

Casters for Pipe Frames

Attachment Parts of Casters for Pipe Frames / How to Mount

Fixed Type PHCHK

Swivel Type PHCH PHCHS (with Stopper)

***PHCHK100 PHCH100 PHCHS100**

Mounting hole dimensions F and G vary according to slotted holes.

The following parts are included with Fixed and Swivel Types.
M8x40 Hex Bolt x2
Spring Washer x2
M8 Nut x2

Type	Main Body	Wheel	Bearing
PHCHK	EN 1.0320 Equiv. (hot coiled)	Trivalent Chromate	Synthetic Rubber
PHCH			Provided
PHCHS			

Rotation	Part Number Type	D	P	M	B	H	A	C	F (F ₁)	d	E	G (G ₁)	Color	Allowable Load		Mass kg		Unit Price	
														N (kgf)	Not Provided	Not Provided	With Stopper	No Stopper	With Stopper
Fixed	PHCHK	100	75	8	32	130	110	70	90(80)	10.5	-	50(45)	Black	1177	{120}	0.83	-	-	-
		130	38		177	138	90	100	11	-	56	1765		{180}	1.6	-	-		
		150	42		198	138	90	100	11	-	56	1961		{200}	1.9	-	-		
Swivel	PHCH PHCHS (with Stopper)	100	75	8	32	130	90	90	71(68)	10.5	30	71(68)	Black	1177	{120}	1.06	1.16	-	-
		130	38		177	120	105	90	11	40	80	1765		{180}	2.0	2.16	-	-	
		150	42		198	120	105	90	11	45	80	1961		{200}	2.34	2.54	-	-	

RoHS 10

No Stopper

With Stopper

Frame Insert Type * Tighten with a wrench for pipe inserts (PFSP).

PHCHF **PHCHF5 (with Stopper)**

Type	Main Body	Wheel	Bearing
PHCHF	EN 1.0320 Equiv. (hot coiled)	Trivalent Chromate	See below.
PHCHF5			Provided

Part Number Type	Wheel Material Component / Color	D	d ₁	B	H	J	E	Wrench Width mm	Mass kg	Unit Price					
										R (Synthetic Rubber)	N (Nylon)	U (Urethane)	T (Conductive Rubber)	M (MC Nylon)	C (Iron: EN-JL 1030 Equiv.)
PHCHF	50 R (Synthetic Rubber, Black)*1	50	24	20	70	36	22	14	0.18						
	75 N (Nylon, White)*2	75	24	100	38	28	21	0.49							
	100 M (MC Nylon, Navy-blue)*2	100	24	132	60	31	21	0.66							
PHCHF5 (with Stopper)	50 T (Conductive Rubber, Black)*5	50	24	20	70	36	22	14	0.18						
	75 C (Iron: EN-JL 1030 Equiv. Bright Chromate)*6	75	24	100	38	28	21	0.49							
	100	100	24	132	60	31	21	0.66							

*1: The color of synthetic rubber D75 is gray. *2: Only 50 and 75 are available for D.

D	Allowable Load N {kgf}				
	R (Synthetic Rubber)	N (Nylon)	U (Urethane)	T (Conductive Rubber)	C (Iron: EN-JL 1030 Equiv.)
50	343{35}	392{40}	392{40}	343{35}	392{40}
75	588{60}	784{80}	686{70}	588{60}	784{80}
100		588{60}	588{60}	490{50}	-

Plastic Joint Insert Type PHCHPJ

***JBS009 Use a wrench JBS009 on P904.**

Type	Main Body	Wheel	Bearing
PHCHPJ	EN 1.0320 Equiv. (hot coiled)	Trivalent Chromate	Synthetic Rubber
			Provided

To be Inserted	Part Number Type	D	d ₁	B	H	J	E	Wrench Width mm	Color	Allowable Load N (kgf)	Mass kg	Unit Price
Plastic* Joint	PHCHPJ	50	28	20	67	28	22	17	Black	343 {35}	0.19	

Wrenches for Frame Insert

PFSP14 **PFSP21**

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Material EN 1.0330 Equiv.

Part Number Type	Applicable Caster No.	Mass (g)	Unit Price
PFSP	14	50	18
	21	75, 100	58

Plates with Caster for Plastic Joints

JBS001 **JBS002**

Plate with Caster A for Metal Joints

JBS005 **JBS006**

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Material EN 1.0330 Equiv.
Surface Treatment Trivalent Chromate

Part Number	Mass (g)	Unit Price
JBS001	90	
JBS002	80	
JBS005	90	
JBS006	80	

Caster Base A JBS003

Caster Wrench 17/19 JBS009

Caster Base BR JBS004R

Caster Base BL JBS004L

Part Number	Mass (g)	Unit Price
JBS003	380	
JBS004R	390	
JBS004L	890	
JBS009	110	

Ordering Example

Part Number **JBS003**



How to Mount Casters for Pipe Frames

App. Example of Swivel Type Caster (PHCH, PHCHS)

App. Example of Fixed Caster (PHCHK)

When using Plastic Joint

When using Metal Joint

Components	Quantity
Swivel Type Caster	1 pc.
Plate with Caster A (JBS001)	2 pcs.
Plate with Caster B (JBS002)	2 pcs.
Mounting Bolt, Spring Washer and Nut	2 Sets

Components	Quantity
Fixed Type Caster	1 pc.
Plate with Caster A (JBS005) for Metal Joint	2 pcs.
Plate with Caster B (JBS006) for Metal Joint	2 pcs.
Mounting Bolt, Spring Washer and Nut	2 Sets

Calculation of Caster Height

How to Calculate

H = 33.5mm + H

How to Calculate

H = 36.5mm + H

Components	Quantity
Swivel Type Caster	1 pc.
Plate with Caster A (JBS001)	2 pcs.
Caster Base B (JBS004)	1 pc.
Mounting Bolt, Spring Washer and Nut	2 Sets

Components	Quantity
Fixed Type Caster	1 pc.
Plate with Caster A (JBS001)	2 pcs.
Caster Base A (JBS003)	1 pc.
Mounting Bolt, Spring Washer and Nut	2 Sets