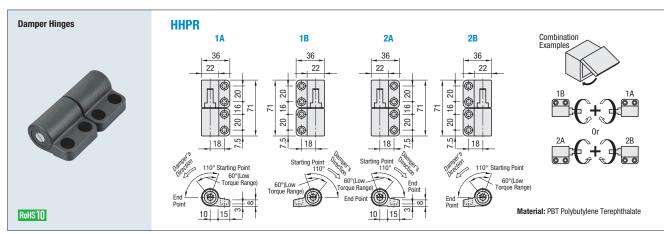
Damper Hinges



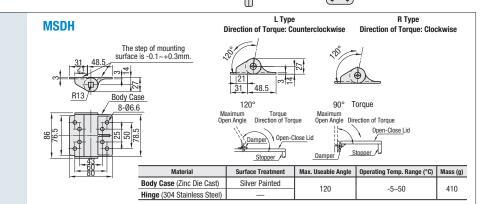
Part Nun	nber	Reverse Torque	Max. Operating	Operating Temp. Range	Mass
Туре	No.	(N-m) *	Angle	(°C)	(g)
	1A				
HHPR	1B	0.49-1.27	110	0-40	46
nnrn	2A	0.49-1.27	110	0-40	40
	2B				

^{*}Reverse Torque value is for a single damper hinge.

Damper Hinges

RoHS10





Pa	rt Number	Shaft Rotating	Max.
Туре	Max. Usable Torque {N-m}	Direction Selection	Reverse Torque (N-m)
	3		0.4 or less
MSDH	5	L Counterclockwise	0.6 or less
MOGINI	7.5	R Clockwise	0.8 or less
	10		1.0 or less
① Torque va	alue is for a single hi	nge.	

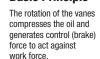




Example



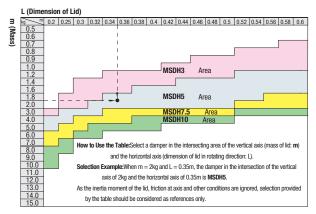






① Reverse torque is torque in the opposite direction

Table of Selection Guide



How to Select a Damper Hinge



The lid in a horizontal position generates maximum torque as shown on left. Calculate maximum torque according to the following formula before selecting a damper that satisfies the specifications.

Max. Torque T = L / 2 x m (Weight: kg) x 9.8 (Newton: N) Example) When $L=0.4\ m$ and $m=5\ kg$,

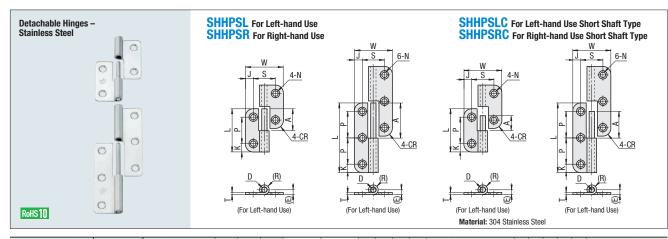
Max. Torque T = 0.4 / 2 x 5 x 9.8 = 9.8 N-m→Select MSDH10

Note) The selection made by the calculation above is for reference only. The friction resistance and the effect of inertia moment at the hinge were not taken into consideration in the example above.

The viscosity of the oil in the damper changes depending on the temperature of the operating environment. Generally, the damping characteristic decreases with rising temperature, whereas it increases with lowering temperature.

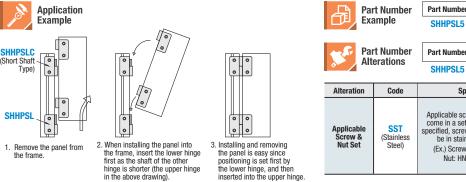
Detachable Hinges

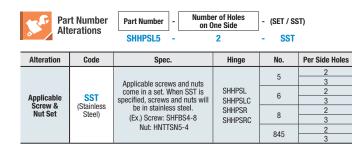
Stainless Steel



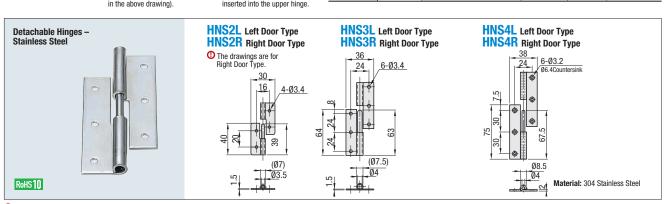
Part Number		Halaa an	* All	owable Load	Mana			SHHPSL	SHHPSLC						N						Applicable	Corour
Tumo	No.	Holes on One Side		N	Mass (g)	L	W	SHHPSR	SHHPSRC	K	P	J	S	Through	Countersunk	T	(E)	(R)	CR	D	Applicable	Sciew
Туре	NO.	Olic Side	kg	N	(9)				A					Through	Countersunk						Screws	Quantity
	_	2	9	88	34	41	36	19	14	0	25	7.5	21								SHFBS4-8	4
SHHPSL	b	3	11	108	55	66	30	31	26	0	23	7.5	21	5.5	8.6	٦	16	4.6		5	опгро4-0	6
SHHPSLC	0	2	12	117	49	48	48	22	17	- 9	30	8	32	5.5	For M4 Screws	4	4.0	4.0	4		SHFBS4-10	4
For Left-hand Use	0	3	15	147	80	78	40	37	32	9	30	0	32								SHED34-10	6
SHHPSR	0	2	25	245	111	59	62	29	24	11	37	10	42									4
SHHPSRC	0	3	38	372	185	96	02	47	42	11	31	10	42	6.5	10.6	2	6 1	6.1	5	6	SHFBS5-12	6
For Right-hand Use	0.45	2	30	294	162	70	80	34	29	13.5	12	16 5	17	0.5	For M5 Screws	3	0.1	0.1	3	U	3111033-12	4
- or riight-hallu osc	045	3	40	392	266	113	00	56	51	13.3	43	10.5	47									6

* The allowable load is the value when two pieces are used.





Holes on One Side



Part Number

The Right Door Type has a door on the right side.

Part Number	*Allowable Load	Weight					
Type	(N)	(g)					
HNS2L	48	21					
HNS2R	40	21					
HNS3L	68	44					
HNS3R	00	44					
HNS4L	147	65					
HNS4R	147	00					



