NPE-A2 and NPE-S2 Condensing Tankless Water Heaters

The best selling high-efficiency condensing tankless water heaters in North America





Innovative advancements in the NPE-2 condensing tankless water heaters make it easier than ever to go tankless.

NPE-2 PREMIUM EFFICIENCY CONDENSING TANKLESS WATER HEATERS

Navien...the proven leader in condensing tankless, makes it even easier to sell, install and set up with new NPE-2 series

Cuts installation time in half

Thanks to using 1/2" gas pipe and 2" PVC venting, you can install a Navien tankless water heater in about half the time as competitive tankless heaters. Not to mention, Navien EZNav™ intuitive controls with setup wizard makes startup a simple and fast process.

Fewer callbacks, longer life, faster heating

Navien was first to offer dual stainless steel heat exchangers which helps extend the life of the unit by resisting corrosion.

Saves energy, easier on the planet

Navien condensing stainless steel heat exchangers recover extra heat that would be lost in non-condensing units. Lower CO_2 emissions and low exhaust temperatures allows for less expensive venting materials like schedule 40 PVC.

NPE-A2
Advanced water heaters

NPE-S2
Standard water heaters



NPE-2 temperature rise

Temp Rise (°F)	150S2 GPM (L/m)	180A2/S2 GPM (L/m)	210A2/S2 GPM (L/m)	240A2/S2 GPM (L/m)
35	6.8 (26)	8.4 (32)	10.1 (38)	11.2 (42)
40	5.9 (22)	7.4 (28)	8.8 (33)	9.8 (37)
45	5.3 (20)	6.5 (25)	7.8 (30)	8.7 (33)
50	4.8 (18)	5.9 (22)	7.1 (27)	7.8 (30)
55	4.3 (16)	5.3 (20)	6.4 (24)	7.1 (27)
60	4.0 (15)	4.9 (19)	5.9 (22)	6.5 (25)
65	3.7 (14)	4.5 (17)	5.4 (20)	6.0 (23)
70	3.4 (13)	4.2 (16)	5.0 (19)	5.6 (21)
75	3.2 (12)	3.9 (15)	4.7 (18)	5.2 (20)
80	3.0 (11)	3.7 (14)	4.4 (17)	4.9 (19)
85	2.8 (11)	3.5 (13)	4.2 (16)	4.6 (17)
90	2.6 (10)	3.3 (12)	3.9 (15)	4.4 (17)
100	2.4 (9)	2.9 (11)	3.5 (13)	3.9 (15)
110	2.2 (8)	2.7 (10)	3.2 (12)	3.6 (14)
120	2.0 (8)	2.5 (9)	2.9 (11)	3.3 (12)
130	1.8 (7)	2.3 (9)	2.7 (10)	3.0 (11)
140	1.7 (6)	2.1 (8)	2.5 (9)	2.8 (11)

NPE-2 DHW capacity

Models	Natural gas (BTU/H)	Propane gas (BTU/H)
NPE-150S2	18,000–120,000	18,000–120,000
NPE-180A2/S2	10,000–150,000	10,000–150,000
NPE-210A2/S2	12,000–180,000	12,000–180,000
NPE-240A2/S2	13,300–199,900	13,300–199,900

NPE-2 operating cost

Navien tankless	**179 therms**	$195*
Other tankless	**209 therms**	$228*
Standard tank	**269 therms**	$293*

*Based on Energy Guide cost estimates using $1.09 per therm of natural gas. Cost is in US dollars.

U.S. Green Building Council LEED Points*

Water heater	Location	Recirculation
1.5 Points	2 Points	3 Points

Lower HERS home index score*

*Please consult your Energy/LEED consultant.

NPE-2 warranty

Application		Labor	Parts	Heat exchanger
Residential	Standard or controlled recirculation	1 year	5 years	15 years
	Uncontrolled recirculation	1 year	3 years	5 years
Commercial or Combi*	Standard or controlled recirculation	1 year	5 years	8 years
	Uncontrolled recirculation	1 year	3 years	3 years

*Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

For complete details please refer to the full warranty at Navieninc.com.



2" PVC
up to
75 feet
and
1/2" gas
up to
24 feet



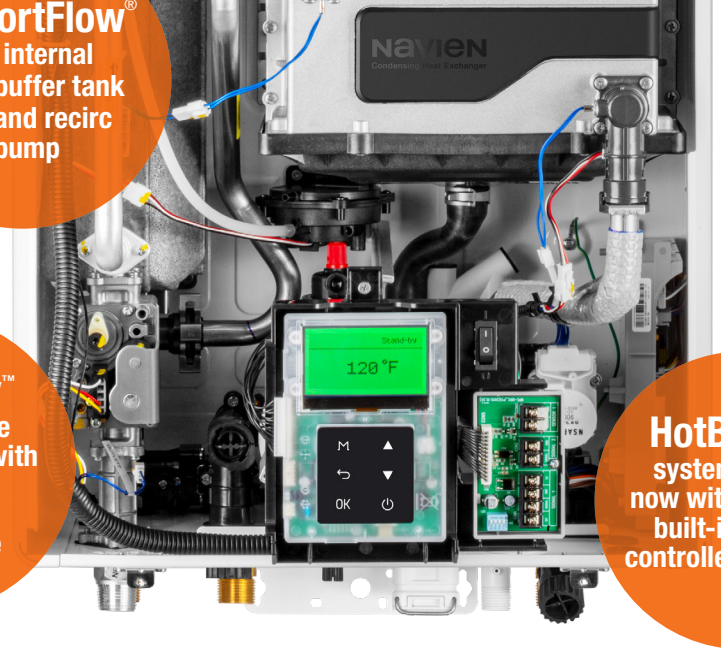
High efficiency
up to
0.96 UEF
and up to
15:1 TDR

Durable
dual
Stainless Steel
heat
exchangers





ComfortFlow®
NPE-A2 internal
buffer tank
and recirc
pump



Optional
NaviCirc™
Easy to
install with
no recirc
return loop
needed





EZNav™
multi-line
control with
built-in
intuitive
software

Optional
HotButton®
system
now with
built-in
controller

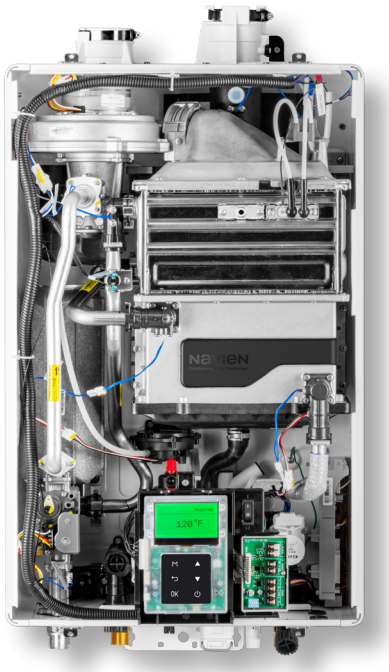


It's **easy** to spot why Navien NPE-2 is the best selling condensing tankless...**again**

Navien

NPE-A2

NAVIEN PREMIUM EFFICIENCY ADVANCED CONDENSING TANKLESS WATER HEATERS



Our advanced ultra high efficiency tankless technology with built in recirc pump, buffer tank and more

ComfortFlow®

NPE-A2 built-in recirculation system

Navien's patented ComfortFlow® system is the first to include a buffer tank, recirculation pump and fine-tuned controls into a tankless water heater, resolving the cold-water sandwich effect* and issues of minimal flow rates commonly found in other tankless water heaters.

* The "cold-water sandwich effect" is the undesired introduction of cold water into the hot water supply line on occasions of frequent on/off operations. (Measure Guideline : Transitioning to a Tankless Water heater, DOE, Sept.2012).



- UP TO 0.95 UEF
- COMFORTFLOW BUILT-IN PUMP & BUFFER TANK
- TDR UP TO 15:1
- 2" VENT UP TO 75 FEET & 1½" GAS UP TO 24 FEET
- EZNAV INTUITIVE CONTROL SYSTEM
- DUAL STAINLESS STEEL HEAT EXCHANGERS
- NG OR LP FIELD GAS CONVERTIBLE
- CASCADE UP TO 32 UNITS





EZNav™

Multi-line control with built-in intuitive software

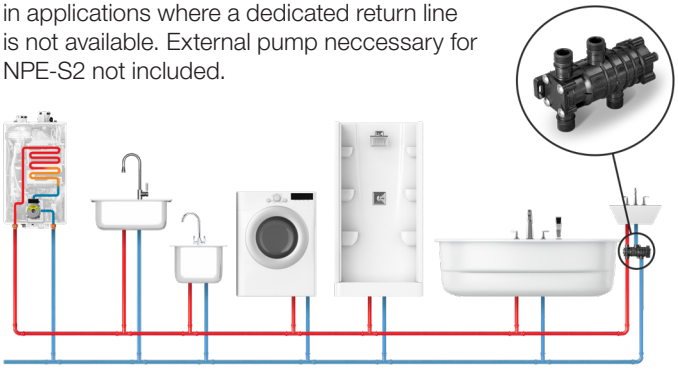
Navien's new backlit EZNav™ control panel uses simple text and icons to make set up, operation status and troubleshooting faster and easier than ever before.



NaviCirc™

Optional NPE-2 recirculation valve

Designed for recirculation of domestic hot water in applications where a dedicated return line is not available. External pump neccessary for NPE-S2 not included.



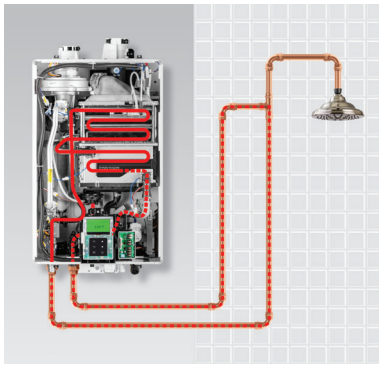
HotButton®

Optional NPE-2 hot water activation system

At the push of a button, the HotButton® hot water system activates internal recirculation pump and gas fired burner to heat water in the supply lines to provide hot water only when needed. NPE-2 comes with a built-in HotButton controller.



External pump neccessary for NPE-S2 is not included.

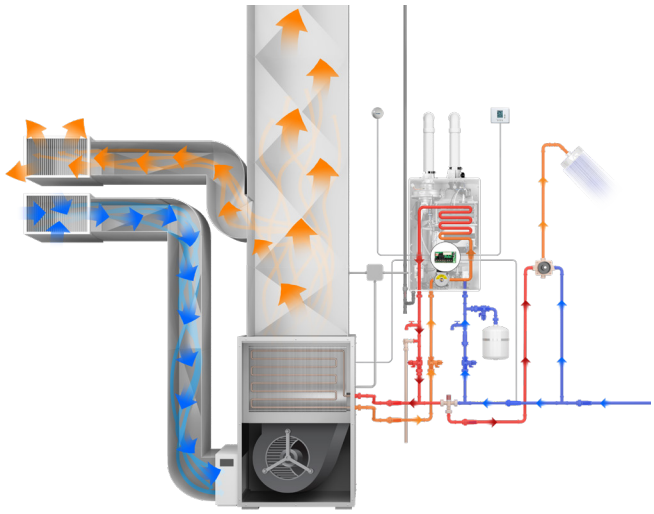


H2Air®

NPE-A2 combination heating & DHW system

The optional H2Air® Kit utilizes the NPE-A2 pump to circulate the hot water for the hydronic air handler.

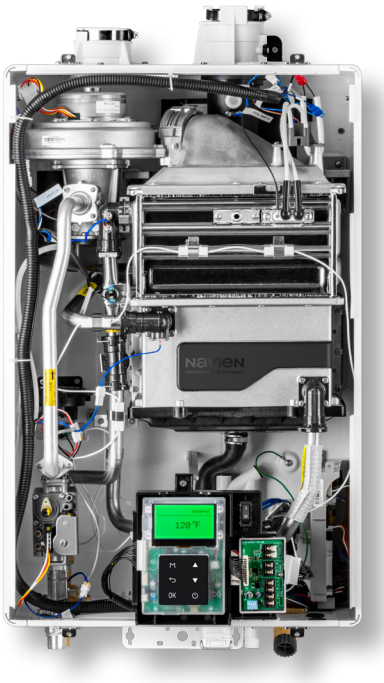
This removes the need to purchase an additional circulator for the heating system. Designed for retrofit and new construction, the Navien H2Air Kit includes an add-on controller to integrate space heating and DHW between any NPE-A2 Series tankless water heater and a hydronic air handler.



NAVIEN

NPE-S2

NAVIEN PREMIUM EFFICIENCY STANDARD CONDENSING TANKLESS WATER HEATERS



Our standard ultra high efficiency tankless with higher performance and technology

UP TO 0.96 UEF

TDR UP TO 15:1

2" VENT UP TO 75 FEET & ½" GAS UP TO 24 FEET

EZNAV INTUITIVE CONTROL SYSTEM

DUAL STAINLESS STEEL HEAT EXCHANGERS

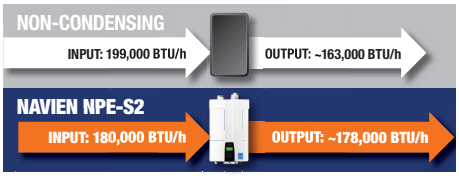
NG OR LP FIELD GAS CONVERTIBLE

CASCADE UP TO 32 UNITS

When it comes to water heater performance... it's all about the output

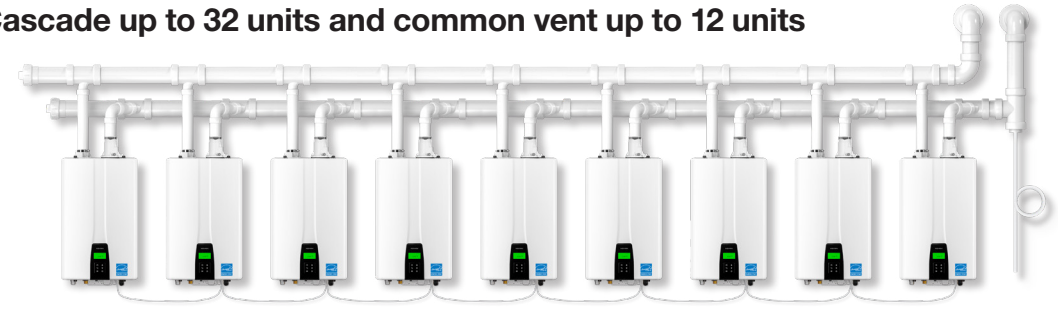
The NPE-S2 condensing tankless water heaters are so efficient that they outperform much larger capacity non-condensing competitors. More output for the money, lower installation costs and lower operating costs for customers making it the best choice for your next installation.

Navien NPE-S2 condensing tankless water heaters outperform comparably priced non-condensing units



		Non-Condensing Tankless	Navien NPE-210S2 Condensing Tankless
UNIT SPECS	Input	199,000 BTU/h	180,000 BTU/h
	Uniform Energy Factor (UEF)	~0.81	0.96
	Output	~163,000	~178,000
	Max GPM	9.8	10.1
INSTALLATION COST	List Price	$$	$
	Installation Time	~4-8 Hours	4 Hours
	Venting	Other type (not PVC)	2" PVC
	Gas Pipe	Typically 3/4" pipe	Can use existing 1/2" pipe
	Overall	Your Choice?	

Cascade up to 32 units and common vent up to 12 units



With Navien cascading technology, when a unit gets up to 80% capacity the next unit will turn on to help meet requirements. This demand ratio will continue until all 32 units are generating hot water. The Navien cascading system also balances out the workload of each unit for longer life. Building penetrations are reduced with Navien's common venting feature.



More innovative accessories for NPE-2 tankless water heaters

NaviLink® & NaviLink Lite™

Optional Wi-Fi remote control system



These add-on accessories will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien NPE-A2 and NPE-S2 tankless water heaters. NaviLink can support up to 24 Navien units and NaviLink Lite can support 1 Navien unit.

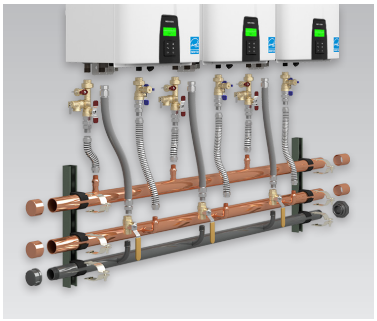


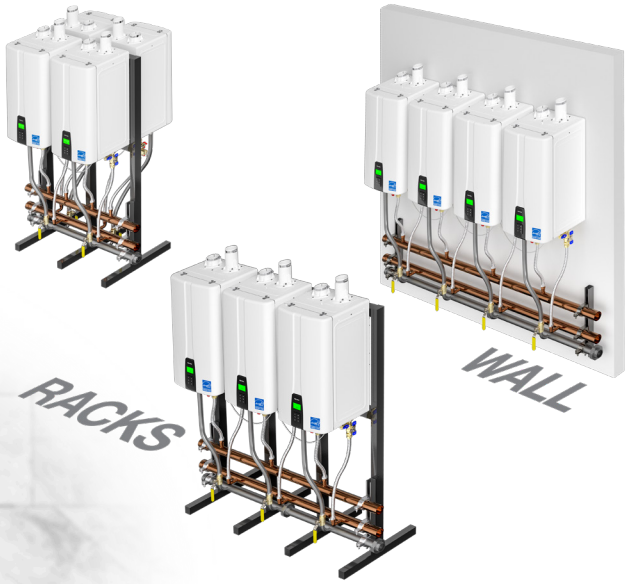


Ready-Link®

Modular manifold mounting on wall or rack

- Simply no waiting for custom racks
- Simply easy to install, easy to assemble
- Simply more profitable
- Simply visit your local Navien wholesaler and pick up everything you need for your installation today.



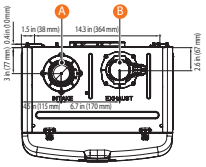


NAVIEN

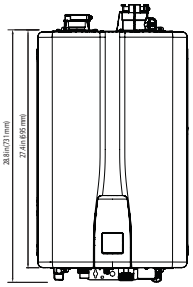
Dimensions

NPE-A2

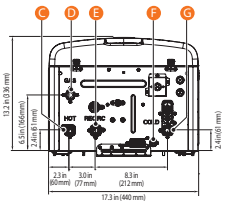
Overhead View



Front View



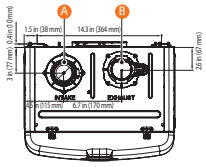
Supply Connections



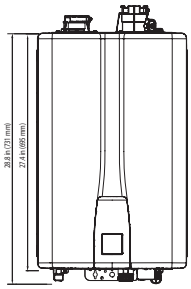
	Connection Size
A Air Intake	Φ 2"
B Exhaust Gas Vent	Φ 2"
C Hot Water Outlet	Φ 3/4"
D Gas Inlet	Φ 3/4"
E Recirculation Inlet	Φ 3/4"
F Condensate Outlet	Φ 1/2"
G Cold Water Inlet	Φ 3/4"

NPE-S2

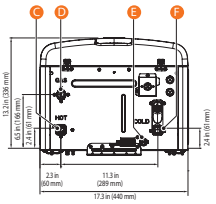
Overhead View



Front View



Supply Connections



	Connection Size
A Air Intake	Φ 2"
B Exhaust Gas Vent	Φ 2"
C Hot Water Outlet	Φ 3/4"
D Gas Inlet	Φ 3/4"
E Condensate Outlet	Φ 1/2"
F Cold Water Inlet	Φ 3/4"

Specifications

Item		NPE-150S2	NPE-180A2	NPE-180S2	NPE-210A2	NPE-210S2	NPE-240A2	NPE-240S2
Heat capacity (input)	Natural gas	18,000–120,000 BTU/H	10,000–150,000 BTU/H		12,000–180,000 BTU/H		13,300–199,900 BTU/H	
Energy factor	UEF (for NG & LP)	0.93	0.95	0.96	0.95	0.96	0.95	0.96
Flow rate (DHW)	35°F (19°C) temp rise	6.8 GPM (26 L/m)	8.4 GPM (32 L/m)		10.1 GPM (38 L/m)		11.2 GPM (42 L/m)	
	45°F (25°C) temp rise	5.3 GPM (20 L/m)	6.5 GPM (25 L/m)		7.8 GPM (30 L/m)		8.7 GPM (33 L/m)	
	67°F (36°C) temp rise	3.4 GPM (13 L/m)	4.3 GPM (16 L/m)	4.4 GPM (17 L/m)	5.1 GPM (19 L/m)	5.3 GPM (20 L/m)	5.6 GPM (21 L/m)	5.8 GPM (22 L/m)
Dimensions		17.3" (W) x 27.4" (H) x 13.2" (D)						
Weight		62 lbs (28 kg)	73 lbs (33 kg)	68 lbs (31 kg)	77 lbs (35 kg)	73 lbs (33 kg)	77 lbs (35 kg)	73 lbs (33 kg)
Installation type		Indoor or outdoor wall-hung						
Venting type		Forced draft direct-vent						
Ignition		Electronic ignition						
Water pressure		15–150 PSI						
Natural gas supply pressure (from source)		3.5" WC–10.5" WC						
Propane gas supply pressure (from source)		8" WC–13" WC						
Natural gas manifold pressure (min-max)		-0.04" WC– -0.40" WC	-0.03" WC– -0.55" WC		-0.03" WC– -0.76" WC		-0.03" WC– -0.96" WC	
Propane gas manifold pressure (min-max)		-0.03" WC– -0.40" WC	-0.02" WC– -0.55" WC		-0.02" WC– -0.76" WC		-0.02" WC– -0.96" WC	
Minimum flow rate		0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A2" models*						
Connection sizes	Cold water inlet	3/4" NPT						
	Hot water outlet	3/4" NPT						
	Gas inlet	3/4" NPT						
Power supply	Main supply	120V AC, 60 Hz						
	Maximum power consumption	200 W (max 2 A), 350 W (max 4 A) with external pump connected						
Materials	Casing	Cold rolled carbon steel						
	Heat exchangers	Primary heat exchanger: stainless steel Secondary heat exchanger: stainless steel						
Venting	Exhaust	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)						
	Intake	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)						
	Vent clearances	0" to combustibles						
High elevations		10,100 feet for both NG or LP gas. Please refer to Installation Manual for additional details and instructions.						
Safety devices		Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, power surge fuse, burner high limit fuse, vent installation detector (VID)						
ENERGY STAR® Certified		No	Yes		Yes		Yes	
Certifications								

*Available for "A2" models configured in an optional ComfortFlow® recirculation mode.
Energy consumption will increase when the system is configured for recirculation.

Navien reserves the right to change specifications at any time without prior notice.
Please refer to navieninc.com to verify you have the most current information.

Accessories



NaviLink® Wi-Fi Control
PBCM-AS-001
NaviLink Lite Wi-Fi Control
1 unit
PBCM-AS-002



H2Air® Kit AHU Optimizer
PNBD-000001



Remote Controller for NPE-2
30022717B



Plumb Easy Valve Kit (V2)
GXXX002987



NPE-A/NPE-A2 Plumb Easy 3-Valve Kit HCR (V2)
GXXX002988



Plumb Easy Valve 3/4" with Relief Valve
(designed to work with pipe cover)
30012581A



NaviCirc™ Recirculation Valve for NPE-A2
NaviCirc™
PFFW-SXX-001
NaviCirc™ Kit
30022965A



HotButton® Components
Wall Plate
GXXX001427
Push Button
GXXX001426



Residential Neutralizer(V2)
1 unit
GXXX002212
Residential Replacement Media
GXXX001323



Commercial Neutralizer
GXXX002366
Commercial Replacement Media
GXXX002368



Lg. Commercial Neutralizer
GXXX002367
Lg. Commercial Replacement Media
GXXX002369



2" and 3" Wall Flange and Vent Terminator Kit
2" Kit
30010747A
3" Kit
30003873B



PeakFlow S Scale Prevention System
GPWC110001AC001
PeakFlow A
GPWC310001AC001
PeakFlow C
GPWC510001AC001



Common Vent Collar Kit
30014367B
Includes Cascade Cable
GXXX000546



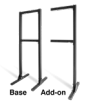
Cascade Cable
GXXX000546
External Pump Wire
GXXX001319



Vent Cap NPE-2 Series
30025801A



Pipe Cover NPE-2 Series
30025812A
Use with Isolation Valves
30012581A



Ready-Link® Rack Base (V4)
GFFMKDIZUS-009
Add-on (V4)
GFFMKDIZUS-010

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