



AQUATAP™



## Georg Fischer Type 530 AquaTap Recirculating Laboratory Faucet

Featuring GF's  
Inline Flow Diverter (IFD)  
Technology (Patent Pending)



**GEORG FISCHER**  
PIPING SYSTEMS

# Georg Fischer Type 530 AquaTap™ Recirculating Laboratory Faucet

Featuring GF's Inline Flow Diverter (IFD) Technology (Patent Pending)

## Technical Features

- Ideal flow characteristics
- Sleek robust design
- Continuous flow up to valve eliminating dead-legs
- Easy flare-style connection method
- Deck or wall mounting options
- Needle-type flow control for precise metering



## General

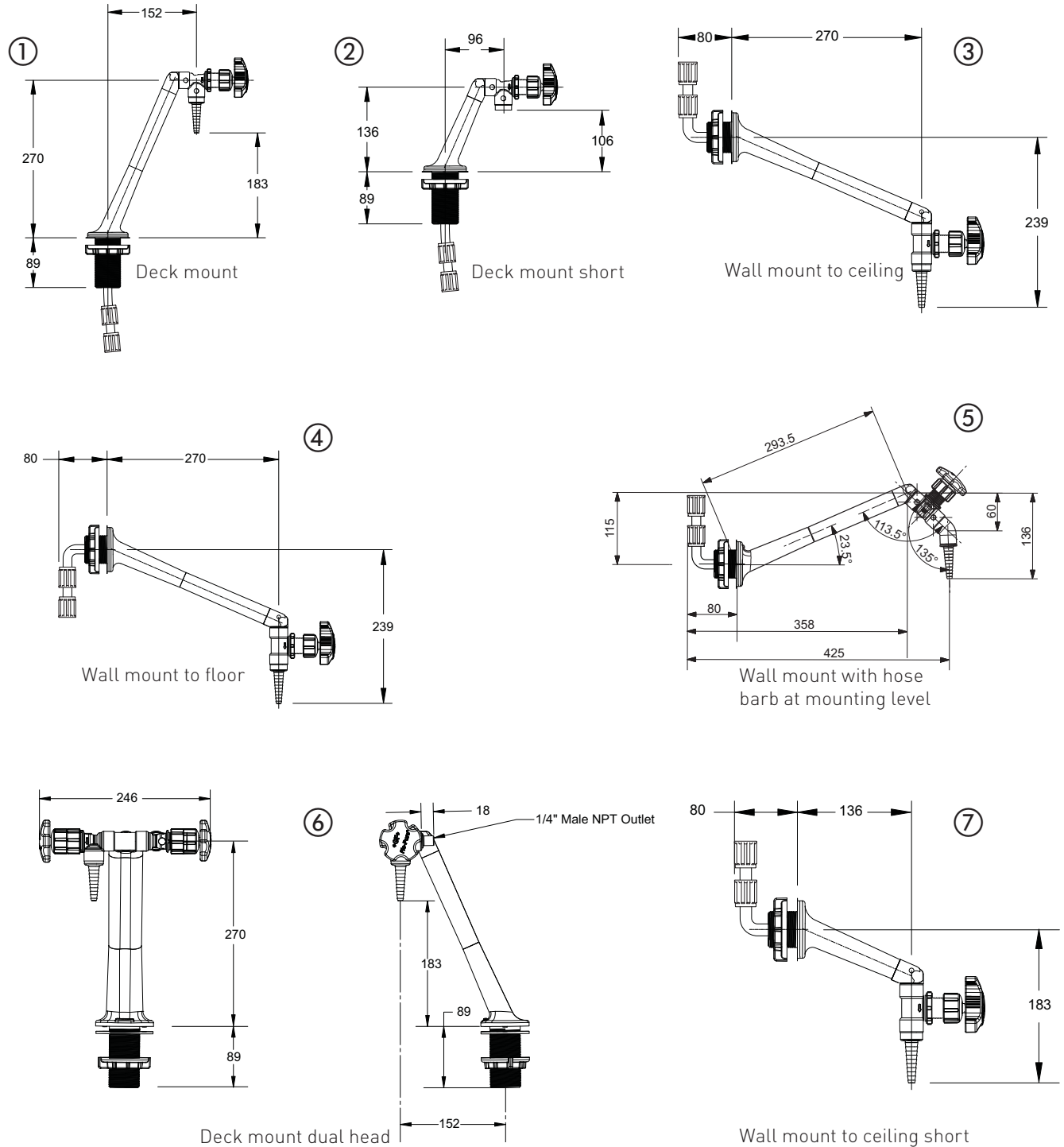
The Type 530 recirculating laboratory faucet is designed to provide constant DI fluid flow to point of use when used with the new Inline Flow Diverter (IFD). The unique design of the IFD provides high flow from the distribution main through the faucet for constant water movement. The IFD uses a slight orifice reduction to create a differential pressure imbalance which forces water through the faucet with minimal pressure loss. The system is further enhanced by using smooth bore interconnecting tubing for design flexibility and simplified piping installations. Up to three faucets can be served from a single IFD.

The faucet is made from high purity PVDF, and the IFD is available in SYGEF® PVDF or PROGEF® Natural PP in either weld or sanitary clamp connections. Simple heat flaring tools make leak-proof, minimum crevice connections between components.

Mounting Style	PN	Part Number
① Deck Mount Hose Barb	6	175530001
② Deck Mount Short Version Female 3/8" NPT	6	175530006
③ Wall Mount to Ceiling Hose Barb	6	175530002
④ Wall Mount to Floor Hose Barb	6	175530003
⑤ Wall Mount with Hose Barb at Mounting Elevation	6	175530007
⑥ Deck Mount Dual Head	6	175530004
⑦ Wall Mount Short to Ceiling 3/8" NPT	6	175530008

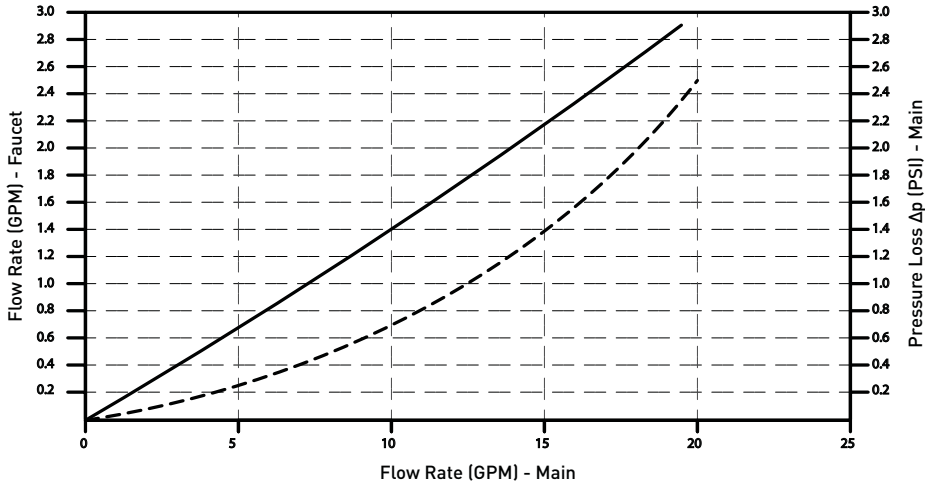
## Mounting Hole Diameter 2"-2 1/8"

Male-to-male coupler included (not shown in illustration)

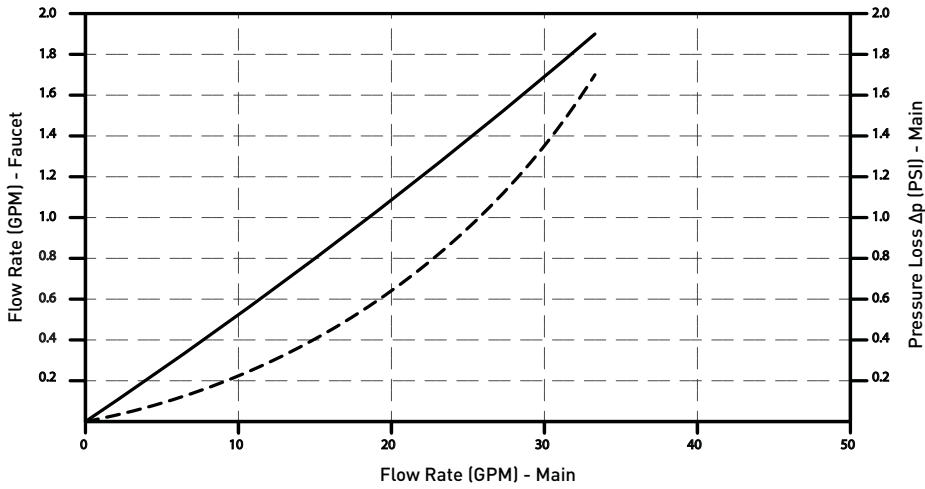


# Flow/Pressure Characteristics

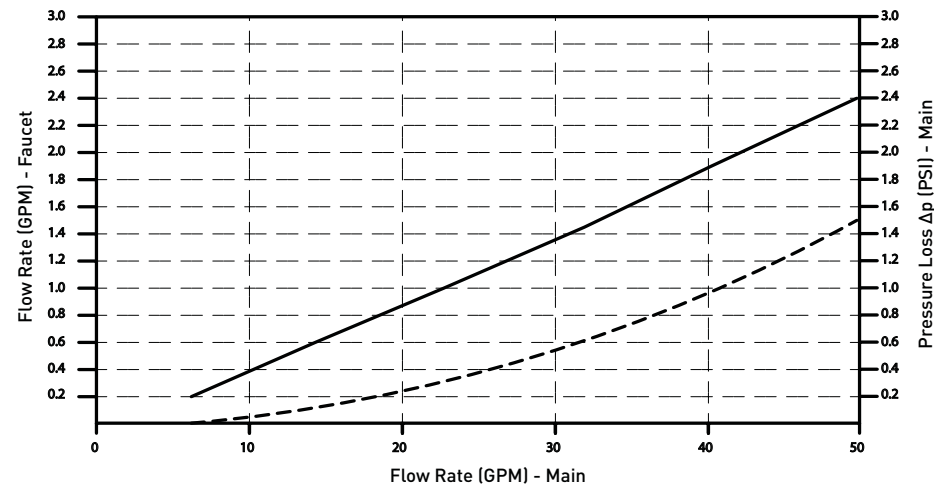
## 25mm Inline Flow Diverter



## 32mm Inline Flow Diverter



## 40mm Inline Flow Diverter



### LEGEND

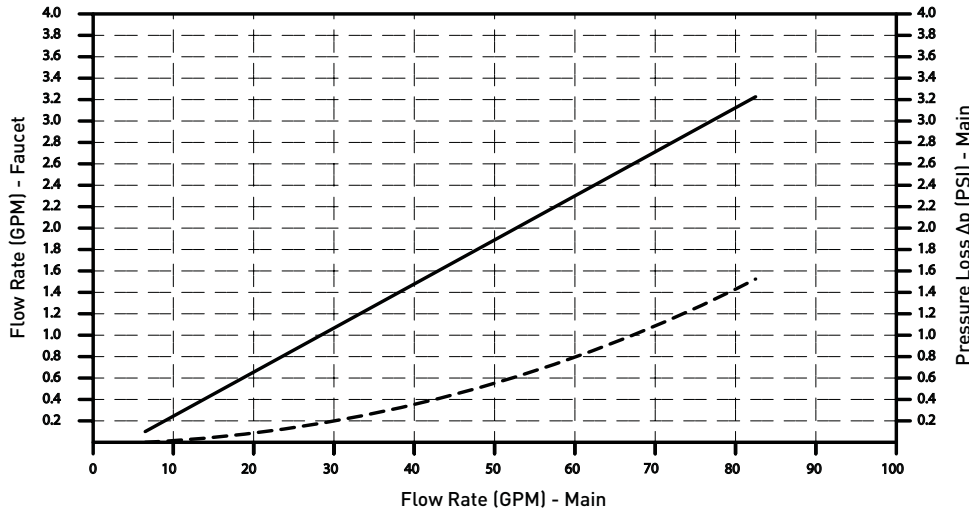
— Flow rate through faucet

- - - Pressure drop through main

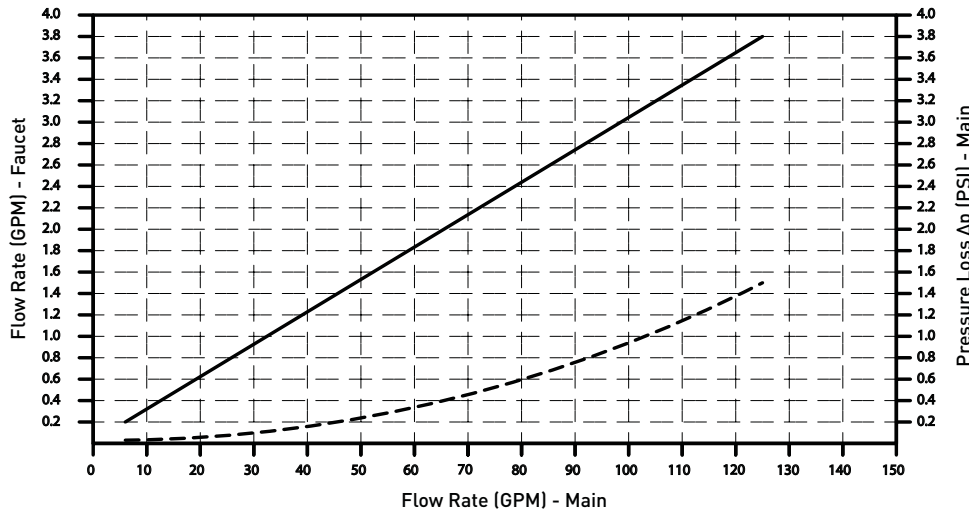
Faucet pressure rated @ 92 psi

# Flow/Pressure Characteristics

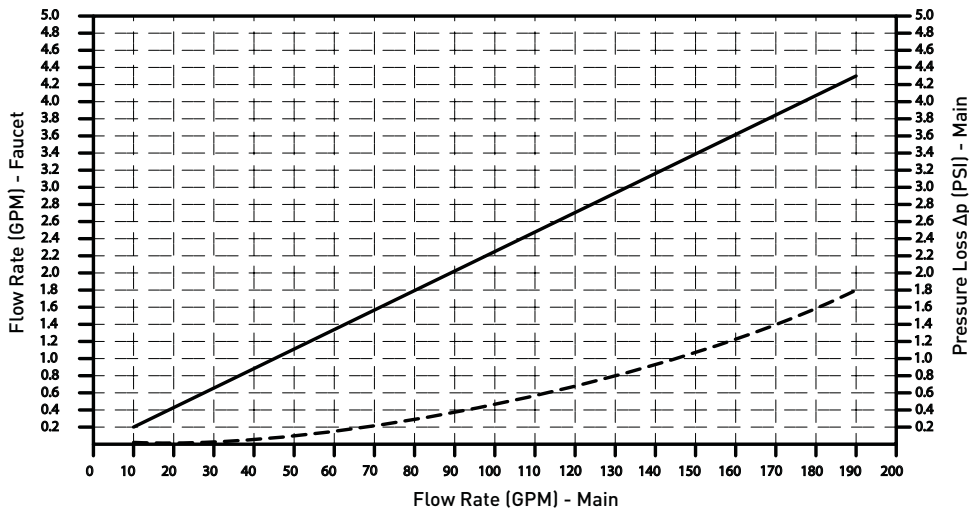
## 50mm Inline Flow Diverter



## 63mm Inline Flow Diverter



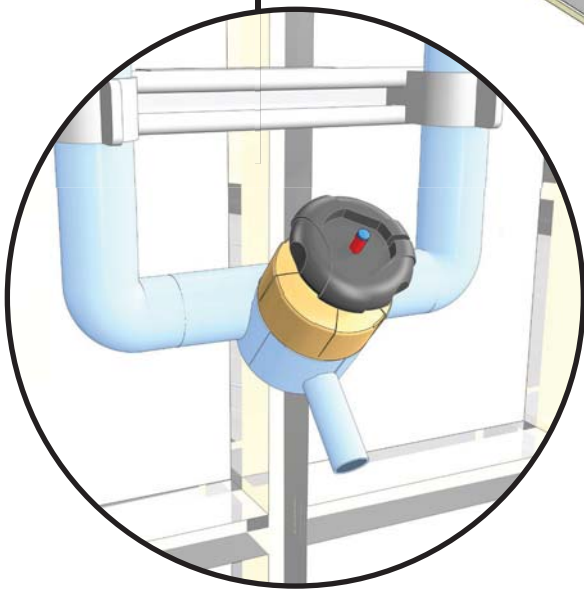
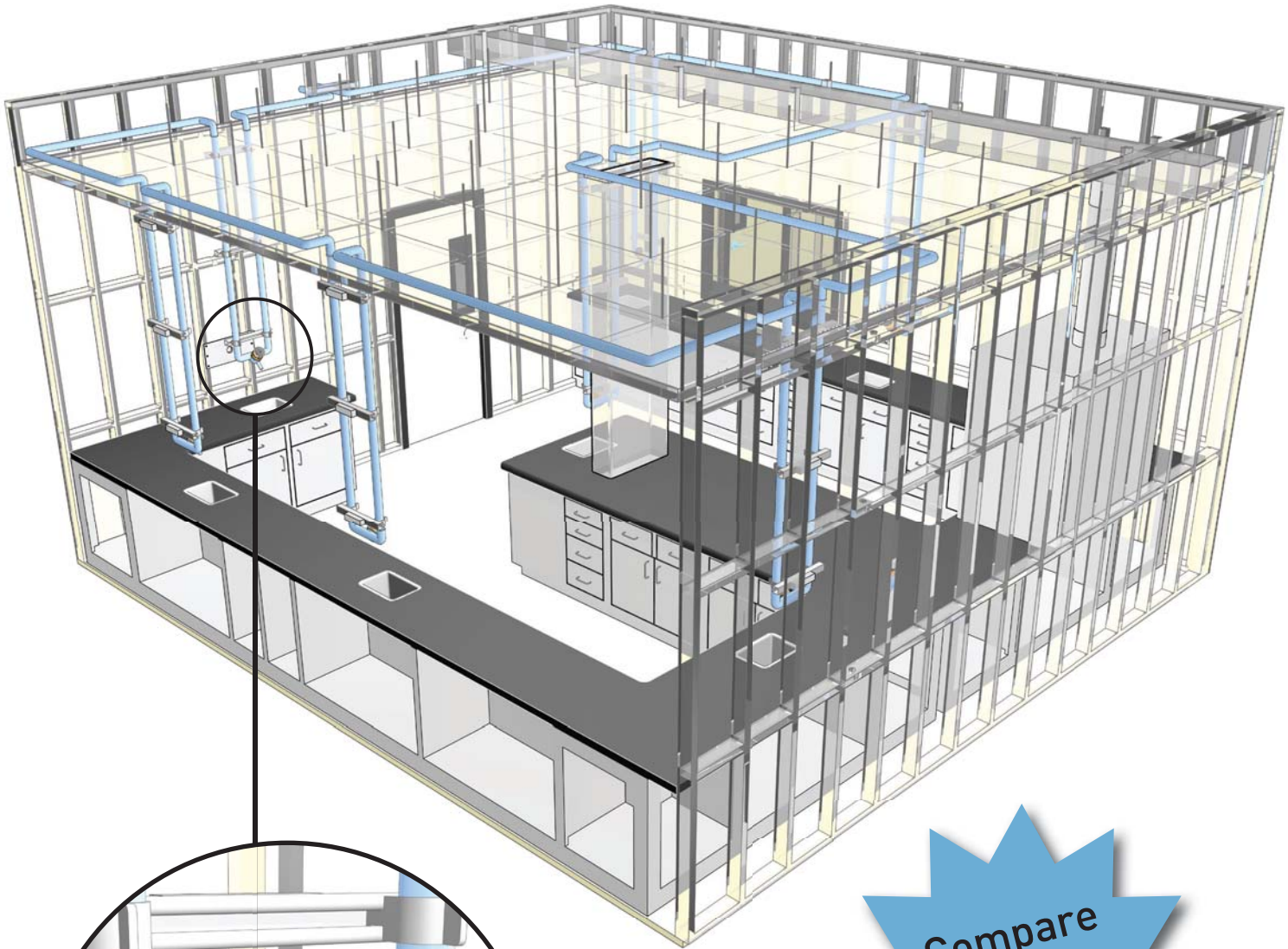
## 75mm Inline Flow Diverter



### LEGEND

- Flow rate through faucet
- Pressure drop through main

# Traditional Loop Installation Method



Rigid pipe installation method

Compare the savings!

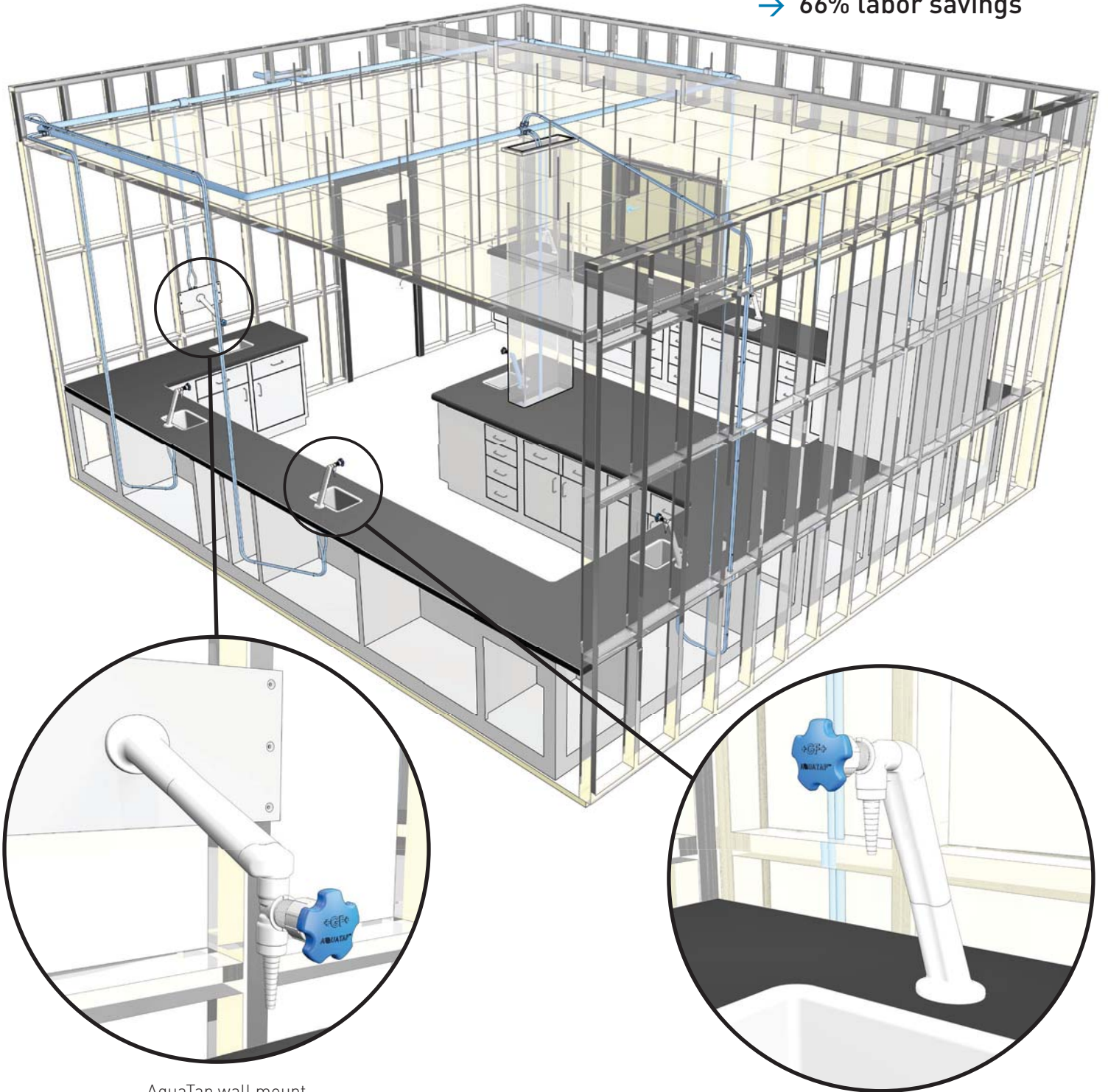
## Hard Pipe Installation

Material List Required	Labor Required
240 ft pipe	100 welds
50 90° elbows	
7 Zero Static Valves	



# s Shorter Loop Pipe with Flexible Tubes and IFDs

- 32% material savings
- 66% labor savings



AquaTap wall mount

## AquaTap Installation

Material List Required	Labor Required
90 ft pipe	20 welds
4 IFDs	28 flares
6 90° elbows	
7 AquaTaps	
200 ft tubing	

AquaTap deck mount

Inline flow diverters are designed only to be used as part of the AquaTap faucet system and are not sold separately.

## Tie-in Components (B)

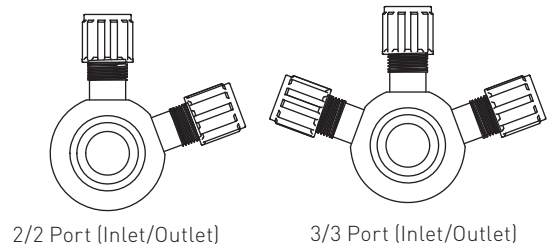
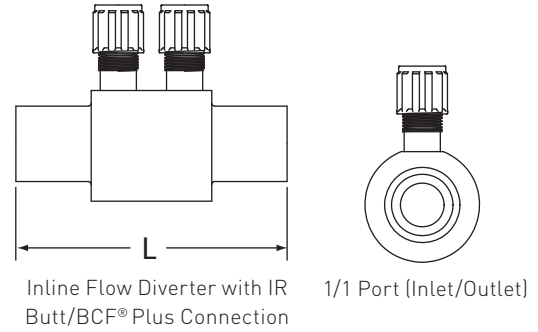
**Inline Flow Diverter** (shipped with nuts and tube blankoffs for pressure testing. Max. pressure 120 psi.)

IR Plus®/BCF® Plus Fusion

mm	Ports**	PN	SYGEF® PVDF	PROGEF® Standard	PROGEF® Natural PP	L mm
25	1/1	10	175 530 123	167 530 123	168 530 123	180
32	1/1	10	175 530 124	167 530 124	168 530 124	180
40	1/1	10	175 530 125	167 530 125	168 530 125	180
50	1/1	10	175 530 126	167 530 126	168 530 126	180
63	1/1	10	175 530 127	167 530 127	168 530 127	180
75	1/1	10	175 530 128	167 530 128	168 530 128	180
32	2/2	10	175 530 144	167 530 144	168 530 144	180
40	2/2	10	175 530 145	167 530 145	168 530 145	180
50	2/2	10	175 530 146	167 530 146	168 530 146	180
63	2/2	10	175 530 147	167 530 147	168 530 147	180
75	2/2	10	175 530 148	167 530 148	168 530 148	180
32	3/3	10	175 530 164	167 530 164	168 530 164	180
40	3/3	10	175 530 165	167 530 165	168 530 165	180
50	3/3	10	175 530 166	167 530 166	168 530 166	180
63	3/3	10	175 530 167	167 530 167	168 530 167	180
75	3/3	10	175 530 168	167 530 168	168 530 168	180

\*\*[Inlet/Outlet]

Other dimension available upon request

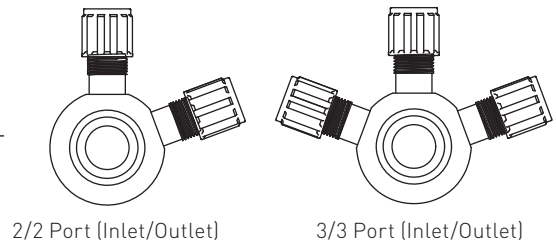
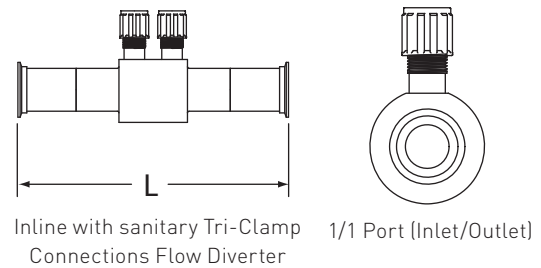


**Inline Flow Diverter** (shipped with nuts and tube blankoffs for pressure testing. Max. pressure 120 psi.)

Sanitary Tri-Clamp

Sanitary (inch)	Ports**	PN	SYGEF® PVDF	PROGEF® Standard	PROGEF® Natural PP	L mm
1½	1/1	10	175 530 225	167 530 225	168 530 225	294
2	1/1	10	175 530 226	167 530 226	168 530 226	316
2½	1/1	10	175 530 227	167 530 227	168 530 227	314
1½	2/2	10	175 530 245	167 530 245	168 530 245	294
2	2/2	10	175 530 246	167 530 246	168 530 246	316
2½	2/2	10	175 530 247	167 530 247	168 530 247	314
1½	3/3	10	175 530 265	167 530 265	168 530 265	294
2	3/3	10	175 530 266	167 530 266	168 530 266	316
2½	3/3	10	175 530 267	167 530 267	168 530 267	314

\*\*[Inlet/Outlet]

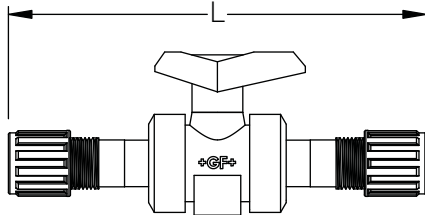




## Tubing Interconnect Components (B)

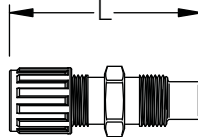
### 5/8" Flare x 5/8" Flare Adapters

Description	SYGEF® PVDF	PROGEF® Natural PP	L mm
Isolation Ball Valve	175 530 032	168 530 032	214
Straight Coupler	175 530 011	175 530 011	75
90° Elbow	175 530 012	168 530 012	85



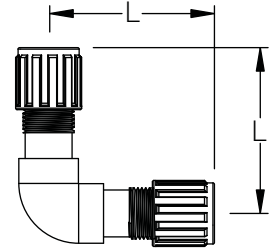
#### Isolation Ball Valve

Capable of direct connection as isolator to the faucet



#### Spare Straight Coupler

For direct connection to faucet tubing  
(one set included with each faucet)



#### 90° Elbow

For tight space constraints

### 5/8" Compression Fittings (Not recommended in concealed areas)

Description	PVDF	Natural PP	
5/8" Tube x 5/8" Tube Straight Coupler	175 530 013	168 530 013	
5/8" Tube x 5/8" Tube 90° Elbow	175 530 014	168 530 014	
5/8" Tube x 1/2" MNPT Tee	175 530 015	168 530 015	
5/8" Tube x 1/2" NPT Male Adapter	175 530 016	168 530 016	
5/8" Tube x 1/2" NPT Female Adapter	175 530 017	168 530 017	



#### Rebuild Kit 175530050

Includes valve stem, valve handle, threaded bonnet, and PTFE sealing seat.

## Accessories (B)

Description	Part Number
5/8" dia x .065 wall PFA Tubing (Plain)	178 530 001
5/8" dia x .065 wall PE Tubing (Plain)	193 530 001
90° Bend Tube Protector	150 530 002
Tube Clip	150 530 003
5/8" Flare Nut	175 530 010
5/8" Tube Blankoff	193 530 010
Faucet Isolation Clamps	150 530 001

## Tools (D)

Description	Toolkit ID#	Part Number
Heater Plate	1	790 105 096
Heater Plate Protector	2	799 530 001
5/8" Flare-Heater Bushing	3	799 530 155
Flare Mandrel	4	799 530 156
Tubing Hex Jaw Pliers	5	799 530 157
Tube Cutter (KTS 125)	6	799 530 158



## Tool Box Kit- 799 530 200

Description	Toolkit ID#	Part Number
Heater Plate	1	790 105 096
Heater Plate Protector	2	799 530 001
5/8" Flare - Heater Bushing	3	799 530 155
Flare Mandrel	4	799 530 156
Tubing Hex Jaw Pliers	5	799 530 157
Tube Cutter (KTS 125)	6	799 530 158
Tool Box	7	799 530 159

# Installation Requirement Guide

## Single Configuration: (1) Sink / (1) IFD

Description	Quantity Required	Notes
Faucet	1	Wall or Deck Mount
Inline Flow Diverter (IFD)	1	1 Inlet / 1 Outlet Configuration
Couplers	2	
Tubing*	<sup>†</sup> Distance from Sink (x2) +10%	
Tubing Example: Faucet 1: 15 ft from IFD 15 ft x 2 = 30 ft +10% = 33 ft of tubing required		

## Double Configuration: (2) Sink / (1) IFD

Description	Quantity Required	Notes
Faucet	2	Wall or Deck Mount
Inline Flow Diverter (IFD)	1	2 Inlet / 2 Outlet Configuration
Couplers	4	
Tubing*	<sup>†</sup> Distance from Sinks (x2) +10%	
Tubing Example: Faucet 1: 8 ft from IFD / Faucet 2 : 2 ft from IFD 8 + 2 = 10 ft x 2 = 20 ft +10% = 22 ft of tubing required		

## Triple Configuration: (3) Sink / (1) IFD

Description	Quantity Required	Notes
Faucet	3	Wall or Deck Mount
Inline Flow Diverter (IFD)	1	3 Inlet / 3 Outlet Configuration
Couplers	6	
Tubing*	<sup>†</sup> Distance from Sinks (x2) +10%	
Tubing Example: Faucet 1: 10 ft from IFD / Faucet 2: 6 ft from IFD / Faucet 3: 4 ft from IFD 10 + 6 + 4 = 20 ft x 2 = 40 ft +10% = 44 ft of tubing required		

\*PE tubing for polypropylene main piping of PFA tubing for PVDF main piping

<sup>†</sup>**Note: Maximum recommended distance between sink and IFD is 50 ft.**

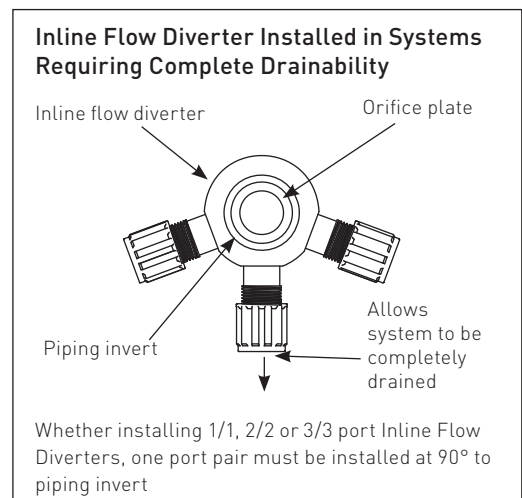
## Bead and Crevice Free (BCF) Joining Installation Procedure

When the IFD is installed using the BCF Plus Fusion technology, special care must be taken: for most pipe sizes, the bladder for the BCF Plus fusion machine will not fit through the orifice plate of the IFD. Therefore, the following solutions are recommended to ensure ease of installation:

- Fuse a union or a sanitary adapter to one end of the IFD
- Use an alternative fusion method such as IR Plus or Socket Fusion on one end
- If the main is smaller than 63 mm, the IFD can be installed using one size smaller bladder (which can be pulled through the IFD). **Note:** Extra care is required to ensure tight fit-up, and facing is necessary.

## Installation Recommendations to Ensure the System Drainability

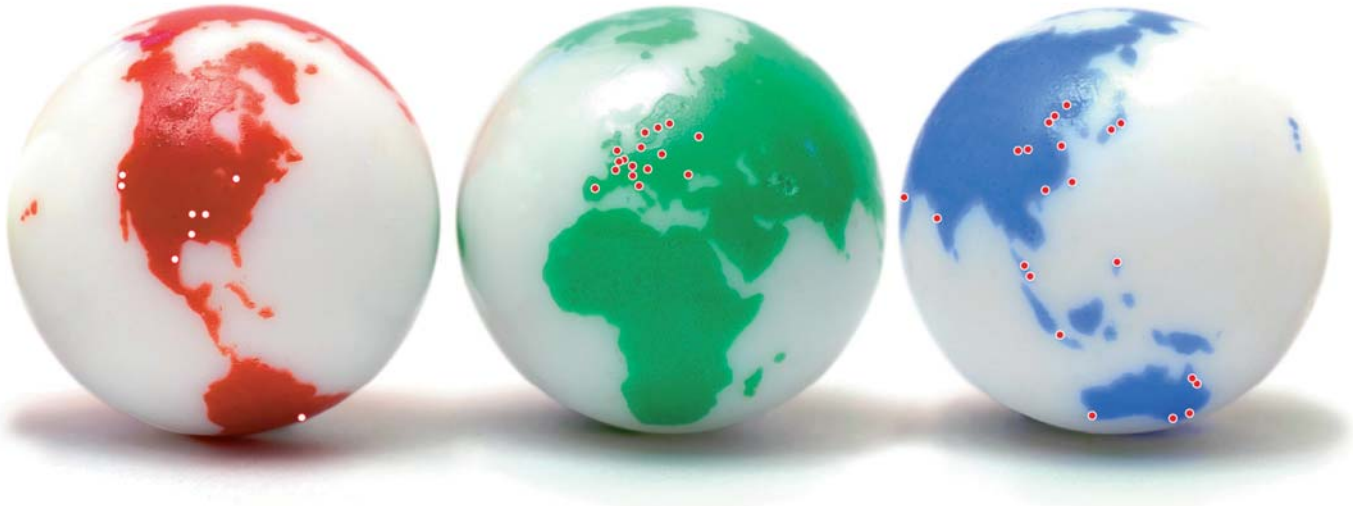
If a single IFD is installed, the installer must ensure the supply/return connections to the Aquatap faucet are located at the invert of the piping system facing down. If a multiple pair IFD is installed, one of the supply/return connection point pairs must be located at the invert of the point facing down. This will allow for complete system drain ability without interference from the orifice plates within the IFDs.



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