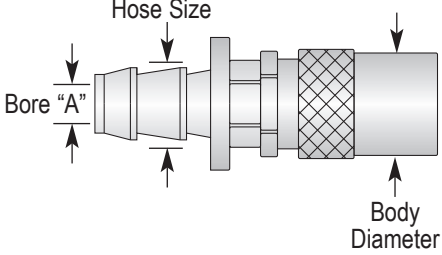
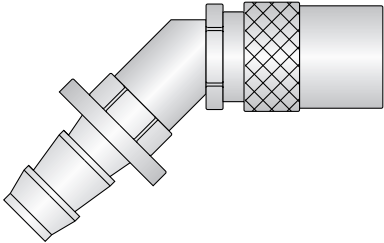
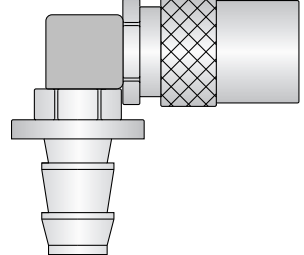
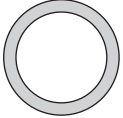


BODY SIZE	NPT LENGTH	(L1)	LENGTH(L2)	HEX(H)	PART NO.	PRICE
1/4"	1/8" - 27	2"	11/16"	7/16"	MEP-04-02-2	... \$ 2.56
1/4"	1/8" - 27	4"	11/16"	7/16"	MEP-04-02-4	... \$ 3.10
1/4"	1/8" - 27	6"	11/16"	7/16"	MEP-04-02-6	... \$ 6.62
1/4"	1/8" - 27	8"	11/16"	7/16"	MEP-04-02-8	... \$ 6.62
1/4"	1/4" - 18	2"	11/16"	7/16"	MEP-04-04-2	... \$ 2.84
1/4"	1/4" - 18	4"	11/16"	7/16"	MEP-04-04-4	... \$ 2.84
1/4"	1/4" - 18	6"	11/16"	7/16"	MEP-04-04-6	... \$ 7.60
1/4"	1/4" - 18	8"	11/16"	7/16"	MEP-04-04-8	... \$ 8.75
3/8"	1/8" - 18	2"	11/16"	7/16"	MEP-06-02-2	... \$ 2.83
3/8"	1/8" - 18	6"	11/16"	7/16"	MEP-06-02-6	... \$ 7.13
3/8"	1/4" - 18	2"	1-1/32"	9/16"	MEP-06-04-2	... \$ 2.84
3/8"	1/4" - 18	4"	1-1/32"	9/16"	MEP-06-04-4	... \$ 3.42
3/8"	1/4" - 18	6"	1-1/32"	9/16"	MEP-06-04-6	... \$ 7.27
3/8"	1/4" - 18	8"	1-1/32"	9/16"	MEP-06-04-8	... \$ 9.79

AVAILABLE UP TO 17 INCHES LONG - QUOTATION UPON REQUEST

CITO-FP-PRICE-22-0812

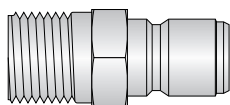
"C" Series Quick Connector Couplings - 1 = 1/16"

Socket "C" Series						
NOMINAL BODY SIZE	BODY DIAMETER	PIPE SIZE	PART NO.	PRICE		
1/4"	.704	1/8"	CS-04-02	\$ 4.37		
1/4"	.704	1/4"	CS-04-04	\$ 5.35		
3/8"	.950	1/4"	CS-06-04	\$ 5.38		
3/8"	.950	3/8"	CS-06-06	\$ 6.10		
1/2"	1.200	1/2"	CS-08-08	\$ 9.56		
Hose Socket "C" Series						
NOMINAL BODY SIZE	BODY DIAMETER	HOSE SIZE	BORE "A"	PART NO.	PRICE	
1/4"	.704	1/4"	.238	CHS-04-04	\$ 5.54	
1/4"	.704	3/8"	.300	CHS-04-06	\$ 5.72	
3/8"	.950	3/8"	.300	CHS-06-06	\$ 6.84	
3/8"	.950	1/2"	.408	CHS-06-08	\$ 7.27	
1/2"	1.200	1/2"	.408	CHS-08-08	\$12.87	
Hose Socket "C" Series 45°						
NOMINAL BODY SIZE	BODY DIAMETER	HOSE SIZE	BORE "A"	PART NO.	PRICE	
1/4"	.704	1/4"	.238	CHS-45-04-04	\$ 7.13	
1/4"	.704	3/8"	.300	CHS-45-04-06	\$ 7.13	
3/8"	.950	3/8"	.300	CHS-45-06-06	\$ 8.78	
3/8"	.950	1/2"	.408	CHS-45-06-08	\$ 9.23	
Hose Socket "C" Series 90°						
NOMINAL BODY SIZE	BODY DIAMETER	HOSE SIZE	BORE "A"	PART NO.	PRICE	
1/4"	.704	1/4"	.238	CHS-90-04-04	\$ 7.16	
1/4"	.704	3/8"	.300	CHS-90-04-06	\$ 7.34	
3/8"	.950	3/8"	.300	CHS-90-06-06	\$ 8.57	
3/8"	.950	1/2"	.408	CHS-90-06-08	\$ 9.02	
1/2"	1.200	1/2"	.408	CHS-90-08-08	\$17.69	
"C" Series Seals						
NOMINAL BODY SIZE			PART NO.	PRICE		
1/4"			CVS-04	\$ 2.70/10		
3/8"			CVS-06	\$ 3.78/10		
1/2"			CVS-08	\$ 10.80/10		

CITO-FP-PRICE-22-0812

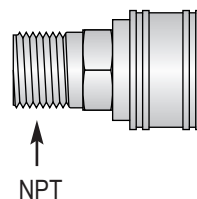
"S" Series Hose Couplings - 1 = 1/16"

Male Plug



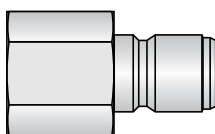
SIZE	PART NO.	PRICE
1/4"	MP-04	\$ 1.94
3/8"	MP-06	\$ 2.27
1/2"	MP-08	\$ 4.09
3/4"	MP-12	\$ 7.29
1"	MP-16	\$ 18.76
1-1/4"	MP-20	\$ 31.02
1-1/2"	MP-24	\$ 44.02
2"	MP-32	\$ 68.22

Male Socket



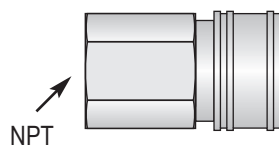
SIZE	PART NO.	PRICE
1/4"	MS-04	\$ 5.42
3/8"	MS-06	\$ 6.70
1/2"	MS-08	\$ 9.63
3/4"	MS-12	\$ 14.39
1"	MS-16	\$ 20.71

Female Plug



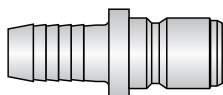
SIZE	PART NO.	PRICE
1/4"	FP-04	\$ 1.94
3/8"	FP-06	\$ 2.27
1/2"	FP-08	\$ 4.09
3/4"	FP-12	\$ 7.29
1"	FP-16	\$ 15.53
1-1/4"	FP-20	\$ 27.08
1-1/2"	FP-24	\$ 53.73
2"	FP-32	\$ 59.79

Female Socket



SIZE	PART NO.	PRICE
1/4"	FS-04	\$ 5.42
3/8"	FS-06	\$ 6.70
1/2"	FS-08	\$ 9.63
3/4"	FS-12	\$ 17.18
1"	FS-16	\$ 26.21
1-1/4"	FS-20	\$ 55.90
1-1/2"	FS-24	\$ 94.43
2"	FS-32	\$ 127.44

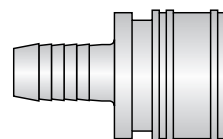
Hose Plug



SIZE	PART NO.	PRICE
1/4"	*HP-04	\$ 3.33
3/8"	*HP-06	\$ 4.09
1/2"	*HP-08	\$ 7.79
3/4"	*HP-12	\$ 10.19
1"	*HP-16	\$ 17.26

*Use with Hose Clamps

Hose Socket



SIZE	PART NO.	PRICE
1/4"	*HS-04	\$ 8.06
3/8"	*HS-06	\$ 8.89
1/2"	*HS-08	\$ 14.44
3/4"	*HS-12	\$ 17.26

*Use with Hose Clamps

CITO-FP-PRICE-22-0812

Hose Fittings - 1 = 1/16"

Push-Loc Hose to Male Pipe Fitting (No Clamps Required)



Pipe Thread (in NPT)

Hose Barb
(to fit inside diameter of hose)

Flow Area (Sq. In.)

THREAD SIZE	HOSE (INSIDE DIAMETER)	HOLE DIAMETER
1/8"	1/4"	.190"
1/8"	*3/8"	.275"
1/4"	1/4"	.190"
1/4"	*3/8"	.285"
1/4"	*1/2"	.346"
3/8"	1/4"	.190"
3/8"	3/8"	.285"
3/8"	*1/2"	.410"
1/2"	1/2"	.410"
1/2"	*3/4"	.564"
3/4"	3/4"	.660"
1"	1"	.813"

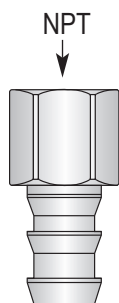
PART NO.	PRICE
PLMP-04-02	\$1.13
*PLMP-06-02	\$1.93
PLMP-04-04	\$1.35
*PLMP-06-04	\$1.49
*PLMP-08-04	\$2.21
PLMP-04-06	\$1.78
PLMP-06-06	\$1.73
*PLMP-08-06	\$1.93
PLMP-08-08	\$3.24
*PLMP-12-08	\$4.45
PLMP-12-12	\$4.64
PLMP-16-16	\$12.42

* PL MP - 06 - 04

Thread -02=1/8" - 04=1/4" - 06=3/8" - 08=1/2" - 12=3/4" - 16 = 1"
 Hose - 04=1/4" - 06=3/8" - 08=1/2" - 12 = 3/4" - 16 = 1"
 MP=Male Pipe
 FP=Female Pipe
 Push-Loc (No hose clamp required)
 High Flow (preferred size)

*Indicates preferred sizes for best flow rate

Push-Loc Hose to Female Pipe

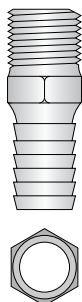


THREAD SIZE	HOSE (INSIDE DIAMETER)	HOLE DIAMETER
1/8"	1/4"	.19"
1/8"	3/8"	.28"
1/4"	1/4"	.19"
1/4"	3/8"	.28"
1/4"	1/2"	.41"
3/8"	3/8"	.28"
3/8"	1/2"	.41"
1/2"	1/2"	.41"
3/4"	3/4"	.67"

PART NO.	PRICE
PLFP-04-02	\$ 1.78
*PLFP-06-02	\$ 2.93
PLFP-04-04	\$ 1.82
*PLFP-06-04	\$ 1.85
*PLFP-08-04	\$ 2.72
PLFP-06-06	\$ 2.32
*PLFP-08-06	\$ 2.59
PLFP-08-08	\$ 3.17
PLFP-12-12	\$ 6.25

*Indicates preferred sizes for best flow rate

Barbed Male Fittings - Use with Hose Clamp



NPT

THREAD SIZE	HOSE (INSIDE DIAMETER)	HOLE DIAMETER
3/4"	1"	.750"
1"	1"	.875"
1"	1-1/4"	.940"
1-1/4"	1-1/4"	.980"
1-1/4"	1-1/2"	1.280"
1-1/2"	1-1/2"	1.214"
1-1/2"	2"	1.728"
2"	2"	1.824"

PART NO.	PRICE
*HCMB-16-12	\$ 3.31
HCMB-16-16	\$ 7.00
*HCMB-20-16	\$ 27.20
HCMB-20-20	\$ 24.01
HCMB-24-20	\$ 34.94
HCMB-24-24	\$ 32.48
HCMB-32-24	\$ 64.60
HCMB-32-32	\$ 38.82

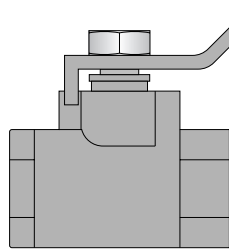
*Indicates preferred sizes for best flow rate

Due to fluctuating brass prices, please check for current prices.

CITO-FP-PRICE-22-0812

Valves, Bushings, Plugs and Coupling - 1 = 1/16"

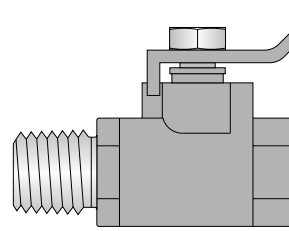
Full Flow Brass Ball Valves Female/Female



600 lbs.
water/gas/oil
(600WOG)

SIZE	PART NO.	PRICE
1/4"	BVFF-04	\$ 10.73
3/8"	BVFF-06	\$ 10.21
1/2"	BVFF-08	\$ 11.36
3/4"	BVFF-12	\$ 16.78
1"	BVFF-16	\$ 20.73
1-1/4"	BVFF-20	\$ 36.71
1-1/2"	BVFF-24	\$ 69.02
2"	BVFF-32	\$ 61.78

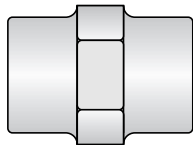
Full Flow Brass Ball Valves Male/Female



600 lbs.
water/gas/oil
(600WOG)

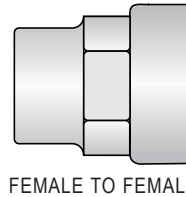
SIZE	PART NO.	PRICE
1/8"	BVMF-02	\$ 14.78
1/4"	BVMF-04	\$ 16.30
3/8"	BVMF-06	\$ 15.60
1/2"	BVMF-08	\$ 14.87
3/4"	BVMF-12	\$ 23.76
1"	BVMF-16	\$ 34.22

Female Couplings



SIZE	PART NO.	PRICE
1/8"	FC-02	\$ 3.20
1/4"	FC-04	\$ 2.45
3/8"	FC-06	\$ 3.02
1/2"	FC-08	\$ 4.39
3/4"	FC-12	\$ 5.27
1"	FC-16	\$ 8.01
1-1/4"	FC-20	\$ 12.51
1-1/2"	FC-24	\$ 17.01
2"	FC-32	\$ 21.78

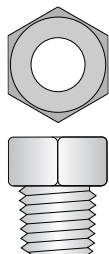
Reducer Couplings



FEMALE TO FEMALE

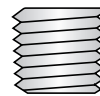
SIZE	PART NO.	PRICE
1"x1/2"	RC-16-08	\$ 9.04
1"x3/4"	RC-16-12	\$ 9.04
1-1/4"x1"	RC-20-16	\$ 14.58
1-1/2"x1"	RC-24-16	\$ 14.34
1-1/2"x1-1/4"	RC-24-20	\$ 14.34
2"x1"	RC-32-16	\$ 24.00
2"x1-1/4"	RC-32-20	\$ 21.29
2"x1-1/2"	RC-32-24	\$ 21.29

Reducer Bushings Brass Male/Female



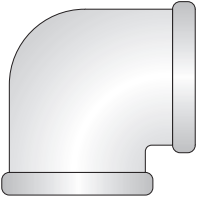
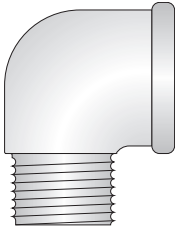
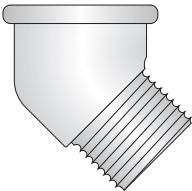
SIZE	PART NO.	PRICE
1/4" x 1/8"	RB-04-02	\$ 1.08
3/8" x 1/8"	RB-06-02	\$ 1.71
3/8" x 1/4"	RB-06-04	\$ 1.53
1/2" x 1/8"	RB-08-02	\$ 2.65
1/2" x 1/4"	RB-08-04	\$ 2.25
1/2" x 3/8"	RB-08-06	\$ 4.16
3/4" x 1/8"	RB-12-02	\$ 4.16
3/4" x 1/4"	RB-12-04	\$ 4.46
3/4" x 3/8"	RB-12-06	\$ 3.78
3/4" x 1/2"	RB-12-08	\$ 3.74
1" x 1/2"	RB-16-08	\$ 5.27
1" x 3/4"	RB-16-12	\$ 6.05
1-1/4" x 3/4"	RB-20-12	\$ 8.98
1-1/4" x 1"	RB-20-16	\$ 8.98
1-1/2" x 3/4"	RB-24-12	\$ 14.04
1-1/2" x 1"	RB-24-16	\$ 11.48
1-1/2" x 1-1/4"	RB-24-20	\$ 11.48

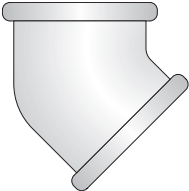
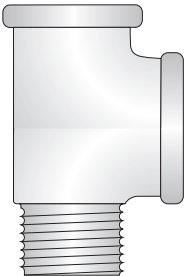
Brass Plugs

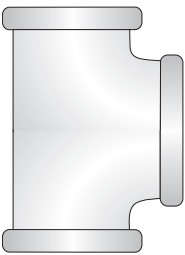
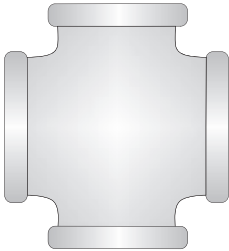


SIZE	PART NO.	PRICE
1/16" HEX	BP-01	\$.32
1/8" HEX	BP-02	\$.29
1/4" HEX	BP-04	\$.38
3/8" HEX	BP-06	\$.63
1/2" HEX	BP-08	\$ 1.03
3/4" SQ	BP-12	\$ 1.82
1" SQ	BP-16	\$ 3.80
1-1/4" SQ	BP-20	\$ 7.22
1-1/2" SQ	BP-24	\$ 9.49
2" SQ	BP-32	\$ 13.32

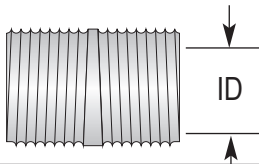
Brass Elbows and Brass Nipples - 1 = 1/16"

Brass 90° Elbow			Brass 90° Street Elbow			Brass Street 45° Elbow		
								
SIZE	PART NO.	PRICE	SIZE	PART NO.	PRICE	SIZE	PART NO.	PRICE
1/8"	EL-90-02	\$ 2.32	1/8"	SE-90-02	\$ 1.24	1/8"	SE-45-02	\$ 1.64
1/4"	EL-90-04	\$ 3.33	1/4"	SE-90-04	\$ 3.92	1/4"	SE-45-04	\$ 2.74
3/8"	EL-90-06	\$ 5.26	3/8"	SE-90-06	\$ 3.80	3/8"	SE-45-06	\$ 4.07
1/2"	EL-90-08	\$ 6.89	1/2"	SE-90-08	\$ 6.35	1/2"	SE-45-08	\$ 6.73
3/4"	EL-90-12	\$ 6.44	3/4"	SE-90-12	\$ 10.33	3/4"	SE-45-12	\$ 7.27
1"	EL-90-16	\$ 10.06	1"	SE-90-16	\$ 13.77	1"	SE-45-16	\$ 12.04
1-1/4"	EL-90-20	\$ 15.98	1-1/4"	SE-90-20	\$ 20.34	1-1/4"	SE-45-20	\$ 14.34
1-1/2"	EL-90-24	\$ 16.80	1-1/2"	SE-90-24	\$ 21.34	1-1/2"	SE-45-24	\$ 19.25
2"	EL-90-32	\$ 25.27	2"	SE-90-32	\$ 36.93	2"	SE-45-32	\$ 32.62

Brass 45° Elbow			Brass Street Tee		
					
SIZE	PART NO.	PRICE	SIZE	PART NO.	PRICE
1/8"	EL-45-02	\$ 4.10	1/8"	ST-02	\$ 2.63
1/4"	EL-45-04	\$ 3.42	1/4"	ST-04	\$ 4.86
3/8"	EL-45-06	\$ 3.44	3/8"	ST-06	\$ 5.80
1/2"	EL-45-08	\$ 4.34	1/2"	ST-08	\$ 11.29
3/4"	EL-45-12	\$ 6.41	3/4"	ST-12	\$ 18.59
1"	EL-45-16	\$ 10.80	1"	ST-16	\$ 43.20
1-1/4"	EL-45-20	\$ 17.24	1-1/4"	ST-20	\$ 48.48
1-1/2"	EL-45-24	\$ 16.80			
2"	EL-45-32	\$ 27.80			

Brass Tee			Brass Cross		
					
SIZE	PART NO.	PRICE	SIZE	PART NO.	PRICE
1/8"	BT-02	\$ 4.43	1/8"	BC-02	\$ 6.34
1/4"	BT-04	\$ 4.43	1/4"	BC-04	\$ 6.34
3/8"	BT-06	\$ 4.43	3/8"	BC-06	\$ 6.34
1/2"	BT-08	\$ 5.56	1/2"	BC-08	\$ 7.70
3/4"	BT-12	\$ 8.01	3/4"	BC-12	\$ 11.12
1"	BT-16	\$ 14.24	1"	BC-16	\$ 17.64
1-1/4"	BT-20	\$ 15.53	1-1/4"	BC-20	\$ 21.49
1-1/2"	BT-24	\$ 21.41	1-1/2"	BC-24	\$ 27.45
2"	BT-32	\$ 35.00	2"	BC-32	\$ 57.20

CITO-FP-PRICE-22-0812



Pipe Nipples Brass 1 = 1/16"



	1/8" .296 ID	1/4" .364 ID	3/8" .493 ID	1/2" .622 ID	3/4" .824 ID	1" 1.049 ID	1-1/4" 1.380 ID	1-1/2" 1.610 ID	2" 2.067 ID
CLOSE	BN-02-01 \$.67	BN-04-01 \$.92	BN-06-01 \$ 1.28	BN-08-01 \$ 3.02	BN-12-01 \$ 5.11	BN-16-01 \$ 4.88	BN-20-01 \$ 7.34	BN-24-01 \$ 13.77	BN-32-01 \$ 14.51
2" LONG	BN-02-02 \$ 1.87	BN-04-02 \$ 2.02	BN-06-02 \$ 2.56	BN-08-02 \$ 3.22	BN-12-02 \$ 5.08	BN-16-02 \$ 6.01	BN-20-02 \$ 8.24	BN-24-02 \$ 10.28	BN-32-02 \$ 14.85
3" LONG	BN-02-03 \$ 2.18	BN-04-03 \$ 3.02	BN-06-03 \$ 4.07	BN-08-03 \$ 5.65	BN-12-03 \$ 5.58	BN-16-03 \$ 8.05	BN-20-03 \$ 15.30	BN-24-03 \$ 14.13	BN-32-03 \$ 14.06
4" LONG	BN-02-04 \$ 2.84	BN-04-04 \$ 3.37	BN-06-04 \$ 5.02	BN-08-04 \$ 5.69	BN-12-04 \$ 7.25	BN-16-04 \$ 10.53	BN-20-04 \$ 14.76	BN-24-04 \$ 14.32	BN-32-04 \$ 18.41
5" LONG	BN-02-05 \$ 3.37	BN-04-05 \$ 4.19	BN-06-05 \$ 4.91	BN-08-05 \$ 6.80	BN-12-05 \$ 8.68	BN-16-05 \$ 12.94	BN-20-05 \$ 18.00	BN-24-05 \$ 17.79	BN-32-05 \$ 22.75
6" LONG	BN-02-06 \$ 5.69	BN-04-06 \$ 5.11	BN-06-06 \$ 5.76	BN-08-06 \$ 8.26	BN-12-06 \$ 10.58	BN-16-06 \$ 7.34	BN-20-06 \$ 17.23	BN-24-06 \$ 21.14	BN-32-06 \$ 27.17

Due to fluctuating brass prices, please check for current prices.

Hose and Hose Clamps

Push-Loc Hose (No hose clamp required)



HOSE (ID)	PART NO.	PRICE PER FOOT
1/4"	PLH-4-*(R or B)	\$ 1.58
3/8"	PLH-6-*(R or B)	\$ 1.96
1/2"	PLH-8-*(R or B)	\$ 2.29
3/4"	PLH-12-*(R or B)	\$ 3.94
1"	PLH-16-*(R or B)	\$ 12.68

*Sold in 10' increments

*** SPECIFY COLOR:**
 BLUE = B RED = R
 MAXIMUM PRESSURE 150 P.S.I.
 MAXIMUM TEMPERATURE 190° F

General Purpose Hose (Use with hose clamp)

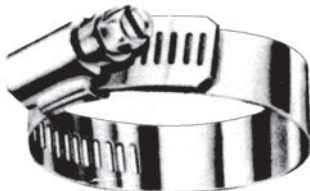


HOSE (ID)	PART NO.	PRICE PER FOOT
1-1/4"	GPH-20-*	\$ 5.02
1-1/2"	GPH-24-*	\$ 6.28
2"	GPH-32-*	\$ 9.86

*Sold in 10' increments

*** SPECIFY COLOR:** BLACK = BLK RED = R
 MAXIMUM PRESSURE 150 P.S.I.
 MAXIMUM TEMPERATURE 190° F

Stainless Hose Clamps



DIAMETER RANGE	FOR	PART NO.	PRICE EACH
3/8" - 7/8"		SHC-6-14	\$ 1.78
7/16" - 1"		SHC-7-16	\$ 1.78
9/16" - 1-1/16"		SHC-9-17	\$ 1.78
11/16" - 1-1/2"		SHC-11-24	\$ 1.78
1-1/16" - 2"		SHC-17-32	\$ 1.85
1-9/16" - 2-1/2"		SHC-25-40	\$ 1.85

CITO-FP-PRICE-22-0817



CITO-FP-PRICE-23-0601

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