

IPH Series Pipe Flange Kit

Understanding Flange Kit Model Numbers :

The pipe flange kit combines the flanges, bolts, washers, and O-rings required for each type of pump into a single kit.

The component parts table shows the screw in type flange kit. In the case of the welded type flange, the flange part number is IH03J-200040 (1 of IH03J-100040 changes to 2). All other included parts are the same.

IHF - 3 - T - 20

Design number
: 20 Design

T : Screw in type
E : Welded type

Pump size
: Single pump
2 to 6
: Double pump
22 to 46

IPH Series
Flange Kit
Note: O-ring 1B-**
refers to JIS B2401-1B-**

Screw in type Flange Kit model No.	Applicable Pump Model No.	IN Flange							
		Flange Part No.		Bolt		Washer		O-ring	
IHF-2-T-20	IPH-2A(B)-*-11	IH03J-100040	1	TH- 8x45	4	WS-B- 8	4	NBR-90 P22	1
IHF-3-T-20	IPH-3A(B)-*-20	IH03J-100080	1	TH-10x50	4	WS-B-10	4	NBR-90 G35	1
IHF-4-T-20	IPH-4A(B)-*-20	IH03J-100100	1	TH-10x55	4	"	4	NBR-90 G40	1
IHF-5-T-20	IPH-5A(B)-*-21(11)	IH03J-100120	1	TH-12x55	4	WS-B-12	4	NBR-90 G50	1
IHF-6-T-20	IPH-6A(B)-*-21(11)	IH03J-100160	1	TH-12x60	4	"	4	NBR-90 G60	1

OUT Flange								Plug	
Flange Part No.		Bolt		Washer		O-ring			
IH03J-100040	1	TH- 8x45	4	WS-B- 8	4	NBR-90 P22	1	TPHA-1/4	2
IH03J-100040	1	TH- 8x45	4	”	4	NBR-90 P22	1	”	2
IH03J-100060	1	TH-10x50	4	WS-B-10	4	NBR-90 G30	1	”	1
IH03J-100080	1	TH-10x50	4	”	4	NBR-90 G35	1	”	2
IH03J-100120	1	TH-12x60	4	WS-B-12	4	NBR-90 G50	1	”	1

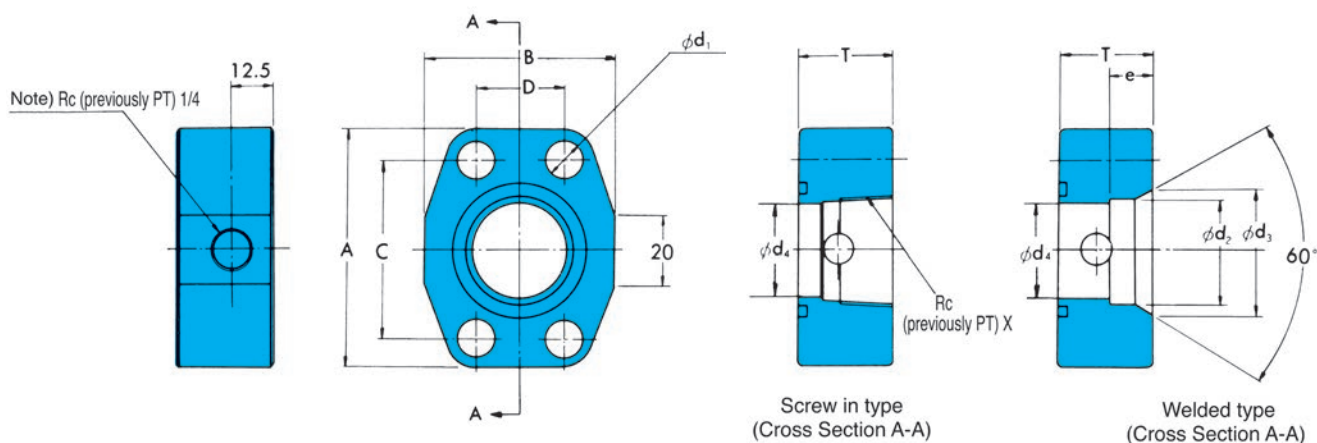
Note) 1. In the case of a double pump, the flange kit includes three flanges: one for the common IN port and two OUT port flanges. When using separate IN ports, use separate single pump flange kits, one each for the head side and the shaft side.

Note) 2. There is no common IN port in the case of the double pump models IPH-55, IPH-56, and IPH-66, or a single IN port is used.

Screw in type Flange Kit model No.	Applicable Pump Model No.	IN Flange							
		Flange Part No.		Bolt		Washer		O-ring	
IHF-22-T-20	IPH-22B-**-11	IH03J-100060	1	TH-10x50	4	WS-B-10	4	NBR-90 G30	1
IHF-23-T-20	23	IH03J-100080	1	"	4	"	4	NBR-90 G35	1
IHF-24-T-20	24	IH03J-100120	1	TH-12x55	4	WS-B-12	4	NBR-90 G50	1
IHF-25-T-20	25	IH03J-100160	1	TH-12x60	4	"	4	NBR-90 G60	1
IHF-26-T-20	26	IH03J-100200	1	TH-12x65	4	"	4	NBR-90 G75	1
IHF-33-T-20	IPH-33B-**-11	IH03J-100100	1	TH-10x55	4	WS-B-10	4	NBR-90 G40	1
IHF-34-T-20	34	IH03J-100120	1	TH-12x55	4	WS-B-12	4	NBR-90 G50	1
IHF-35-T-20	35	IH03J-100160	1	TH-12x60	4	"	4	NBR-90 G60	1
IHF-36-T-20	36	IH03J-100200	1	TH-12x60	4	"	4	NBR-90 G75	1
IHF-44-T-20	IPH-44B-**-11	IH03J-100120	1	TH-12x55	4	"	4	NBR-90 G50	1
IHF-45-T-20	45	IH03J-100200	1	TH-12x65	4	"	4	NBR-90 G75	1
IHF-46-T-20	46	IH03J-100240	1	TH-16x75	4	WS-B-16	4	NBR-90 G85	1

OUT Flange (Shaft Side)								OUT Flange (Head Side)								Plug	
Flange Part No.		Bolt		Washer		O-ring		Flange Part No.		Bolt		Washer		O-ring			
IH03J-100040	1	TH- 8x45	4	WS-B- 8	4	NBR-90 P22	1	IH03J-100040	1	TH- 8x45	4	WS-B- 8	4	NBR-90 P22	1	TPHA-1/4	3
IH03J-100040	1	"	4	"	4	NBR-90 P22	1	"	1	"	4	"	4	"	1	"	3
IH03J-100060	1	TH-10x50	4	WS-B-10	4	NBR-90 G30	1	"	1	"	4	"	4	"	1	"	3
IH03J-100080	1	"	4	"	4	NBR-90 G35	1	"	1	"	4	"	4	"	1	"	2
IH03J-100120	1	TH-12x60	4	WS-B-12	4	NBR-90 G50	1	"	1	"	4	"	4	"	1	"	2
IH03J-100040	1	TH- 8x45	4	WS-B- 8	4	NBR-90 P22	1	IH03J-100040	1	TH- 8x45	4	WS-B- 8	4	NBR-90 P22	1	"	2
IH03J-100060	1	TH-10x50	4	WS-B-10	4	NBR-90 G30	1	"	1	"	4	"	4	"	1	"	3
IH03J-100080	1	"	4	"	4	NBR-90 G35	1	"	1	"	4	"	4	"	1	"	2
IH03J-100120	1	TH-12x60	4	WS-B-12	4	NBR-90 G50	1	"	1	"	4	"	4	"	1	"	2
IH03J-100060	1	TH-10x50	4	WS-B-10	4	NBR-90 G30	1	IH03J-100060	1	TH-10x50	4	WS-B-10	4	NBR-90 G30	1	"	3
IH03J-100080	1	"	4	"	4	NBR-90 G35	1	"	1	"	4	"	4	"	1	"	2
IH03J-100120	1	TH-12x60	4	WS-B-12	4	NBR-90 G50	1	"	1	"	4	"	4	"	1	"	2

Pipe Flange Installation Dimension Diagram



Screw in type

Pipe Flange Kit Part Number	SAE Standard	Nominal Diameter X"	Dimensions (mm)							Weight kg
			A	B	C	D	T	ϕd_1	ϕd_4	
IH03J-100040	SAE J518b 1/2	1/2	54	46	38.1	17.5	33	9	12.7	0.4
-100060	SAE J518b 3/4	3/4	65	52	47.5	22.0	33	11	20	0.6
-100080	SAE J518b 1	1	70	59	52.4	26.2	33	11	27	0.6
☆ -100100	SAE J518b 1 1/4	1 1/4	79	73	58.7	30.2	38	11	33	1.0
-100120	SAE J518b 1 1/2	1 1/2	94	83	70.0	36.0	38	13	37.5	1.4
☆ -100160	SAE J518b 2	2	102	97	77.8	42.9	38	13	50	1.7
☆ -100200	SAE J518b 2 1/2	2 1/2	114	109	88.9	50.8	43	13	60	2.1
☆ -100240	SAE J518b 3	3	135	131	106.4	61.9	48	17.5	71	3.3

Welded Type

Pipe Flange Kit Part Number	SAE Standard	Pipe Diameter	Dimensions (mm)										Weight kg
			A	B	C	D	T	e	ϕd_1	ϕd_2	ϕd_3	ϕd_4	
IH03J-200040	SAE J518b 1/2	1/2	54	46	38.1	17.5	33	11	9	22.2	27	12.7	0.4
-200060	SAE J518b 3/4	3/4	65	52	47.5	22.0	33	12	11	27.7	35	20	0.6
-200080	SAE J518b 1	1	70	59	52.4	26.2	33	14	11	34.5	42	27	0.6
☆ -200100	SAE J518b 1 1/4	1 1/4	79	73	58.7	30.2	38	16	11	43.2	48	33	1.0
-200120	SAE J518b 1 1/2	1 1/2	94	83	70.0	36.0	38	18	13	49.1	58	37.5	1.4
☆ -200160	SAE J518b 2	2	102	97	77.8	42.9	38	19	13	61.1	68	50	1.7
☆ -200200	SAE J518b 2 1/2	2 1/2	114	109	88.9	50.8	43	22	13	77.1	82	60	2.1
☆ -200240	SAE J518b 3	3	135	131	106.4	61.9	48	25	17.5	90.0	97	71	3.3

Recommended Tightening Torque for Flange Installation Bolts

For aluminum body

Mounting bolt	Tightening Torque N · m (kgf · cm)
M8	19.6 to 23.5 {200 to 240}
M10	49.0 to 58.8 {500 to 600}
M12	88.2 to 112.7 {900 to 1150}

For cast body (shared IN port)

Mounting bolt	Tightening Torque N · m (kgf · cm)
M10	50 to 65 { 510 to 662}
M12	88 to 112 { 898 to 1140}
M16	215 to 275 {2192 to 2800}

Note 1) There is no RC (previously PT) 1/4 tap for the above flange numbers (exclusively for suction port use) marked with a star (☆).

Note 2) The bolt's thread length should be more than 1.25 times the bolt's diameter and the bolt must not reach the bottom of the bolt hole.