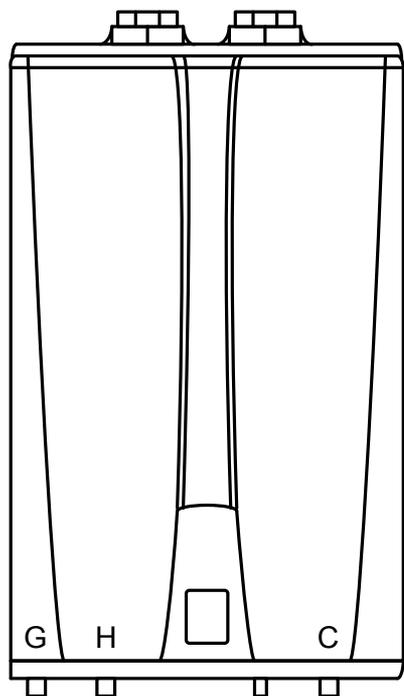
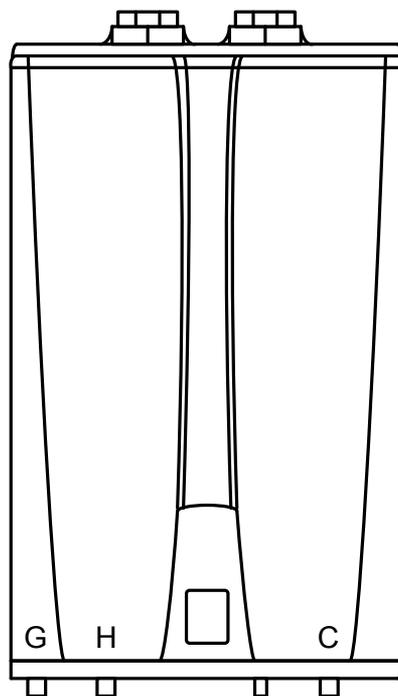


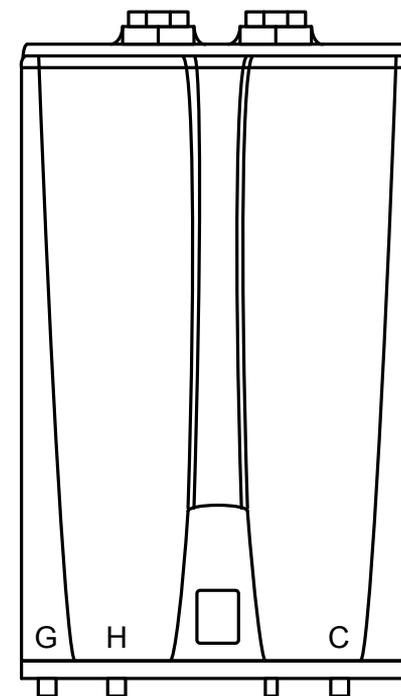
NPE Series Application Drawings



NPE-240S



NPE-210S



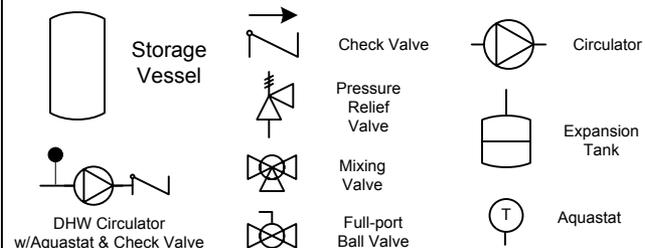
NPE-180S



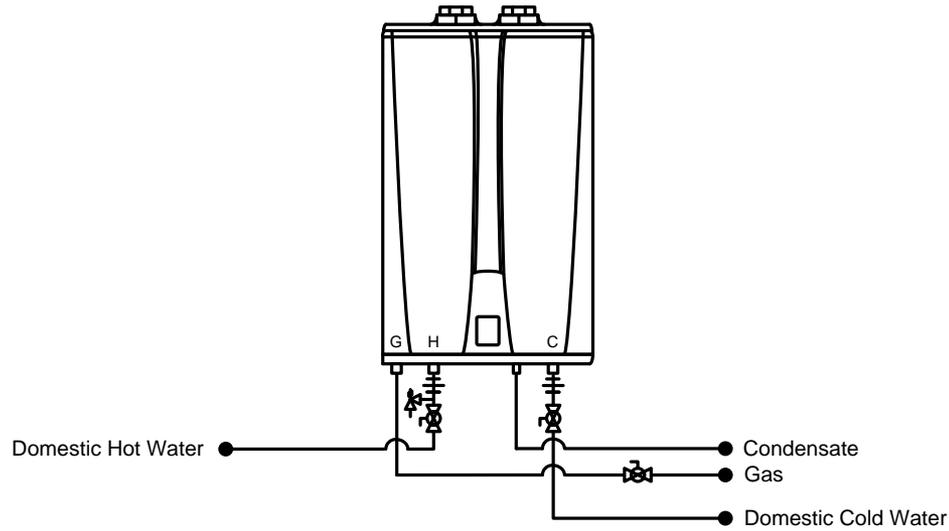
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Guide Only

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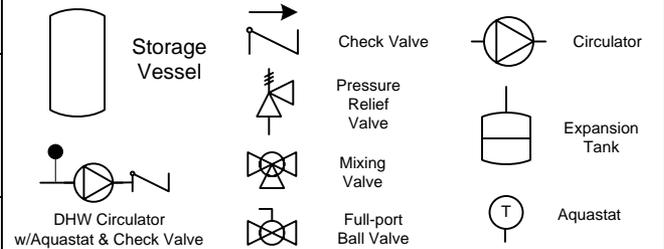
NPE-S Series Tankless Water Heater

One NPE-S Tankless
(Includes NPE-A, Internal Circulation Mode)

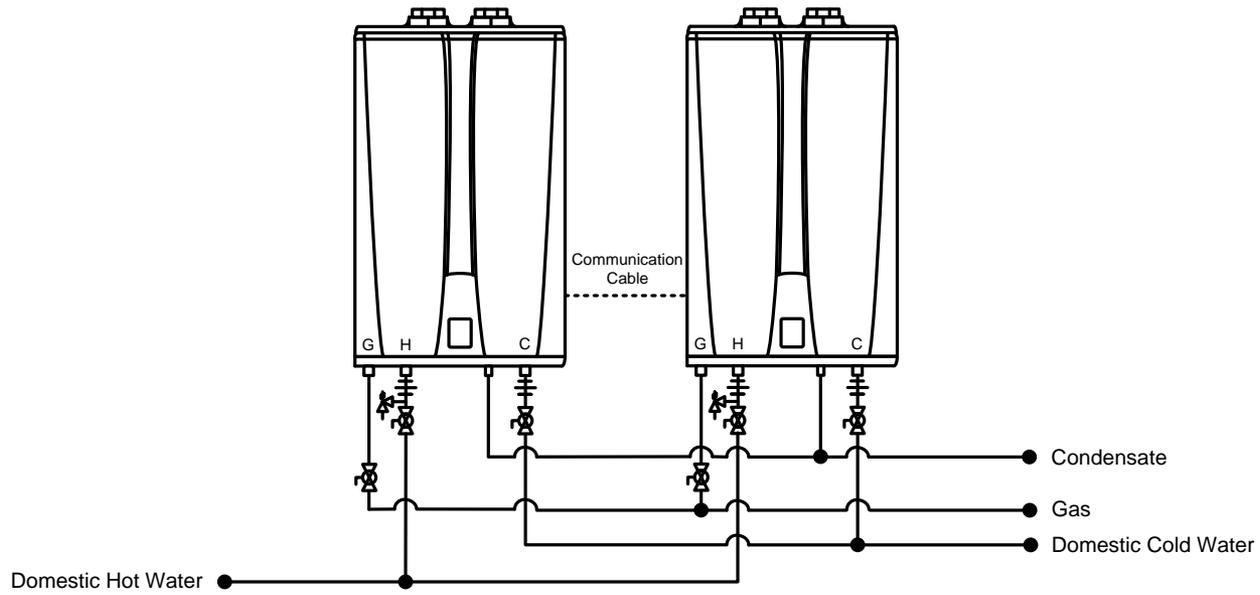
Drawn By: B. Fenske

NPE-S-1-BF02

August 1, 2013



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Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"



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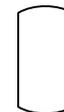
NPE-S Series Tankless Water Heater

Two NPE-S Tankless
(Includes NPE-A Internal Circulation Mode)

Drawn By: B. Fenske

NPE-S-2-I-BF02

August 1, 2013



Storage Vessel



Check Valve



Circulator



Pressure Relief Valve



Expansion Tank



DHW Circulator w/Aquastat & Check Valve



Mixing Valve

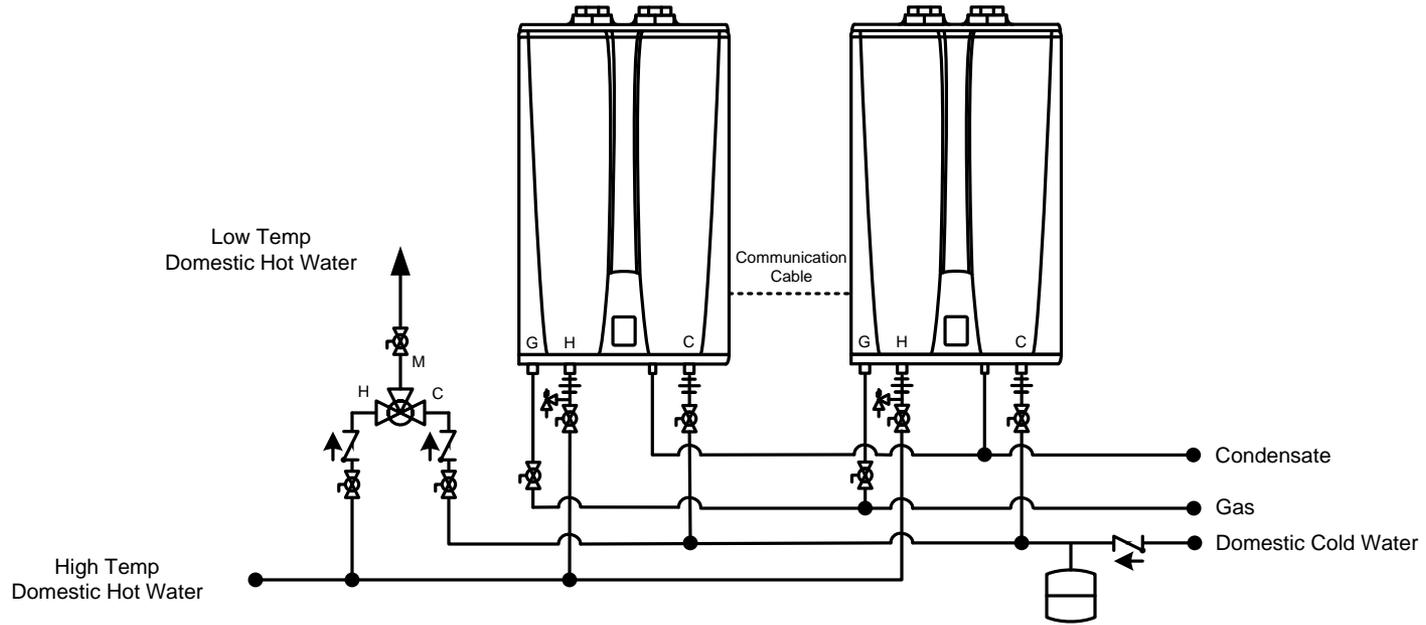


Aquastat



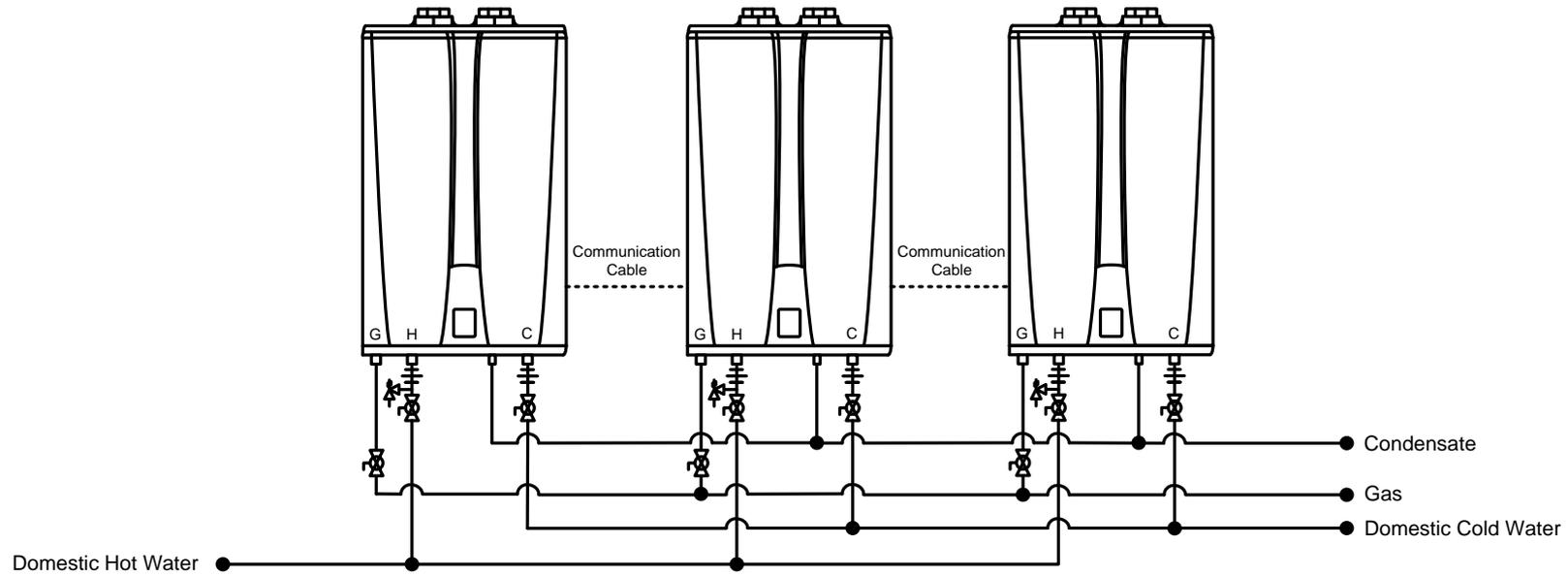
Full-port Ball Valve

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Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
 20 Goodyear Irvine, CA 92618 800-519-8794 www.Navien.com	NPE-S Series Tankless Water Heater				Storage Vessel DHW Circulator w/Aquastat & Check Valve Check Valve Pressure Relief Valve Mixing Valve Full-port Ball Valve Circulator Expansion Tank Aquastat		
	Two NPE-S Tankless With Two Temperature Operation						
Drawn By: B. Fenske	NPE-S-2LT-I-BF02	August 1, 2013					

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Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"

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NPE-S Series Tankless Water Heater

Three NPE-S Tankless
(Includes NPE-A Internal Circulation Mode)

Drawn By: B. Fenske

NPE-S-3-I-BF02

August 1, 2013



Storage Vessel



Check Valve



Circulator



Pressure Relief Valve



Expansion Tank



DHW Circulator w/Aquastat & Check Valve



Mixing Valve

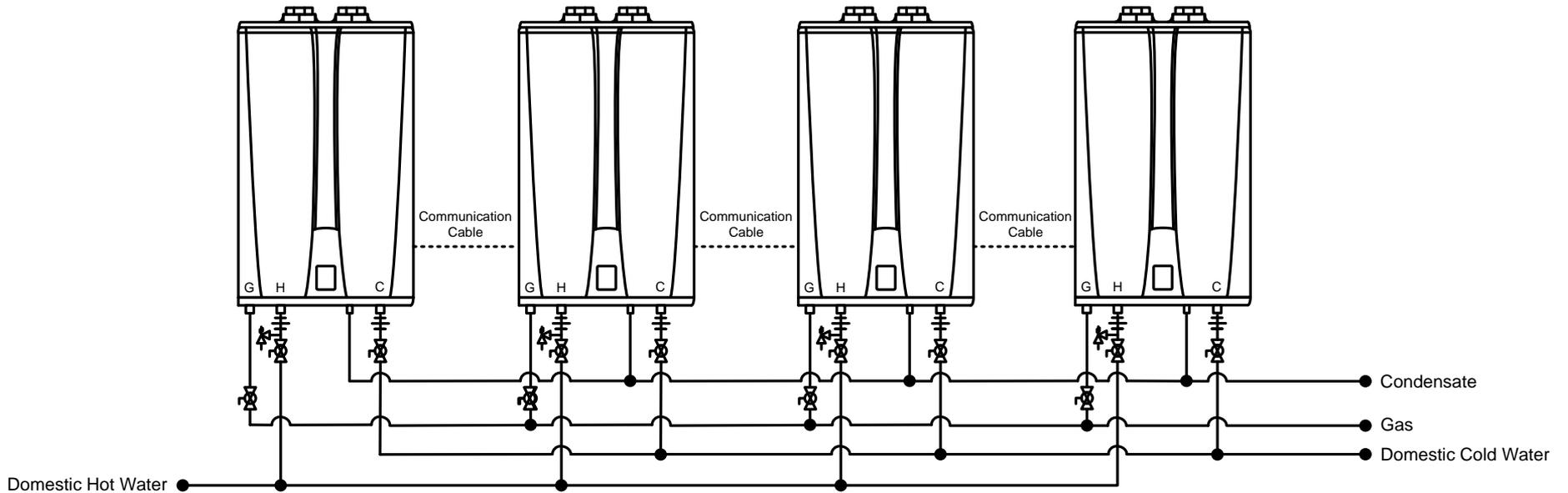


Full-port Ball Valve



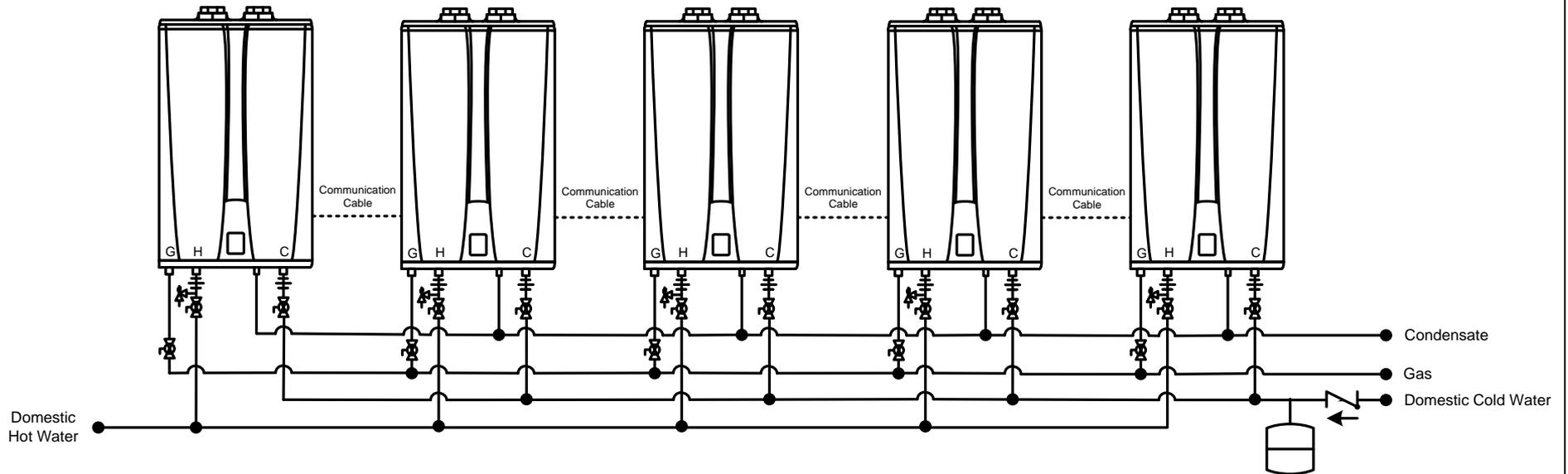
Aquastat

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Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
 20 Goodyear Irvine, CA 92618 800-519-8794 www.Navien.com	NPE-S Series Tankless Water Heater Four NPE-S Tankless (Includes NPE-A, Internal Circulation Mode)				Storage Vessel DHW Circulator w/Aquastat & Check Valve		
	Drawn By: B. Fenske NPE-S-4-I-BF02 August 1, 2013	Check Valve Pressure Relief Valve Mixing Valve Full-port Ball Valve			Circulator Expansion Tank Aquastat		

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Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"

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NPE-S Series Tankless Water Heater

Five NPE-S Tankless
(Includes NPE-A, Internal Circulation Mode)

Drawn By: B. Fenske

NPE-S-5-I-BF02

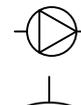
August 1, 2013



Storage Vessel



Check Valve



Circulator



Pressure Relief Valve



Expansion Tank



DHW Circulator w/Aquastat & Check Valve



Mixing Valve

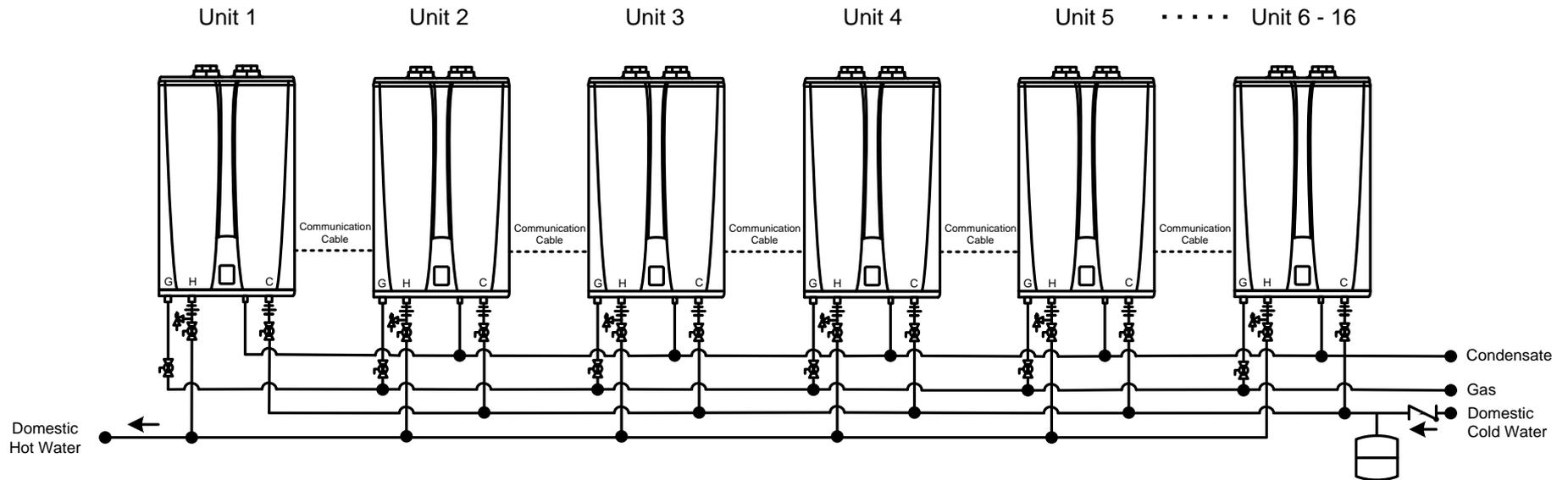


Full-port Ball Valve



Aquastat

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Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
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NPE-S Series Tankless Water Heater

**Six Plus NPE-S Tankless
(Includes NPE-A, Internal Circulation Mode)**

Drawn By: B. Fenske

NPE-S-6P-I-BF02

August 1, 2013



Storage Vessel



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure Relief Valve



Mixing Valve



Full-port Ball Valve



Circulator

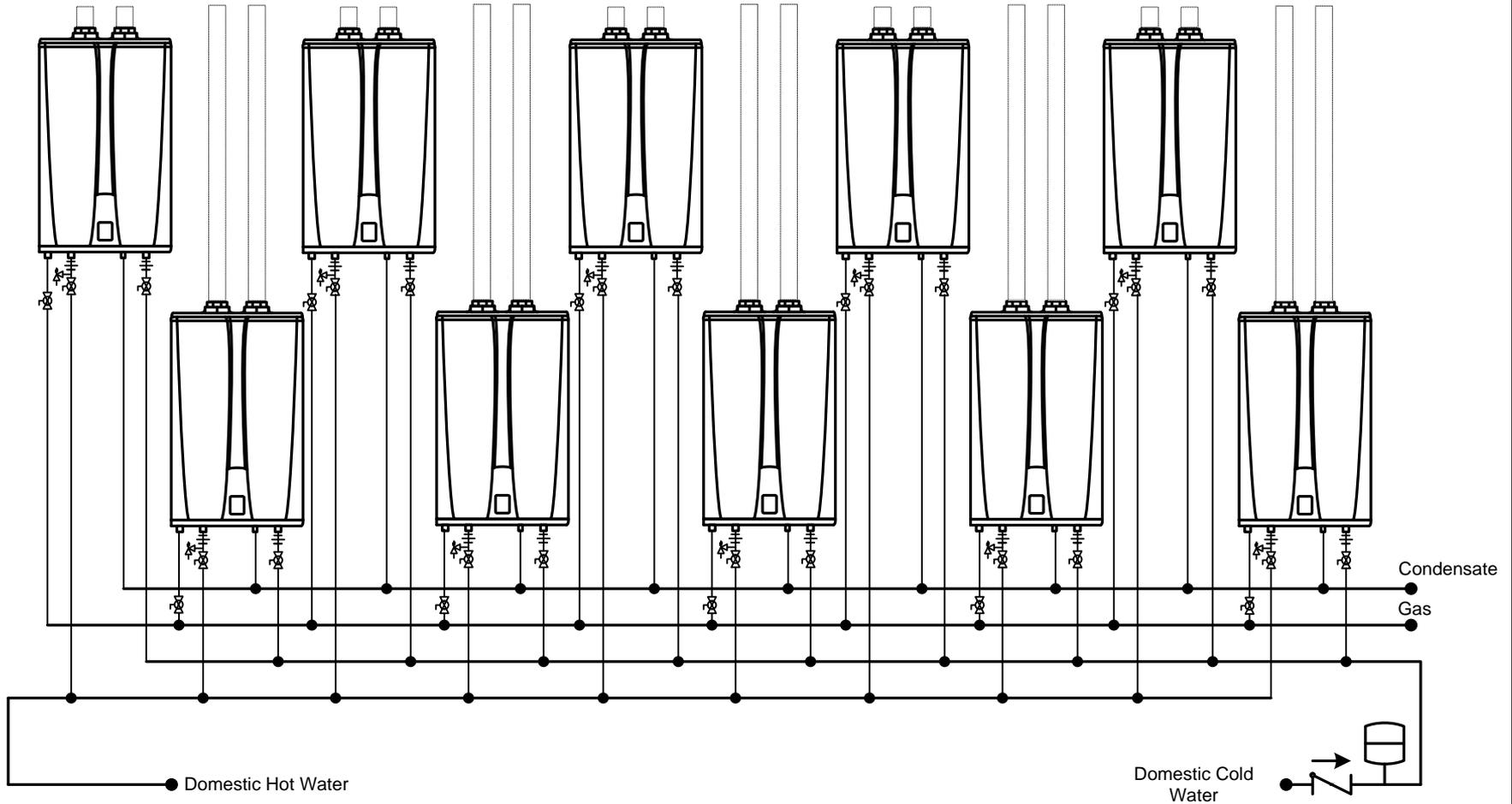


Expansion Tank



Aquastat

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Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"



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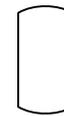
NPE-S Series Tankless Water Heater

Ten NPE-S Tankless
(Includes NPE-A, Internal Circulation Mode)
Alternative Mounting Shown

Drawn By: B. Fenske

NPE-A-10-E-BF02

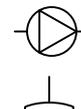
August 1, 2013



Storage Vessel



Check Valve



Circulator



Pressure Relief Valve



Expansion Tank



DHW Circulator
w/Aquastat & Check Valve



Mixing Valve



Full-port Ball Valve

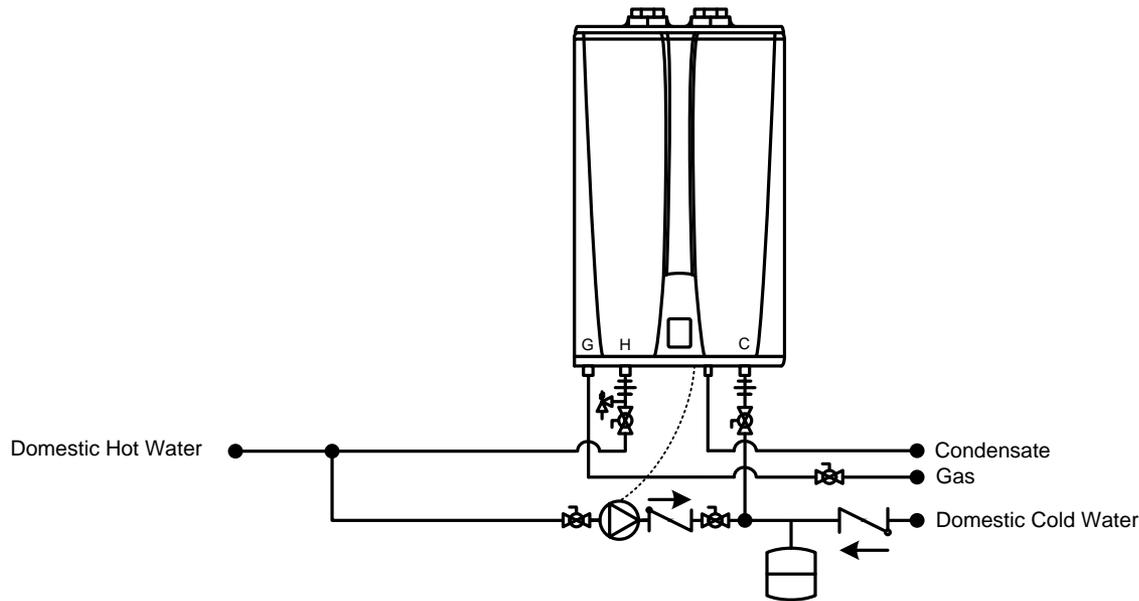


Aquastat

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Notes:

1. Use Navien Cord P #30011612A
 2. Set DIP Switches on Integrated Controller #1 – OFF, #2 – OFF, #3 – ON
 3. Select External Circulator Performance to be 2 GPM Minimum, 4 GPM Maximum based on 11 Psi drop @ 4 GPM at tankless
- * Refer to NPE Installation Manual for further details



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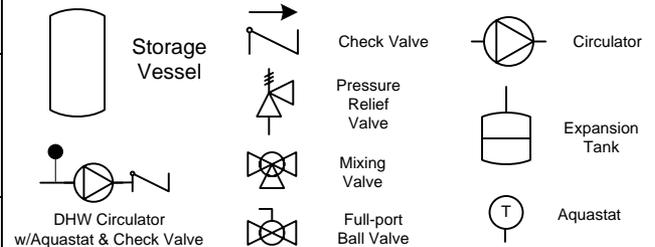
NPE-S Series Tankless Water Heater

One NPE-S Tankless
Using External Pump for Recirculation
with Part #30011612A External Pump Wire

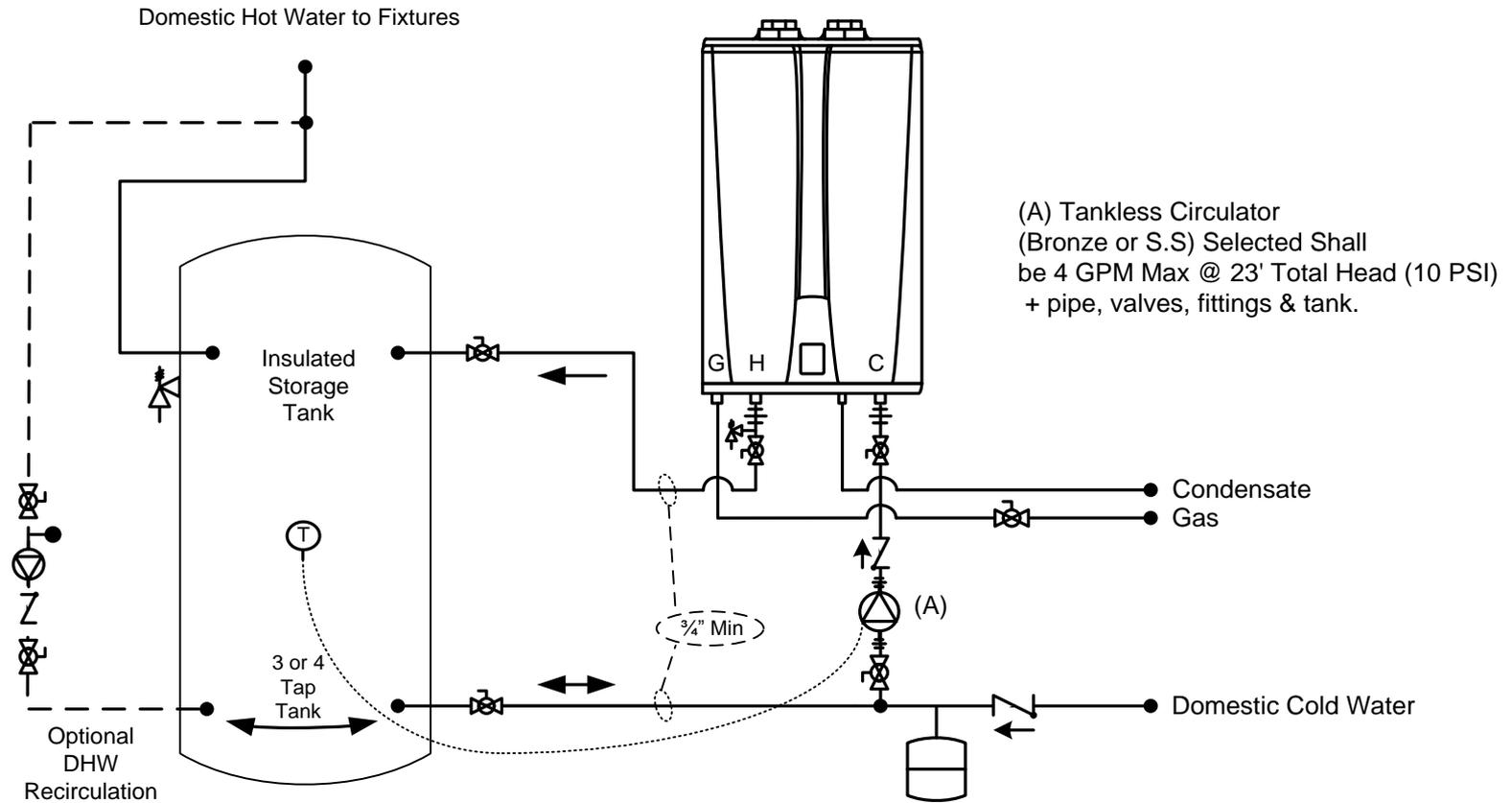
Drawn By: B. Fenske

NPE-S-1-PW-EC-BF02

August 1, 2013



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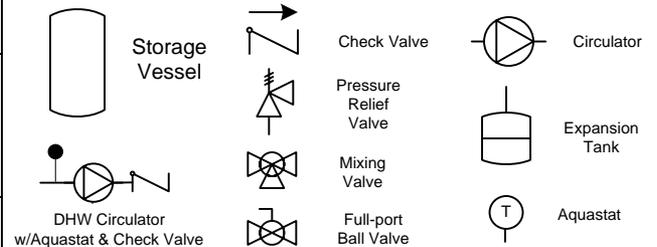
NPE-S Series Tankless Water Heater

One NPE-S with Storage
to meet Flow/Temp Rise Requirements

Drawn By: B. Fenske

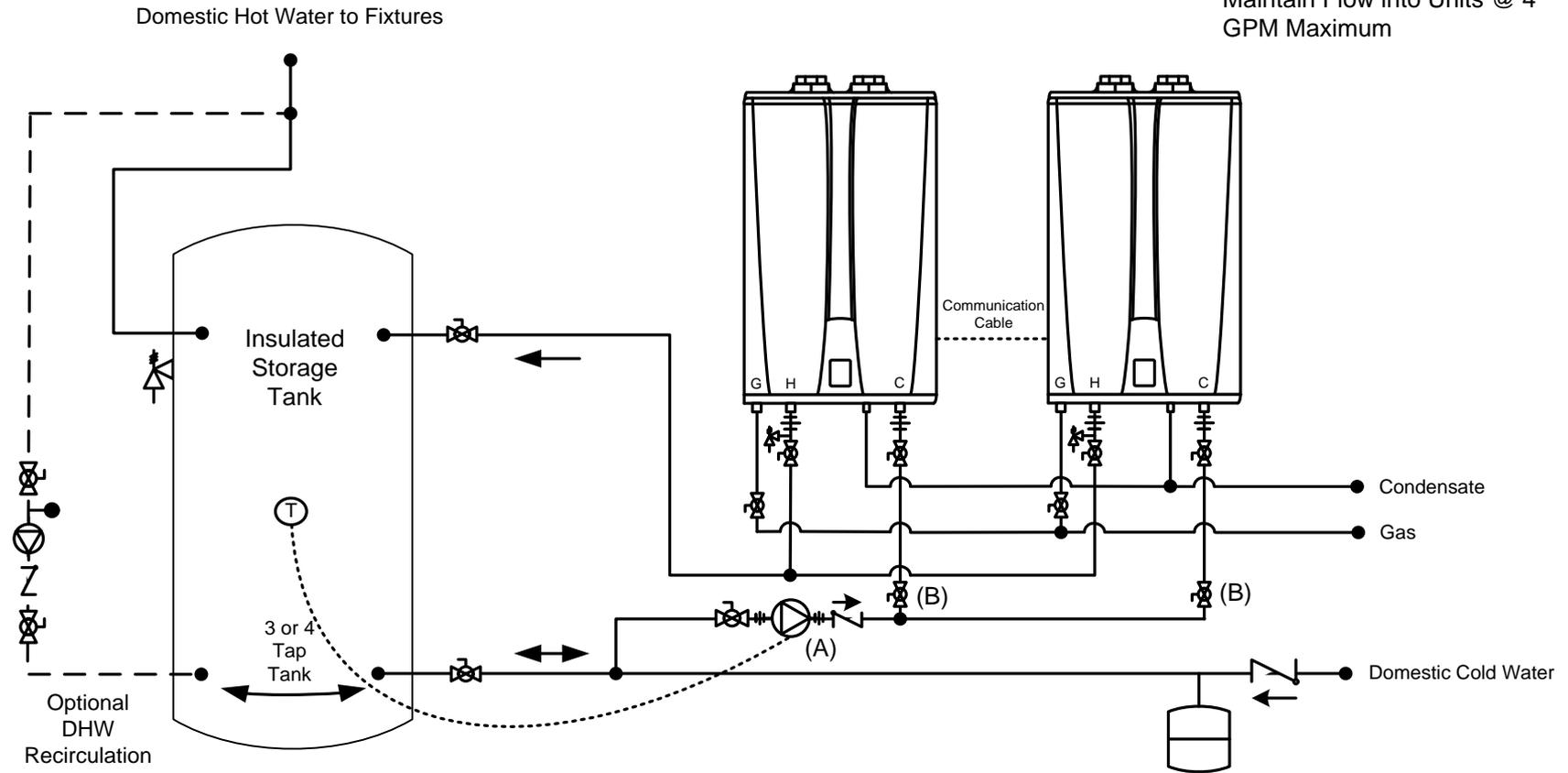
NPE-S-1-ST-BF02

August 1, 2013



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(A) Tankless Circulator
(Bronze or S.S) Selected Shall
be 8 GPM Max (4 Per Tankless)
@ 23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to
Maintain Flow into Units @ 4
GPM Maximum



Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"

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NPE-S Series Tankless Water Heater

Two NPE-S with Storage
to meet Flow/Temp Rise Requirements

Drawn By: B. Fenske

NPE-S-2-ST-BF02

August 1, 2013



Storage Vessel



Check Valve



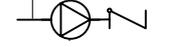
Pressure Relief Valve



Mixing Valve



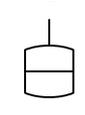
Full-port Ball Valve



DHW Circulator
w/Aquastat & Check Valve



Circulator



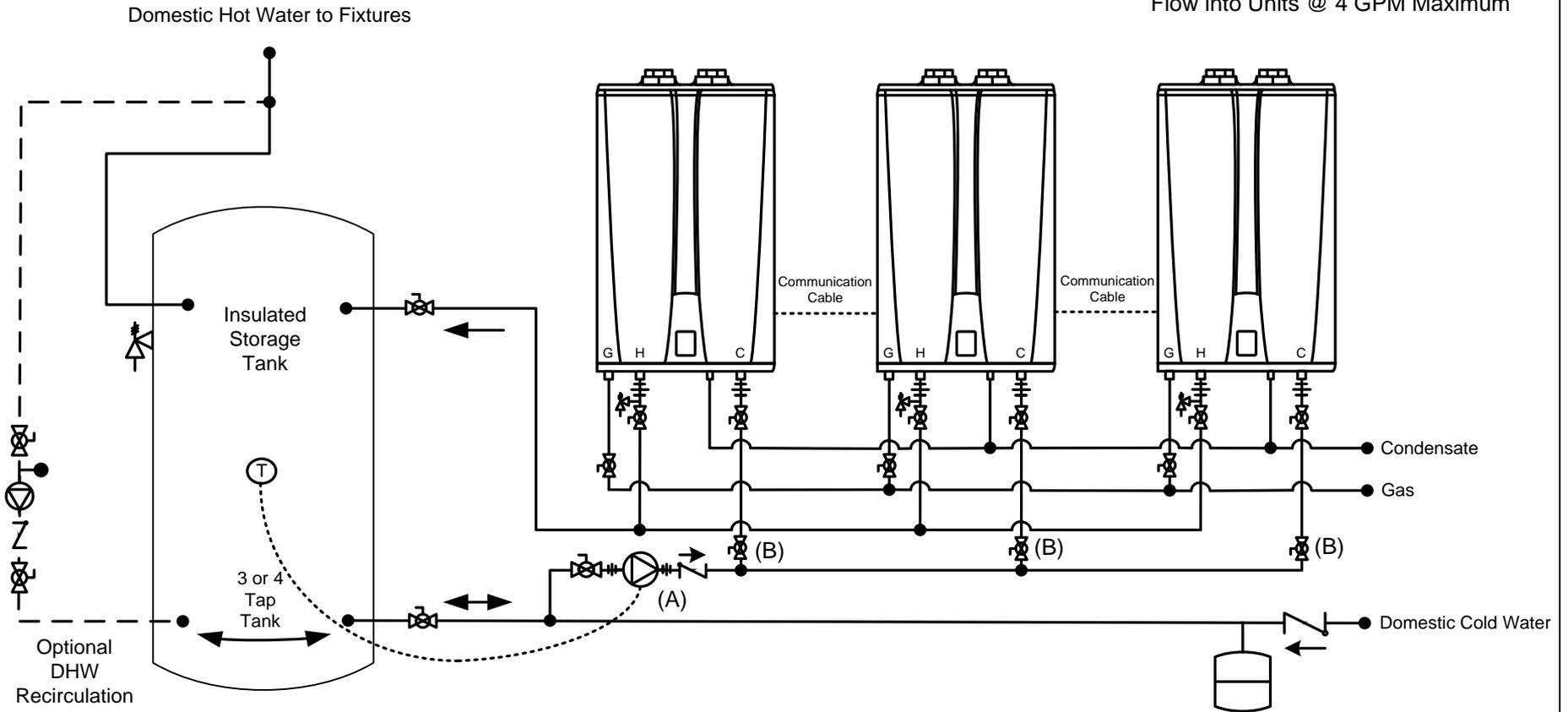
Expansion Tank



Aquastat

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(A) Tankless Circulator
(Bronze or S.S) Selected Shall be
12 GPM Max (4 Per Tankless) @
23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to Maintain
Flow into Units @ 4 GPM Maximum



Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
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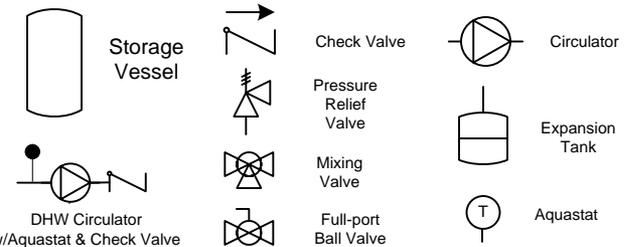
NPE-S Series Tankless Water Heater

Three NPE-S with Storage
to meet Flow/Temp Rise Requirements

Drawn By: B. Fenske

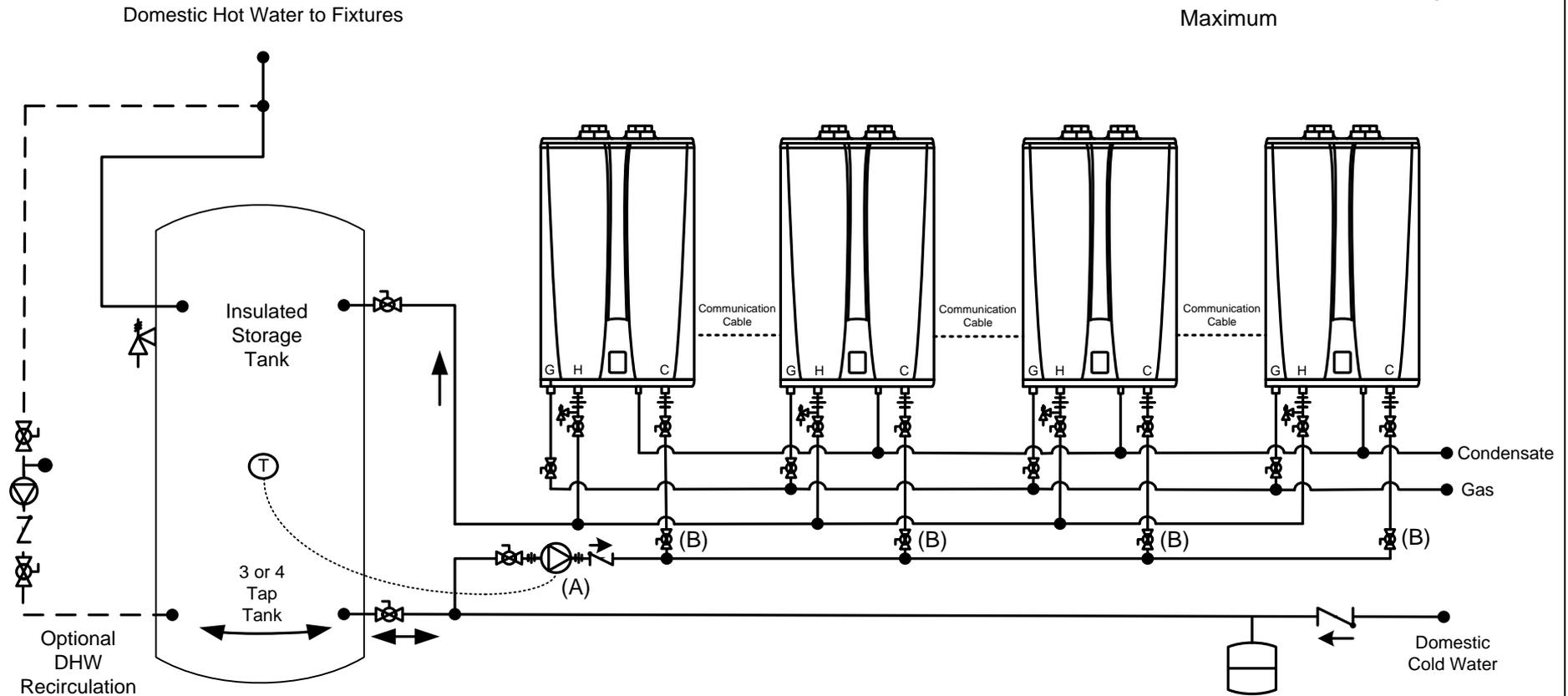
NPE-S-3-ST-BF02

August 1, 2013



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(A) Tankless Circulator
(Bronze or S.S) Selected Shall be
16 GPM Max (4 Per Tankless) @
23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to
Maintain Flow into Units @ 4 GPM
Maximum



Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
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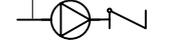
NPE-S Series Tankless Water Heater

Four NPE-S with Storage
to meet Flow/Temp Rise Requirements

Drawn By: B. Fenske

NPE-S-4-ST-BF02

August 1, 2013



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure
Relief
Valve



Mixing
Valve



Full-port
Ball Valve

Expansion
Tank



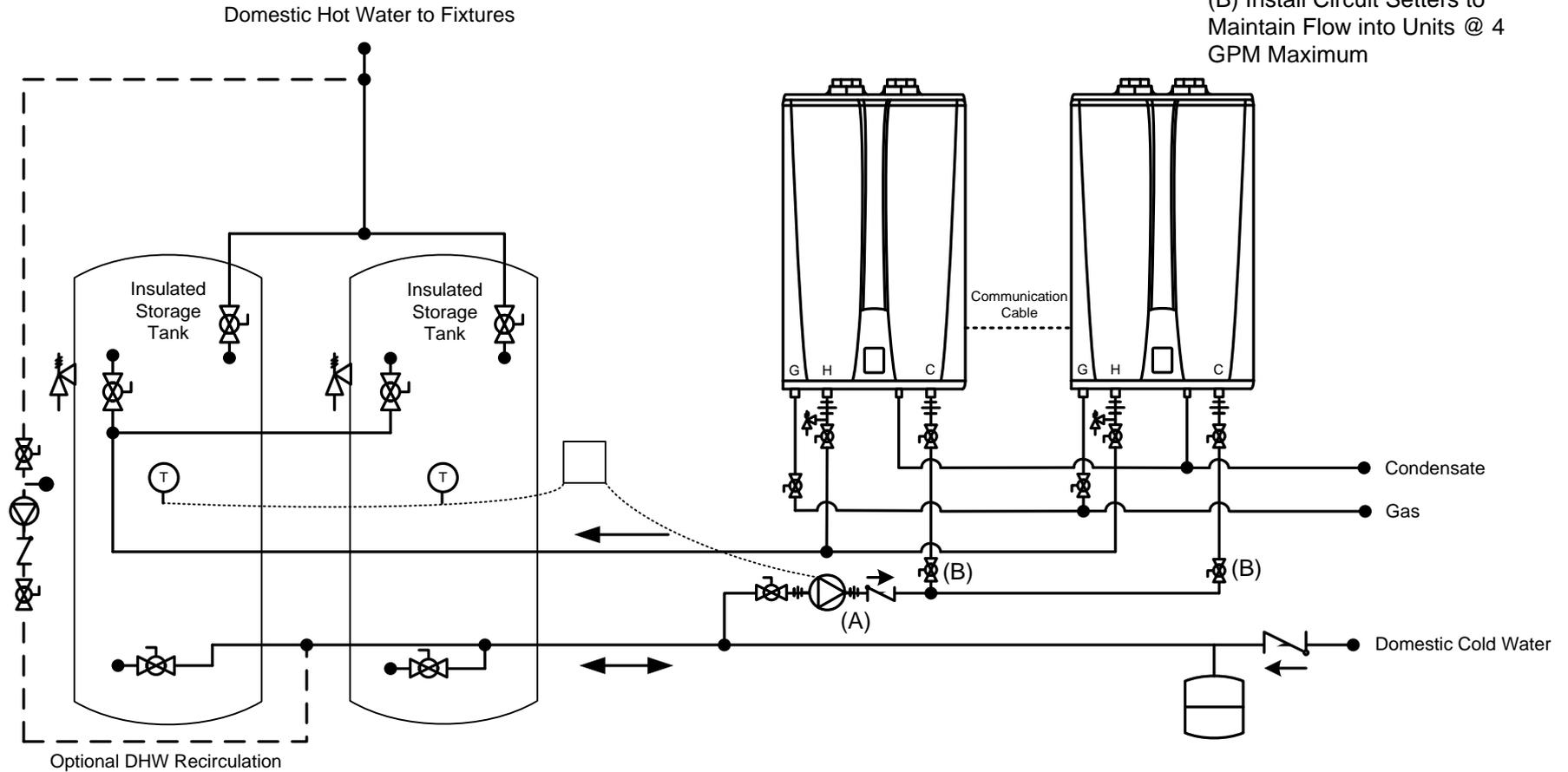
Circulator



Aquastat

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(A) Tankless Circulator
(Bronze or S.S) Selected Shall be 8 GPM Max (4 Per Tankless)
@ 23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to Maintain Flow into Units @ 4 GPM Maximum



Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"



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NPE-S Series Tankless Water Heater

Two NPE-S with Two Storage Tanks
to meet Flow/Temp Rise Requirements

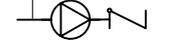
Drawn By: B. Fenske

NPE-S-2-2ST-BF02

August 1, 2013



Storage Vessel



DHW Circulator
w/Aquastat & Check Valve



Check Valve



Pressure Relief Valve



Mixing Valve



Full-port Ball Valve



Circulator



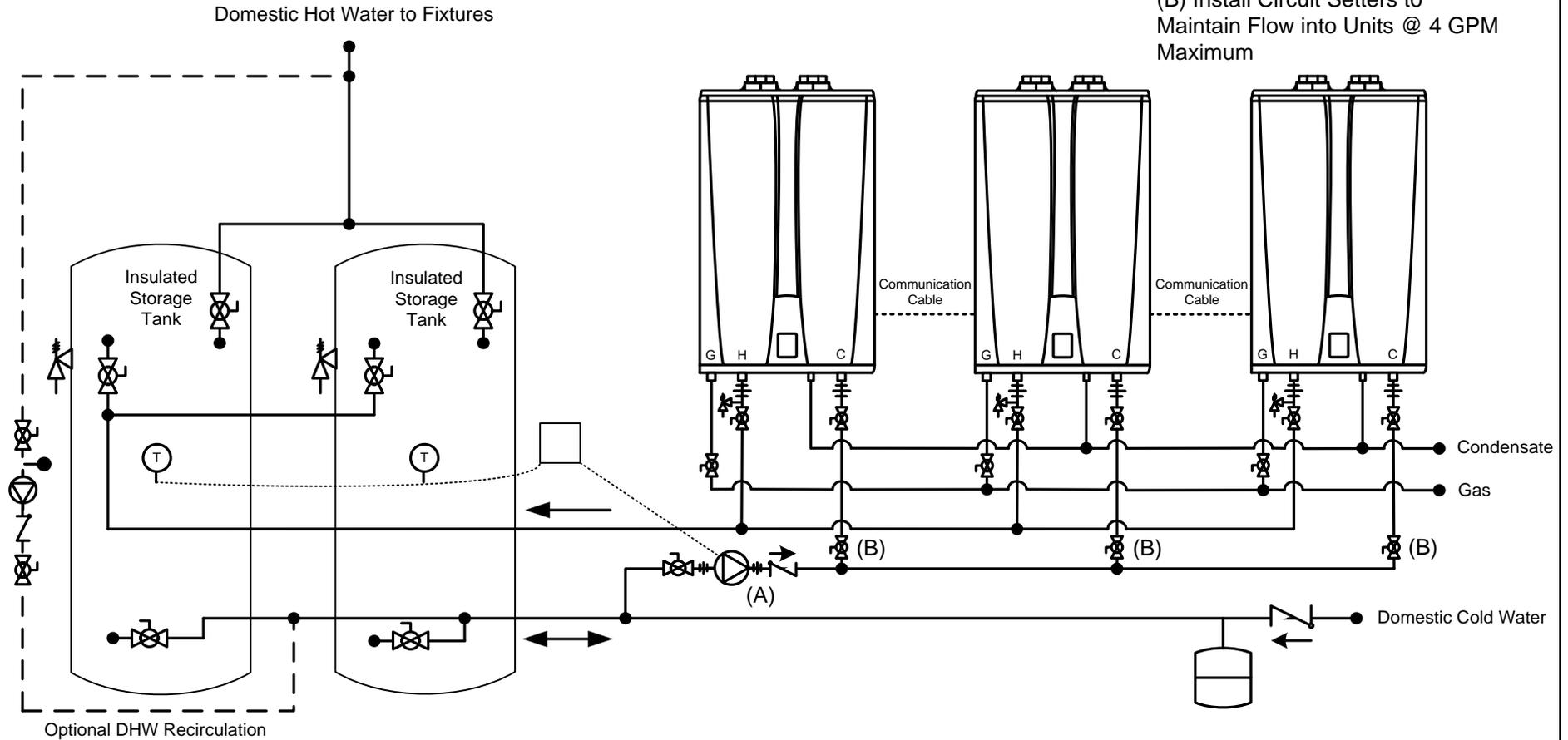
Expansion Tank



Aquastat

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(A) Tankless Circulator
(Bronze or S.S) Selected Shall be
12 GPM Max (4 Per Tankless) @
23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to
Maintain Flow into Units @ 4 GPM
Maximum



Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
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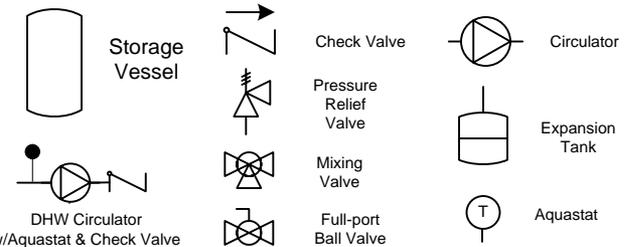
NPE-S Series Tankless Water Heater

Three NPE-S with Two Storage Tanks
to meet Flow/Temp Rise Requirements

Drawn By: B. Fenske

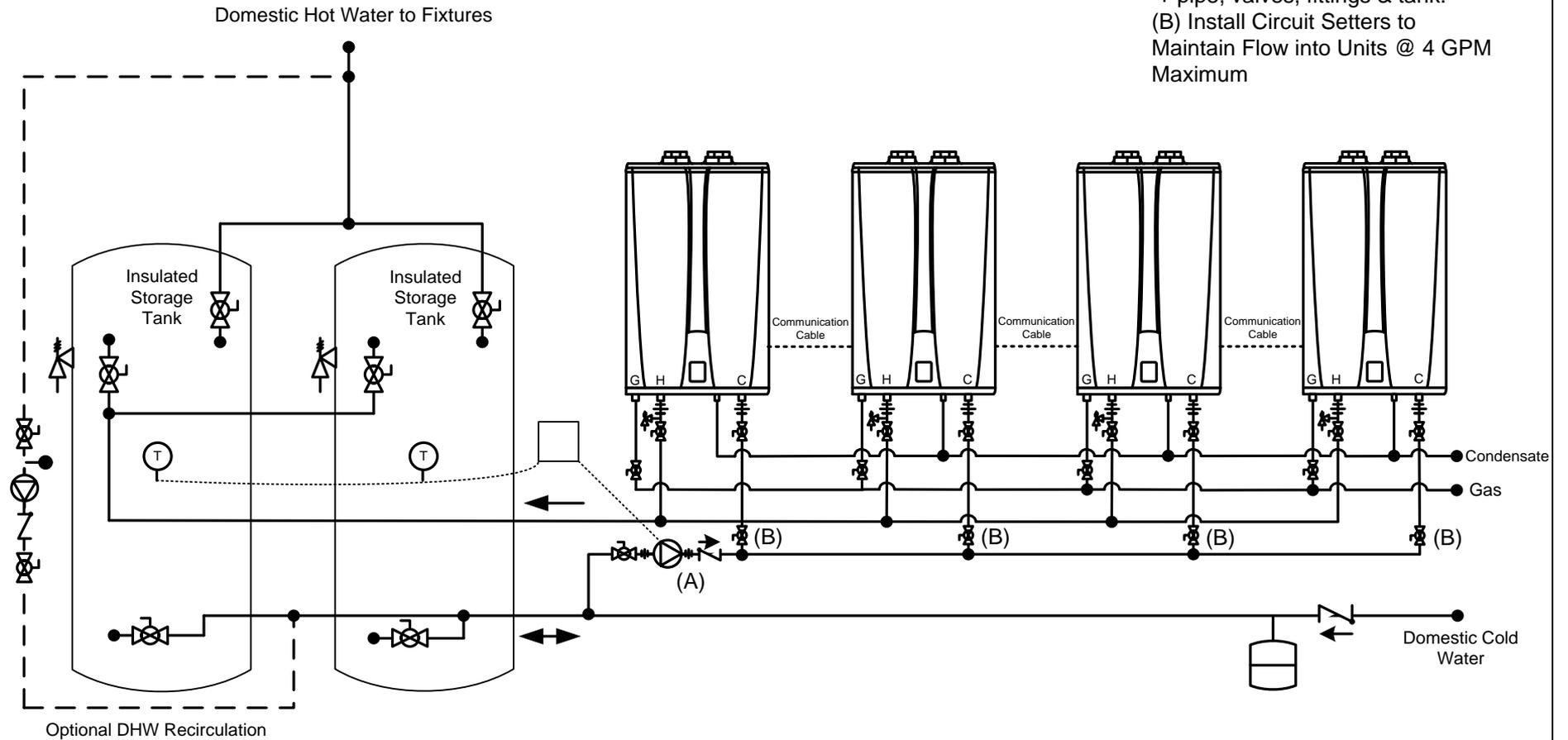
NPE-S-3-2ST-BF02

August 1, 2013



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(A) Tankless Circulator
(Bronze or S.S) Selected Shall be
16 GPM Max (4 Per Tankless) @
23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to
Maintain Flow into Units @ 4 GPM
Maximum



Recommended Pipe Size/Heater Count

1 Unit - 3/4"

2 Units - 1"

3 Units - 1-1/4"

4 to 5 Units - 1-1/2"

6 to 8 Units - 2"

9 to 14 Units - 2-1/2"

15 to 16 Units - 3"

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NPE-S Series Tankless Water Heater

Four NPE-S with Two Storage Tanks
to meet Flow/Temp Rise Requirements

Drawn By: B. Fenske

NPE-S-4-2ST-BF02

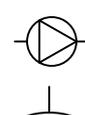
August 1, 2013



Storage Vessel



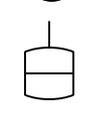
Check Valve



Circulator



Pressure Relief Valve



Expansion Tank



DHW Circulator
w/Aquastat & Check Valve



Mixing Valve



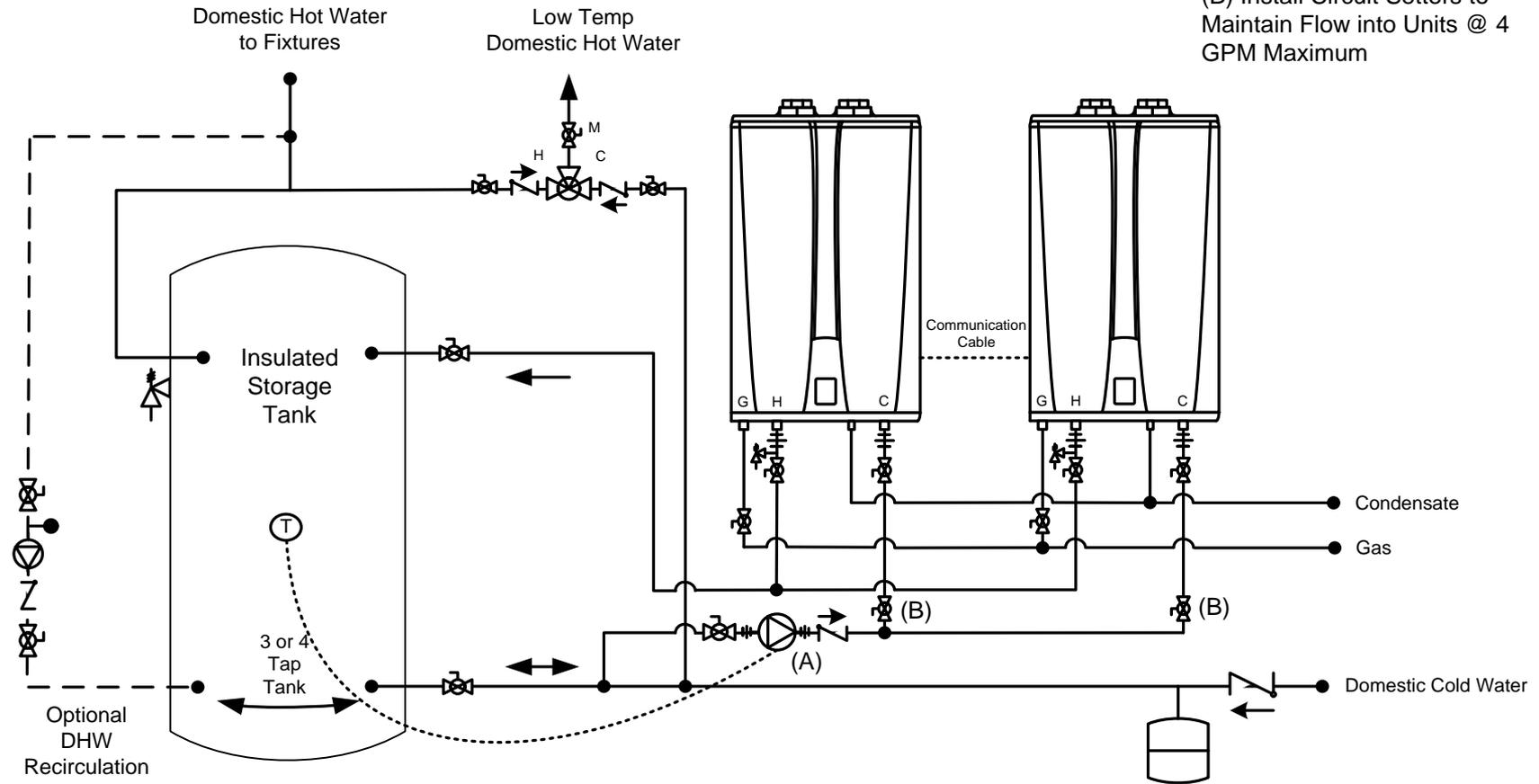
Full-port Ball Valve



Aquastat

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(A) Tankless Circulator
(Bronze or S.S) Selected Shall
be 8 GPM Max (4 Per Tankless)
@ 23' Total Head (10 PSI)
+ pipe, valves, fittings & tank.
(B) Install Circuit Setters to
Maintain Flow into Units @ 4
GPM Maximum



Recommended Pipe Size/Heater Count	1 Unit - 3/4"	2 Units - 1"	3 Units - 1-1/4"	4 to 5 Units - 1-1/2"	6 to 8 Units - 2"	9 to 14 Units - 2-1/2"	15 to 16 Units - 3"
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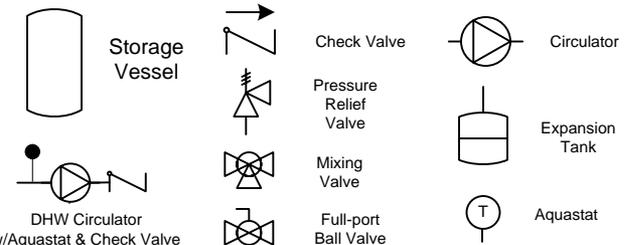
NPE-S Series Tankless Water Heater

Two NPE-S with Storage
to meet Flow/Temp Rise Requirements
Two Temperature System

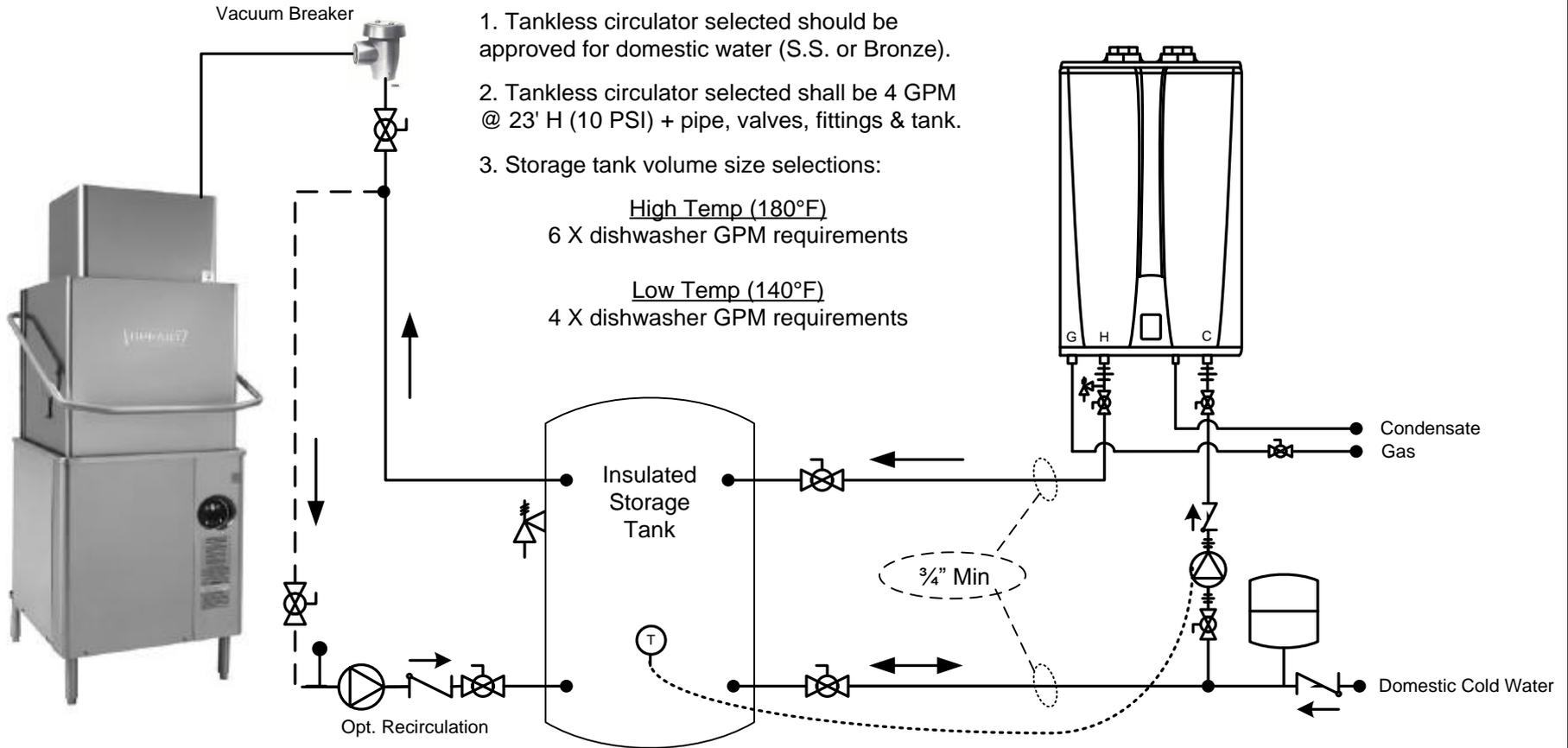
Drawn By: B. Fenske

NPE-S-2-STLT-BF02

August 1, 2013



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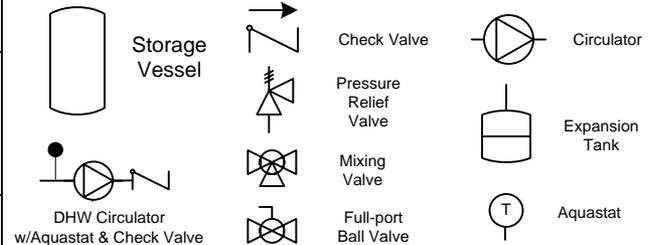
NPE-S Series Tankless Water Heater

One Navien NPE-S Dishwasher Application
With Storage to meet Flow/Temp
Rise Requirements

Drawn By: B. Fenske

NPE-S-1-DW-BF02

August 1, 2013



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- (A) Tankless Circulator (Bronze or S.S) Selected Shall be 4 GPM Max per Tankless @ 23' Total Head (10 PSI) + pipe, valves, fittings & tank.
- (B) Install Circuit Setters to Maintain Flow into Units @ 4 GPM Maximum.

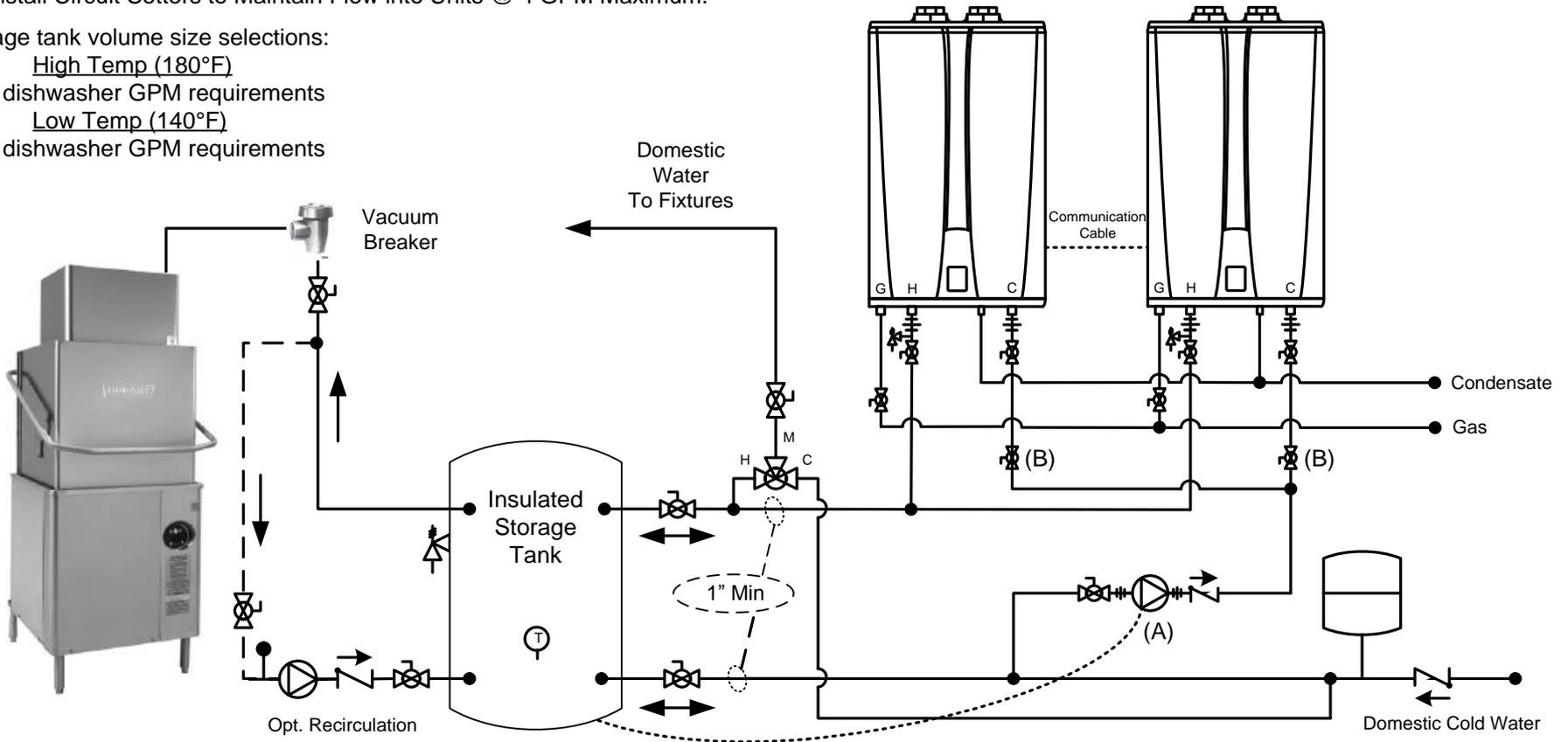
Storage tank volume size selections:

High Temp (180°F)

6 X dishwasher GPM requirements

Low Temp (140°F)

4 X dishwasher GPM requirements



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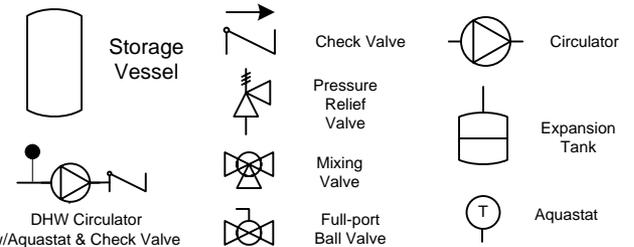
NPE-S Series Tankless Water Heater

Two Navien NPE-S Dishwasher Application
With Storage to meet Flow/Temp
Rise Requirements

Drawn By: B. Fenske

NPE-S-2-DW-DHW-BF02

August 1, 2013



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- (A) Tankless Circulator (Bronze or S.S) Selected Shall be 4 GPM Max per Tankless @ 23' Total Head (10 PSI) + pipe, valves, fittings & tank.
- (B) Install Circuit Setters to Maintain Flow into Units @ 4 GPM Maximum.

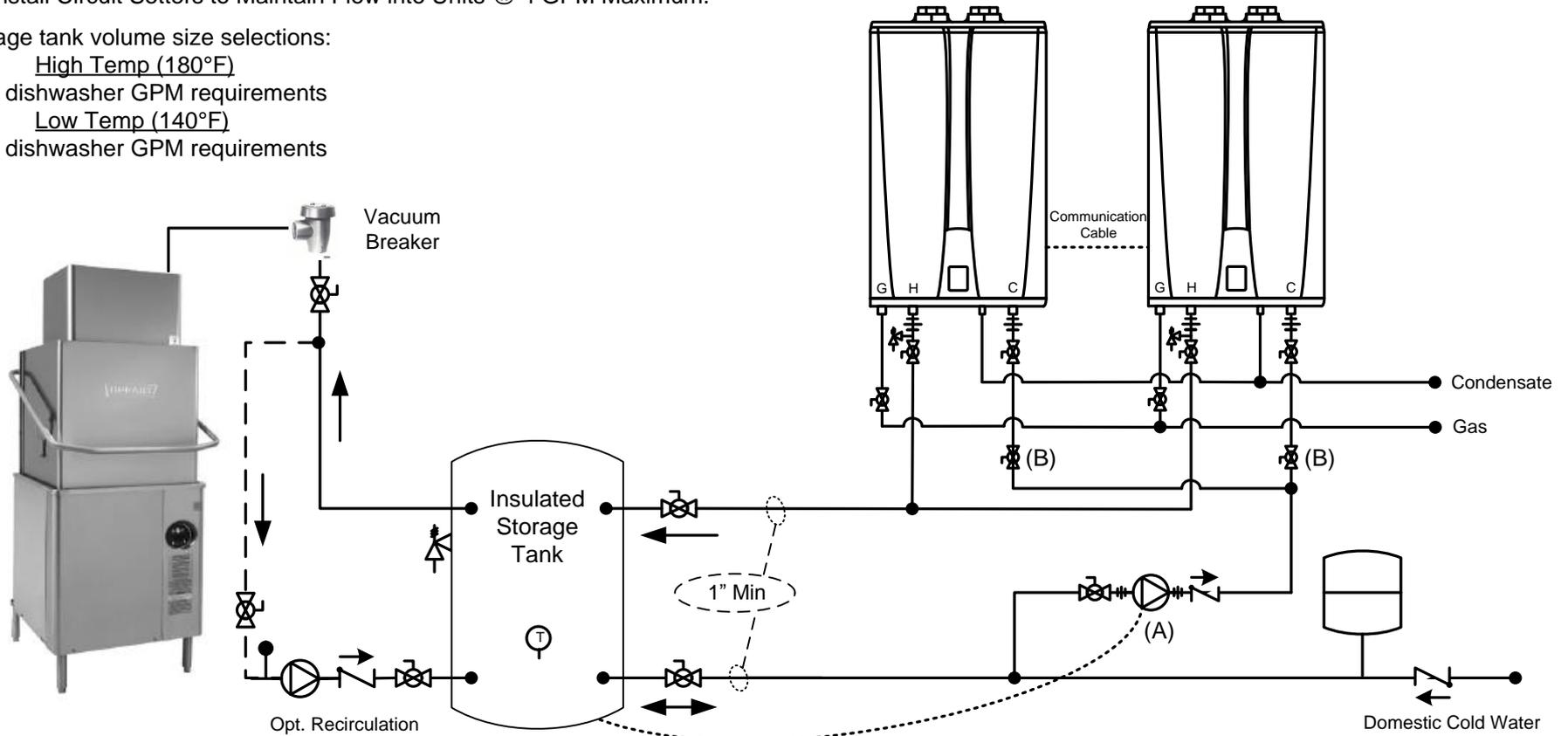
Storage tank volume size selections:

High Temp (180°F)

6 X dishwasher GPM requirements

Low Temp (140°F)

4 X dishwasher GPM requirements



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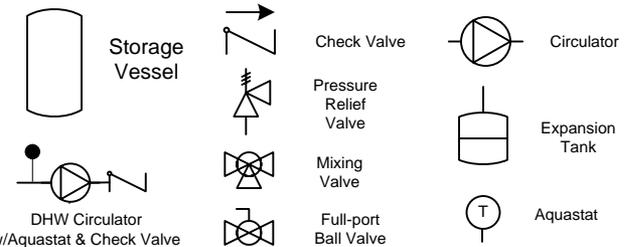
NPE-S Series Tankless Water Heater

Two Navien NPE-S Dishwasher Application
With Storage to meet Flow/Temp
Rise Requirements

Drawn By: B. Fenske

NPE-S-2-DW-BF02

August 1, 2013



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- (A) Tankless Circulator (Bronze or S.S) Selected Shall be 4 GPM Max per Tankless @ 23' Total Head (10 PSI) + pipe, valves, fittings & tank.
- (B) Install Circuit Setters to Maintain Flow into Units @ 4 GPM Maximum.

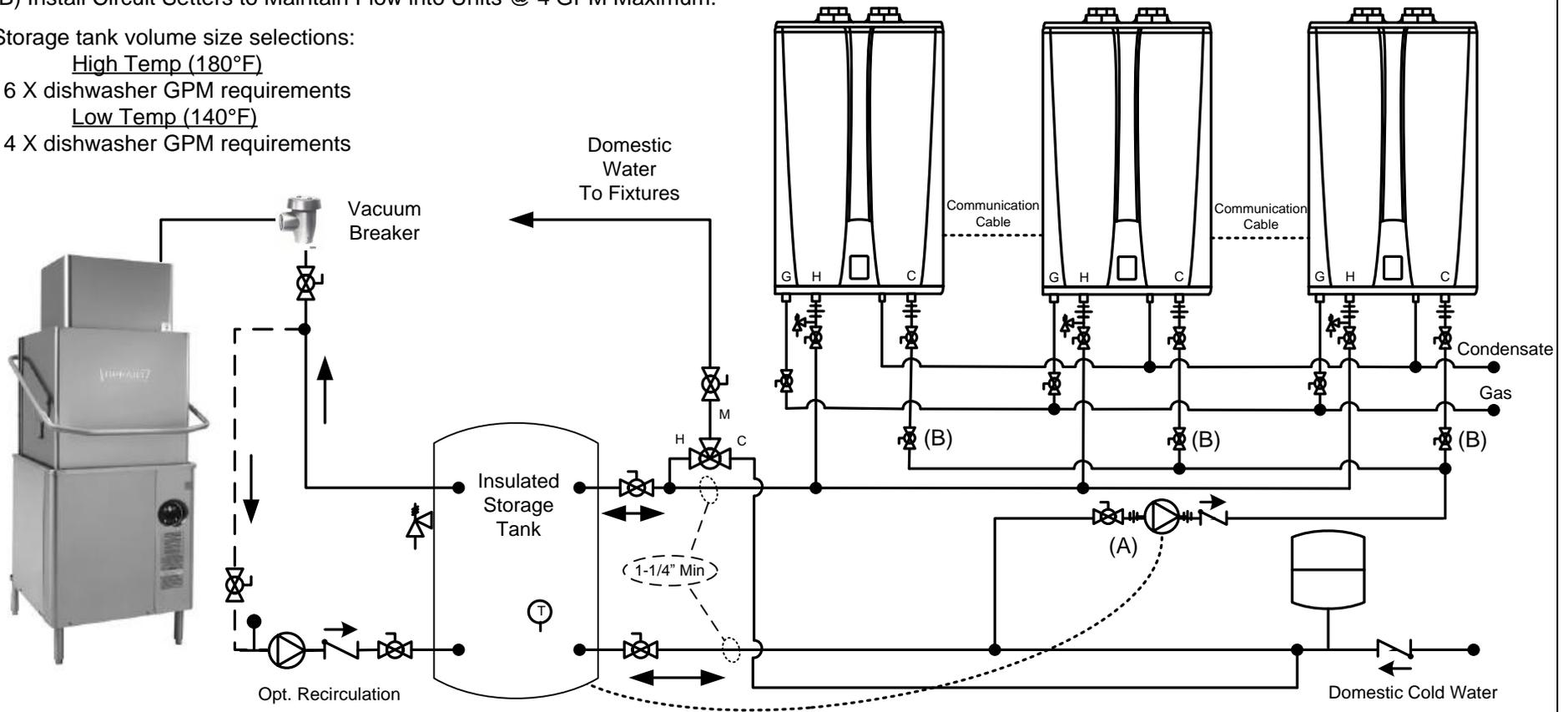
Storage tank volume size selections:

High Temp (180°F)

6 X dishwasher GPM requirements

Low Temp (140°F)

4 X dishwasher GPM requirements



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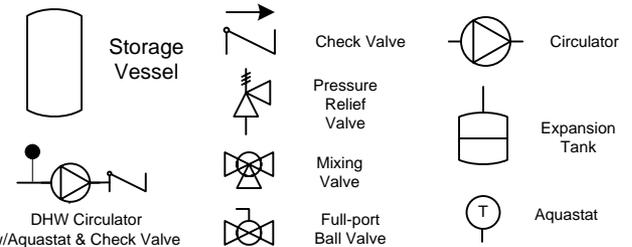
NPE-S Series Tankless Water Heater

Three Navien NPE-S Dishwasher Application
With Storage to meet Flow/Temp
Rise Requirements

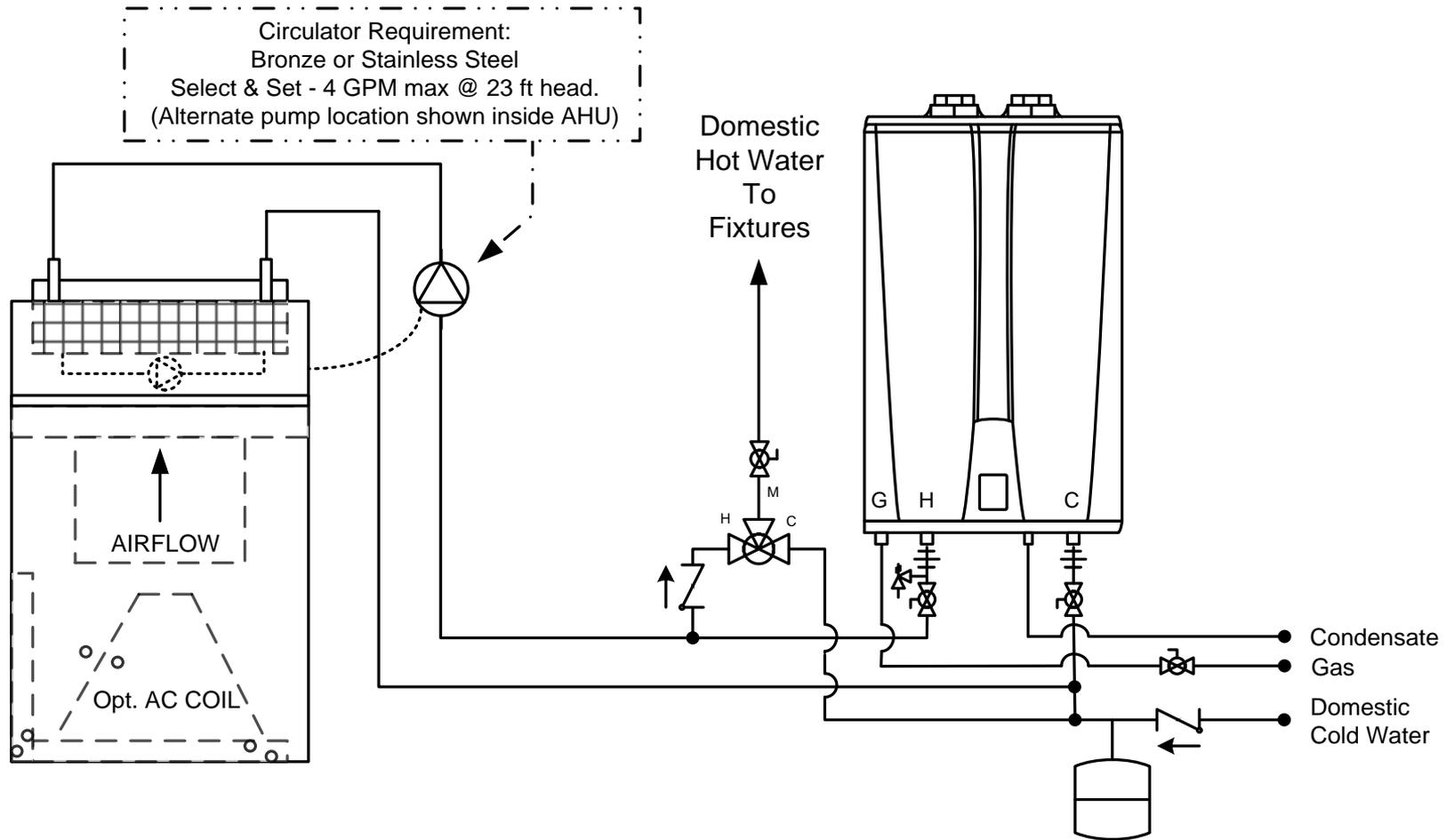
Drawn By: B. Fenske

NPE-S-3-DW-DHW-BF02

August 1, 2013



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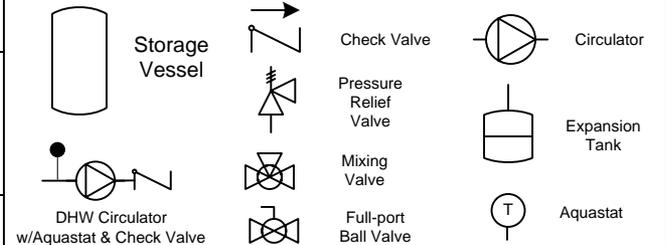
NPE-S Series Tankless Water Heater

Navien NPE-S Series Tankless
Combi Use Application with Air Handler

Drawn By: B. Fenske

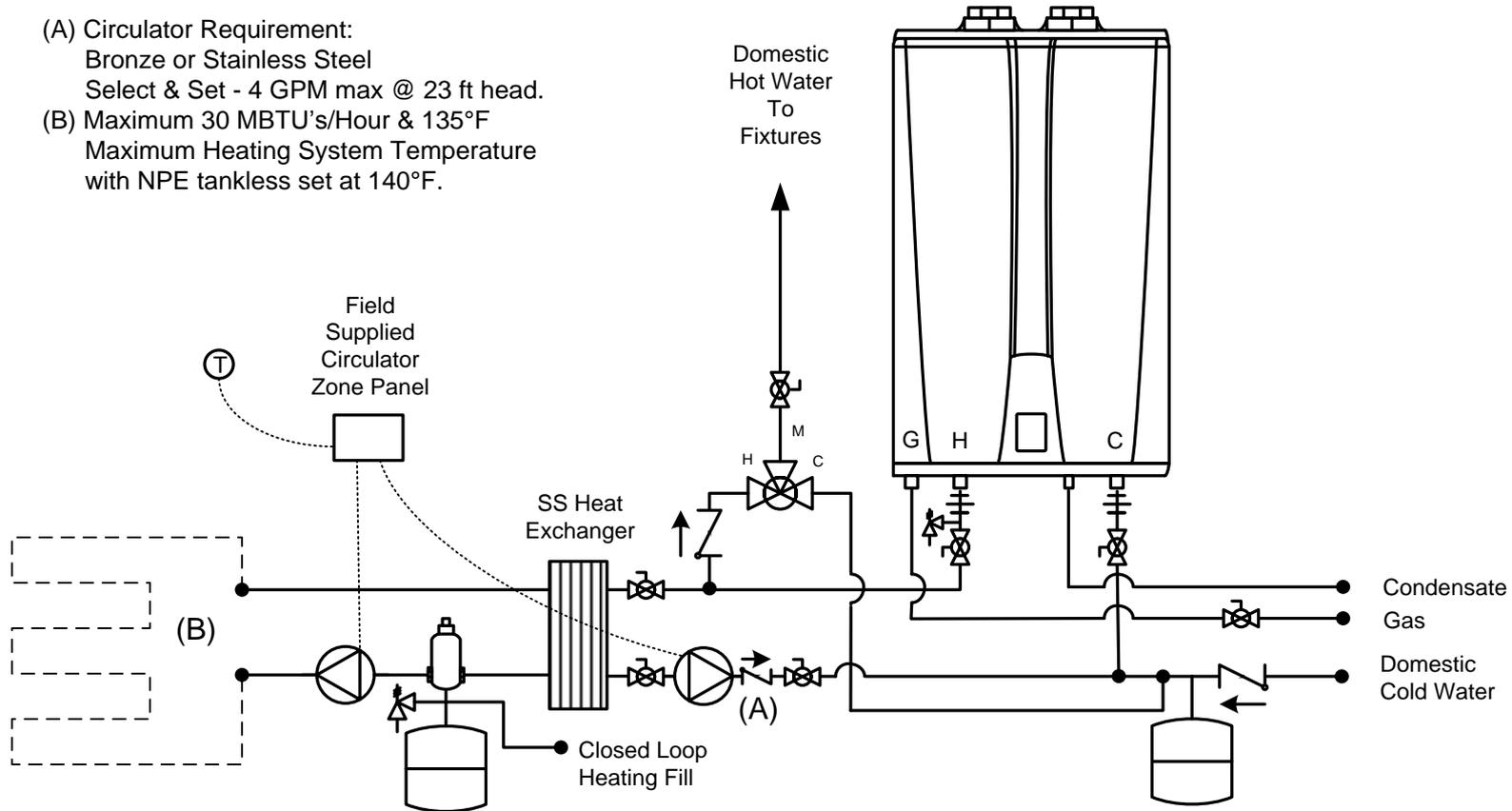
NPE-S-Combi-AH-BF02

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- (A) Circulator Requirement:
Bronze or Stainless Steel
Select & Set - 4 GPM max @ 23 ft head.
- (B) Maximum 30 MBTU's/Hour & 135°F
Maximum Heating System Temperature
with NPE tankless set at 140°F.



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NPE-S Series Tankless Water Heater

Navien NPE-S Series Tankless
Combi Use Application with Required
SS Heat Exchanger

Drawn By: B. Fenske

NPE-S-Combi-SS-BF02

August 1, 2013



Air
Elimination



Check Valve



Pressure
Relief
Valve



Mixing
Valve



Full-port
Ball Valve



DHW Circulator
w/Aquastat & Check Valve



Circulator



Expansion
Tank

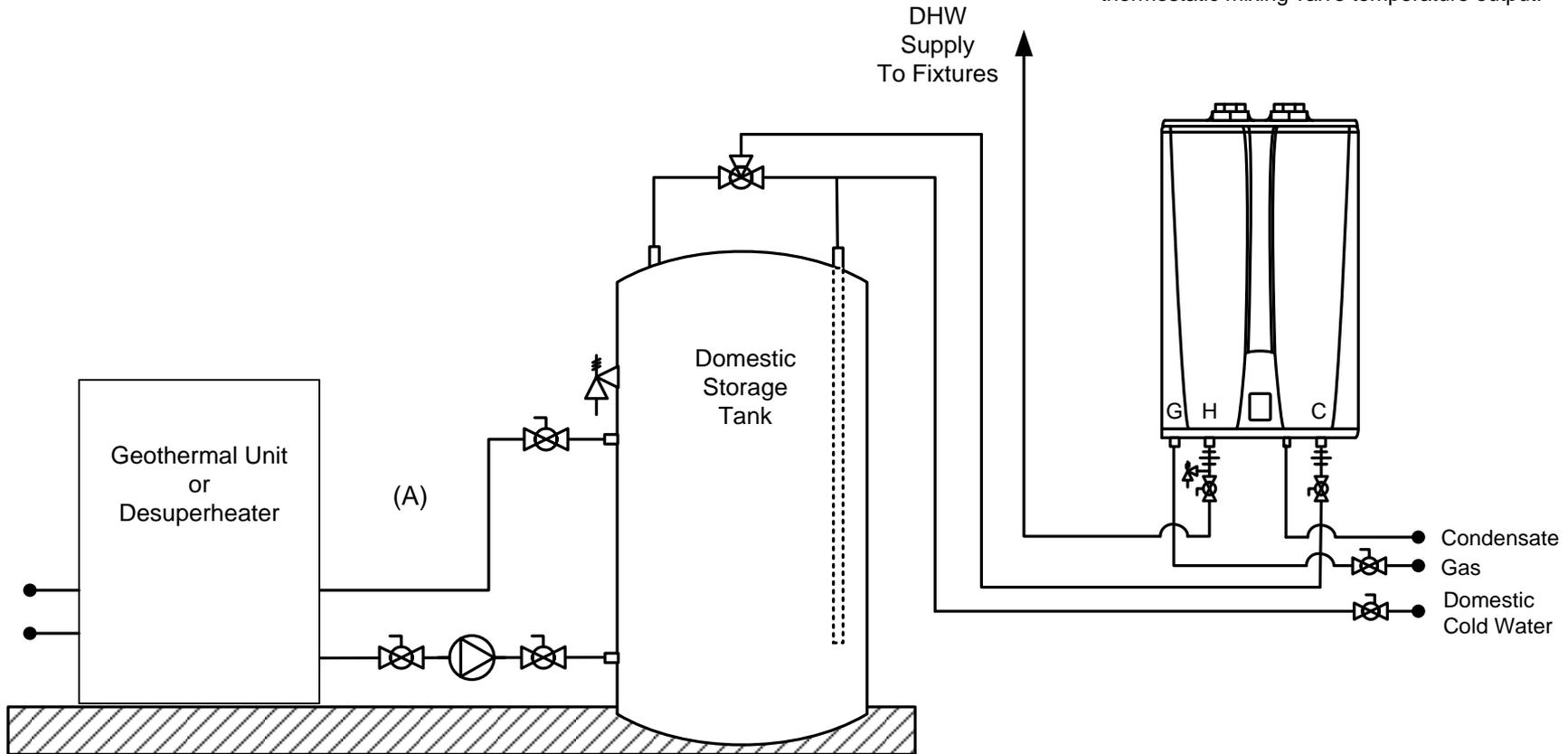


Aquastat

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Notes:

1. For Storage Tank/Geothermal Operation; DIP Switch #6 of 10 located on Integrated Display Panel should be set ON (UP).
2. With Storage Tank/Geothermal Operation Enabled, NPE Tankless DHW setting may be set at or near storage tank thermostatic mixing valve temperature output.



(A) Follow GeoThermal Unit and Tank Manufacturer Recommendations and Requirements



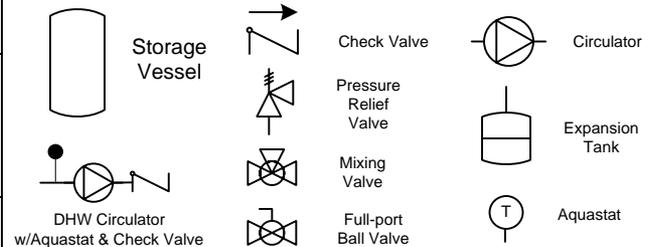
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NPE-S Series Tankless Water Heater
NPE-S Domestic Hot Water Standard
Installation with Geothermal or
Desuperheater

Drawn By: B. Fenske

NPE-S-G-BF02

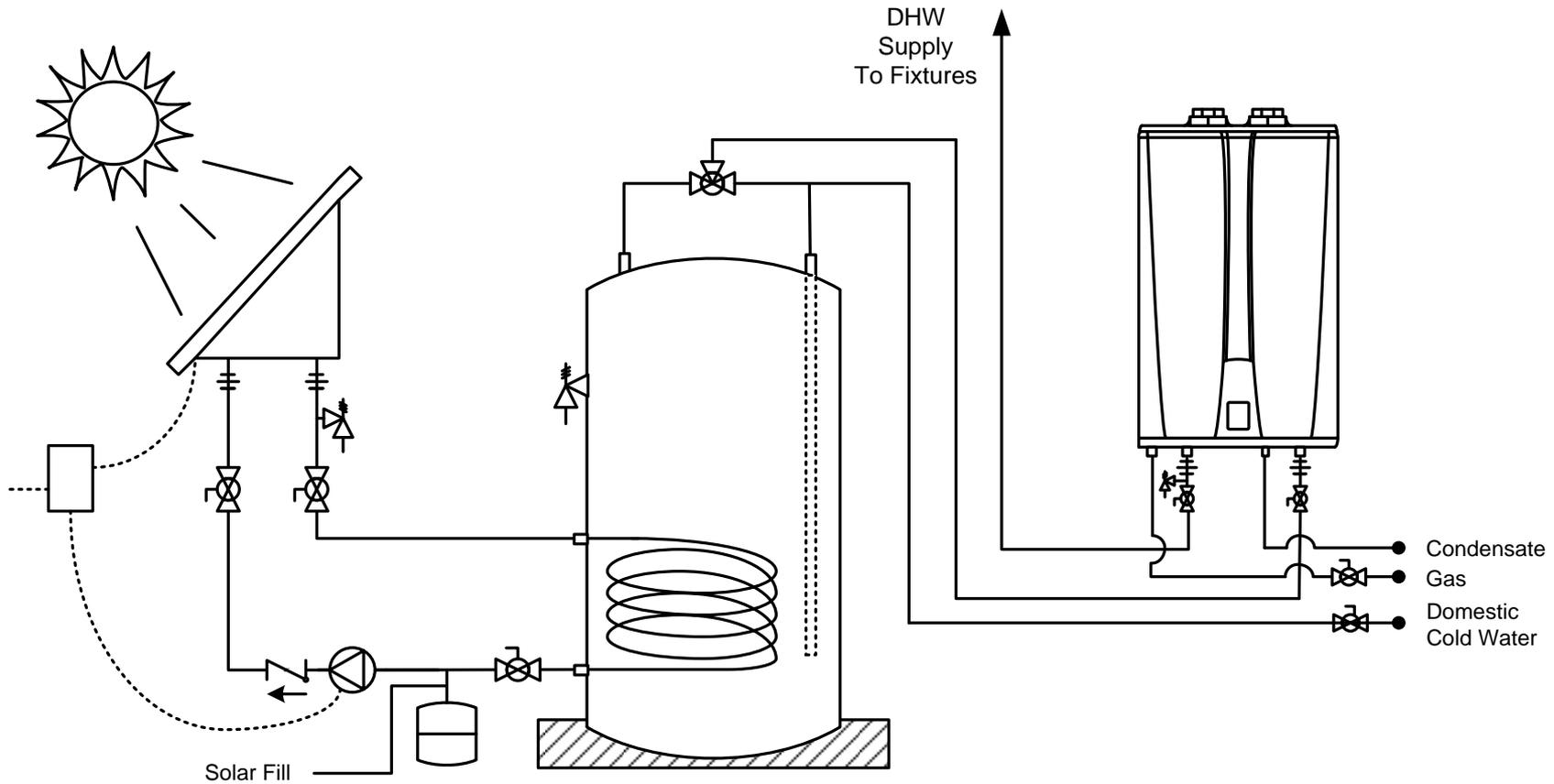
August 1, 2013



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Notes:

1. For Storage Tank/Solar Operation; DIP Switch #6 of 10 located on Integrated Display Panel should be set ON (UP).
2. With Storage Tank/Solar Operation Enabled, NPE Tankless DHW setting may be set at or near storage tank thermostatic mixing valve temperature output.



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NPE-S Series Tankless Water Heater

NPE-S Domestic Hot Water Standard Installation with Solar Application

Drawn By: B. Fenske

NPE-S-S-BF02

August 1, 2013

