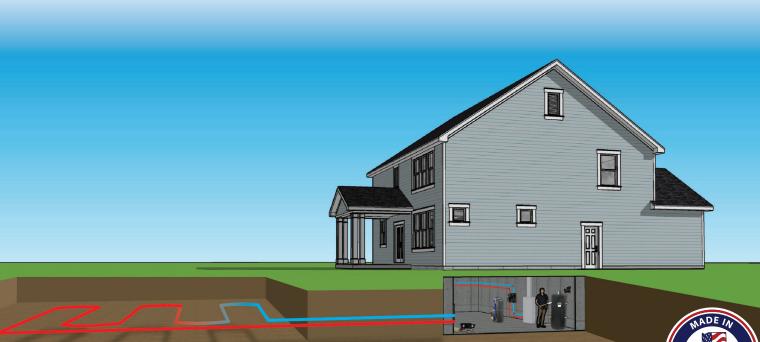
GEO-F 2024 Product Catalog



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Flo-Link™ Flow Centers

Geo-Flo's most popular flow centers are available in a wide variety of combinations. Flo-Link double O-ring fittings provide leak-free union connections at the flow center, installed without tools. Geo-Flo's full port 3-way flushing and isolation valves are designed for the wide range of temperatures experienced in ground loop applications The GPM series flow centers utilize reliable 3-way valves with the same features and benefits as the Flo-Link valves, but have threaded FPT connections.

| PRESSURIZED | | | | | | | |
|-------------|----------------------|--------------|-----------------|--------------------|-------------------|--------------------|-------------------|
| PN | PUMP | # PUMP(S) | SPEED | CONNECTION | VOLUTE | VALVE | CABINET/INSULATED |
| 1294 | UPS26-99 | 1 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1296 | UP26-116 | 1 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| FL1L | UPMXL 25-124 | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| FL2L | UPMXL 25-124 | 2 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| FL1N | UPMXL 25-124 INV. | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| | Flow ce | enters above | contain a set o | of 1-1/4" PE fusio | n X Flo-Link fitt | ings (loop side) | |
| 1295 | UPS26-99 | 2 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1297 | UP26-116 | 2 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| FL2M | UPS26-99/UPMXL | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| FL2P | UPS26-99/UPMXL INV. | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| FLXL1D | SuperBrute UPS60-150 | 2 | THREE | Flo-Link XL | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| FLXL1E | VersaFlo UPS32-160 | 1 | THREE | Flo-Link XL | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| FLXL1F | VersaFlo UPS40-160 | 1 | THREE | Flo-Link XL | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| FLXL2D | SuperBrute UPS60-150 | 2 | THREE | Flo-Link XL | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| FLXL2E | VersaFlo UPS32-160 | 2 | THREE | Flo-Link XL | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| FLXL2F | VersaFlo UPS40-160 | 2 | THREE | Flo-Link XL | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |

NOTE: For hose kits see pages 19-22

Flo-Link series foamed flow centers:













| PANEL MOUNT (Variable Speed Pre-Wired Packages-Panel Mounted) | | | | | | |
|--|---|-----------|------------------|-------------------------|--|--|
| PN | Flow Center | # PUMP(S) | Control | Connection | | |
| FL1L-PKT | FL1L | 1 | TEMPERATURE | Hose kit/PE connections | | |
| FL1L-PKB | FL1L | 1 | TEMPERATURE/FLOW | Hose kit/PE connections | | |
| FL2M-PKT | FL2M | 2 | TEMPERATURE | Hose kit/PE connections | | |
| FL2M-PKB FL2M 2 TEMPERATURE/FLOW Hose kit/PE connections | | | | | | |
| Kit includes all of the fittings necessary for connecting to the ground loop (1-1/4" PE fusion) and the heat pump. | | | | | | |
| | For Heat pumps with double O-ring water connections, add on 3326 (1" FPT X FL double O-ring fitting set.) | | | | | |





FL1L-PKT FL1L-PKB

Kit includes all of the fittings necessary for connecting to the ground loop (1-1/4" PE fusion) and the heat pump.

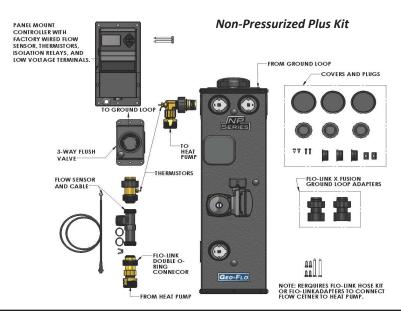
Flo-Link™/NP Base-Flow Centers

| NON-PRESSURIZED | | | | | | | |
|-----------------|-------------------------|---------------|------------------|--------------------|-------------------|------------------------|-------------------|
| PN | PUMP | # PUMP(S) | SPEED | CONNECTION | VOLUTE | VALVE | CABINET/INSULATED |
| 1271 | UPS26-99 | 1 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1273 | UP26-116 | 1 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NP1L | UPMXL 25-124 | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NP1N | UPMXL 25-124 INV. | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1272 | UPS26-99 | 2 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1274 | UP26-116 | 2 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NP2M | UPMXL 25-124 + UPS26-99 | 2 | VS/THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NP2P | UPMXL 25-124 INV. | 2 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NP2L | UPMXL 25-124 | 2 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO. BR | PLASTIC/ YES |
| | | | NON- | PRESSURIZED BA | SE | | |
| NPB1A | UPS26-99 | 1 | THREE | 1" Swivel | CAST IRON | ISOLATION BALL VLV, BR | PLASTIC/ YES |
| NPB2A | UPS26-99 | 2 | THREE | 1" Swivel | CAST IRON | ISOLATION BALL VLV, BR | PLASTIC/ YES |
| NPB1C | UP26-116 | 1 | SINGLE | 1" Swivel | CAST IRON | ISOLATION BALL VLV, BR | PLASTIC/ YES |
| NPB2C | UP26-116 | 2 | SINGLE | 1" Swivel | CAST IRON | ISOLATION BALL VLV, BR | PLASTIC/ YES |
| | | | NON- | PRESSURIZED PL | US | | |
| | (PNs include g | round loop fi | ttings (PE fusi | on x Flo-Link) and | d an additional | insulated 3-way valve) | |
| 1338 | UPS26-99 | 1 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1340 | UP26-116 | 1 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NPP1L | UPMXL 25-124 | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NPP1N | UPMXL 25-124 INV. | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1339 | UPS26-99 | 2 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1341 | UP26-116 | 2 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NPP2M | UPS26-99/UPMXL | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NPP2P | UPS26-99/UPMXL INV. | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| | | | NON-PF | RESSURIZED PLUS | KIT | | |
| NPP1L-CKI | 3 UPMXL 25-124 | 1 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| NPP2M-CK | B UPS26-99/UPMXL | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| | Kit includes: 0 | Fround loop f | ittings (PE fusi | on x Flo-Link) an | d an additional | insulated 3-way valve | |
| | Requi | res: heat pun | np connection | s (See NP Plus Ho | ose Kits, or Flo- | Link adapters) | |

Non-Pressurized Base (NPB) Non-Pressurized (NP)







NOTE: For hose kits see pages 19-22

| | NON-PRESSURIZED DUAL | | | | | | |
|--------|------------------------------|-----------|----------|------------|-----------|---------------------|-------------------|
| PN | PUMP | # PUMP(S) | SPEED | CONNECTION | VOLUTE | VALVE | CABINET/INSULATED |
| 1304 | UPS26-99 | 2 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| 1307 | UP26-116 | 2 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD2LA | UPS26-99/UPMXL | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD2NA | UPS26-99/UPMXL INV. | 2 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD2LL | UPMXL 25-124 | 2 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD2NN | UPMXL 25-124 INV. | 2 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| 1305 | UPS26-99 | 3 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| 1308 | UP26-116 | 3 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD3MA | UPS26-99+UPMXL, UPS26- 99 | 3 | THREE/VS | FLo-Link | CAST IRON | 3-WAY FLUSH/ISO, BR | SHEET METAL/ YES |
| NPD3ML | UPS26-99 + UPMXL | 3 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD3PN | UPS26-99 + UPMXL INV. | 3 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| 1306 | UPS26-99 | 4 | THREE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| 1309 | UP26-116 | 4 | SINGLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD4LL | UPMXL 25-124 | 4 | VARIABLE | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO,BR | SHEET METAL/ YES |
| NPD4LA | UPS 26-99 + UPMXL | 4 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO, BR | SHEET METAL/ YES |
| NPD4MA | UPS26-99 + UPMXL | 4 | THREE/VS | Flo-Link | CAST IRON | 3-WAY FLUSH/ISO, BR | SHEET METAL/ YES |

NOTE: For hose kits see pages 19-22

Non-Pressurized Dual (NPD)



| | NP REPLACEMENT CAP | |
|------|--------------------------------|------|
| 4008 | CAP, REPLACEMENT FOR NP SERIES | EACH |

FPT Flow Centers- Insulated & Bracket

| PRESSURIZED FPT FLOW CENTERS | | | | | | | |
|------------------------------|-----------------|-----------|--------|------------|-----------|--------------------|-------------------|
| PN | PUMP | # PUMP(S) | SPEED | CONNECTION | VOLUTE | VALVE | CABINET/INSULATED |
| FP1B | UP26-99 | 1 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1027 | UPS26-99 | 1 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1055 | UP26-116 | 1 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1077 | UP26-116SF | 1 | SINGLE | 1" FPT | STAINLESS | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1033 | UPS26-99 | 1 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1000 | UPS26-99 | 1 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | ON BRACKET/ NO |
| 1049 | UP26-116 | 1 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | ON BRACKET/ NO |
| 1085 | UP26-116SF | 1 | SINGLE | 1" FPT | STAINLESS | 3-WAY FLUSH/ISO,BR | ON BRACKET/ NO |
| 1004 | UPS26-99 115v | 1 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | ON BRACKET/ NO |
| 1037 | UPS26-99 | 1 | THREE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/ NO |
| 1057 | UP26-116 | 1 | SINGLE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/ NO |
| 1089 | UP26-116SF | 1 | SINGLE | 1" FPT | STAINLESS | ISO. VALVES | ON BRACKET/ NO |
| 1069 | UPS26-99 115v | 1 | THREE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/ NO |
| FP2B | UP26-99 | 2 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1028 | UPS26-99 | 2 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1056 | UP26-116 | 2 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1076 | UP26-116SF | 2 | SINGLE | 1" FPT | STAINLESS | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1031 | UPS26-99 115V | 2 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1001 | UPS26-99 | 2 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | ON BRACKET/NO |
| 1050 | UP26-116 | 2 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | ON BRACKET/NO |
| 1082 | UP26-116SF | 2 | SINGLE | 1" FPT | STAINLESS | 3-WAY FLUSH/ISO,BR | ON BRACKET/NO |
| 1005 | UPS26-99 115V | 2 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | ON BRACKET/NO |
| 1229 | UPS26-99 | 3 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1231 | UP26-116 | 3 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1235 | UP26-116SF | 3 | SINGLE | 1" FPT | STAINLESS | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1233 | UPS26-99 115V | 3 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1230 | UPS26-99 | 4 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1232 | UP26-116 | 4 | SINGLE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1236 | UP26-116SF | 4 | SINGLE | 1" FPT | STAINLESS | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1234 | UPS26-99 115V (| 4 | THREE | 1" FPT | CAST IRON | 3-WAY FLUSH/ISO,BR | PLASTIC/ YES |
| 1046 | UPS26-99 | 4 | THREE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/NO |
| 1062 | UP26-116 | 4 | SINGLE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/NO |
| 1092 | UP26-116SF | 4 | SINGLE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/NO |
| 1071 | UPS26-99 115V | 4 | THREE | 1" FPT | CAST IRON | ISO. VALVES | ON BRACKET/NO |

NOTE: For hose kits see pages 19-22

Bracket flow centers:



GPM-1 UPS26-99, 230V Grundfos (3-speed), cast iron, iso valves



GPM-1 UPS26-99 115v Grundfos (3-speed), cast iron, On Bracket



GPM-2 UPS26-99 230v Grundfos (3-speed), cast iron, On Bracket

FPT Foamed flow centers:



GPM-1 UPS26-99 230v Grundfos (3-speed), cast iron, Foamed



GPM-2 UPS26-99 230v Grundfos (3-speed), cast iron, Foamed



GPM-3 UPS26-99 230v Grundfos (3 Speed), cast iron, Foamed

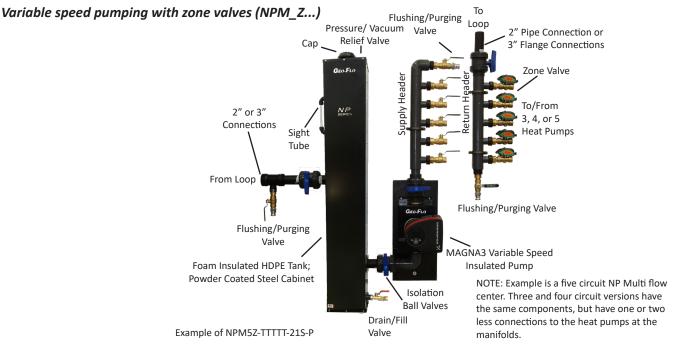
NPM-Flow Centers

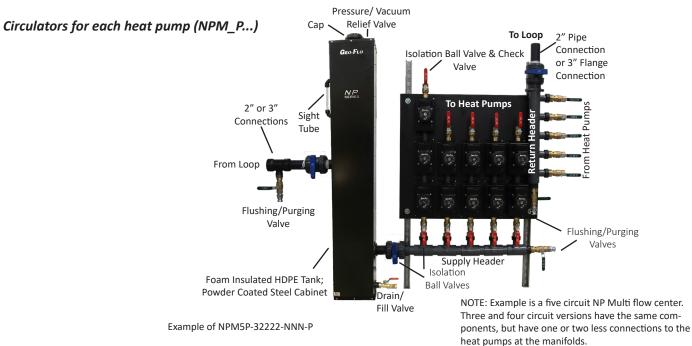
Geo-Flo's NP Multi™ is an engineered solution designed to simplify your geothermal applications for multiple heat pumps by providing virtually all of the piping, flushing/purging valves, and pumps/zone valves for three to five heat pumps as part of a factory assembled package.



Each NP Multi (NPM) flow center consists of a HDPE fluid reservoir (tank) housed in a closed-cell foam-insulated, powder coated steel cabinet. The tank provides a water column to deliver the necessary suction head for the circulator pumps and to ensure a flooded pump volute to prevent the pumps from becoming air-locked. In addition, the reservoir's body is sized to create a low fluid velocity region allowing both air and sediment to separate from the fluid. The sealing cap ensures a closed system while providing integrated pressure and vacuum relief to prevent the reservoir from being over-pressurized or dropping below atmospheric pres-

both air and sediment to separate from the fluid. The sealing cap ensures a closed system while providing integrated pressure and vacuum relief to prevent the reservoir from being over-pressurized or dropping below atmospheric pressure. Union ball valves are included on the tank's supply and return connections for ease of installation and tank isolation during start-up and/or servicing. A fill and drain ball valve at the base of the tank comes standard for initial filling as well as refilling, draining, and sediment removal. The flexible sight tube is useful for quickly determining the fluid level.



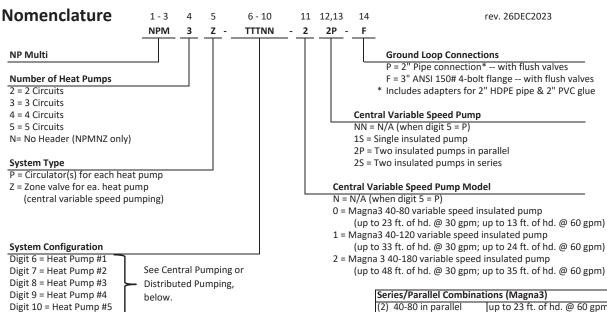


Premium Option: Two Pump Configurations





NOTE: Examples on this page are five circuit NP Multi flow centers. Two, three, and four circuit versions have the same components, but have less connections to the heat pumps at the manifolds.



| Series/Parallel Combinations (Magnas) | | | | | | |
|---------------------------------------|------------------------------|--|--|--|--|--|
| (2) 40-80 in parallel | up to 23 ft. of hd. @ 60 gpm | | | | | |
| | up to 33 ft. of hd. @ 60 gpm | | | | | |
| (2) 40-180 in parallel | up to 48 ft. of hd. @ 60 gpm | | | | | |
| (2) 40-80 in series | up to 46 ft. of hd. @ 30 gpm | | | | | |
| | up to 27 ft. of hd. @ 60 gpm | | | | | |
| (2) 40-120 in series | up to 66 ft. of hd. @ 30 gpm | | | | | |
| | up to 48 ft. of hd. @ 60 gpm | | | | | |
| (2) 40-180 in series | up to 96 ft. of hd. @ 30 gpm | | | | | |
| | up to 70 ft. of hd. @ 60 gpm | | | | | |

Central Variable Speed Pumping -- digit 5 = Z

Use one of the following choices for digits 6 to 10:

T = 1" Taco Sentry zone valve (Cv = 8.9)

B = 1" Belimo zone valve (Cv = 30)

R = Remote valve at heat pump (header with isolation valves)

N = This circuit not used

NOTE: Circuit field connections are 1" FPT.

Distributed Pumping (circulator for heat pump) -- digit 5 = P (Notes 1,3,4)

1 = One UPS26-99

2 = Two UPS26-99

3 = Three UPS26-99 (Note 2)

4 = One UP26-116

5 = Two UP26-116 6 = Three UP26-116 (Note 2) A= One UPMXL 25-124

B= UPMXL 25-124 + UPS26-99

C= Two UPMXL 25-124

D= One UPMXL 25-124 INV PWM

E= UPMXL 25-124 INV + UPS26-99

N = This circuit not used (use in digit 8, 9 and/or 10 for NPM2, NPM3, or NPM4)

NOTES:

- Arrange circuits from the largest to the smallest number of pumps in series. For example, use two pumps in a series for circuit one, two pumps in series for circuit two, and one pump on circuit three.
- 2. If any circuit has 3 pumps in series, all other circuits must have at least two pumps in series.
- 3. You cannot mix UP26-99s and UP26-116s on the same NPM
- 4. Var. spd. pumps (options A to E) include PWM cable.
- 5. VS pump (UPMXL) options are limited to three consecutive circuits due to the powerhead/terminal box design. If you need more than (3) circuits with UPMXL pumps consult factory.

NPM Configuration-Flow Centers

Step #1: Choose Number of Heat Pumps

| Number of | | | | | |
|------------|---------------|--|--|--|--|
| Heat Pumps | Digits 1 to 5 | | | | |
| 2 | NPM2Z | | | | |
| 3 | NPM3Z | | | | |
| 4 | NPM4Z | | | | |
| 5 | NPM5Z | | | | |

System Configuration Central Variable Speed Pump

NOTE: All connections to heat pumps are 1" FPT (supply & return headers).

Step #2: Choose Zone Valves for Each Circuit

| | Digit 6 | Digit 7 | Digit 8 | Digit 9 | Digit 10 |
|-----------------------------------|---------------|---------------|--------------|--------------|--------------|
| Zone Valves (Digits 6-10) | Heat Pump 1 | Heat Pump 2 | Heat Pump 3 | Heat Pump 4 | Heat Pump 5 |
| T = 1" Taco Geo Sentry (Cv = 8.9) | | | | | |
| B = 1" Belimo, Cv =30 | Choose T, B, | Choose T, B, | Choose T, B, | Choose T, B, | Choose T, B, |
| R = Remote valve | or R for heat | or R for heat | R, or N for | R, or N for | R, or N for |
| N = Not used (digit 8, 9 | pump 1 | pump 2 | heat pump 3 | heat pump 4 | heat pump 5 |
| and/or digit 10 for NPM2, | (digit 6) | (digit 7) | (digit 8) | (digit 9) | (digit 10) |
| NPM3, or NPM4) | | | | | |

Example: Digits 6 to 10 would be TTTTT for a NPM5Z with a Taco zone valve for each heat pump.

Step #3: Choose Central Pump Type

| Pump Type | Digit 11 |
|-------------------|----------|
| 1 = Magna3 40-120 | Choose |
| 2 = Magna3 40-180 | 1 or 2 |

Step #4: Choose Pump Configuration

| Pump Configuration | Digits 12 & 13 |
|--|----------------------|
| 1S = Single Insulated Pump w/Isolation Valves | |
| 2P = 2 Insul. Pmps (Parallel) w/Isol. Valves & Check VIv | Choose 1S, 2P, or 2S |
| 2S = 2 Insul. Pumps (Series) w/Isolation Valves | |

Step #5: Choose Ground Loop Connections

| l | Ground Loop Connections | | |
|---|-------------------------|--------------|---|
| | 2" | 3" | NOTE: 2" ground loop connections are HDPE fusion or PVC glue; |
| | Digit 14 = P | Digit 14 = F | 3" ground loop connections are ANSI 4-bolt flange type. |

Step #6: Create Model number

From steps 1 through 5, model number may be completed (see model nomenclature for added dashes after digits 5, 10, and 13).

ZONING WITH CIRCULATORS

System Configuration Zoning with Circulators

Step #1: Choose number of heat pumps.

| Number of | |
|------------|---------------|
| Heat Pumps | Digits 1 to 5 |
| 2 | NPM2P |
| 3 | NPM3P |
| 4 | NPM4P |
| 5 | NPM5P |

NOTE: All connections to heat pumps are 1" FPT (supply & return headers).

Step #2: Choose pumps for each circuit.

| Distributed Pumping | Digit 6 | Digit 7 | Digit 8 | Digit 9 | Digit 10 | Digits 11, 12, |
|---|-------------|---|--|--|---|---|
| (Digits 6-10) | Heat Pump 1 | Heat Pump 2 | Heat Pump 3 | Heat Pump 4 | Heat Pump 5 | and 13 |
| 1 = One UPS26-99 | | | | | | |
| 2 = Two UPS26-99 | | | | | | |
| 3 = Three UPS26-99 | | | | | | |
| 4 = One UP26-116 | | | | Choose 1 to E for heat pump 4 (digit 9) | Choose 1 to E for heat pump 5 (digit 10) | Always NNN for Zoning with Circulators |
| 5 = Two UP26-116 | Chaosa 1 ta | ose 1 to or heat imp 1 igit 6) Choose 1 to E for heat pump 2 (digit 7) | Choose 1 to E for heat pump 3 (digit 8) | | | |
| 6 = Three UP26-116 | | | | | | |
| A = One UPMXL 25-124* | | | | | | |
| B = UPMXL + UPS26-99* | (digit 6) | | | | | |
| C = Two UPMXL 25-124* | | | | | | |
| D = One UPMXL INV PWM* | | | | | | |
| E = UPMXL INV + UPS26-99* | | | | | | |
| N = Not used (digits 8, 9 and/or 10 for NPM2, NPM3, or NPM4) | | | | | | |

Example: Digits 6 to 10 would be 22222 for a NPM5P with two UPS26-99 pumps per heat pump.

NOTES:

- 1. Arrange circuits from the the largest to smallest number of pumps in series. For example, use two pumps in series for circuit one, two pumps in series for circuit two, and one pump on circuit three.
- 2. If any circuit has (3) UP26 pumps in series, all other circuits must have at least two UP26 pumps in series.
- 3. All UP26 pumps must be in the same family (e.g. all UPS26-99 or all UP26-116).

Step #3: Choose ground loop connections.

| Ground Loop Connections | | | | |
|--------------------------------|--------------|--|--|--|
| 2" | 3" | | | |
| Digit 14 = P | Digit 14 = F | | | |

NOTE: 2" ground loop connections are HDPE fusion or PVC glue; 3" ground loop connections are ANSI 4-bolt flange type.

Step #4: Create model number.

From steps 1 through 3, model number may be completed (see model nomenclature for added dashes after digits 5, 10, and 13).

^{*}Use inverted profile for heat pumps with DXM2 controls; use standard profile for heat pumps with AXB controls or 24VAC controls. Heat pumps with 24VAC controls required a controller (P/N 3697 or 3698). Variable speed pumps (options A to E) include PWM cable.

Insulated Pumps/Bracketed Pumps-Flow Centers

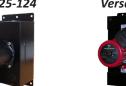
| INSULATED PUMPS | | | | | | | |
|-----------------|---|-----------|----------|-------------|--------------------------|------------------|----------------|
| PN | PUMPS | # PUMP(S) | SPEED | VOLUTE | VALVE SET- INCLUDED | CAB | INET/INSULATED |
| 1252 | UPS26-99 | 1 | THREE | CAST IRON | N/A | SHI | EET METAL/ YES |
| 1253 | UP26-116 | 1 | SINGLE | CAST IRON | N/A | SHI | EET METAL/ YES |
| 1269 | UPS26-99 115V | 1 | THREE | CAST IRON | N/A | SHI | EET METAL/ YES |
| 1285 | UPS26-99 | 1 | THREE | CAST IRON | ISO. 1"FPT X FL | SHI | EET METAL/ YES |
| 1285CV | UPS26-99 | 1 | THREE | CAST IRON | ISO. 1"FPT X FL W/CV | SHI | EET METAL/ YES |
| 1286 | UPS26-99 115V | 1 | THREE | CAST IRON | ISO. 1"FPT X FL | SHI | EET METAL/ YES |
| 1286CV | UPS26-99 115V | 1 | THREE | CAST IRON | ISO. 1"FPT X FL W/CV | SHI | EET METAL/ YES |
| 1383 | UPS26-116 | 1 | THREE | CAST IRON | ISO. 1"FPT X FL | SHI | EET METAL/ YES |
| 1384 | UPS26-99 | 1 | THREE | CAST IRON | ISO. 1"FPT X FL | SHI | EET METAL/ YES |
| FLP1A-DBC | UPS26-99 (1 PUMP, DBL CABINET) | 1 | THREE | CAST IRON | N/A | SHI | EET METAL/ YES |
| FLP1L | UPMXL 25-124 | 1 | VARIABLE | CAST IRON | N/A | SHI | EET METAL/ YES |
| FLP1L-4V | UPMXL 25-124 | 1 | VARIABLE | CAST IRON | ISO. 1"FPT X FL | SHI | EET METAL/ YES |
| FLP1N-4V | UPMXL 25-124 INV. | 1 | VARIABLE | CAST IRON | ISO. 1"FPT X FL | SHI | EET METAL/ YES |
| FLP1L-4V-CV | UPMXL 25-124 | 1 | VARIABLE | CAST IRON | ISO. 1" FPT X FL W/CV | SHI | EET METAL/ YES |
| FLP2A | UPS26-99 | 2 | THREE | CAST IRON | N/A | SH | EET METAL/YES |
| FLP2A-4V | UPS26-99 | 2 | THREE | CAST IRON | ISO. 1"FPT X FL | SHEET METAL/YES | |
| FLP2C-4V | UPS26-116 | 2 | THREE | CAST IRON | ISO. 1"FPT X FL | SHEET METAL/ YES | |
| FLP2M | UPMXL + UPS26-99(| 2 | VS/THREE | CAST IRON | N/A | SHEET METAL/YES | |
| 1360 | SuperBrute UPS60-150 | 1 | THREE | CAST IRON | N/A | SHI | EET METAL/ YES |
| FLP2A | UPS26-99 | 2 | THREE | CAST IRON | N/A | SHI | EET METAL/ YES |
| 1318 | UPS26-99 115V | 2 | THREE | CAST IRON | N/A | SHI | EET METAL/ YES |
| 1319 | VersaFlo UPS32-160 | 1 | THREE | CAST IRON | N/A REQUIRES FL XL FITT. | SHI | EET METAL/ YES |
| 1320 | VersaFlo UPS32-160 3X230 | 1 | THREE | CAST IRON | N/A REQUIRES FL XL FITT. | SHI | EET METAL/ YES |
| | BRA | CKETED P | UMPS (sh | ips disasse | mbled) | | |
| PN | PUMPS | # PUMP(S) | SPEED | VOLUTE | FLANGE SET- INCLUDED | CAB | INET/INSULATED |
| 9102-3F | UPS26-99 115V | 1 | THREE | CAST IRON | 3/4" FPT | 10 | N BRACKET/ NO |
| 9102-4F | UPS26-99 115V | 1 | THREE | CAST IRON | 1" FPT | ON BRACKET/ NO | |
| | | PUMP | MOUNTIN | G BRACKET | -S | | |
| 4244 | 4244 Single Pump mounting bracket for UP/UPS 15&26 pumps EAC | | | | | | EACH |
| 3817 | 3817 Double Pump mounting bracket for UP/UPS 15&26 pumps EACH | | | | | | EACH |
| | | UP | MXL Add- | On Kits | | | |
| PN | PUMPS | # PUMP(S) | SPEED | VOLUTE | FLANGE SET- INCLUDED | CAB | INET/INSULATED |
| | i | | | | l . , | ON BRACKET/ NO | |
| 9102-3F | UPS26-99 115V | 1 | THREE | CAST IRON | 3/4" FPT | ON | I BRACKET/ NO |

UP(S)26-99/UPS26-116



VersaFlo







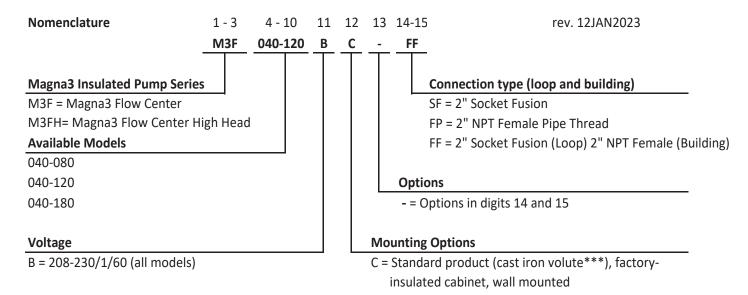






Magna3 Variable Speed Flow Centers

Our MAGNA3 variable speed (VS) flow center features the highly efficient Grundfos MAGNA3 permanent magnet ECM pump in a foam insulated housing coupled with our reliable 2", 3-way, 4-position flushing and service valve. Each M3F040-* flow center comes with a choice of 2" socket fusion or 2" FPT fittings for the ground loop and interior loop connections. This modular flow center comes with the valves separated from the insulated pump allowing the contractor the choice of where the flush valves are located with respect to the pump while separating the weight of the entire flow center to more manageable pieces.





Flow Centers-Magna3

| Part Number | Description |
|------------------|--|
| M3F040-080BC-SF | M3 FC 40-80, 208-230V, 2" HDPE SF CONNECTIONS |
| M3F040-080BC-FP | M3 FC, 40-80, 208-230V, CI, 2" FPT CONNECTIONS |
| M3F040-080BC-FF | M3 FC, 40-80, 208-230V, CI, 2" FPT BUILDING, 2" SF LOOP CONNECTIONS |
| M3F040-120BC-SF | M3 FC 40-120, 208-230V, 2" HDPE SF CONNECTIONS |
| M3F040-120BC-FP | M3 FC, 40-120, 208-230V, CI, 2" FPT CONNECTIONS |
| M3F040-120BC-FF | M3 FC, 40-120, 208-230V, CI, 2" FPT BUILDING, 2" SF LOOP CONNECTIONS |
| M3F040-180BC-SF | M3 FC, 40-180, 208-230V, CI, 2" HDPE SF CONNECTIONS |
| M3F040-180BC-FP | M3 FC, 40-180, 208-230V, CI, 2" FPT CONNECTIONS |
| M3F040-180BC-FF | M3 FC, 40-180, 208-230V, CI, 2" FPT BUILDING, 2" SF LOOP CONNECTIONS |
| M3FH040-080BC-SF | M3 FC, DOUBLE PUMP 40-080, 208-230V, CI, 2" HDPE SF |
| M3FH040-080BC-FP | M3 FC, DOUBLE PUMP 40-080, 208-230V, CI, 2" FPT |
| M3FH040-080BC-FF | M3 FC, DOUBLE PUMP 40-080, 208-230V, CI, 2" FPT BLDG, 2" SF LOOP |
| M3FH040-120BC-SF | M3 FC, DOUBLE PUMP 40-120, 208-230V, CI, 2" HDPE SF |
| M3FH040-120BC-FP | M3 FC, DOUBLE PUMP 40-120, 208-230V, CI, 2" FPT |
| M3FH040-120BC-FF | M3 FC, DOUBLE PUMP 40-120, 208-230V, CI, 2" FPT BLDG, 2" SF LOOP |
| M3FH040-180BC-SF | M3 FC, DOUBLE PUMP 40-180, 208-230V, CI, 2" HDPE SF |
| M3FH040-180BC-FP | M3 FC, DOUBLE PUMP 40-180, 208-230V, CI, 2" FPT |
| M3FH040-180BC-FF | M3 FC, DOUBLE PUMP 40-180, 208-230V, CI, 2" FPT BLDG, 2" SF LOOP |



Magna3 Flow Center with 2" socket fusion connections



Magna3 Flow Center with FPT connections



Magna3 Flow Center with 2" socket fusion loop connections and FPT building connections

Magna3 Insulated Pump Features:

- Variable speed circulator with integrated controls (ECM motor) for larger installations (models up to 300 GPM)
- Wireless communication to backup pump
- Built-in differential pressure control
- Ready for central pump, primary-secondary, or one-pipe systems
- 2", 3", and 4" connections, depending upon model
- Ball or butterfly isolation valves included (optional check valve for twopump primary/backup installation)
- Dual head models (65, 80 and 100 series)
- Foam insulated cabinet for condensation protection
- Wall mounted for space savings/floor mounting option for larger models
- BMS options (BACnet, LON, Modbus)
- Factory configurable flow direction (larger models)



Magna3 40 series Insulated Pump with 2" isolation ball valves



LEFT: Magna3 65 series Insulated Pump with 2" isolation ball valves

RIGHT: Magna3 Dual Head Insulated Pump with 3" or 4" isolation butterfly valves (65, 80, 100 series)





Nomenclature

1-3 4-10 11 12 13 14-15

M3D 065-150 B F - HR

Magna3 Insulated Pump Series

M3S = Single insulated pump

M3C = Single insul. pump w/check valve

M3D = Dual head insulated pumps

M3H = High head insul. pumps (two pumps in series)

Available Models*

| 040-080 | 065-150 |
|---------|--------------------------------------|
| 040-120 | 080-100 |
| 040-180 | 100-120 |
| 065-120 | *Not all models available in all |
| | configurations (see table, next page |

Voltage

A = 115/1/60 (up to 065-120 only)

B = 208-230/1/60 (all models)

Flow Direction (M3D, M3H only)**

HR = Horz. mounting, flow to the right

HL = Horz. mounting, flow to the left

VR = Vert. mounting, push/pull, "from loop" on the right (M3H models)

VL = Vert. mounting, push/pull, "from loop" on the left (M3H models)

Blank (M3D) = Vertical flow**

**See table on next page for available models.

Options

- -= Options in digits 14 and 15
- = No options (nothing after digit 12)

Mounting Options

- C = Standard product (cast iron volute***), factoryinsulated cabinet, wall mounted
- F = Standard product (cast iron volute***), factoryinsulated cabinet, floor mounting stand††
- ***Call for stainless steel options.
- ††Models 065 and larger only

Magna 3 Insulated Pumps-Flow Centers

| | MAGNA3 INSULATED PUMPS | | | | | | |
|---------|------------------------|------------------|-------------------------|-----------------|-----------------|------------------|--|
| | | M3S | МЗС | M3D | МЗН | | |
| | | Single Insulated | Single Insulated | Dual Head*** | High Head*** | | |
| Model | Mounting* | Pump | Pump w/Check Valve** | Insulated Pump | Insulated Pump | Field Connection | |
| 40.00 | NA/all NA accepts of | M3S040-080AC | M3C040-080AC | | M3H040-080AC | | |
| 40-80 | Wall Mounted | M3S040-080BC | M3C040-080BC | | M3H040-080BC | | |
| 40.120 | Mall Manatad | M3S040-120AC | M3C040-120AC | | M3H040-120AC | | |
| 40-120 | Wall Mounted | M3S040-120BC | M3C040-120BC | | M3H040-120BC | | |
| 40 190 | Mall Mountaid | M3S040-180AC | M3C040-180AC | | M3H040-180AC | | |
| 40-180 | Wall Mounted | M3S040-180BC | M3C040-180BC | | M3H040-180BC | 2" NPT FEMALE | |
| | Wall Mounted | M3S065-120AC | M3C065-120AC | | M3H065-120AC | 2 NPT FEIVIALE | |
| | wan wounted | M3S065-120BC | M3C065-120BC | | M3H065-120BC | | |
| 65-120 | | | | | M3H065-120BF-VL | | |
| 65-120 | Floor Mounted | | | | M3H065-120BF-VR | | |
| | | | | | M3H065-120BF-HL | | |
| | | | | | M3H065-120BF-HR | | |
| | Wall Mounted | M3S065-150BC | M3C065-150BC | M3D065-150BC | M3H065-150BC | M3S, M3C, & | |
| | | | | M3D065-150BF | M3H065-150BF-VL | M3H065-150 have | |
| 65-150 | Floor Mounted | | | | M3H065-150BF-VR | 2" NPT FEMALE | |
| | Floor Mounted | | | | M3H065-150BF-HL | M3DO65-150 have | |
| | | | | | M3H065-150BF-HR | 3" ANSI flange | |
| | Wall Mounted | M3S080-100BC | | M3D080-100BC | M3H080-100BC | | |
| | | M3S080-100BF | | M3D080-100BF | M3H080-100BF-VL | | |
| 80-100 | Floor Mounted | | | M3D080-100BF-HL | M3H080-100BF-VR | 3" ANSI flange | |
| | Floor Mounted | | | M3D080-100BF-HR | M3H080-100BF-HL | | |
| | | | | | M3H080-100BF-HR | | |
| | Wall Mounted | M3S100-120BC | | M3D100-120BC | M3H100-120BC | | |
| | | M3S100-120BF | | M3D100-120BF | M3H100-120BF-VL | | |
| 100-120 | Floor Mounted | | | M3D100-120BF-HL | M3H100-120BF-VR | 4" ANSI flange | |
| | moor wiounted | | | M3D100-120BF-HR | M3H100-120BF-HL | | |
| | | | | | M3H100-120BF-HR | | |

^{*}All insualted pumps with digit 12= "C" include isolation valves and insulated cabinets, designed for wall-mounting. Larger pumps are available with floor stand.

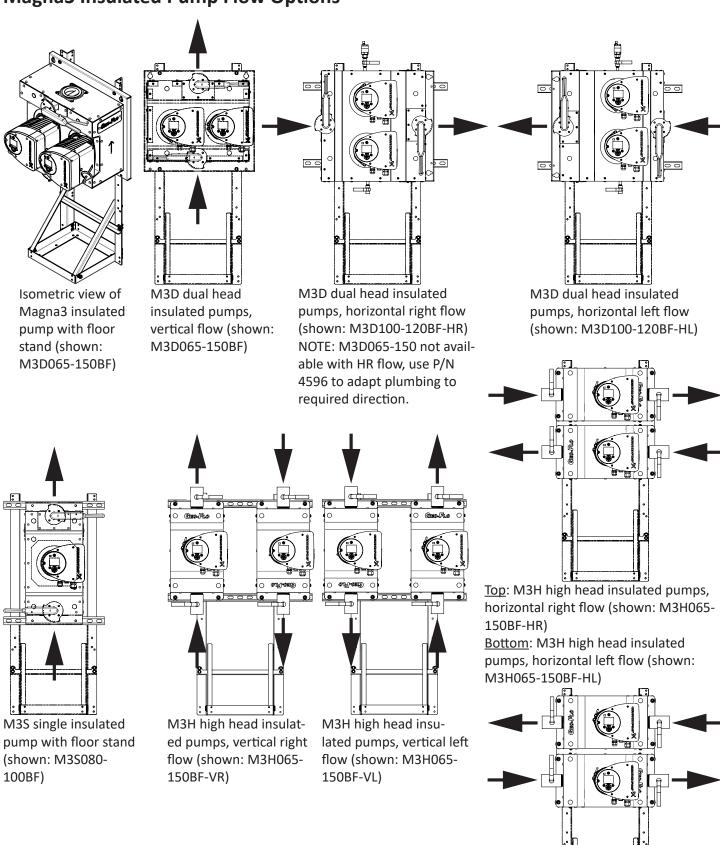
^{**}Check valve required when piping two pumps in parallel. Dual head pumps include built in check valve in volute.

^{***}M3D and M3H insulated pumps with floor stand option may be mounted vertically or horizontally.

Standard configuration for M3D is vertical. Optional configuration is horizontal (HL, HR) except M3D065-150.

M3H may be vertical (VL,VR) or horizontal (HL,HR). See flow illustrations on next page.

Magna3 Insulated Pump Flow Options



Replacement Pumps/Blank Off Plates/Repair Kits-Flow Centers

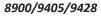
REPLACEMENT PUMPS

It is not normally practical to change the volute in a foamed-in flow center.

PNs with "NV" at the end indicates that the replacement pump is the pump head only and does not include the volute.

| head only and does not include the volute. | | | | | | | |
|---|-----------------------------|----------|----------|-----------|--|--|--|
| PN | PUMP | VOLTAGE | SPEED | VOLUTE | | | |
| 8900NV | UP26-99 | 208-230V | SINGLE | NONE | | | |
| 8900 | UP26-99F | 208-230V | SINGLE | CAST IRON | | | |
| 9425NV | UPS26-99 | 208-230V | THREE | NONE | | | |
| 9428 | UPS26-99F | 208-230V | THREE | CAST IRON | | | |
| 9405NV | UP26-116 | 208-230V | SINGLE | NONE | | | |
| 9405 | UP26-116F | 208-230V | SINGLE | CAST IRON | | | |
| 9104NV | UPS26-99 | 115V | THREE | NONE | | | |
| 9104 | UPS26-99F | 115V | THREE | CAST IRON | | | |
| 9440 | UP26-99SF | 115V | SINGLE | STAINLESS | | | |
| 9435 | UP26-116SF | 208-230V | SINGLE | STAINLESS | | | |
| 9417 | VersaFlo UPS32-160 | 230V | THREE | CAST IRON | | | |
| 9451 | UPS15-58FC | 115V | THREE | CAST IRON | | | |
| 8994 | VersaFlo UPS40-160 | 230V | THREE | CAST IRON | | | |
| 9418 | SuperBrute XL UPS60-150 | 208-230V | THREE | CAST IRON | | | |
| 9457 | UPMXL 25-124 | 208-230V | VARIABLE | CAST IRON | | | |
| 9458 | UPMXL 25-124 INV. | 208-230V | VARIABLE | CAST IRON | | | |
| 9441 | Magna3 40-80 | 208-230V | VARIABLE | CAST IRON | | | |
| 9444 | Magna3 40-120 | 208-230V | VARIABLE | CAST IRON | | | |
| 9452 | Magna3 40-180 | 115V | VARIABLE | CAST IRON | | | |
| 9432 | Magna3 40-180 | 208-230V | VARIABLE | CAST IRON | | | |
| 9449 | Magna3 65-120 | 208-230V | VARIABLE | CAST IRON | | | |
| 9433 | Magna3 65-150 | 208-230V | VARIABLE | CAST IRON | | | |
| CALL | Magna3 80-100 | 208-230V | VARIABLE | CAST IRON | | | |
| 9448 | Magna 3 100-120 | 208-230V | VARIABLE | CAST IRON | | | |
| 9462 | WILO STRATOS MAXO 1.25x3-35 | 115/230V | VARIABLE | CAST IRON | | | |
| 9463 | WILO STRATOS MAXO 1.25x3-52 | 230V | VARIABLE | CAST IRON | | | |
| 9464 | WILO STRATOS MAXO 1.5x3-52 | 230V | VARIABLE | CAST IRON | | | |
| 9465 | WILO STRATOS MAXO 2x3-35 | 230V | VARIABLE | CAST IRON | | | |
| 9466 | WILO STRATOS MAXO 2x3-50 | 115/230V | VARIABLE | CAST IRON | | | |
| 9467 | WILO STRATOS MAXO 3x3-52 | 230V | VARIABLE | CAST IRON | | | |
| 9468 | WILO STRATOS MAXO 1.25x3-30 | 230V | VARIABLE | CAST IRON | | | |
| 9469 WILO STRATOS MAXO 1.25x3-20 115/230V VARIABLE CAST | | | | | | | |
| | REPLACEMENT P | JMP-FLUS | SH CART | | | | |
| 9424 Munro 1.5 HP 115V/208- 230V SINGLE | | | | | | | |
| | REPLACEMENT PU | MP-GEO- | BOOSTER | | | | |
| 9423 Geo-Booster replacement pump | | | | | | | |
| BLANK-OFF PLATES | | | | | | | |
| 3480 Blank-off Plate Kit, Flo-Link Double O-ring flow centers | | | | | | | |
| 2470 Plank off Dista Vit. 1" EDT flow contars | | | | | | | |

Replacement pump head "NV" (No Volute) part numbers







9457/9458



9418







3479/3480



| | REPAIR KITS | | | | | | | |
|------|---|--|--|--|--|--|--|--|
| 2938 | Repair Kit, Composite Valve, Flo-Link Double O-ring | | | | | | | |
| 3518 | Repair Kit, Brass Valve, Flo-Link Double O-ring | | | | | | | |
| 3341 | Repair Kit, Brass Valve, FPT Connections | | | | | | | |
| 3519 | Repair Kit, XL Valve, Flo-Link XL Double O-ring | | | | | | | |

3341 3518 3519 2938

Blank-off Plate Kit, 1" FPT flow centers

3479

Geo-Flo hose kits significantly cut installation time by providing all of the fittings needed to connect a geothermal heat pump to a Geo-Flo flow center. Available in 3/4" to 2" sizes, as well as with Flo-Link and Flo-Link XL fittings.

| Heat Pump Connection | HOSE KITS | | | | | | |
|--|-----------------|--------------|--------|--|--|--|--|
| 1100 | Heat Pump | | | | | | |
| (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot (PN 3459) (2) Isusulating boot (PN 3459) (2) Iblow, 3/4" MPT PT Plug (PN 2143) (2) Elbow, 3/4" MPT PT Plug (PN 2143) (2) Elbow, 3/4" MPT PT Plug (PN 2146) (3) Elbow, 3/4" MPT PT Plug (PN 2433) (4) Insulating boot (PN 3459) (5) Isusulating boot (PN 3459) (6) Istalines steel hose clamps (PN 2943) (6) Istalines bear by (PN 3459) (6) Istalines steel hose steel hose barb w/ PT port (heat pump connection) (PN 3447) (6) Stainles steel hose stains (PN 2943) Notes: Kit available without hose (PN 3813) 1101CV 1101 hose kit with check valve at flow center connection (FN 3447) (6) Stainles steel hose stains (PN 2943) Notes: Kit available without hose (PN 3859) (2) Insulating boot (PN 3459) (3) Insulating boot (PN 3459) (4) Insulating boot (PN 3459) (5) Insulating boot (PN 3459) (6) Stainless steel hose clamps (PN 2943) Notes: 1. For heat pumps with 3/4" connections use swivel adapter fitting (PN 3731) 2. Kit available without hose (PN 3814) 1181CV 1181 hose kit with check valve at flow center connection (FN 3471) (8) Stainless steel hose clamps (PN 2943) Notes: 1. For heat pumps with 3/4" connections use swivel adapter fitting (PN 3731) 2. It available without hose (PN 3814) 1181CV 1181 hose kit with check valve at flow center connection (FN 2913) (2) Insulating boot (PN 3459) (3) Insulating boot (PN 3459) (4) Insulating boot (PN 3459) (5) Insulating boot (PN 3459) (6) Insulating boot (PN 3459) (7) Insul | Connection | Connection | PIN | NII CONTENTS | | | |
| 1"FPT 1101 1"FPT 1101 | <u>3/4 FPT</u> | <u>1"FPT</u> | 1100 | (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1" MPT x 1" hose barb (flow center connection) (PN 2146) (2) Elbow, 3/4" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 2265) | | | |
| Kit Contains: (1) 10 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) Insulating boot cap (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) Notes: 1. For heat pumps with 3/4" connections use swivel adapter fitting (PN 3731) 2. Kit available without hose (PN 3814) 1181CV 1181 hose kit with check valve at flow center connection Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, Flo-Link x 1" hose barb (flow center connection) (PN 2913) | | <u>1"FPT</u> | 1101 | (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1" MPT x 1" hose barb (flow center connection) (PN 2146) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) | | | |
| Flo-Link Flo-Li | .".=== | | 1101CV | 1101 hose kit with check valve at flow center connection | | | |
| Flo-Link Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, Flo-Link x 1" hose barb w/ PT port (heat pump connection) (PN 3263) | | Flo-I ink | | (1) 10 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) Notes: 1. For heat pumps with 3/4" connections use swivel adapter fitting (PN 3731) 2. Kit available without hose (PN 3814) | | | |
| (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, Flo-Link x 1" hose barb w/ PT port (heat pump connection) (PN 3263) | | | 1191CA | | | | |
| | <u>Flo-Link</u> | 1 | 1354 | (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, Flo-Link x 1" hose barb w/ PT port (heat pump connection) (PN 3263) | | | |
| 1354CV 1354 hose kit with check valve at flow center connection | | | 1354CV | 1354 hose kit with check valve at flow center connection | | | |

Hose Kits

| Heat Pump | Flow Center | PN | KIT CONTENTS |
|--------------------------------------|-------------------|------|---|
| Connection | Connection | | |
| <u>1" FPT or</u> <u>1" Swivel</u> | <u>Flo-Link</u> | 1347 | Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (3) Insulating boot (PN 3459) (3) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1/4" brass plug (PN 3711) (1) Flo-Link x 1" hose barb (flow center connection) (PN 3384) (1) Flo-Link elbow x 1" hose barb (flow center connection) (PN 3262) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) Notes: Compatible with NP Plus flow centers and heat pumps with 1" FPT connections |
| <u>Flo-Link</u> | <u>Flo-Link</u> | 1346 | Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (3) Insulating boot (PN 3459) (3) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1/4" brass plug (PN 3711) (1) Flo-Link x 1" hose barb (flow center connection) (PN 3384) (1) Flo-Link elbow x 1" hose barb (flow center connection) (PN 3362) (2) Elbow, Flo-Link x 1" hose barb w/ PT port (heat pump connection) (PN 3263) (8) Stainless steel hose clamps (PN 2943) Notes: Compatible with NP Plus flow centers and heat pumps with Flo-Link double O-ring connections. |
| <u>1" FPT or</u> | PE FUSION | 1263 | Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" PE Fusion x 1" hose barb (flow center connection) (PN 3665) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) |
| <u>1" Swivel</u> | <u>1-1/4" PVC</u> | 1291 | Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" PVC socket x 1" hose barb (flow center connection) (PN 3831) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) |

| | <u>1" MPT</u> | 1280 | Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1/4" brass plug (PN 3711) (2) 1" MPT x 1" hose barb w/ PT port (flow center connection) (PN 3929) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) |
|--------------------------------------|--------------------|------|--|
| <u>1" FPT or</u> <u>1" Swivel</u> | <u>Flo-Link</u> | 1281 | (8) Stainless steel hose clamps (PN 2943) Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" HB w/ PT port w/ 1/4" brass plug (flow center connection) (PN 3385) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) |
| | 1-1/4" PE W/VALVES | 1337 | (8) Stainless steel hose clamps (PN 2943) Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" PE x 1" hose barb with iso. valve (flow center connection) (PN 4580) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) |

| | <u>1-1/4" FPT</u> | 1251 | Kit Contains: (1) 12 ft. 1-1/4" ID black hose (PN 3559) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" MPT x 1-1/4" HB (flow center connection) (PN 3557) (2) Elbow, 1-1/4" MPT x 1-1/4" hose barb w/ PT port (heat pump connection) (PN 3556) (8) Stainless steel hose clamps (PN 4524) |
|-------------------|-------------------|------|---|
| <u>1-1/4" FPT</u> | <u>Flo-Link</u> | 1385 | Kit Contains: (1) 12 ft. 1-1/4" ID black hose (PN 3559) (2) 1/4" MPT PT plug (PN 2143) (2) Flo-Link x 1-1/4" HB (flow center connection) (PN 2942) (2) Elbow, 1-1/4" MPT x 1-1/4" hose barb w/ PT port (heat pump connection) (PN 3556) (8) Stainless steel hose clamps (PN 4524) |
| | Flo-Link XL | 1261 | Kit Contains: (2) 8 ft. 1-1/4" ID black hose (PN 3559) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link XL x 1-1/4" HB (flow center connection) (PN 3652) (2) Elbow, 1-1/4" MPT x 1-1/4" hose barb w/ PT port (heat pump connection) (PN 3556) (8) Stainless steel hose clamps (PN 4524) Notes: Compatible with SuperBrute XL, VersaFlo, and Magna3 flow centers |

Bulk Hose and Clamps

| Heat Pump Connection | Flow Center Connection | PN | KIT CONTENTS |
|-------------------------|---------------------------|------|---|
| | <u>Flo-Link XL</u> | 3477 | Kit Contains: (2) 8 ft. 2" ID black hose (PN 3418) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link XL x 2" hose barb (flow center connection) (PN 3397) (2) Elbow, 2" MPT x 2" hose barb w/ PT port (heat pump connection) (PN 3449) (10) Stainless steel hose clamps (PN 3417) Notes: Compatible with SuperBrute XL, VersaFlo, and Magna3 flow centers |
| | | | 3477 hose kit with check valve at flow center connection 3477 hose kit with 2" MPT at flow center connection |
| <u>2" FPT</u> | <u>Flo-Link XL</u> | 3478 | Kit Contains: (2) 8 ft. 2" ID wire-reinforced hose (PN 3418) (2) 1/4" MPT PT Plug (PN 2143) (1) Flo-Link XL x 2" hose barb (flow center connection) (PN 3475) (1) Flo-Link XL x 2" MPT (flow center to strainer connection) (PN 3476) (1) 2" Wye strainer (PN 3462) (1) 2" MPT x 2" hose barb (PN 3416) (2) Elbow, 2" MPT x 2" hose barb w/ PT port (heat pump connection) (PN 3449) (8) Stainless steel hose clamps (PN 3417) Notes: Compatible with SuperBrute XL, VersaFlo, and Magna3 flow centers |

| BULK HOSE | | | | | |
|--------------------|--|--------------|--|--|--|
| <u>Part Number</u> | <u>Description</u> | <u>U.O.M</u> | | | |
| 2945 | 1" ID Black 150 psi hose, 10 ft. length | LENGTH | | | |
| 2950 | 1" ID Black 150 psi hose, 12 ft. length | LENGTH | | | |
| 3216 | 1" ID Black 150 psi hose, 50 ft. length | LENGTH | | | |
| 3418 | 2" ID Black 200 psi hose, 8 ft. length | LENGTH | | | |
| 2139 | 1" ID Black 150 psi hose, 450 ft. roll | ROLL | | | |
| 3559 | 1-1/4" ID Black 150 psi hose, 400 ft. roll | ROLL | | | |
| 4499 | 1" ID Red 200 psi hose, 450 ft. roll | ROLL/LENGTH | | | |
| 4519 | 1-1/4" ID Red 200 psi hose, 400 ft. roll | ROLL/ LENGTH | | | |



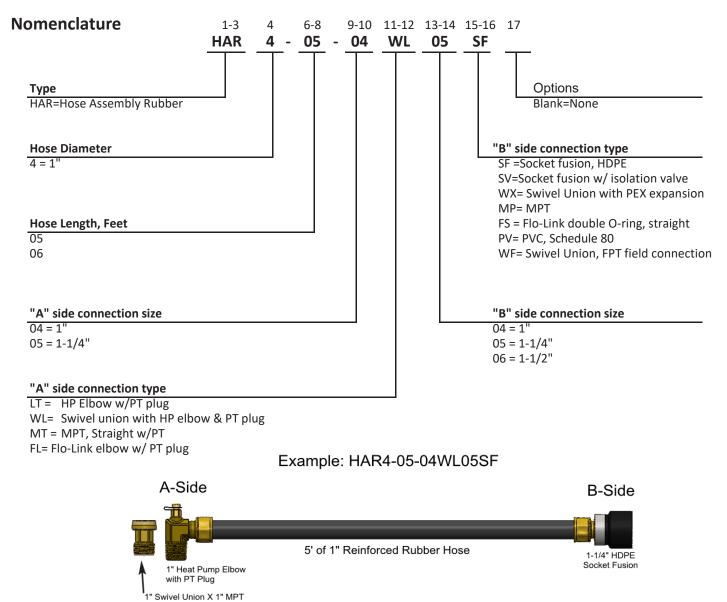
| | | HOSE CLAMPS (STAINLESS STEEL) | |
|-----------|------|-------------------------------|------|
| | 3540 | SIZE 06 (5/16"-7/8") | EACH |
| STAINLESS | 2943 | SIZE 20 (3/4"-1-3/4") | EACH |
| STEEL | 3558 | SIZE 28 (1-1/4"-2-1/4") | EACH |
| | 3417 | SIZE 40 (2"-3") | EACH |



Pre-assembled hose kits are the fast and professional way to provide a flexible connection between a geothermal heat pump and flow center or any other piping connection. The assemblies consist of reinforced rubber hose with factory crimped brass ferrules on your choice of adapter fittings. These assemblies are similar to stainless steel hose kits used in commercial applications without the high cost and additional stiffness.

| ASSEMBLED HOSE KITS | | | | | | |
|---------------------|---------------|-------------|----------------|------------------------------|----------------|-----------------------------|
| Part | Hose | Hose length | "A" Connection | "A" Connection | "B" Connection | "B" Connection |
| Number | Diameter (in) | (ft) | Size | Туре | Size | Туре |
| HAR4-05-04LT04MP | | | | | 1" | MPT |
| HAR4-05-04LT06WX | | | | HP Elbow w/PT plug | 1-1/2" | Swivel Union w/Pex |
| HAR4-05-04WL05SF | | | | | 1-1/4" | Socket Fusion, HDPE |
| HAR4-05-04WL05SV | 1" | 5′ | 1" | | 1-1/4" | Socket Fusion w/ iso. Valve |
| HAR4-05-04WL06SF | | | | Swivel union w/HP elbow & | 1-1/2" | Socket Fusion, HDPE |
| HAR4-05-04WL06SV | | | | PT plug | 1-1/2" | Socket Fusion w/ iso. Valve |
| HAR4-05-04WL06WX | | | | | 1-1/2" | Swivel Union w/Pex |

NOTE: Not all options are available. Call for items not specifically listed.



Flo-Link™-Fittings

| FLO-LINK FITTINGS | | | | | |
|-------------------|--|---------|----------|--|--|
| PN | DESCRIPTION | U.O.M. | MATERIAL | | |
| 2913 | FL X 1" HOSE BARB | SET | | | |
| 3490 | FL X 1" HOSE BARB W/CHECK VALVE | SET | | | |
| 3490-HALF | FL X 1" HOSE BARB W/CHECK VALVE | EACH | | | |
| 3385 | FL X 1" HOSE BARB W/1/4" FPT PORT | SET | | | |
| 2942 | FL X 1-1/4" HOSE BARB | SET | | | |
| 3769 | FL X 1-1/4" HOSE BARB W/1/4" FPT PORT | SET | | | |
| 3072 | FL X 1" MPT | SET | | | |
| 3389 | FL X 1" MPT W/1/4" FPT PORT | SET | | | |
| 3498 | FL (FEMALE) X 1" MPT | SET | | | |
| 3326 | FL X 1" FPT | SET | | | |
| 3471 | FL (FEMALE) X 1" MPT | EACH | DDACC | | |
| 4143 | FL X 1" FPT W/CHECK VALVE | SET | BRASS | | |
| 4143-HALF | FL X 1" FPT W/CHECK VALVE | EACH | | | |
| 3885 | FL X 1-1/4" FPT | SET | | | |
| 3144 | FL X 1-1/8" SWEAT W/1/4" FPT PORT* | SET | | | |
| 4720 | FL X 1-1/2" PEX EXP | SET | | | |
| 2914 | FL X MALE CAM ADAPTER | SET | | | |
| 3203 | FL X MALE GARDEN HOSE ADAPTER | SET | | | |
| 4742 | FL X FL COUPLER | EACH | | | |
| 3248 | FL X FEMALE GARDEN HOSE ADAPTER | SET | | | |
| 3263 | FL ELBOW X 1" HOSE BARB W/1/4" FPT PORT* | SET | | | |
| 3255 | FL ELBOW X 1" MPT W/1/4" FPT PORT* | SET | | | |
| 3433 | FL Coupler | EACH | | | |
| 3924 | FL ELBOW X 1" PE FUSION W/1/4" FPT PORT* | SET | | | |
| 3096 | FL X 3/4" PE SOCKET FUSION | SET | | | |
| 2912 | FL X 1" PE PE SOCKET FUSION | SET | | | |
| 2911 | FL X 1-1/4" PE SOCKET FUSION | SET | HDPE | | |
| 2911-10X | FL X 1-1/4" PE SOCKET FUSION BULK PACK | 10 SETS | | | |
| 3917 | FL X 1-1/4" PE PIPE | SET | | | |
| 3243 | FL X 40MM PIPE | SET | | | |
| 3425 | FL X 1-1/4" PVC SOCKET | SET | PVC | | |

Flo-Link fittings provide a reliable way to connect Flo-Link double O-ring flow centers and heat pumps. The fittings are simply inserted into the female port and secured by hand-tightening the nut. These fittings are available in a variety of materials and styles to allow connection to any type of hose or pipe.

*PT Plug Not Included



Flo-Link XL fittings provide a reliable way to connect Flo-Link XL double O-ring products including SuperBrute XL, VersaFlo, and Magna3 insulated pumps and flow centers. The fittings are simply inserted into the female port and secured by hand-tightening the nut. These fittings are available in a variety of materials and styles to allow connection to any type of hose or pipe.

| | FLO-LINK XL FITTINGS | | | | | |
|------|---------------------------------------|--------|-----------|--|--|--|
| PN | DESCRIPTION | U.O.M. | MATERIAL | | | |
| 3652 | FL XL X 1-1/4" HOSE BARB | SET | | | | |
| 3397 | FL XL X 2" HOSE BARB | SET | | | | |
| 3655 | FL XL X 1-1/4" MPT | SET | DDACC | | | |
| 3476 | FL XL X 2" MPT | EACH | BRASS | | | |
| 3318 | FL XL X 2" FPT | SET | | | | |
| 3395 | FL XL X 2" SWEAT | SET | | | | |
| 3380 | FL XL X 1" CAM | SET | | | | |
| 3486 | FL XL X 1-1/2" CAM | SET | ALUMINIUM | | | |
| 3485 | FL XL X 1" FEMALE GARDEN HOSE ADAPTER | SET | | | | |
| 3463 | FL XL X 1-1/4" PE SOCKET FUSION | SET | | | | |
| 3464 | FL XL X 1-1/2" PE SOCKET FUSION | SET | LIDDE | | | |
| 3465 | FL XL X 2" PE SOCKET FUSION SET | | | | | |
| 4772 | FL XL X FL XL | EACH | | | | |



| | | ALL FITTINGS | |] |
|--------------|---------------------|--|--------|----|
| MATERIAL | PN | DESCRIPTION | U.O.M. | |
| | | HOSE BARB (HB) | | |
| | Flo-Link (FL) | | | ĺ |
| | 2913 | FL X 1" HB | SET | 1 |
| | 3490 | FL X 1" HB W/CHECK VALVE | SET | 1 |
| | 3385 | FL X 1" HB W/1/4" FPT PORT | SET | 1 |
| DDACC | 2942 | FL X 1-1/4" HB | SET | 1 |
| BRASS | 3769 | FL X 1-1/4" HB W/ PT PORT | SET | 1 |
| | Flo-Link XL (FL XL) | | | |
| | 3652 | FL XL X 1-1/4" HB | SET |] |
| | 3397 | FL XL X 2" HB | SET | 1 |
| | Hose Barb | | | |
| BRONZE | 4738 | 1" HB X 1-1/4" HB | EACH | 1 |
| | MPT | | | |
| BRASS | 4310 | 3/4" MPT X 3/4" HB | EACH | 1 |
| BRONZE | 4739 | 3/4" MPT X 1" HB | EACH | 1 |
| | 2146 | 1" MPT X 1" HB | EACH | 1 |
| | 3929 | 1" MPT X 1" HB W/1/4" FPT PORT | EACH | 1 |
| | 4505 | 1" MPT X 1" HB W/CHECK VALVE | EACH | 1 |
| BRASS | 2147 | 1" MPT X 1-1/4" HB | EACH | 1 |
| | 3557 | 1-1/4" MPT X 1-1/4" HB | EACH | 1 |
| | 4514 | 1-1/4" MPT X 1-1/4" HB W/ CHECK VALVE | EACH | 1 |
| | 3416 | 2" MPT X 2" HB | EACH | 1 |
| | PVC | | | |
| PVC | 3831 | 1-1/4" PVC Glue X 1" HB | SET | 1 |
| | | MPT | | 1 |
| | Flo-Link (FL) | <u></u> | | ı |
| | 3072 | FL X 1" MPT | SET | 1 |
| | 3389 | FL X 1" MPT W/1/4" FPT PORT | SET | 1 |
| | 3498 | FL (FEMALE) X 1" MPT | SET | 1 |
| | Flo-Link XL (FL XL) | | | ĺ |
| | 3655 | FL XL X 1-1/4" MPT | SET | 1 |
| | 3476 | FL XL X 2" MPT | EACH | 1 |
| BRASS | SWIVEL | | | ١. |
| 2 | 3731 | 1" SWIVEL X 3/4" MPT | SET | 1 |
| | 3732 | 1" SWIVEL X 1" MPT | SET | 1 |
| | 3726 | 1-1/4" SWIVEL X 1-1/4" MPT | SET | 1 |
| | 3771 | 1-1/4" SWIVEL X 1-1/4" MPT | EACH | 1 |
| | 4323 | 1-1/4" SWIVEL X 1" MPT | SET | 1 |
| | 4544 | 1" SWIVEL X 1/2" MPT | SET | 1 |
| | 1 -344 | WATER HEATER ADAPTERS | 1 351 | 1 |
| BRASS | 3721 | 1" Straight Mechanical Thread X 1" Female SWIVEL | SET | 1 |
| סנאום | CAM | 1 Straight Mechanical Hileau VI Fellidie SWIVEL |] JEI | |
| ATTINATION A | | 1" CAM X 1" MPT -Note: For Flushing | EACH | 4 |
| ALUMINUM | 3666 | T CAIVI A I IVIPT -NOTE: FOT FIUSTIING | EACH | J |

Flo-Link X Hose Barb



Flo-Link XL X Hose Barb





MPT X Hose Barb



PVC Glue X Hose Barb





Flo-Link X MPT



Swivel X MPT





CAM X MPT



| | | <u>FPT</u> | |
|--------------|---------------------|---|-------|
| | Flo-Link (FL) | | |
| | 3326 | FL X 1" FPT | SET |
| | 4143 | FL X 1" FPT W/CHECK VALVE | SET |
| BRASS | 3885 | FL X 1-1/4" FPT | SET |
| | Flo-Link XL (FL XL) | | |
| | 3318 | FL XL X 2" FPT | SET |
| | | <u>SWEAT</u> | |
| | Flo-Link (FL) | | |
| | 3144 | FL X 1-1/8" SWEAT W/1/4" FPT PORT | SET |
| | Flo-Link XL (FL XL) | | |
| DDACC | 3395 | FL XL X 2" SWEAT | SET |
| BRASS | SWIVEL | | |
| | 3844 | 1" SWIVEL X 7/8" SWEAT | SET |
| | 3845 | 1" SWIVEL X 1-1/8" SWEAT | SET |
| | | <u>CAM</u> | |
| | Flo-Link (FL) | | |
| HDPE | 2914 | FL X MALE CAM ADAPTER | SET |
| | Flo-Link XL (FL XL) | | |
| ALUMINUM | 3380 | FL XL X 1" CAM | SET |
| ALOIVIINOIVI | 3486 | FL XL X 1-1/2" CAM | SET |
| | | GARDEN HOSE | |
| | Flo-Link (FL) | | |
| | 3203 | FL X MALE GARDEN HOSE ADAPTER | SET |
| BRASS | 3248 | FL X FEMALE GARDEN HOSE ADAPTER | SET |
| BRA33 | Flo-Link XL (FL XL) | | |
| | 3485 | FL XL X 1" FEMALE GARDEN HOSE ADAPTER | SET |
| | | <u>ELBOWS</u> | |
| | | PT PLUGS | |
| | 2143 | 1/4" PT PLUG | EACH |
| BRASS | 2144 | 1/2" PT PLUG | EACH |
| DNASS | 3711 | 1/4" PLUG | EACH |
| | | Note: Use w/ FL or threaded fittings that have a 1/4" FPT port, where a PT plug is not ne | eded. |



Elbows-Fittings

| | Flo-Link (FL) | | |
|----------|---------------|---|------|
| DDACC | 3263 | FL ELBOW X 1" HB W/1/4" FPT PORT | SET |
| BRASS | 3255 | FL ELBOW X 1" MPT W/1/4" FPT PORT | SET |
| PE/BRASS | 3924 | FL ELBOW X 1" PE FUSION W/1/4" FPT PORT | SET |
| | MPT | | |
| | 4309 | 3/4" MPT X 3/4" HB W/1/4" FPT PORT | EACH |
| | 2265 | 3/4" MPT X 1" HB W/1/4" FPT PORT | EACH |
| | 3447 | 1" MPT X 1" HB W/1/4" FPT PORT | EACH |
| | 3481 | 1" MPT X 1" FPT W/1/4" PT PLUGS | SET |
| | 3448 | 1" MPT X 1" FPT W/ PT PORT | EACH |
| BRASS | 3556 | 1-1/4" MPT X 1-1/4" HB W/1/4" FPT PORT | EACH |
| | 3660 | 1-1/4" MPT X 1-1/4" HB W/1/4" PT PLUGS | SET |
| | 3500 | 1-1/4" MPT X 1-1/4" FPT W/1/4" FPT PORT | SET |
| | 3499 | 1-1/4" MPT X 1-1/4" FPT W/1/4" FPT PORT | EACH |
| | 3449 | 2" MPT X 2" HB W/1/4" FPT PORT | EACH |
| | 3482 | 2" MPT X 2" HB W/1/4" PT PLUGS | SET |
| FOAM | 3461 | INSULATING BOOT SET FOR 1" ELBOWS | SET |













3461

2265/3447/3449/3556/4309



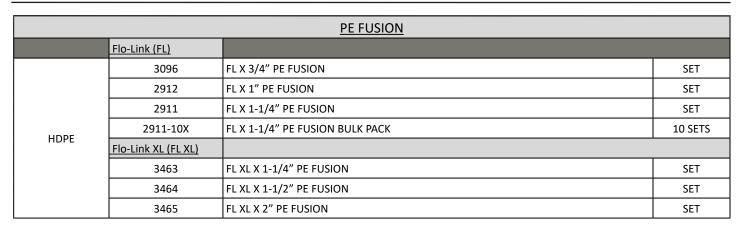












| | | PE FUSION ADAPTERS | |
|--------------|------------|--|------|
| | HOSE BARB | | |
| | PFA34HB | 3/4" SOCKET FUSION X 1" HB | EACH |
| 11005/00466 | PFA44HB | 1" SOCKET FUSION X 1" HB | EACH |
| HDPE/BRASS | PFA54HB | 1-1/4" SOCKET FUSION X 1" HB | EACH |
| | PFA64HB | 1-1/2" SOCKET FUSION X 1" HB | EACH |
| | <u>MPT</u> | | |
| | PFA33M | 3/4" SOCKET FUSION X 3/4" MPT | EACH |
| | PFLA33M | ELBOW, 3/4" SOCKET FUSION X 3/4" MPT | EACH |
| | PFA34M | 3/4" SOCKET FUSION X 1" MPT | EACH |
| | PFLA34M | ELBOW, 3/4" SOCKET FUSION X 1" MPT | EACH |
| | PFA44M | 1" SOCKET FUSION X 1" MPT | EACH |
| LIDDE (DDACC | PFA53M | 1-1/4" SOCKET FUSION X 3/4" MPT | EACH |
| HDPE/BRASS | PFA54M | 1-1/4" SOCKET FUSION X 1" MPT | EACH |
| | PFA54M-CV | 1-1/4" SOCKET FUSION X 1" MPT W/ CHECK VALVE | EACH |
| | PFA55M | 1-1/4" SOCKET FUSION X 1-1/4" MPT | EACH |
| | PFA64M | 1-1/2" SOCKET FUSION X 1" MPT | EACH |
| | PFA66M | 1-1/2" SOCKET FUSION X 1-1/2" MPT | EACH |
| | PFA88M | 2" SOCKET FUSION X 2" MPT | EACH |
| | <u>FPT</u> | | |
| | PFA31F | 3/4" SOCKET FUSION X 1/4" FPT | EACH |
| LIDDE (DDACC | PFA32F | 3/4" SOCKET FUSION X 1/2" FPT | EACH |
| HDPE/BRASS | PFLA33F | ELBOW, 3/4" SOCKET FUSION X 3/4" FPT | EACH |
| | PFA88F | 2" SOCKET FUSION X 2" FPT | EACH |
| | | PE FUSION ADAPTERS TEES | |
| | PFTA332F | 3/4" FUSION X 3/4" FUSION X 1/2" FPT | EACH |
| | PFTA442F | 1" FUSION X 1" FUSION X 1/2" FPT | EACH |
| | PFTA4MS2F4 | 1" MPS X 1/2" FPT X 1" FUSION | EACH |
| | PFTA4MS32F | 1" MPT X 3/4" FUSION X 1/2" FPT | EACH |
| HDPE/BRASS | PFTA4MS42F | 1" MPT X 1" FUSION X 1/2" FPT | EACH |
| | PFTA551F | 1-1/4" FUSION X 1-1/4" FUSION X 1/4" FPT | EACH |
| | PFTA881F | 2" FUSION X 2" FUSION X 1/4" FPT | EACH |
| | PFTA854M | 2" FUSION X 1-1/4" FUSION X 1" MPT | EACH |
| | PFTA884M | 2" FUSION X 2" FUSION X 1" MPT | EACH |

Socket Fusion X Hose Barb



Socket Fusion X MPT



Fusion Adapter Tee



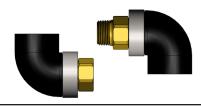
Socket Fusion X Flo-Link



Socket Fusion X FPT



Socket Fusion Elbows



PE Fusion/Elbows-Fittings

| | FUSION COUPLINGS | | | | |
|-------|--------------------|----------------------------------|------|--|--|
| | PFC33 | 3/4" X 3/4" | EACH | | |
| | PFC43 | 1" X 3/4" | EACH | | |
| | PFC44 | 1" X 1" | EACH | | |
| | PFC53 | 1-1/4" X 3/4" | EACH | | |
| | PFC54 | 1-1/4" X 1" | EACH | | |
| | PFC55 | 1-1/4" X 1-1/4" | EACH | | |
| | PFC64 | 1-1/2" X 1" | EACH | | |
| HDPE | PFC65 | 1-1/2" X 1-1/4" | EACH | | |
| | PFC66 | 1-1/2" X 1-1/2" | EACH | | |
| | PFC84 | 2" X 1" | EACH | | |
| | PFC85 | 2" X 1-1/4" | EACH | | |
| | PFC86 | 2" X 1-1/2" | EACH | | |
| | PFC88 | 2" X 2" | EACH | | |
| | 3895 | BUTT FUSION REDUCER, 3" X 2" IPS | EACH | | |
| | 4254 | BUTT FUSION REDUCER, 4" X 3" IPS | EACH | | |
| | | <u>FUSION ELBOWS</u> | | | |
| | PFL33 | 3/4" X 3/4" | EACH | | |
| | PFL33S | 3/4" X 3/4" STREET | EACH | | |
| | PFL43 | 1" X 3/4" | EACH | | |
| | PFL44 | 1" X 1" | EACH | | |
| | PFL44-45 | 1" X 1" 45° | EACH | | |
| | PFL44S | 1" X 1" STREET | EACH | | |
| LIDDE | PFL53 | 1-1/4" X 3/4" | EACH | | |
| HDPE | PFL54 | 1-1/4" X 1" | EACH | | |
| | PFL55 | 1-1/4" X 1-1/4" | EACH | | |
| | PFL55-45 | 1-1/4" X 1-1/4" 45° | EACH | | |
| | PFL55S | 1-1/4" X 1-1/4" STREET | EACH | | |
| | PFL66 | 1-1/2" X 1-1/2" | EACH | | |
| | PFL66-45 | 1-1/2" X 1-1/2" 45° | EACH | | |
| | PFL88 | 2" X 2" | EACH | | |
| | <u>FUSION CAPS</u> | | | | |
| | PFP3 | 3/4" | EACH | | |
| | PFP4 | 1" | EACH | | |
| HDPE | PFP5 | 1-1/4" | EACH | | |
| | PFP6 | 1-1/2" | EACH | | |
| | PFP8 | 2" | EACH | | |

Fusion Coupling

Fusion Caps

Fusion Elbow, Street

Fusion Elbow









| FUSION TEES | | | |
|-------------|---------------|--|---------|
| | PFT333 | 3/4" X 3/4" X 3/4" | EACH |
| | PFT444 | 1" X 1" X 1" | EACH |
| | PFT533 | 1-1/4" X 3/4" X 3/4" | EACH |
| | PFT544 | 1-1/4" X 1" X 1" | EACH |
| | PFT553 | 1-1/4" X 1-1/4" X 3/4" | EACH |
| | PFT554 | 1-1/4" X 1-1/4" X 1" | EACH |
| | PFT555 | 1-1/4" X 1-1/4" X 1-1/4" | EACH |
| | PFT664 | 1-1/2" X 1-1/2" X 1" | EACH |
| HDPE | PFT666 | 1-1/2" X 1-1/2" X 1-1/2" | EACH |
| | PFT853 | 2" X 1-1/4" X 3/4" | EACH |
| | PFT854 | 2" X 1-1/4" X 1" | EACH |
| | PFT855 | 2" X 1-1/4" X 1-1/4" | EACH |
| | PFT864 | 2" X 1-1/2" X 1" | EACH |
| | PFT883 | 2" X 2" X 3/4" | EACH |
| | PFT884 | 2" X 2" X 1" | EACH |
| | PFT885 | 2" X 2" X 1-1/4" | EACH |
| | PFT888 | 2" X 2" X 2" | EACH |
| | | PRE-ASSEMBLED FUSION HEADERS | |
| | PH53X3 | 1-1/4" X (3) 3/4" circuits | EACH |
| HDPE | PH54X3 | 1-1/4" X (4) 3/4" circuits | EACH |
| ПОРЕ | PH55X3 | 1-1/4" X (5) 3/4" circuits | EACH |
| | PH56X3 | 1-1/4" X (6) 3/4" circuits | EACH |
| | | <u>PE PIPE</u> | |
| | Flo-Link (FL) | | _ |
| HDPE | 3917 | FL X 1-1/4" PE PIPE | SET |
| | | <u>PVC</u> | |
| | Flo-Link (FL) | | |
| PVC | 3425 | FL X 1-1/4" PVC GLUE | SET |
| FVC | 3425-10X | FL X 1-1/4" PVC GLUE BULK PACK | 10 SETS |
| | | COMPRESSION FITTINGS | |
| HDPE | PCA55F | 1-1/4" Compression X 1-1/4" FPT | EACH |
| HDPE/PVC | PCC55PVC | 1-1/4" HDPE Compression X 1-1/4" PVC Compression | EACH |

Pre-Assembled Fusion Headers



Fusion Tees



Compression Fittings



| VALVES | | | | |
|------------------------------|--------------------|--|--|--|
| BRASS, FULL PORT BALL VALVES | | | | |
| | 3543 | 1/4" FPT X 1/4" FPT | | |
| | 4848 | 1/4" FPT X 1/4" MPT | | |
| | 3705 | 1/2" FPT X 1/2" MPT | | |
| | 4312 | 3/4" FPT X 3/4" MPT | | |
| | 3968 | 1" FPT X 1" FPT | | |
| | 3786 | 1" FPT X 1" MPT | | |
| | 3787 | 1-1/4" FPT X 1-1/4" MPT | | |
| | 3576 | 1-1/2" FPT X 1-1/2" FPT | | |
| | 3706 | 1-1/2" FPT X 1-1/2" MPT | | |
| | 3575 | 2" FPT X 2" FPT | | |
| | 3707 | 2" FPT X 2" MPT | | |
| | 4676 | 1" FPT X 1" CAM | | |
| | 4016 | 2" ISOLATION W/CHECK, 2" FPT X FLO-LINK XL | | |
| | 4580 | VALVE, 1" FULL PORT, 1-1/4" SOCKET FUSION X 1" HOSE BARB | | |
| | | <u>FUSION BALL VALVES</u> | | |
| | PFV33 | 3/4" X 3/4" | | |
| | PFV44 | 1" X 1" | | |
| | PFV55 | 1-1/4" X 1-1/4" | | |
| | PFV88 | 2" X 2" | | |
| | PFV55U | 1-1/4" X 1-1/4", true union | | |
| | PFV88U | 2" X 2", true union | | |
| | | BUTTERFLY VALVES | | |
| | 3919 | Valve, Butterfly, 3" flange, CI Body, Al Brnz Disc, NBR Seat | | |
| | 3925 | Valve, Butterfly, 4" flange, CI Body, Al Brnz Disc, NBR Seat | | |
| | Note: Valve design | n eliminates the need for a gasket | | |
| | CHECK VALVES | | | |
| | 3918 | Check Valve, 2" FPT, Spring, Brass, NBR Seat | | |
| | 3490 | Fitting set, FL X 1" HB w/check valve | | |
| | 4143 | Fitting set, FL X 1" FPT w/ check valve | | |
| | 4505 | Fitting, 1" MPT X 1" HB w/ Check Valve | | |
| | 5185 | Fitting, 1" HB x 1" HB w/ check valve | | |
| | PFA54M-CV | Fusion adapter (each), 1-1/4" SF X 1" MPT w/ check valve | | |

Brass Ball Valves



3490



4143



PFV88



Butterfly Valves



| STAINLESS FULL PORT BALL VALVES AND ASSEMBLIES | | | |
|--|--|--|--|
| BV4-4H4H-SS | VALVE, 1" FULL PORT, 1" HB X 1" HB, STAINLESS | | |
| BV5-5H5H-SS | VALVE, 1-1/4" FULL PORT, 1-1/4" HB X 1-1/4" HB, STAINLESS | | |
| BV4-PF-4B4B-SS | VALVE, 1" STAINLESS, POLY FUSION 1" X 1" PE PIPE | | |
| BV5-PF-5B5B-SS | VALVE, 1-1/4" STAINLESS, POLY FUSION 1-1/4" X 1-1/4" PE PIPE | | |
| BV4-PF-4S4S-SS | VALVE, 1" STAINLESS, POLY FUSION 1" SOCKET FUSION X 1" SOCKET FUSION | | |
| BV5-PF-5S5S-SS | VALVE, 1-1/4" STAINLESS, POLY FUSION 1-1/4" SOCKET FUSION X 1-1/4" SOCKET FUSION | | |



| FLO-LINK ISOLATION VALVES | | | |
|---------------------------|------|--|---|
| | 3790 | FL X 1" FPT | 3790: 1" FPT |
| | 4144 | FL X 1" FPT W/CHECK VALVE (SINGLE ASSEMBLY) | 4066: 1" FPT w/chk vlv - 3875: 1¼" FPT |
| | 4066 | FL X 1" FPT W/CHECK VALVE (SET) | -3875: 1% FP1 |
| | 3875 | FL X 1-1/4" FPT | |
| SETS | 3792 | FL XL X 2" FPT | |
| | 2534 | 1" FPT Isolation Valve, Standard Port, no handle | |
| | 2535 | 1-1/4" FPT Isolation Valve, Standard Port, no handle | |
| | 2270 | 1" FPT Isolation Valve, Flanged, Full Port | |
| | 4500 | Valve, Flange X 1" FPT, Brass | |
| DUAL UNIT | 3970 | FL Dual Unit Connection Kit | • |
| CONNECTION KITS | 4243 | FL XL Dual Unit Connection Kit | |
| | | FLANGE ADAPTERS | |
| SETS | 2135 | 1" FPT, Cast Iron, Black | |
| 3E13 | 2238 | 1-1/4" FPT, Cast Iron, Black | |
| | 3494 | 1-1/4" SWT, UP15&UP26 | |
| | 3495 | 1-1/2" SWT, UP15&UP26 | |
| KITS | 3445 | 1-1/2" SWT, UPS40 | |
| | 3446 | 2" SWT, UPS40 | |
| | 3528 | 1" FPT, Cast Iron, Wilo | |
| | 3893 | 2" flange x 2" IPS DR11 HDPE pipe* | |
| FUSION | 3896 | 3" flange x 3" IPS DR11 HDPE pipe* | |
| | 4252 | 4" flange x 4" IPS DR11 HDPE pipe* | |
| | | *Requires backup ring and gasket/hardware ki | t |
| | 3894 | Back up ring for 2" flange (3893) | |
| BACK UP RING | 3897 | Back up ring for 3" flange (3896) | |
| | 4253 | Back up ring for 4" flange (4252) | |
| | CALL | Gasket/Hardware kit for 2" flange (3893) | |
| | CALL | Gasket/Hardware kit for 3" flange (3896) | |
| HARDWARE | CALL | Gasket/Hardware kit for 4" flange (4252) | |
| | 4244 | Single Pump mounting bracket for UP/UPS 15&26 pure | mps |
| | 3817 | Double Pump mounting bracket for UP/UPS 15&26 pt | umps |

Dual Unit Connection Kits







Fusion Flange Adapter (shown with backup ring)





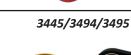


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3446

| FLUSH VALVES AND ASSEMBLIES | | | | | | |
|------------------------------------|---|---|--|--|--|--|
| MOUNTING HARDWARE - INCLUDED | 4702 | Single, 3-way, 4 position flush/iso. Valve, Insulated cab., Brass | Flo-Link Connections | | | |
| | 3514 | | (Requires 2 FL adapter fittings and FL | | | |
| | 3522 | Double, 3-way, 4 position flush/iso. Valve, Insulated cab., Brass flush adapters) | | | | |
| | 1199 | 2", 3-way, 4 position flush/iso. Valve, Insulated cab. Brass (Requires:(2) FL XL adapter fittings & FL XL flush adapt.) | | | | |
| | FLC32S | 3" flushing assembly | | | | |
| | FLC42S | 4" flushing assembly | | | | |
| | | 2480 Underground Flushing Kit Contains: | | | | |
| | | (2) Brass 3-way flushing valve | | | | |
| | | (1) Pro series box with lid | | | | |
| | 2480 | (4) Socket fusion coupling, 1-1/4" | | | | |
| | | 1, 1 | #2 🙈 | | | |
| | | (4) Socket fusion fittings, 1" MPT x 1-1/4" fusion | 88 IIW | | | |
| | | (4) PE pipe nipples, 1-1/4" long | | | | |
| | | ZONE VALVES | | | | |
| | VMT3F-OP | Taco geo open loop vlv, brass 3/4" FPT, 24V w/end switch, Cv = 10.3** | Recommended | | | |
| | VMT3F-CL | Taco geo closed loop vlv, brass 3/4" FPT, 24V w/end switch, Cv = 10.3** | U.S. GPM Minimum Cv 3 2 to 3 | | | |
| | VMT4F-OP | Taco geo open loop vlv, brass 1" FPT, 24V w/end switch, Cv = 8.9** | 4.5 3 to 4 | | | |
| | VMT4F-CL | Taco geo closed loop vlv, brass 1"" FPT, 24V w/end switch, Cv = 8.9** | 6 4 to 6 7.5 6 to 8 | | | |
| | VMSPR | Powerhead for older (orange) VMSBZ Valves | 9 7 to 9 | | | |
| | VMBBN4F-SR | Belimo B225+LFR24-S+NC/FO motorized ball vlv, nickle plated brass 1" FPT, | 10 8 to 10 12 9 to 12 | | | |
| | | spring rtrn, 24V w/end sw, Cv=30** | 15 11 to 15 | | | |
| | VAADDNIEE CD | | 18 13 to 18 | | | |
| | VMBBN5F-SR | Belimo B232+AFR24-S+NC/FO motorized ball vlv, nickle plated brass 1-1/4" FPT | Table 1. Recommend with Cv | | | |
| | | spring rtrn, 24V w/end sw, Cv=37** | Higher Cv = lower pressure drop. | | | |
| | **Choose valve based upon Cv (Flow Coefficient) for flow rate (see Table 1). Higher Cv = lower pressure drop. | | | | | |

| FLOW REGULATORS FOR OPEN LOOP SYSTEMS | | | |
|---------------------------------------|----------|-------|--|
| 3/4" FPT x 3/4" FPT | VFR33F-2 | 2 GPM | |
| | VFR33F-3 | 3 GPM | |
| | VFR33F-4 | 4 GPM | |
| | VFR33F-5 | 5 GPM | |
| | VFR33F-6 | 6 GPM | |
| | VFR33F-7 | 7 GPM | |
| | VFR33F-8 | 8 GPM | |
| | VFR33F-9 | 9 GPM | |

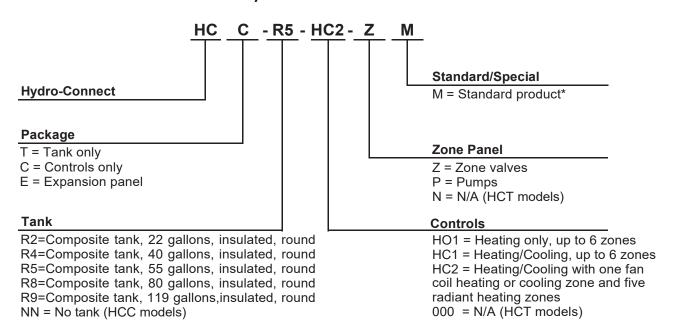


3-way, 4 position flush/iso.valve



Geo-Flo's HCT Buffer Tanks are used with geothermal water-to-water heat pumps, air-to-water heat pumps, boilers, and other hot- and chilled-water hydronic systems requiring a buffer tank. These HCT's feature a composite tank that will never corrode, and factory installed, brass, union fluid connections. The tank is insulated with a high R-value urethane foam and covered with a high-impact plastic jacket that resists scratches, dents and condensation formation.

Nomenclature: Buffer Tanks and Hydronic Controls

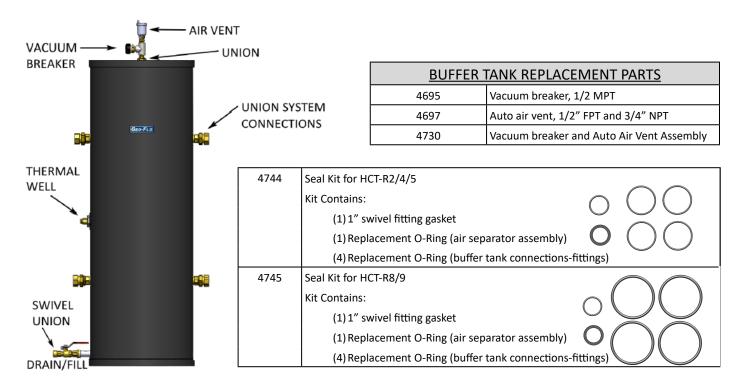


* Standard HCC and HCE products provided with controls mounted on a melamine composite panel. All HCE products provided with controls mounted on a melamine composite panel.

| <u>BUFFER TANKS</u> | | | | |
|---------------------|---------------|----------------------------|--|--|
| | HCT-R2-000-NM | HC Buffer Tank, 22 gallon | | |
| | HCT-R4-000-NM | HC Buffer Tank, 40 gallon | | |
| HCT TANK | HCT-R5-000-NM | HC Buffer Tank, 55 gallon | | |
| | HCT-R8-000-NM | HC Buffer Tank, 80 gallon | | |
| | HCT-R9-000-NM | HC Buffer Tank, 119 gallon | | |



Hydro-Connect Controls (HCC)-Controls



CONTROL PANEL



| HYDRO-CONNECT CONTROLS | | | | |
|-------------------------|--|---|--|--|
| | HCC-NN-HO1-PM | Heating Only, Pump Controls | | |
| | HCC-NN-HO1-ZM | Heating Only, Zone Valve Controls | | |
| HCC CONTROLS | HCC-NN-HC1-PM | Heating/Cooling, Pump Controls | | |
| HCC CONTROLS | HCC-NN-HC1-ZM | Heating/Cooling, Zone Valve Controls | | |
| | HCC-NN-HC2-PM | Heating/Cooling with Fan Coil, Pump Controls | | |
| | HCC-NN-HC2-ZM | Heating/Cooling with Fan Coil, Zone Valve Control | | |
| <u>EXPANSION PANELS</u> | | | | |
| | HCE-NN-HO1-PM | HC Expansion Panel for HO1, Pump Controls | | |
| | HCE-NN-HO1-ZM | HC Expansion Panel for HO1, Zone Valve Controls | | |
| HCE EXPANSION | HCE-NN-HC1-PM | HC Expansion Panel for HC1, Pump Controls | | |
| PANELS | HCE-NN-HC1-ZM | HC Expansion Panel for HC1, Zone Valve Controls | | |
| | HCE-NN-HC2-PM | HC Expansion Panel for HC2, Pump Controls | | |
| | HCE-NN-HC2-ZM | HC Expansion Panel for HC2, Zone Valve Controls | | |
| HBX CONTROLLER | | | | |
| HBX CONTROLLER | HBX CONTROLLER 5005 CONTROLLER, HBX ECO-0600 | | | |

Controls-Multi Pump, VS Pump, & Magna3

| | MAGNA 3 EXTERNAL CONTROLLER AND ACCESSORIES | | | | |
|---------------------|--|--|--|--|--|
| | EXTERNAL CONTROLLER FOR MAGNA3 | | | | |
| 4062 | UPC GEO external controller, 0-10VDC output | | | | |
| | Use external controller for Magna3 Delta-T control for primary-secondary applications to provide heating and cooling Delta-T set points. | | | | |
| 3986 | 10k thermistor, 1/4" NPT insertion type (4062 controller requires two thermistors) | | | | |
| 3760 | AC wall adapter for 4062 (Optional if 24VAC is available near 4062 controller location) | | | | |
| 3807 | 807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) | | | | |
| | BMS INTERFACE MODULES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO | | | | |
| CIM100 | LonWorks Network Interface Module | | | | |
| CIM200 | Modbus RTU Network Interface Module | | | | |
| CIM300 | 00 BACnet MS/TP Network Interface Module | | | | |
| | PUMP ENABLE CONTROL-Pump off unless at least one heat pump is calling | | | | |
| 3808 | Pump enable control (up tp 5 units w/ one insulated pump or flow center", NEMA enclosed | | | | |
| MAGNA 3 ACCESSORIES | | | | | |
| 4313 | Temperature sensor, Grundfos, RPI w/1/2" adapter for delta T | | | | |









3808









| VARIABLE SPEED CONTROLLER KITS | | | | |
|--------------------------------|---|--|--|--|
| 3697 | 3697 Temperature Control - (2) 1/4" MPT immersion thermistors included | | | |
| 3698 | Flow and Temperature Control -Hose barb Hose kit connections 1"HB (also available as 1" MPT) (Thermistors and flow sensor included) | | | |
| 3766 | Flow and Temperature Control -PVC Glue PVC connections 1" PVC Glue (also available as 1" MPT) (Thermistors and flow sensor included) | | | |

Variable Speed Controller Kits

Temperature











Temperature & Flow - Hose Barb





| 0-10V TO PWM CONTROL | <u>LLER</u> |
|----------------------|-------------|
|----------------------|-------------|

4841 Controller, ECM, 0-10 VDC to PWM, W/ enclosure

| DUAL UNIT KIT/FLOW CENTER SHARING/PUMP ENABLE RELAY | | | |
|---|--|----------|--|
| 3561 | Pump sharing relay (2 units; 1 flow center) | A | |
| 3562 | Pump sharing relay (2 units; 1 flow center) w/ NEMA enclosed | | |

Geo-Booster/Geo-Prime/Geo-Gooser-Air, Dirt, and Pressure Management

| | AIR, DIRT, AND PRESSURE MANAGEMENT | | | |
|------|---|--|--|--|
| | GEO-BOOSTER | | | |
| 3551 | Geo-Booster (loop pressurization system, 35 psig) | | | |
| 9423 | Geo-Booster replacement pump | | | |
| 3535 | Geo-Booster power supply | | | |
| 3432 | Cap, 2-1/4, GEO-BOOSTER & GEO-PRIME | | | |



| WYE STRAINER- Bronze- #20 mesh, 304 SS strainer | | | | |
|---|------------|--|--|--|
| 3656 | 1-1/4" FPT | | | |
| 3462 | 2" FPT | | | |



| | GEO-GOOSER | | | | |
|------|---|--|--|--|--|
| 3502 | 3502 Geo- Gooser loop pressurization device | | | | |



| | GEO-PRIME | | | | |
|------|----------------|--|--|--|--|
| 1245 | Geo-Prime Tank | | | | |



GHS HYDRAULIC SEPARATOR

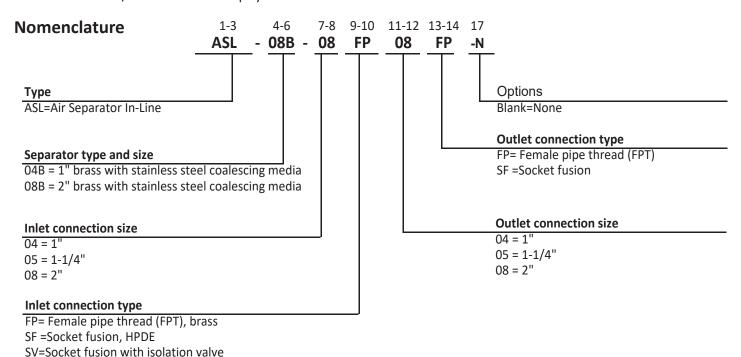
All flange connections are standard ANSI Class 150 flanges. (gaskets and hardware not included)

Flow rate on each side of hydralic separator, not combined flow

| Part Number | Number Left Connections Right Connections | | Max. Flow Rate |
|-------------|---|---------------|----------------|
| GHS-06-2F2F | | 2" Flange | |
| GHS-06-2F2N | 2" Flange | 2" NPT female | |
| GHS-06-2F2P | | 2" HDPE pipe | |
| GHS-06-2N2F | | 2" Flange | |
| GHS-06-2N2N | 2" NPT female | 2" NPT female | 40 U.S. GPM |
| GHS-06-2N2P | | 2" HDPE pipe | |
| GHS-06-2P2F | | 2" Flange | |
| GHS-06-2P2N | 2" HDPE pipe | 2" NPT female | |
| GHS-06-2P2P | | 2" HDPE pipe | |
| GHS-06-3F3F | 3" Flange | 3" Flange | 90 U.S. GPM |

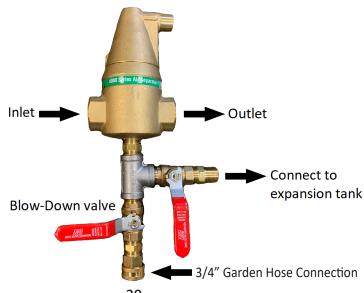
Air, Dirt, and Pressure Management-Air Separators

Geo-Flo's air separators eliminate any air that remains in the loop after system startup or maintenance. The stainless steel coalescing media inside the separator even traps small micro-bubbles and vents all air to the atmosphere preventing issues with system performance including noise and pump damage. The factory assembled air separators include a blow-down valve to allow dirt particles captured in the media to be removed, and a convenient connection for an expansion tank or water/anti-freeze make-up system such as the Geo-Booster.



| AIR SEPARATORS | | | | | |
|------------------|---------------|-------------|----------------------------|--------------|---------------|
| Part Number | Separator | Inlet conn. | Inlet conn. | Outlet conn. | Outlet conn. |
| Part Number | Type and Size | Size | Туре | Size | Туре |
| ASL-04B-04FP04FP | 1" | 1" | FPT | 1" | FPT |
| ASL-04B-05SF05SF | 1" | 1-1/4" | Socket Fusion | 1-1/4" | Socket Fusion |
| ASL-04B-05SV05SF | 1" | 1-1/4" | Socket Fusion W/ISO. Valve | 1-1/4" | Socket Fusion |
| ASL-08B-08FP08FP | 2" | 2" | FPT | 2" | FPT |
| ASL-08B-08SF08SF | 2" | 2" | Socket Fusion | 2" | Socket Fusion |

NOTE: Not all options are available. Call for items not specifically listed.



Example of ASL-04B-04FP04FP

Expansion Tanks-Air, Dirt, and Pressure Management

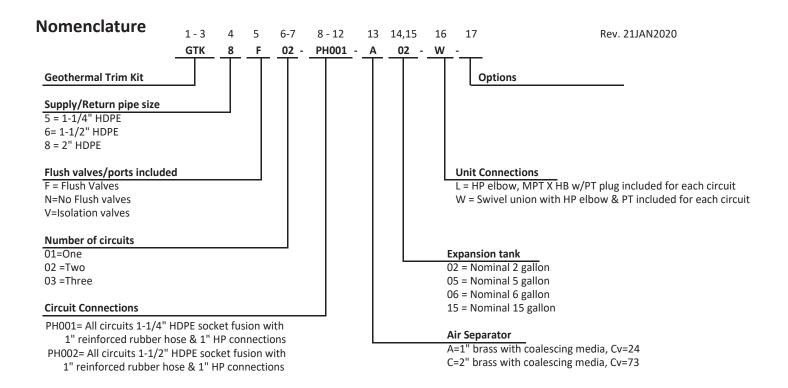
Expansion tanks are typically used on geothermal systems to prevent the system pressure from dropping too low when the HDPE loop pipe expands during cooling season (heat rejected to the loop). Geo-Flo recommends installing a thermal break between the system connection and any steel expansion tank to prevent the tank from sweating and corroding. For more detailed information on expansion tanks for geothermal systems, see the Literature link on our website www. geo-flo.com.

| EXPANSION TANKS | | | | | |
|-----------------|-----------------------------------|--------------------|----------------------|--|--|
| PN | DESCRIPTION | CAPACITY (GALLONS) | CONNECTION SIZE | | |
| 3230 | Expansion Tank, HDPE, .75 GAL | .75 | 1-1/4" socket fusion | | |
| ETN-FX-HTX15 | Expansion Tank, NON-ASME, 2.1 GAL | 2.1 | | | |
| ETN-FX-HTX30 | Expansion Tank, NON-ASME, 4.8 GAL | 4.8 | 1/2" MPT | | |
| ETN-FX-HTX60 | Expansion Tank, NON-ASME, 6 GAL | 6 | | | |
| ETN-FX-HTX90 | Expansion Tank, NON-ASME, 15 GAL | 15 | 3/4" MPT | | |



| | MOUNTING KITS | | | | |
|------|--|---------------------------|--|--|--|
| PN | Description | Compatible Expansion Tank | | | |
| 4579 | Expansion Tank Mounting Kit | ETN-FX-HTX15 | | | |
| | | ETN-FX-HTX30 | | | |
| 4680 | Expansion Tank Mounting Kit. 4.4-7.6G | ETN-FX-HTX60 | | | |
| | | ETN-FX-HTX90 | | | |
| | CONNECTION HOSES | | | | |
| | | ETN-FX-HTX30 | | | |
| 4645 | Hose, 1/2" FIP X 1/2" FIP, 30" long, PVC core, Stainless Steel braid | ETN-FX-HTX60 | | | |
| | | ETN-FX-HTX60 | | | |

Geothermal Trim Kits (GTKs) are assemblies of all of the components necessary to properly maintain a geothermal system. These GTKs include flush/isolation valves, an air separator, an expansion tank, and required fittings to connect to the ground loop and heat pump. The multi-circuit GTKs include factory fused and assembled headers with check valves saving hours of field labor.



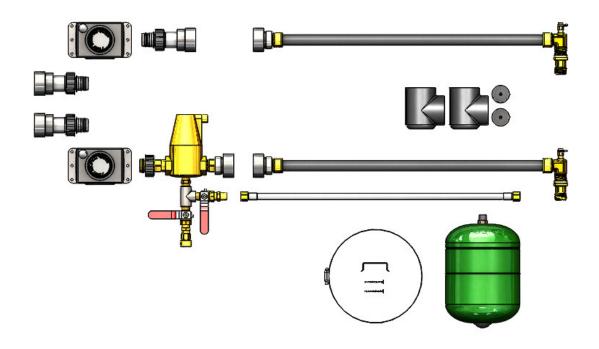
Notes:

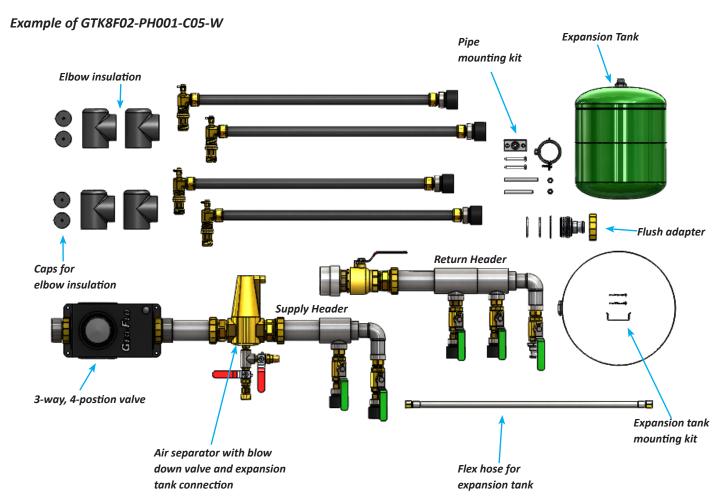
- 1. Circuits on return header have check valve included.
- 2. All circuits have isolation valves on supply and return headers.
- 3. HP Elbow size based on circuit connections.
- 4. GTK5 & 6 use 1" 3-way valves, and 1" air separator; GTK8 uses 2" 3-way valves and 2" air separator

| | GEOTHERMAL TRIM KITS (GTK) | | | | | | |
|---------------------|----------------------------|----------------|----------|----------------|-----------|-----------|-------------|
| DA DT NUMBER | SUPPLY/RETURN | FLUSH VALVES/ | # OF | CIRCUIT | AIR | EXPANSION | UNIT |
| PART NUMBER | PIPE SIZE | PORTS INCLUDED | CIRCUITS | CONNECT. | SEPARATOR | TANK | CONNECT. |
| GTK5F01-PH001-A02-W | 1-1/4" HDPE | FLUSH VALVES | | 1-1/4" HDPE | | | |
| GTK5V01-PH001-A02-W | 1-1/4" HDPE | ISO. VALVES | | SOCKET | | | SWIVEL |
| GTK6F01-PH001-A02-W | 1-1/2" HDPE | FLUSH VALVES | _ | FUSION | 1" | 2.641 | UNION W/ |
| GTK6F01-PH002-A02-W | 1-1/2" HDPE | FLUSH VALVES | 1 | 1-1/2" HDPE SF |] 1 | 2 GAL | HP ELBOW |
| GTK6V01-PH001-A02-W | 1-1/2" HDPE | ISO. VALVES | | 1-1/4" HDPE SF | | | & PT INCLU- |
| GTK6V01-PH002-A02-W | 1-1/2" HDPE | ISO. VALVES | | 1-1/2" HDPE SF | | | DED PER |
| GTK8F02-PH001-C05-W | 2" HDPE | FLUSH VALVES | 2 | 1-1/4" HDPE | 2 | F CAL | CIRCUIT |
| GTK8F03-PH001-C05-W | 2" HDPE | FLUSH VALVES | 3 | SOCKET FUSION | 2 | 5 GAL | |

NOTE: Not all options are available. Call for items not specifically listed.

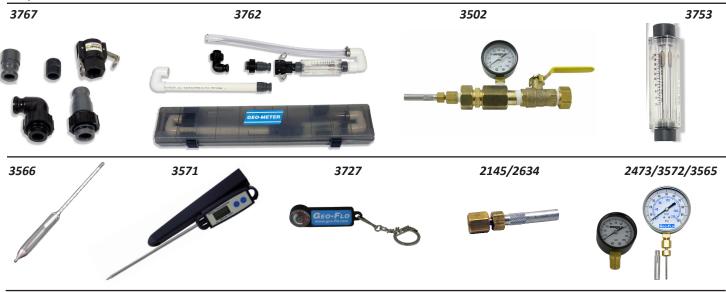
Example of GTK6F01-PH002-A02-W





| | TOOLS | | | | |
|------------|-----------|--|------|--|--|
| | | LOOP TOOLS AND ACCESSORIES | | | |
| | 3762 | Mechanical (variable area) flow meter tool | EACH | | |
| | Contains: | Tool with fittings, 90° CAM X FL adapter, straight CAM X FL adapter, competitor adapter, and carrying case | | | |
| Loop Tools | 3767 | Adapter kit for competitor flow meter tool (allows competitor tool to be used with NP flow centers) | EACH | | |
| | 3753 | Variable area flow meter, 2 to 20 GPM, 1" FPT | EACH | | |
| | 3502 | Geo- Gooser loop pressurization device | EACH | | |
| | | PRESSURE GAUGES, 0-100 PSIG | | | |
| | 2473 | 2" dial | EACH | | |
| 0-100 psig | 5171 | 3.5" dial | EACH | | |
| | 3565 | 3.5" dial w/ PT adapter | EACH | | |
| | | GAUGE ADAPTER PT PLUG W/GUARD | | | |
| | 2634 | 1/16" Gauge adapter PT Plug with guard | EACH | | |
| | 2145 | 1/8" Gauge adapter PT Plug with guard | EACH | | |
| | 3571 | Thermometer, digital w/case | EACH | | |
| | 3566 | Hydrometer | EACH | | |
| | 3727 | AC Magnetic Field indicator | EACH | | |

Loop Tools and Accessories



Flushing and Service Kits-Tools

| | FLUSHING AND SERVICE KITS | | | |
|----------------------|---------------------------|---|-----|--|
| | | Geo-Gooser and flush kit | KIT | |
| | | Includes: | | |
| | 3509 | (1) Geo-Gooser (PN 3502) | | |
| | | (2) FL X Garden hose (female) adapter (PN 3248) | | |
| | | (2) 1" MPT X FL female <i>(PN 3471)</i> | | |
| | | Geo-Gooser and flush kit with CAM elbows | KIT | |
| | | Includes: | | |
| | 3553 | (1) Geo-Gooser (PN 3502) | | |
| | 3333 | (2) FL X Garden hose (female) adapter (PN 3248) | | |
| | | (2) 1" MPT X FL female (PN 3471) | | |
| | | (1) Set of CAM level male 90° (flush fitting) (PN 2914) | | |
| | 3798 | Geo service kit | KIT | |
| Flushing and Service | | Includes: | | |
| Kits | | (1) Geo-Gooser (PN 3502) | | |
| | 0,00 | (1) Pressure gauge with needle adapter (PN 3585) | | |
| | | (1) Thermometer <i>(PN 3571)</i> | | |
| | | (1) Hydrometer (alcohols) with case (PN 3566) | | |
| | | Geo-Service and flush kit | KIT | |
| | | Includes: | | |
| | | (1) Geo-Gooser (PN 3502) | | |
| | | (2) FL X Garden hose (female) adapter <i>(PN 3248)</i> | | |
| | 3564 | (2) 1" MPT X FL female (PN 3471) | | |
| | | (1) Pressure gauge with needle adapter (PN 3565) | | |
| | | (1) Thermometer <i>(PN 3571)</i> | | |
| | | (1) Hydrometer (alcohols) with case (PN 3566) | | |
| Flushing Service Kit | | (1) Set of CAM level male 90° (flush fitting) (PN 2914) | | |

Flushing Service Kits

3509





3553

3798 ______ 3564





The Geo-Flo Flush Cart is the professional's choice to purge air and flush debris from residential and light commercial geothermal ground loops. The Flush Cart includes all the important features required to safely flush and purge the loop including power flushing, power draining, pump and dump, and debris filtering. Its compact design utilizes standard components which allows for easy field service. The 1.5 HP self-priming 115V pump is mounted above the cart's axle, providing a well balanced system that is easy to maneuver.

| | FLUSH CART | | | | |
|-------------------------|------------|---|--------|--|--|
| Flush Carts | 3789 | Flush Cart w/ 10ft. hoses, 1" CAM fittings (loop side) & 1-1/4" ball valves | EACH | | |
| Trasii cares | | Note: Available without ball valves (pn 3563) | 2,7011 | | |
| | | FLUSH CART ACCESSORIES | | | |
| | 3639 | (2) 10ft hoses, 1" CAM fittings (loop side) | EACH | | |
| Flush Cart Hose | 3788 | (2) 10ft hoses, 1" CAM fittings (loop side), 1-1/4" ball valves | EACH | | |
| Assemblies | 4786 | (2) 10ft rubber hoses, 1" CAM fittings (loop side), 1-1/4" ball valves | EACH | | |
| | 3793 | (2) 20ft hoses, 1-1/2" CAM fittings (loop side) | EACH | | |
| | | Note: Ships with (2) CAM male X male adapters. 20 ft hose assembly set may be used as an extension set or with FL XL flow centers | | | |
| Filtor bogs | 3832 | 1 micron | EACH | | |
| Filter bags | 3594 | 100 micron | EACH | | |
| Fittings (for flushing) | 3666 | 1" CAM X 1" MPT | EACH | | |
| Pump Motor | 4967 | MOTOR, MUNRO LP150BG, 1-1/2 HP, 1 x 115/230 V, 2 CAP | EACH | | |
| Gasket Kit (Munro) | 4970 | GASKET KIT, SQUARE AND DIFFUSER, MUNRO LP SERIES | EACH | | |



Flush cart hoses with 1-1/4" ball valves





Flush Cart **Geo-Flo Corporation**

Fusion Tool Kits-Tools

Geo-Flo assembles professional fusion tool kits, and provides all the tools necessary for a successful geothermal heat pump installation. Geo-Flo's socket fusion tools, designed for fusing polyethylene piping and fittings, offer reliability, compact design and temperature control for success in the heat fusion process. Features include a precision machined heater body, well-insulated handle, temperature adjustment and thermometer.



| | | FUSION TOOL KITS | |
|-----------------|-----------|---|-----|
| | | 3/4" and 1-1/4" | KIT |
| | TFK35 | Includes: Complete fusion tool set (3/4" and 1-1/4") | |
| | 111033 | Heating tool with bag, socket faces, cold rings, chamfer tools, | |
| | | tool box, 1-1/4" ratchet cutter, digital thermometer, thermocouple | |
| | | 1" and 1-1/4" | KIT |
| | TFK45 | Includes: Complete fusion tool set (1" and 1-1/4") | |
| | I FR43 | Heating tool w/ cover, socket faces, cold rings, chamfer tool, | |
| | | tool box, 1-1/4" ratchet cutter, digital thermometer, thermocouple | |
| | | 3/4", 1-1/4", and 2" | KIT |
| Fusion tool kit | TFK358 | Complete fusion tool set (3/4", 1-1/4", and 2") | |
| rusion tool kit | 1111338 | Heating tool with bag, socket faces, cold rings, chamfer tools, tool box, | |
| | | up to 2" ratchet cutter, digital thermometer, thermocouple | |
| | | 3/4", 1", and 1-1/4" | KIT |
| | TFK345 | Includes: Complete fusion tool set (3/4", 1", and 1-1/4") | |
| | 1110343 | Heating tool with bag, socket faces, cold rings, chamfer tools, | |
| | | tool box, 1-1/4" ratchet cutter, digital thermometer, thermocouple | |
| | | 3/4", 1", 1-1/4", 1-1/2" and 2" | KIT |
| | TFK34568 | Includes: Complete fusion tool set (3/4", 1", 1-1/4", 1-1/2" and 2") | |
| | 115034308 | Heating tool with bag, socket faces, cold rings, chamfer tools, tool box, | |
| | | up to 2" ratchet cutter, digital thermometer, thermocouple | |

| <u>FUSION TOOLS</u> | | | | |
|-------------------------------------|--------|---|------|--|
| | TFH1 | Heat Fusion Tool- single face | EACH | |
| | TFH1-R | Heat Fusion Tool- single face, Reconditioned | EACH | |
| | TFH2 | Heat Fusion Tool- double face | EACH | |
| | TFH2-R | Heat Fusion Tool- double face, Reconditioned | EACH | |
| | TFHB | Fusion tool heater bag | EACH | |
| Fusion Heater Tools/ Accessories | TFT | Fusion Timer | EACH | |
| Accessories | ТМВ | Fusion tool mounting bracket | EACH | |
| | TFHK-H | Fusion Iron Tool- double handle | EACH | |
| | 5206 | Digital Thermometer, thermocouple, dual channel | EACH | |
| | 5208 | Thermocouple, Type K, flat probe | EACH | |
| | TTDT1 | Digital thermometer and Thermocouple- Kit | EACH | |
| | TFHK-1 | Heat fusion tool kit - Rebuild single face | EACH | |
| Fusion Rebuild Kit | TFHK-2 | Heat fusion tool kit - Rebuild double face | EACH | |
| | 5090 | Thermometer, PT50, 150-750F | EACH | |
| | TSF3 | 3/4" IPS | SET | |
| | TSF4 | 1" IPS | SET | |
| Socket Faces | TSF5 | 1-1/4" IPS | SET | |
| | TSF6 | 1-1/2" IPS | SET | |
| | TSF8 | 2" IPS | SET | |
| | TCR3 | 3/4" IPS | EACH | |
| Cold Ring | TCR4 | 1" IPS | EACH | |
| Vice | TCR5 | 1-1/4" IPS | EACH | |
| Grip Clamp | TCR6 | 1-1/2" IPS | EACH | |
| | TCR8 | 2" IPS | EACH | |
| | TCG3 | 3/4" IPS | EACH | |
| | TCG4 | 1" IPS | EACH | |
| Chamfer Tool | TCG5 | 1-1/4" IPS | EACH | |
| | TCG6 | 1-1/2" IPS | EACH | |
| | TCG8 | 2" IPS | EACH | |
| Replacement Blades | TCGB | Replacement blade for all depth gauge/chamfer tools | EACH | |
| | TPC4 | PE, PEX, & rubber hose cutter - up to 1" | EACH | |
| Pipe Cutters | TPC5 | PE ratchet cutter, up to 1-1/4"" | EACH | |
| | TPC8 | PE ratchet cutter, up to 2" | EACH | |













Miscellaneous

| | MISCELLANEOUS | | |
|------|---------------------------------------|--|--|
| _ | POND LOOP SPACED COIL | | |
| 3647 | Pond loop spaced coil, 3/4" PE X 300' | | |

Spaced coils are designed to enhance convective flow through the coil via factory-installed spacers. The assembly is bound with nylon ties, and strapped to pallet for shipping. These coils are typically 0.5 to 1 ton [1.76 to 3.52 kW] of heat rejection/heat absorption capacity per coil (must be verified with Pond Coil Calculator at www.geo-flo.com).



| | MOUNTING PADS- high density rubber equipment pads | | | | |
|------|---|--|--|--|--|
| 4055 | 24" x 36", boxed- individual | | | | |
| 4056 | 28" x 36", boxed- individual | | | | |
| 4027 | 24" x 36", bulk- pallet | | | | |
| 4028 | 28" x 36", bulk- pallet | | | | |

Geo-Flo's geothermal equipment pads are made of high density SBR recycled rubber, which provides a high degree of vibration and sound absorption for compressor-bearing units installed indoors.

Equipment Pad Features:

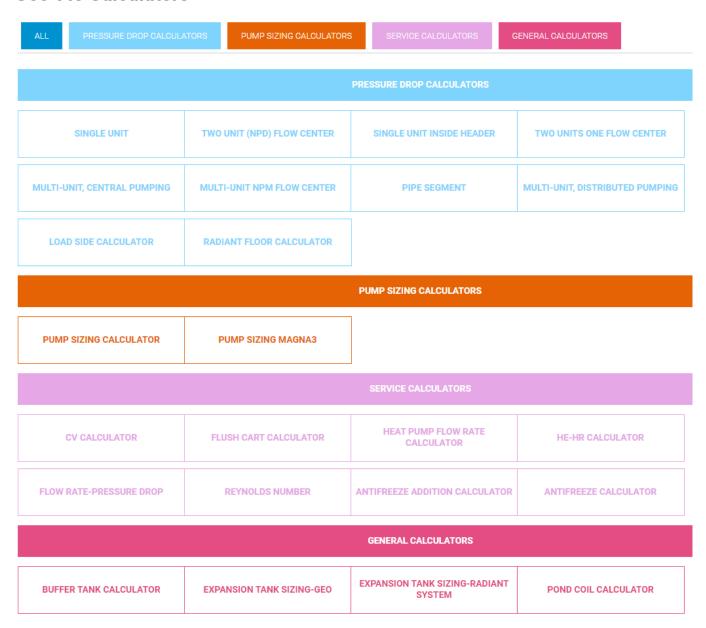
- Absorbs low frequency sound/vibration (particularly suited for compressors)
- Environmentally friendly recycled material (SBR bonded black recycled rubber)
- High density (60 lbs/cu. ft.)
- Anti-skid texture
- Non-porous, both sides
- Rated for packaged unit weight (very little compression)



Design Calculators

Geothermal System Design Calculators are available free of charge on the website at www.geo-flo.com. This comprehensive suite of calculators provides geothermal and hydronic design tools, concentrating on the hydronic portions of the system. From pressure drop calculation to pump sizing to flushing requirements, the design suite is just the starting point for services continually being developed. Calculators available on the website are as follows:

Geo-Flo Calculators



Warranty Information

GEO-FLO CORPORATION WARRANTY STATEMENT

Geo-Flo Corporation produces flow centers for many O.E.M. customers (geothermal heat pump manufacturers), as well as for HVAC distributors and commercial representatives. Warranties vary by O.E.M., and are not stated in this document. For warranty coverage and details, owners should contact their installing contractor. Contractors should contact their HVAC distributor, commercial representative, or heat pump manufacturer for warranty information.

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www.geo-flo.com 2024 Catalog

Doc # N/A 2024 Catalog REV.0/8JAN2024

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REV.0/8JAN2024

Updates Table

| Date | Description of Changes | Pages |
|-------------|--|-------|
| | Updated photo for PN 3565 | 43 |
| | Replaced PN 4514 with 5185 on the table, & 3918 pic with 5185 | 32 |
| | Removed (OBSOLETE) PN 3920, added 4500 to the table and pic | 33 |
| | Updated pic and added PN FLC32S/FLC42S | 34 |
| | Updated pics for PNs 3760 & 3807 | 37 |
| MAR2024 | Updated pic for PN ASL-04B-04FP04FP | 39 |
| 11111112021 | Updated pic for PN 4579 | 40 |
| | Updated Geothermal Trim Kits (GTKs) Nomenclature | 41 |
| | Added individual PNs to Flushing and Service Kits | 44 |
| | Updated photo for the Fusion Tool Kits, added to the tablePN TFK45 | 46 |
| | Added Fusion Rebuild Kit to the table PNs TFHK-1, TFHK-2, TFHK, TFK-TB, TFT, TFHK-H, 5090 & pics of PNs TFHK-2, 5090, TFKTB on the side | 47 |
| | Changed to 2024 cover page | Cover |
| | Removed PN FL2N | 2 |
| | Added PNs NPB1C & NPB2C | 4 |
| | Update NMP Nomenclature | 9 |
| | Added on FLP1L-FLE & FLP1L-FLK table and photos, Removed PN 1317 (OBSOLETE) replaced with FLP2A | 12 |
| | Moved page title from the left to the right of the page | 13 |
| | Moved page title from the right to the left of the page | 14 |
| | Corrected second PN from M3H065-120AC to M3H065-120BC | 16 |
| | Removed PN 8951 from pic, added PN 9452 & discription to table | 18 |
| | Added individual PNs to kit contents items, added connectionto text | 19-22 |
| | Corrected hose size from 10ft to 12ft for PN 1181 | 19 |
| FEB2024 | On PN 1281, added brass plug with Flo-Link x 1" HB w/PT port for PN 3385, added photos for PNs 1280 & 1281 | 21 |
| | Corrected hose from 1-1/4" to 2" for PN 3477, corrected elbow count from 1 to 2 and hose clamps from 8 to 10 for PN 3478 | 22 |
| | Updated the HAR Hose Assembly Rubber nomenclature, added PNs HAR4-05-04LT06WX & HAR4-05-04WL06WXto the table | 23 |
| | Added PNs 3433 & 4143-HALF to the table, & 3433 photo | 24 |
| | Added PN 3771 to table | 26 |
| | Removed from table (OBSOLETE) PN 3320 | 27 |
| | Removed from table and photos (OBSOLETE) PN 3450 & 3483 | 28 |
| | Corrected PN from PFAL33M to PFLA33M & PFAL33F to PFLA33F, Removed from table (OBSOLETE) PN PFTA4M32F & PFTA4M42F and replaced them with PFTA4MS32F & PFTA4MS42F, then added to the table PN PFTA4MS2F4, PFA64HB, PFA34M, PFLA34M, PFA54M & PFA66M | 29 |
| | Added PNs PFC64, PFC66, PFC86, PFL44-45, PFL54, PFL66, PFL66-45, PFP6 to the table | 30 |

| | · | |
|-----------------|--|-----------|
| FEB2024 | Added PNs PFT664, PFT666, PFT853, PFT854, PFT864, PFT883, Moved Fusion Caps table and photo to page 30, Added 3721 photo | 31 |
| JAN2024 | Updated all dates and REV from 2023 to 2024 | Various |
| Oct2023 | Corrected description of the 1297 from UP26-99 to UP26-116. | 2 |
| SEPT2023 | Updated images of the 3766, 3698, 3697 | 37 |
| JL1 12025 | Flipped descriptions between PN 3726 & 4323 | 26 |
| | Added hose kit PNs 1280, 1281, 1337, 3477CV, 3477-MPT | 21,22 |
| | Added valve PNs 4144, 4580, BV4-4H4H-SS, BV5-5H5H-SS, BV4-PF-4B4B-SS, BV5-PF-5B5B-SS, BV4-PF-4S4S-SS, BV5-PF-5S5S-SS | 32,33 |
| | Added Flow Center PNs FL1N, FL2L, FLP1A-DBC, FLP1L, FLP2M, FLP2A, FLP2A-4V, FLP2C-4V, FP1B, FPP1U-115-4V, NPD4LL | 12 |
| | Added Magna3 Flow Center High Head Option PNs | 14,16 |
| | Added Wilo Stratus Pumps PN (9462-9469) | 18 |
| FEB2023 | Added Flush Cart PNs 4786, 4967, 4970 | 45 |
| | Added fusion fittings- PFA31F, PFC65, PFV55 | Various |
| | Added misc. PNs 4008, 3817, 4730, 4772, 5005 | Various |
| | Updated Flush Cart to black | 45 |
| | Updated fusion product pictures | 46,47 |
| | Updated catalog cover | Cover |
| | Added PN 4841 Controller, Ecm, 0-10 Vdc To Pwm, W/ Enclosure | 37 |
| | Added PN 4848 Valve, 1/4" MPT X 1/4" FPT, Brass | 32 |
| | Added NP Basic line | 4 |
| | Added PNs TFK345 AND TFK34568 | 46 |
| FEB2021 | Added PNs 9102-3F and 9102-4F | 12 |
| | Added Magna3 Variable Speed Low Centers | 1+ |
| | Changed layout | Various |
| | Updated cover design | Cover |
| JUL2020 | Obsoleted PNs 9104-3/4F; Replaced with 9102-3/4F | 15 |
| | Updated NPM graphics | 7 |
| MAY2020 | Updated NPM nomenclature | 8 |
| | Added PNs VMT3F-CL and VMT4F-CL | 31 |
| MAR/ APR2020 | Updated descriptions of fittings w/ 1/4" PT plug or w/1/4" FPT ports | 21, 23-25 |
| | Corrected descriptions of PNs NP2M/NP2P | 6 |
| | Added PNs PFEAB54M, PFTA854M, FLP1L-4V-CV | Various |
| 14FEB2020 | Replaced CAD graphics | Various |
| | Corrected descriptions for PNs 3318 and 3320 | 22 |

| 16JAN2020 | Updated catalog to reflect UPMXL/Magna Geo switch over | Various |
|------------|--|----------|
| | Added Assembled Hose Kit line to catalog | 19-20 |
| | Updated Buffer Tanks and Hydro Connect Controls | 32-33 |
| | Added Air Separator line to catalog | 36 |
| | Added Geothermal Trim Kit line to catalog | 38-39 |
| | Total catalog update (formatting) | All |
| | Removed PICCV valves from catalog | 41 |
| | Added hose kit 1263 | 46 |
| | Updated hose clamp description to stainless steel | 45,46,47 |
| | Removed part numbers 9451-3F and 9451-4F from catalog | 63 |
| İ | Updated various product pictures | Various |
| | Removed M3D065-150 BF-HL from catalog | 38,39 |
| | Added note for horizontal flow (use pn 4596) | 38,39 |
| 1414112010 | Updated "flo-link" to "FL"-added note to reflect | 48,50,51 |
| 14JAN2019 | Added note indicating XL FL Fittings are not included | 59 |
| | Updated Belimo Zone Valve pictures | 41 |
| | Removed "NEW" from parts no longer considered "new" | Various |
| | Changed "triton style" to "electrofusion style" | 48 |
| | Updated Controller kits with new flow sensor | 8 |
| | Updated product pictures | Various |
| | Formatting changes, new color scheme, new cover | Various |
| | Updated index to reflect above changes | 73-78 |

| | Formatting changes, new valves section, product updates | Various |
|--------------|--|---------|
| | Misc. corrections to typos, part # updates | Various |
| | Add Magna GEO options to NP Multi with circulators | 21,23 |
| | Reformatted Magna3 section, added drawings & accessories | 37 |
| | Added 3" & 4" flushing assemblies | 40 |
| | Added commercial accessories (expansion tanks, air separators, etc.) | 44 |
| | Updated Flo-Link x Flo-Link hose kit part #; added hose kit w/check vlv | 45 |
| | Updated 1/4" brass plug to hex drive (changed P/N from 3027 to 3711) | 51 |
| 4.48101/2047 | Added 1" MPT x 1-1/4" swivel adapter set | 51 |
| 14NOV2017 | Updated picture of 2146 1" MPT x 1" hose barb | 52 |
| | Added 3/4" thread x hose barb adapter and elbow | 51,52 |
| | Added 1-1/4" and 2" union fusion ball valves | 52 |
| | Added pump mounting brackets for UP/UPS 15 & 26 pumps | 53 |
| | Added 1-1/4" FPT flange set | 53 |
| | Added HDPE tee, 2" fusion x 2" fusion x 1" MPT (MPT is on tee side) | 55 |
| | Added fusion x thread elbows | 55 |
| | Added SuperBrute insulated pump | 59,62 |
| | Added bracketed pumps for heating only systems | 63 |
| | Updated table for heat pump controls to reflect NP series product updates (addition of NP Plus and NPV Plus Kit) | 8 |
| | Added NP Plus flow centers | 13,14 |
| | Removed 1326 and 1327 NPV Kits (replaced by NPV Plus Kits) | 14 |
| | Added 1285CV (insulated pump w/built-in check valve) | 39 |
| | Pricing updates on Belimo valves | 39 |
| | Added 4" flange x HPDE fusion adapter and backup ring | 43 |
| | Corrected P/N of Flo-Link x Flo-Link hose kit (changed to 3278) | |
| | Discontinued NP hose kit, p/N 3829 (replaced by NP Plus and standard hose kit) | 46 |
| 30DEC2016 | Added hose kits 1346 & 1347 for NP Plus | 46 |
| | Added 4066 Flo-Link x 1" FPT isolation valve set with check valve | 47 |
| | Added 3769 Flo-Link x 1-1/4" hose barb w/fitting for P/T port | 47 |
| | Added 4243 Dual unit connection kit for Flo-Link XL flow centers | 50 |
| | Added 5254, Butt fusion coupling, 4" x 3" IPS | 52 |
| | Added PFA32F, fusion adapter, 3/4" socket fusion x 1/2" FPT | 53 |
| | Pricing updates on pond coils | 53 |
| | Updated picture of 3514 valve box | 54 |
| | Updated picture of flush cart hoses | 61 |
| | Added Magna GEO inverse profile replacement pump | 65 |

| | Updated NP Multi options to include two circuit version | 18-22 |
|-------------|---|----------|
| | Updated header picture for NP Multi with 2 pumps in series | 19 |
| | Added Magna3 High Head Options (M3H) | 36,37 |
| | Part # of 10k thermistor changed from 3684 to 3986 | 37 |
| | Updated picture of 1284 insulated pump | 38,55,58 |
| | Added new hose kit, P/N 3279 (Flo-Link dbl O-ring @ heat pump) | 43 |
| 00111112046 | Moved additional hose lengths/rolls from page 49 to page 45 | 45,49 |
| 08JUN2016 | Added Flo-Link x 1" FPT adapter set with check valve (P/N 4143) | 46 |
| | Moved dual unit connection kit from page 53 to page 49. | 40.50 |
| | Moved swivel x MPT connectors from page 53 to page 49. | 49,53 |
| | Added 1-1/4" fusion x 3/4" MPT adapter (P/N PFA53M) | 52 |
| | Added Magna3 replacement pumps | 65 |
| | Updated Calculators information to include new additions | 67 |
| | Updated index to reflect above changes | 70 |
| | Updated "about Geo-Flo" | 4 |
| | Added NP Multi Series flow centers | 18 |
| | Added Dual Head Magna3 pump curves | 29 |
| | Added 1/4", 1/2", 1", and 1-1/4" ball valves | 42 |
| | Updated picture of Flo-Link XL to 1" CAM adapter to latest picture | 48 |
| | Updated picture of 1" MPT x 1-1/4" barb to latest picture | 50 |
| | Added 1-1/4" MPT x 1-1/4" barb and 2" MPT x 2" barb adapters | 50 |
| 30DEC2015 | Added 2 to 20 gpm flow meter | 50,61 |
| SUBLEZUIS | Updated picture of flow regulator to latest picture | 50 |
| | Updated part number of insulated pump from 1338 to 1286CV | 59 |
| | Updated flush cart features (added feature allows loop pressure drop measurement) | 60 |
| | Added Geo Service Kit and Geo Service/Flush Kit to Tools section | 61 |
| | Added Geo-Booster replacement pump and power supply | 64 |
| | Updated Calculators information to include new additions | 66 |
| | Updated index to reflect above changes | 69 |

| | Updated Geo-Booster picture with new black cabinet | 6,11 | |
|-----------|---|-------------|--|
| | Added compatibility chart/info. for variable speed flow centers | 8 | |
| | Added inverse profile variable speed flow centers | 8,10,14,17 | |
| | Moved Magna GEO flow center var. spd. controllers to one page | 8,10,14,17 | |
| | Added NP Dual variable speed flow centers | 17 | |
| | Updated Magna3 pictures | 31 | |
| | Added external controller for Delta-T for primary-secondary applic. | 32 | |
| | Added dongle for iPhone/Android for use with Grundfos GO | 32 | |
| 26JUN2015 | Updated Belimo valve offering | 33 | |
| | Updated pictures of various items | 37,41,47,48 | |
| | Added 1/4" brass plug | 44 | |
| | Added equipment mounting pads | 49 | |
| | Added Hydro-Connect Integrated buffer tank and accessories | 51-54 | |
| | Updated bronze replacement pump to stainless steel | 59 | |
| | Updated Design Calculators with new information | 61 | |
| | Added index | 64 | |
| | Updated 115V UP26-99 (sngl spd) pumps to UPS26-99 (3-spd) | Various | |
| | Added note about transition to black cabinet for Geo-Booster | 6, 10 | |
| | Added NPV Kits | 12 | |
| | Added pump curves for NPD series flow centers | 19 | |
| | Added commercial application section | 25 | |
| | Added Grundfos Magna3 part numbers/model nomenclature | 29 | |
| | Added insulated pumps/zone valves to commercial section | 31 | |
| | Added GHS series hydraulic separators | 32 | |
| | Added commercial fittings/adapters to commercial section | 35 | |
| | Added Flo-Link x 1-1/4" pipe (use with Triton style fittings) | | |
| 30DEC2014 | Added Flo-Link x 1" fusion elbow w/PT tap | 39 | |
| | Part # change from 3390 to 3929 (1" MPT x 1" hose barb w/PT ftg) | 42 | |
| | Added 3" x 2" butt fusion coupling | 44 | |
| | Added 2" fusion ball valve and 2" fusion x 2" FPT adapter | 45 | |
| | Added 1-1/4" compression fittings | 46 | |
| | Added dual unit connection kit for Flo-Link flow centers | | |
| | Added pressure gauge with 2" dial | 49 | |
| | Added gauge adapter with 1/16" diam. needle | | |
| | Added UPS26-99 3-speed 115V replacement pump | - 52 | |
| | Added UP26-116SF (stainless steel volute) replacement pump | | |
| | Updated Design Calculators to include new commercial Calculators | 54 | |

| 03APR2014 | Updated 230V UP26-99 (sngl spd) pumps to UPS26-99 (3-spd) | Various | |
|-----------|---|-----------|--|
| | Updated insulated pumps to black cabinets | 7, 10, 36 | |
| | Flow center P/Ns 1294 through 1299 now include a set of 1-1/4" PE fusion by Flo-Link adapters. | 9 | |
| | New lower price for Geo-Booster (P/N 3551) | 10, 23 | |
| | Added NP series with bronze volute option (1 & 2 pump versions) | 12 | |
| | Added Flo-Link x 1-1/4" FPT adapter set (P/N 3885) | 28 | |
| | Added Flo-Link x 1-1/4" isolation valve set (P/N 3875) | 28 | |
| | Changed 1" hose roll (P/N 2139) from 400 ft. to 450 ft. roll (price per foot did not change) | 31 | |
| | Added Taco Geo Sentry motorized ball valves | 32 | |
| | Added PFA34HB (3/4" socket fusion x 1" hose barb) | 34 | |
| | Added isolation valve set and flange set pictures | 42 | |
| | Misc. formatting changes, typo fixes, minor updates | Various | |
| | Added Flo-Link Service Kits | 29 | |
| 27DEC2013 | Added 1-1/4" fitting sets (P/N 3660 & 3556) | 31 | |
| | Updated flush cart replacement filter description | 37 | |
| | Added warranty statement | 45 | |
| | Added important note about white to black cabinet changeover and UP26-99 single speed to UPS26-99 3-speed pump changeover | 1 | |
| | Updated "About Geo-Flo" time line | 4 | |
| | Updated pressurized flow centers to black cabinet | 5-9 | |
| | Updated Geo-Prime tank to black cabinet | 7, 10 | |
| | Added panel mount variable speed flow center | 8 | |
| | P/Ns 1027, 1028, 1229, and 1230 changed from single speed to 3-speed pump (UPS26-99) | 9 | |
| | P/Ns 1000, 1001, 1023, and 1252 changed from single speed to 3-speed pump (UPS26-99) | 10 | |
| | Added NP series dual circuit flow center | 13 | |
| 150CT2013 | Added Grundfos Magna3 Performance curves | 19 | |
| | Added info. about new Magna3 insulated pumps | 24 | |
| | Corrected typo in gray headers (FPT>MPT) | 25, 26 | |
| | Added 1-1/4" wye strainer | 2.1 | |
| | Added FPT version of motorized solenoid valve | 31 | |
| | Removed grout as a Geo-Flo product offering | 34 | |
| | P/Ns 1037, 1038, 1045, 1046 changed from single speed to 3-speed pump (UPS26-99) | 35 | |
| | Added info. on ETL listing for flush cart | 36 | |
| | Corrected typo for UPS26-99 replacement pump part number | 40 | |
| | Added blank-off plates (for converting from 2 to 1 pump flow cntr) | 41 | |

| Date | Description of Changes | Pages |
|------------|--|---------|
| | Added note about transition to black cabinets | Various |
| | Added product pictures | 8, 9 |
| | Added 50Hz NP series flow centers | 11 |
| | Added Wilo Stratos 2 x 3-35 commercial flow center | 19 |
| | Added insulating boot set | 22 |
| | Added NP series hose kit | 23 |
| | Added Flo-Link x 40mm PE pipe adapter set | 24 |
| | Added Flo-Link XL isolation valve sets | 25 |
| 08JLUL2013 | Added new 1-1/4" PVC glue x 1" hose barb set | 27 |
| | Corrected VFR part numbers | 27 |
| | Updated isolation flange module pictures (new powder-coated rails) | 24 |
| | Added large insulated pumps for load-side of water-to-water units | 31 |
| | Added one (1) micron filter to flush cart options | 32 |
| | Updated picture of item # 3727 | 33 |
| | Added new replacement pumps without volutes | 36 |
| | Added additional flange kits and flow center valve repair kits | 37 |
| | Updated Calculator information to include new Calculators | 38 |
| | Discontinued digital flow meter tool | 10, 11 |
| | Added Wilo Stratos insulated pumps with isolation valves | |
| | Added 2" valve box | 20 |
| | Added connection kits without hose (listed with 1101 & 1181) | 21 |
| | Added Flo-Link x 1" FPT isolation valve set | 23 |
| | Added fusion adapter tee, 2" fusion x 2" fusion x 1/4" FPT | |
| | Added fusion adapter, 1" socket fusion x 1" MPT | 28 |
| 11APR2013 | Added pump enable relay (up to 5 units) | |
| | Added Wilo external off interface module | 29 |
| | Updated insulated pumps to include isolation valves | |
| | Added Magna GEO insulated (var. spd.) pump with isolation valves | 30 |
| | Corrected part number for water heater adapters | |
| | Added hose assembly with 1-1/2" loop side CAM fittings | 31 |
| | Added AC Magnetic Field Indicator tool | 32 |
| | Added Wilo replacement pumps | 35 |
| | Added hoses with 1-1/4" ball valves for flush cart | 31 |
| | Added gauge adapter for P/T plug | 32 |
| | Added 1" MPT x 1" CAM adapter | 32 |
| 30JAN2013 | Added replacement blade for chamfer tools | 33 |
| | Added UPS26-99 to replacement pump section | 35 |
| | Added flange sets | 35 |
| 14JAN2013 | First published | All |