

# 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.  
M8x35 Hex Bolt x2  
Spring Washer x2

Type	Main Body	Wheel	Bearing
	<b>M</b> Material <b>S</b> Surface Treatment	<b>M</b> Material	
PHCHK	SPHC	Trivalent Chromate	Synthetic Rubber
PHCH			Provided
PHCHS			

Rotation	Part Number Type	D	P	M	B	H	A	C	F (F <sub>1</sub> )	d	E	G (G <sub>1</sub> )	Color	Allowable Load		Mass kg		Unit Price	
														N (kgf)	Not Provided	Not Provided	Provided	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	-	-	-		1765	{180}	1.6	-	-	-
		150	42		198	138	90	100	11	-	-	-		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	45	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 PHCHF PHCHFS (with Stopper)**

\* Tighten with a wrench for pipe inserts (PFSP).

Type	Main Body	Wheel	Bearing
	<b>M</b> Material <b>S</b> Surface Treatment	<b>M</b> Material	
PHCHF	SPHC	Trivalent Chromate	See below.
PHCHFS			Provided

Part Number Type	Wheel Material Component / Color	D	d1	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: FC20)
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)*2,3	100	24	132	60	31	21	0.66							
PHCHFS (with Stopper)	50 U (Urethane, Brown)4	50	24	20	70	36	22	14	0.18						
	75 T (Conductive Rubber, Black)5	75	24	100	38	28	21	0.49							
	100 C (Iron: FC20 Bright Chromate)*6	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)	M (MC Nylon)	C (Iron: FC20)
50	343{35}	392{40}	392{40}	343{35}	392{40}	392{40}
75	784{80}	784{80}	686{70}	588{60}	784{80}	784{80}
100	588{60}	588{60}	588{60}	490{50}	-	-

**Plastic Joint Insert Type PHCHPJ**

\*JBS009 Use a wrench JBS009 on P904.

Type	Main Body	Wheel	Bearing
	<b>M</b> Material <b>S</b> Surface Treatment	<b>M</b> Material	
PHCHPJ	SPHC	Trivalent Chromate	Synthetic Rubber
			Provided

To be Inserted	Part Number Type	D	d1	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**

**RoHS 10**

**M** Material SPCC

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**

**Plate with Caster A for Metal Joints JBS005**

**JBS002**

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**

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

**ex** Example

### How to Mount Casters for Pipe Frames

App. Example of Swivel Type Caster (PHCH, PHCHS)	App. Example of Fixed Caster (PHCHK)
<p>Plate with Caster Attachment</p> <p>Swivel Type Caster ..... 1 pc.</p> <p>Plate with Caster A (JBS001) ..... 2 pcs.</p> <p>Plate with Caster B (JBS002) ..... 2 pcs.</p> <p>Mounting Bolt, Spring Washer ..... 2 Sets</p>	<p>When using Metal Joint</p> <p>Fixed Caster</p> <p>Plate with Caster A (JBS005) for Metal Joint ..... 1 pc.</p> <p>Plate with Caster B (JBS006) for Metal Joint ..... 2 pcs.</p> <p>Mounting Bolt, Spring Washer ..... 2 Sets</p>
<p>When using Plastic Joint</p> <p>Plate with Caster Attachment (Large Load)</p> <p>Swivel Type Caster ..... 1 pc.</p> <p>Plate with Caster A (JBS001) ..... 2 pcs.</p> <p>Caster Base B (JBS004) ..... 1 pc.</p> <p>Mounting Bolt, Spring Washer ..... 2 Sets</p>	<p>When using Plastic Joint</p> <p>Fixed Type Caster ..... 1 pc.</p> <p>Plate with Caster A (JBS001) ..... 2 pcs.</p> <p>Caster Base A (JBS003) ..... 1 pc.</p> <p>Mounting Bolt, Spring Washer ..... 2 Sets</p>

### Calculation of Caster Height

**How to Calculate**

H = 33.5mm + H

H = 36.5mm + H