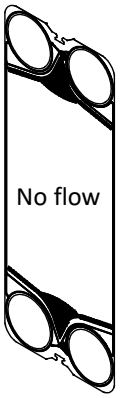
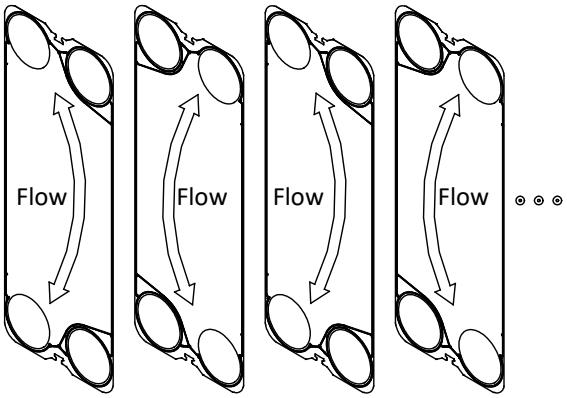
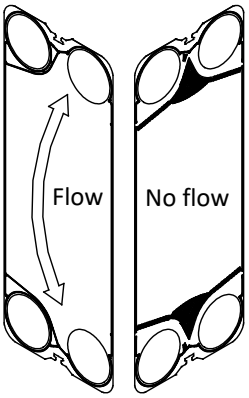
1. Plate Heat Exchanger (PHE) / Arrangement of heat transfer plate

PHE's plate pack consists of Heat transfer plate and Plate gasket.

The first heat transfer plate between S-Frame, L-Frame, C-Frame and E-Frame is called "D-Plate". The end plate is called "E-Plate". Plates between D-Plate and E-Plate are called "Channel Plate". Plate arrangement shall follow the below illustration.

First and end plate in the table below shows the case of A-Plate.

First plate	Channel plates	End plate
		
Refer to section "D-Plate" for gasket installation.	Refer to section "Channel-Plate" for gasket installation.	Refer to section "E-Plate" for gasket installation.

- Gasket has each type, style, size and setting position depend on PHE models.
- For gasket installation, refer to the manual "12-3-2 Replacement of Plate Gasket".
- Refer to Mixed Gasket Materials Manual for Several Composition Materials.
- For checking the model of the device you are using, refer to the manual "7 Model Description ".

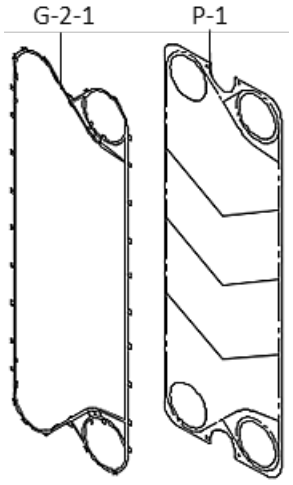
Note1) When purchase gaskets from our company, make sure the latest information because shape of gasket may change without prior notice.

2. Type and name of heat transfer plate and gasket.

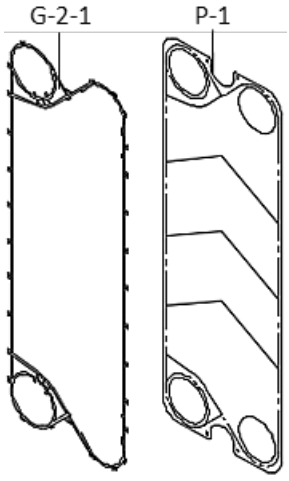
Channel-Plate

Common structure for all model

B-Plate with gasket

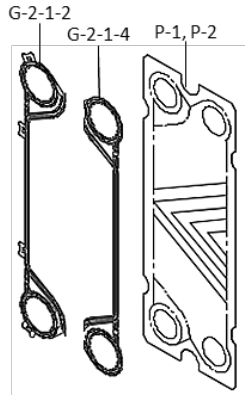
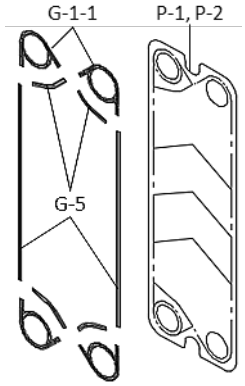
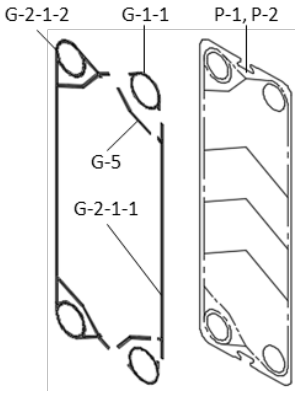
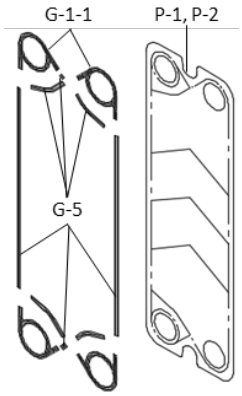


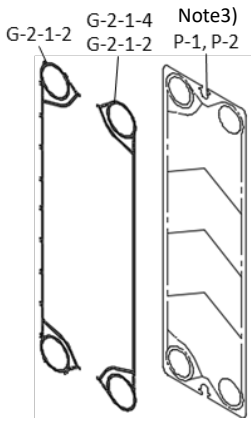
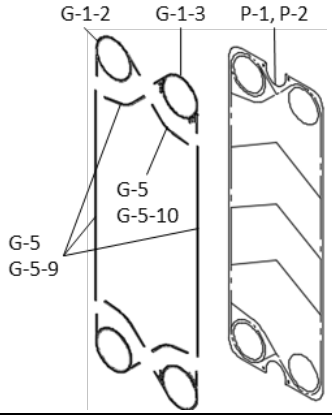
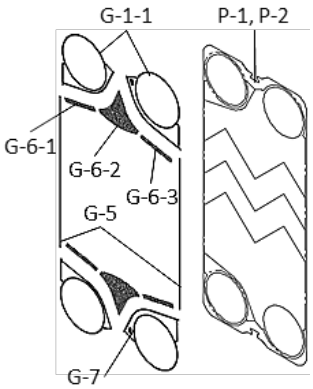
A-Plate with gasket

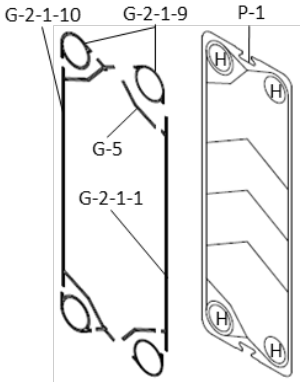
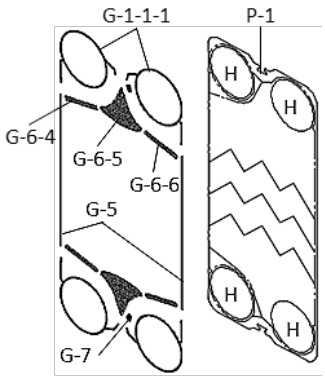
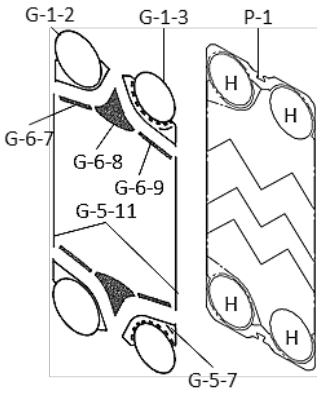
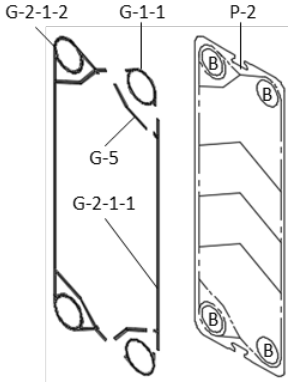
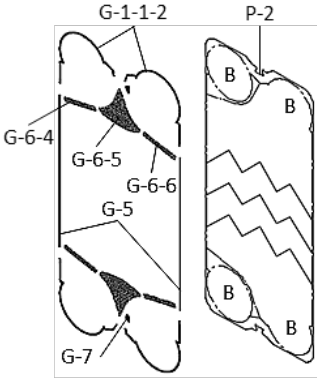
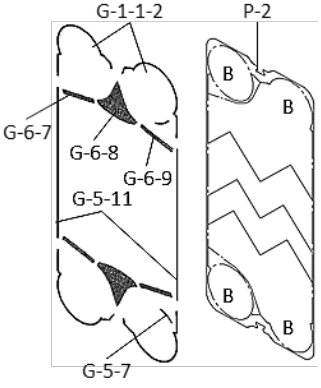


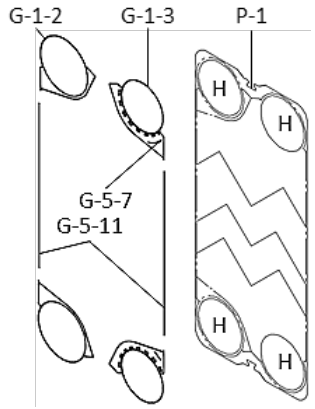
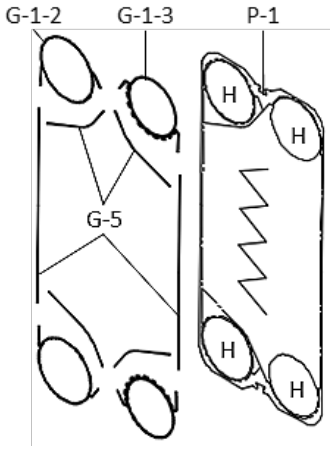
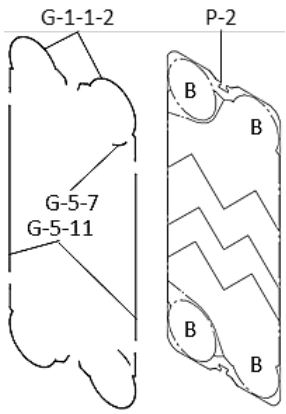
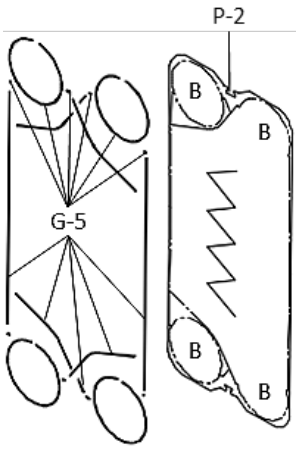
P-1	PLATE (4-HOLES)
G-2-1	PLATE GASKET

D-Plate

UX-005	UX-01	UX-10 Gasket material: Rubber	UX-20
4-Holes / Without holes	4-Holes / Without holes	4-Holes / Without holes	4-Holes / Without holes
			

UX-30, 30L	UX-40, 80 Note4)	UX-90
4-Holes / Without holes	4-Holes / Without holes	4-Holes / Without holes
		

UX-10 Gasket material: TCG	UX-100,130	UX-100R
4-Holes	4-Holes	4-Holes
		
Without holes	Without holes	Without holes
		

UX-110R,130R	UX-160
4-Holes 	4-Holes 
Without holes 	Without holes 

H:Hole B:Blind

P-1	PLATE (4-HOLES)	G-6-1	T DISTANCE
P-2	PLATE (WITHOUT HOLES)	G-6-2	
G-1-1	D GASKET	G-6-3	
G-1-1-1	D GASKET (CUTTING)	G-6-4	
G-1-1-2		G-6-5	
G-1-2	DA GASKET	G-6-6	
G-1-3	DB GASKET	G-6-7	
G-2-1-1	PLATE GASKET (CUTTING)	G-6-8	
G-2-1-2		G-6-9	
G-2-1-4		G-7	P DISTANCE
G-2-1-9			
G-2-1-10			
G-5	S DISTANCE Note5)		
G-5-7			
G-5-9			
G-5-10			
G-5-11			

Note2) D-Plate in the table above shows the case of A-Plate.

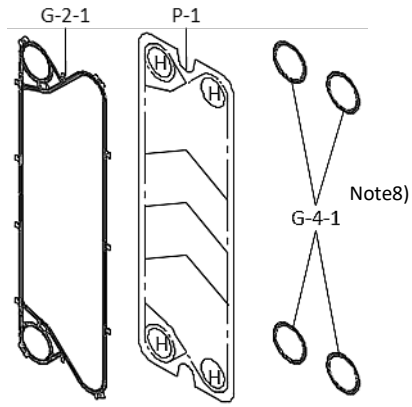
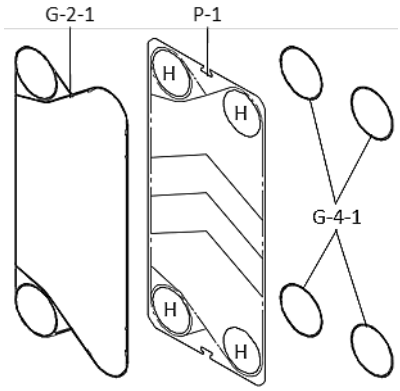
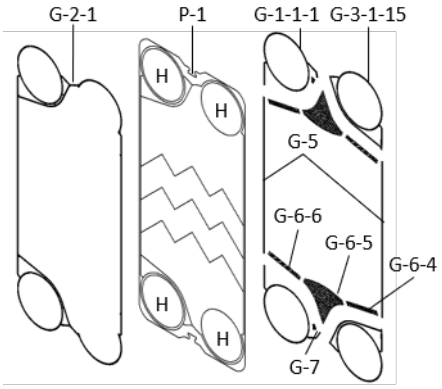
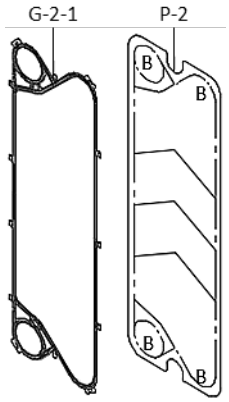
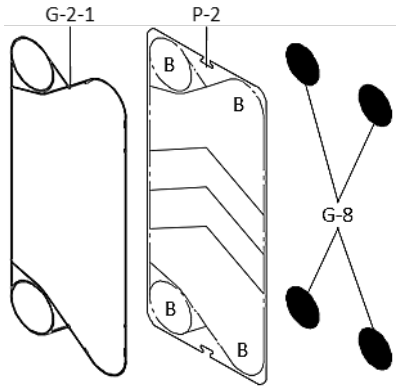
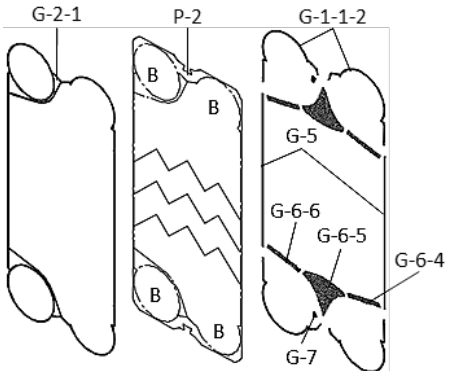
Note3) In the case of “Glued” type gaskets, “G-2-1-2” is attached.

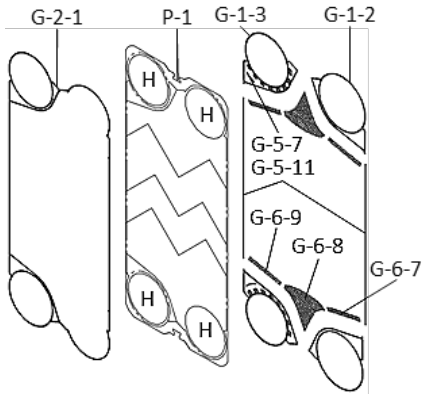
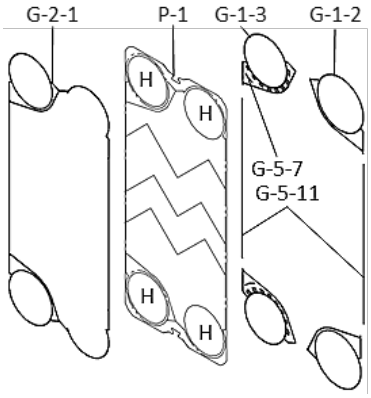
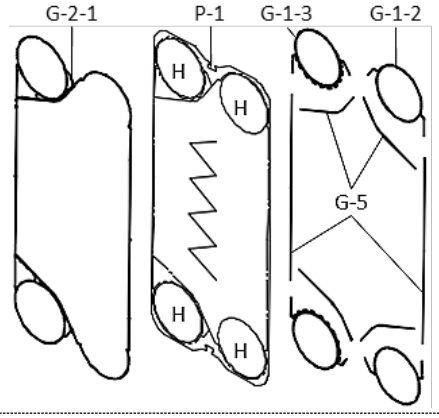
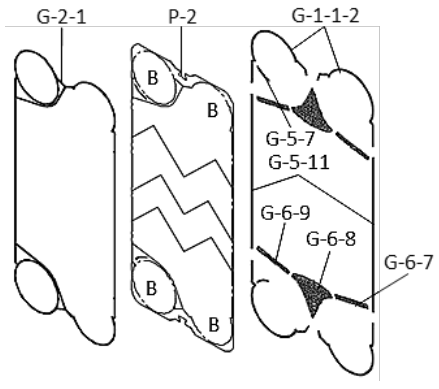
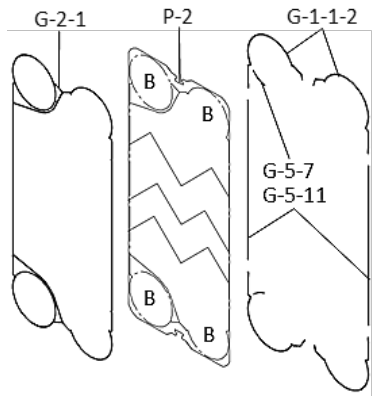
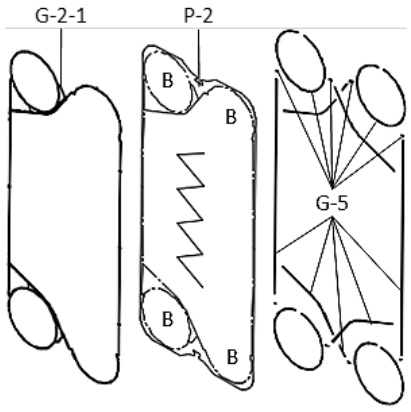
In the case of “Slit-In” type gaskets, “G-2-1-4” is attached.

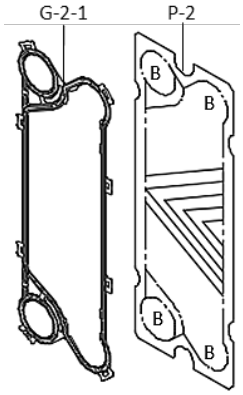
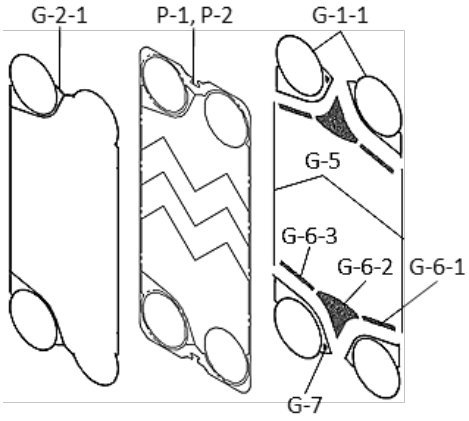
Note4) UX-80 has two types of S-Distance, “G-5-9” and “G-5-10”.

Note5) For dimensions of G-5, refer to "3. S Distance (G-5) Dimension Table".

E-Plate

UX-01, 10, 20, 30, 30L, 40	UX-80	UX-100,130
4-Holes 	4-Holes 	4-Holes 
Without holes 	Without holes 	Without holes 

UX-100R	UX-110R,130R	UX-160
4-Holes 	4-Holes 	4-Holes 
Without holes 	Without holes 	Without holes 

UX-005	UX-90
Without holes 	4-Holes / Without holes 

H:Hole B:Blind

P-1	PLATE (4-HOLES)
P-2	PLATE (WITHOUT HOLES)
G-1-1	D GASKET
G-1-1-1	D GASKET (CUTTING)
G-1-1-2	
G-1-2	DA GASKET
G-1-3	DB GASKET
G-2-1	PLATE GASKET
G-3-1-15	EB GASKET
G-4-1	E NOZZLE GASKET
G-5	S DISTANCE Note9)
G-5-7	
G-5-11	
G-6-1	T DISTANCE
G-6-2	
G-6-3	
G-6-4	
G-6-5	
G-6-6	
G-6-7	
G-6-8	
G-6-9	
G-7	P DISTANCE
G-8	B DISTANCE

Note6) E-Plate in the table above shows the case of A-Plate.

Note7) E-Plate of UX-005 is a Without holes plate.

Note8) E-Nozzle gasket is no required when nozzle connection material is rubber covering.

Note9) For dimensions of G-5, refer to "3. S Distance (G-5) Dimension Table".

3. S Distance (G-5) Dimension Table

Model	D-Plate / E-Plate	Holes	Dimension [mm]	Part number	Number
UX-005	N/A				
UX-01	D-Plate	4-Holes / Without holes	450	G-5	2
			100		4
	E-Plate	N/A			
UX-10	D-Plate	4-Holes / Without holes	160	G-5	2
	E-Plate	N/A			
UX-20	E-Plate	4-Holes / Without holes	910	G-5	2
			250		2
			220		2
			30		2
	E-Plate	N/A			
UX-30, 30L	N/A				
UX-40	D-Plate	4-Holes / Without holes	1440	G-5	2
			460		4
	E-Plate	N/A			
UX-80	D-Plate	4-Holes / Without holes	1440	G-5-9	2
			570		2
			550	G-5-10	2
	E-Plate	N/A			
UX-90	D-Plate / E-Plate	4-Holes / Without holes	1380	G-5	2
UX-100	D-Plate / E-Plate	4-Holes / Without holes	1690		2
UX-100R	D-Plate / E-Plate	4-Holes / Without holes	260	G-5-7	2
			1630	G-5-11	2
UX-110R	D-Plate / E-Plate	4-Holes / Without holes	260	G-5-7	2
			1630	G-5-11	2
UX-130	D-Plate / E-Plate	4-Holes / Without holes	2180	G-5	2
UX-130R	D-Plate / E-Plate	4-Holes / Without holes	260	G-5-7	2
			2500	G-5-11	2
UX-160	D-Plate / E-Plate	4-Holes	2150	G-5	2
			920		4
		Without holes	2550		2
			2030		4
			1050		2
			920		2
			140		2
			40		4
			30		4

Note10) Cut according to the dimensions in the table, and attach according to the figure in "2. Type and name of heat transfer plate and gasket."

Note11) Notation is a representative dimension. Please install the small parts according to the actual product.

Note12) For other product information and inquiries, please refer to our website and "2 Operation and Maintenance Manual".
（HP：https://www.hisaka.co.jp/english/）