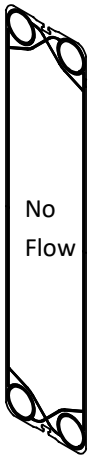
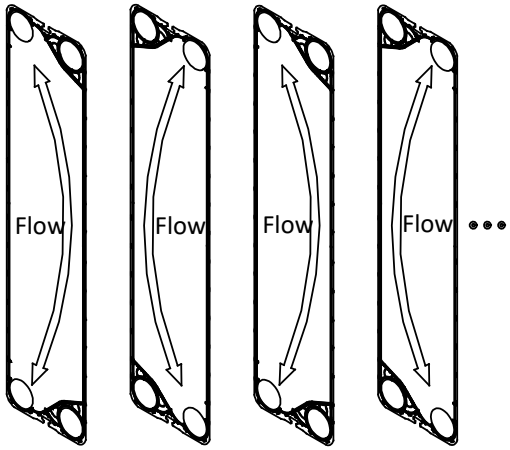
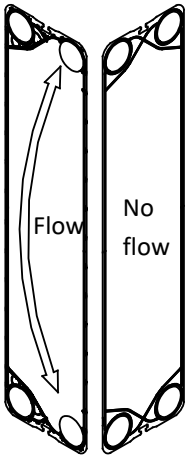
1. Plate Heat Exchanger (PHE) / Arrangement of heat transfer plate

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 ".

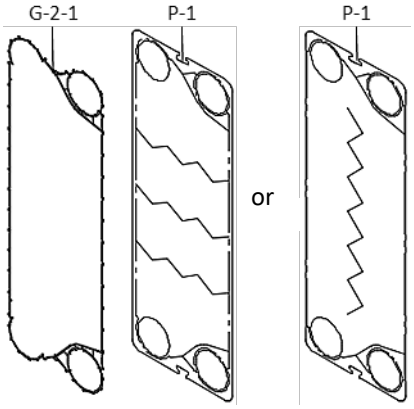
Note1) When purchase gaskets from our company, make sure the latest information because shape of gasket may change without prior notice.

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

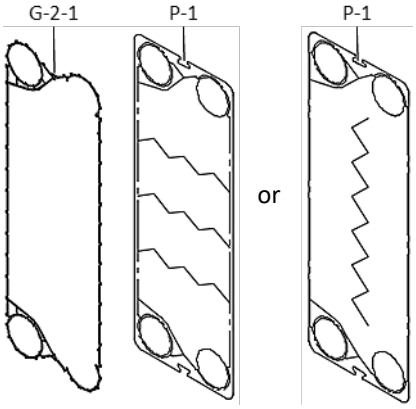
Channel-Plate

Common structure for all model

B-Plate with gasket



A-Plate with gasket

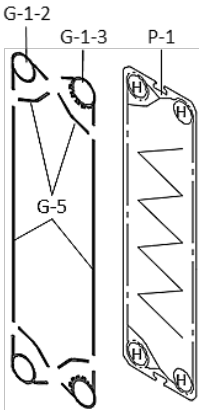


P-1	PLATE (4-HOLES)
G-2-1	PLATE GASKET

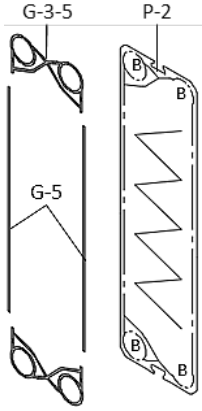
D-Plate

SX-10

4-Holes

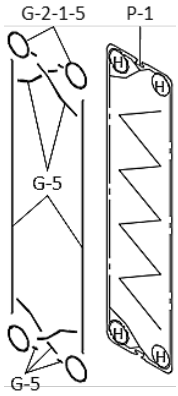


Without holes

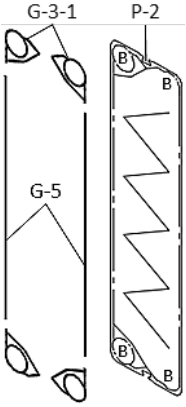


SX-20

4-Holes

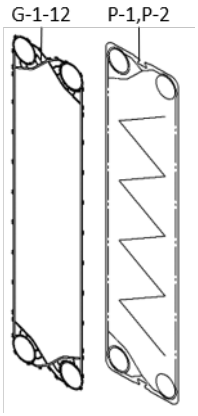


Without holes



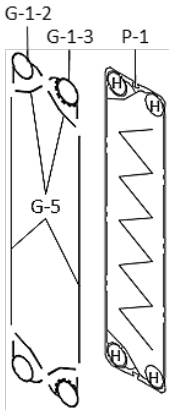
SX-20A

4-Holes / Without holes

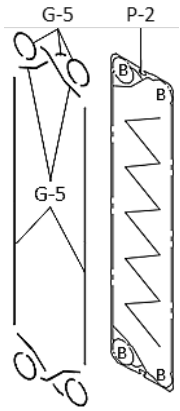


SX-30, 30S

4-Holes

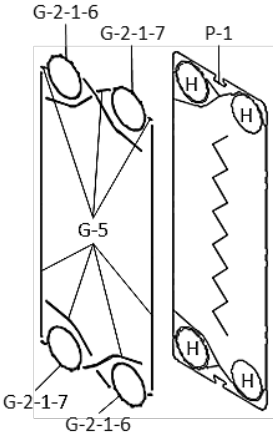


Without holes

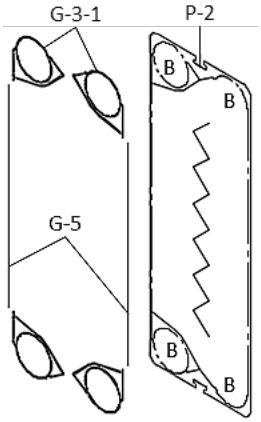


SX-73

4-Holes

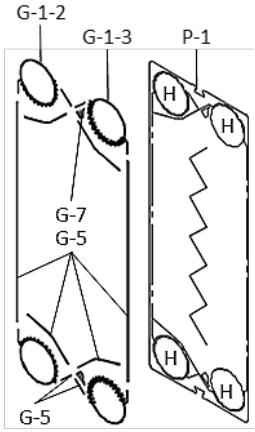


Without holes

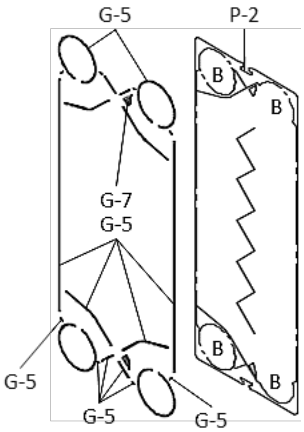


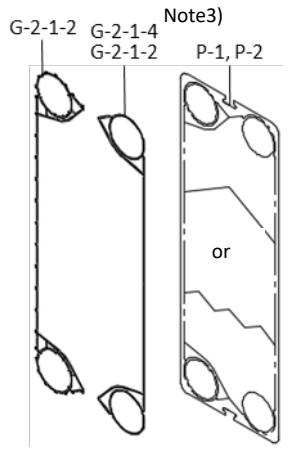
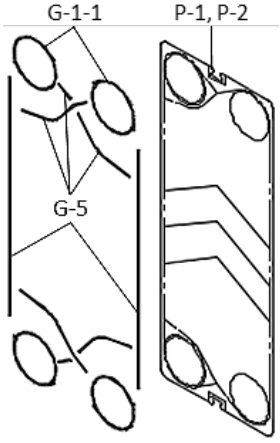
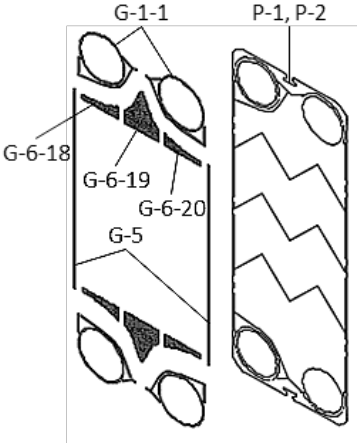
SX-80S, 80M, 80L

4-Holes



Without holes



SX-40,71	SX-90S,90	SX-90M,90L
4-Holes / Without holes	4-Holes / 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-1-2	DA GASKET
G-1-3	DB GASKET
G-1-12	DC GASKET
G-2-1-2	PLATE GASKET (CUTTING)
G-2-1-4	
G-2-1-5	
G-2-1-6	
G-2-1-7	
G-3-1	E GASKET
G-3-5	
G-5	S DISTANCE Note4)
G-6-18	T DISTANCE
G-6-19	
G-6-20	
G-7	P DISTANCE

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.

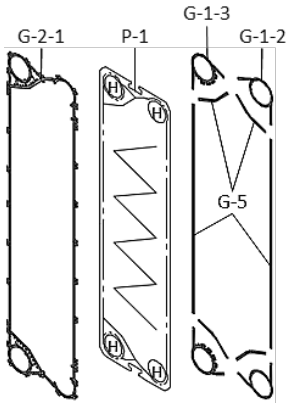
In the case of “Slit-In” type gaskets, “G-2-1-4” is attached.

Note4) For dimensions of G-5, refer to "3. S Distance (G-5) Dimension Table".

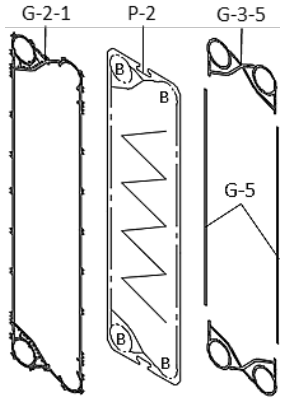
E-Plate

SX-10

4-Holes

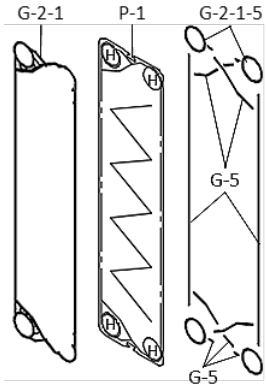


Without holes

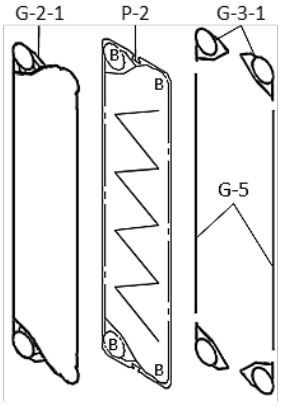


SX-20

4-Holes

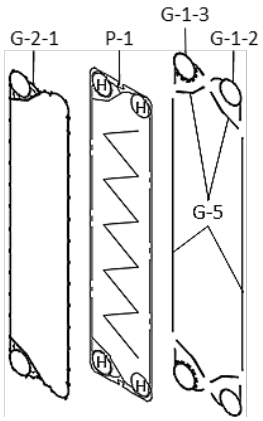


Without holes

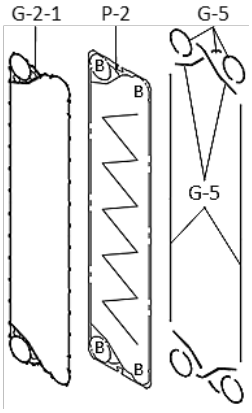


SX-30,30S

4-Holes

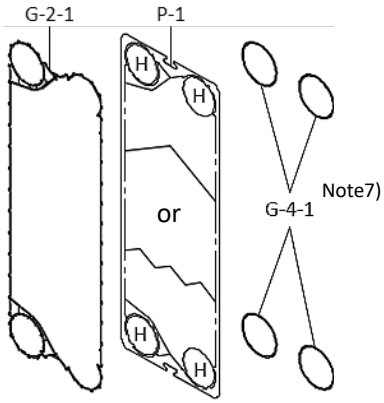


Without holes

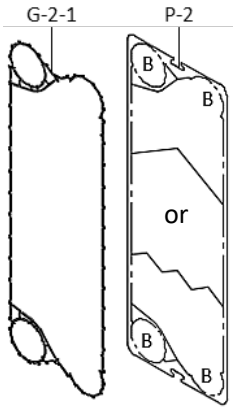


SX-40,71

4-Holes

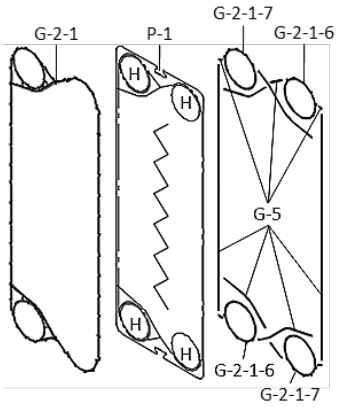


Without holes

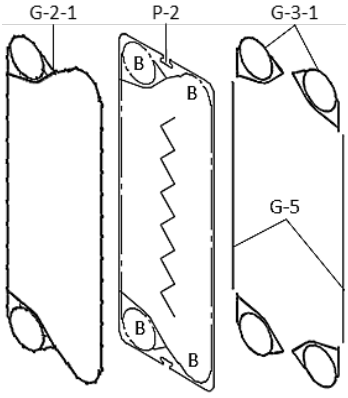


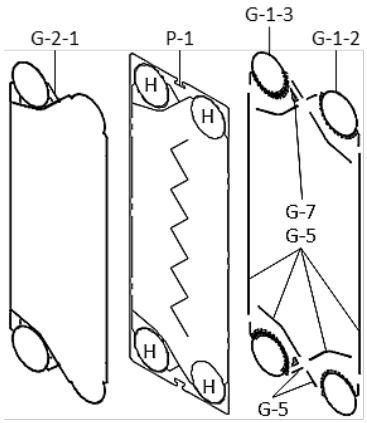
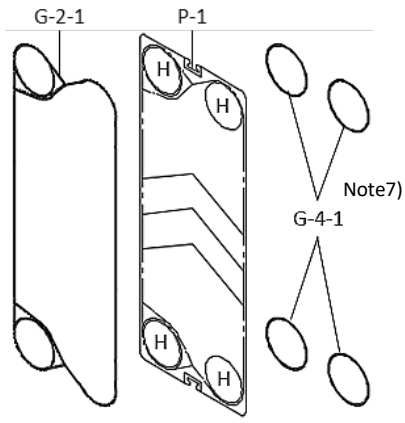
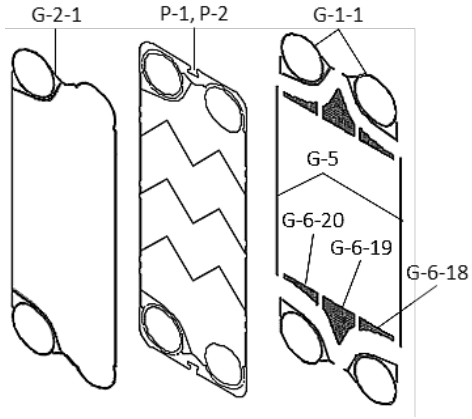
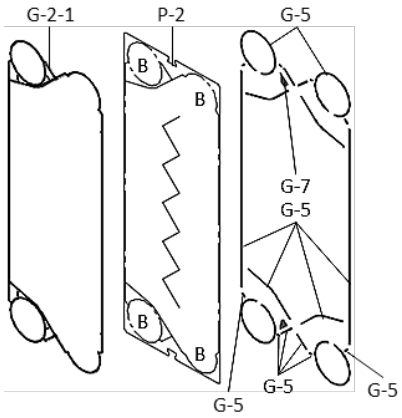
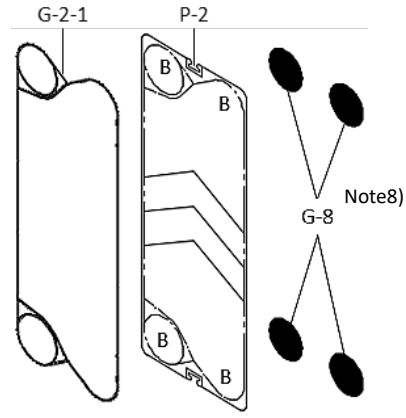
SX-73

4-Holes



Without holes



SX-80S,80M,80L	SX-90,90S	SX-90M,90L
4-Holes 	4-Holes 	4-Holes / Without holes 
Without holes 	Without holes 	

H:Hole B:Blind

P-1	PLATE (4-HOLES)
P-2	PLATE (WITHOUT HOLES)
G-1-1	D GASKET
G-1-2	DA GASKET
G-1-3	DB GASKET
G-2-1	PLATE GASKET
G-2-1-5	PLATE GASKET (CUTTING)
G-2-1-6	
G-2-1-7	
G-3-1	E GASKET
G-3-5	
G-4-1	E NOZZLE GASKET
G-5	S DISTANCE Note9)
G-6-18	T DISTANCE
G-6-19	
G-6-20	
G-7	P DISTANCE
G-8	B DISTANCE

Note5) E-Plate in the table above shows the case of A-Plate.

Note6) The figure shows a typical installation. The actual shape may differ depending on the model.

Note7) E-Nozzle gasket is no required when nozzle connection material is rubber covering.

Note8) In the case of cover plates on E-Frame port holes, B-Distance is no required.

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]	Number
SX-10	D-Plate / E-Plate	4-Holes	1020	2
			160	4
		Without holes	1020	2
SX-20	D-Plate / E-Plate	4-Holes	1450	2
			360	2
			300	2
			70	2
			30	4
		Without holes	1250	2
SX-30	D-Plate / E-Plate	4-Holes	1720	2
			290	4
		Without holes	1960	2
			540	4
			390	2
			280	2
			100	2
SX-30S	D-Plate / E-Plate	4-Holes	1240	2
			290	4
		Without holes	1500	2
			540	4
			390	2
			280	2
			100	2
SX-40	N/A			
SX-71	N/A			
SX-73	D-Plate / E-Plate	4-Holes	2000	2
			650	2
			520	2
			130	2
			20	4
		Without holes	2000	2
SX-80S	D-Plate / E-Plate	4-Holes	1550	2
			800	4
			150	4
		Without holes	1850	2
			800	4
			1400	4
			150	4
			40	8
SX-80M	D-Plate / E-Plate	4-Holes	2050	2
			800	4
			150	4
		Without holes	2400	2
			800	4
			1400	4
			150	4
			40	8

SX-80L	D-Plate / E-Plate	4-Holes	2700	2
			800	4
			150	4
		Without holes	3000	2
			800	4
			1400	4
			150	4
			40	8
SX-90	D-Plate	4-Holes / Without holes	2180	2
			780	2
			630	2
			150	2
	E-Plate	N/A		
SX-90S	D-Plate	4-Holes / Without holes	1600	2
			780	2
			630	2
			150	2
	E-Plate	N/A		
SX-90M	D-Plate / E-Plate	4-Holes / Without holes	1730	2
SX-90L	D-Plate / E-Plate	4-Holes / Without holes	2030	2

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/）