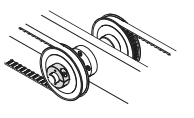
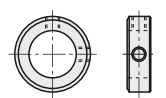
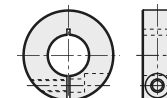
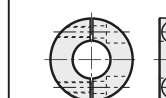
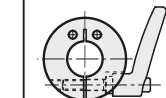
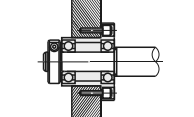
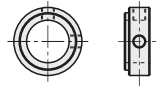
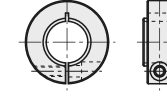
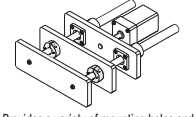
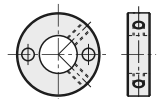
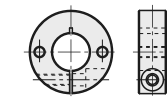
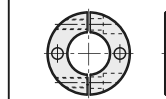
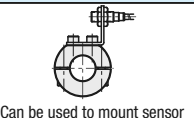
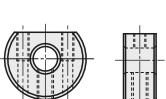
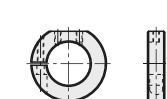
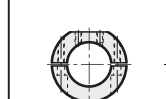
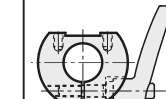
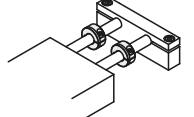





Shaft Collar - Overview

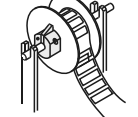
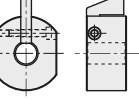
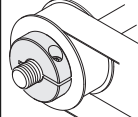
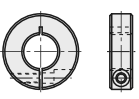

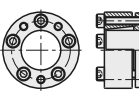
Product Variations

- Features** •MISUMI offers a wide variety products by combining any of the 5 applications and 4 fastening methods.
- [Application]:**General Purpose, Bearing Mounting, Mounting other parts (general purpose), Mounting other parts (sensor brackets), Damper
- [Fastening Method]:**Set Screw, Clamp, Split, Lever

Product Variation List

Fastening Method		Set Screw (Set Screw x 2pcs.)	Clamp (Hex Socket Head Cap Screw x 1 pc.)	Split (Hex Socket Head Cap Screw x 2 pcs.)	Lever
Applications		•Reasonably priced. •More compact in thickness than Clamp Type.	•Stronger in clamping force than Set Screw Type. •Shaft damage from tightening can be avoided.	•Post assembly installation and removal are possible, making for easy maintenance. •Shaft damage from tightening can be avoided.	•Can be fastened without using any tool. •Is suitable for portions where the collar position is changed frequently.
General Purpose					
	• Can be used as the stopper, locating component or pulley retainer.				
Page		P267, P268	P269, P270	P271, P272	P286, P287, P288
For Bearing Mounting					
	• Usable as the bearing inner ring retainer.				
Page		P275, P276	P277, P278	-	-
For mounting other parts (General Purpose)					
	• Provides a variety of mounting holes and thus, allows mounting of plates, etc. (Hole Type: Through Hole, Tapped Hole, Counterbore Hole)				
Page		P279	P280, P281, P282, P291, P292	P283, P291, P292	-
For mounting other parts (Sensor Brackets)					
	• Can be used to mount sensor brackets. • Has a mounting hole drilled in conformance with the hole pitch of sensor brackets.				
Page		P289	P289, P290, P254	P289, P290	P286, P287, P288
Damper					
	• Reduces noises generated by metal-to-metal contact.				
Page		-	P273, P293	P273, P293	-

Product Variation List (Others)

One-Touch Mount			For screw shaft retention			Surface Pressure		
	• Can be mounted or removed easily and quickly.			• Can be used to retain the ends of a screw shaft.				
Page		P294	Page		P295	Page		Listed on the web

Variation List for I.D. / Material / Surface Treatment

- A variety of I.D. configurations is available within the range of Ø3-100.
- Combination use of MISUMI Shaft Collars with O.D. Tolerance g6/h7 Rotary Shafts, Circular Posts and Device Stands are recommended.

Applications		Fastening Method	Listed page	I.D.																									
				3	4	5	6	8	10	12	13	14	15	16	17	18	20	22	24	25	27	30	35	40	50	60	80	100	
General Purpose		Set Screw	P267~	●	●	●		●	●	●	●	●			●	●		●	●			●			●	●	●	●	
		Clamp	P269~					●	●	●	●	●			●	●		●	●		●			●	●	●	●		●
		Split	P271~					●	●	●	●	●			●	●		●	●					●	●	●	●		●
		Lever	P286~					●	●	●	●				●	●		●			●					●	●	●	
For Bearing Mounting		Set Screw	P275~		●	●		●	●	●	●				●		●			●			●	●	●				
		Clamp	P277~					●	●	●	●				●		●						●		●	●	●		
For mounting other parts (General Purpose)		Set Screw	P279~	●	●	●		●	●	●	●	●			●	●		●	●			●		●	●	●	●		
		Clamp	P280~					●	●	●	●	●			●	●		●	●			●		●	●	●	●		
		Split	P283~							●	●	●	●				●	●					●		●	●	●	●	
For mounting other parts (Sensor Brackets)		Set Screw	P289~					●	●	●	●				●			●			●		●		●				
		Clamp	P289~						●	●	●	●				●	●		●	●			●		●	●	●		
		Split	P289~						●	●	●	●				●	●		●	●			●		●	●	●		
		Lever	P286~							●	●					●	●					●		●		●	●	●	
Damper		Clamp	P273~					●	●	●	●	●			●	●			●			●		●	●	●	●		
		Split	P273~						●	●	●	●	●			●	●					●		●		●	●		
Others	Threaded Bore	-	P295~	●	●	●		●	●	●	●			●	●		●	●	●	●		●		●					
	One-Touch Fixed Type	Clamp	P294~							●	●				●			●	●			●		●					

App. Example

②SCSM (P281)

①SCSBN (P277)

③SCS (P269)

①Applications for bearing mounting

SCSLS (P277)

SCSBN (P277)

Bearing (P991)

Shaft (SFJ, P117)

Can be used to retain bearing inner rings.

②(General Purpose) Applications for mounting other parts

SCSM (P281)

Allows some other parts to be mounted onto the current part.

③General Purpose Applications

SCS (P269)

Allows shafts to be secured without damage.

Tightening Torque of Clamp Type Shaft Collars

Definition of Max. Thrust Load

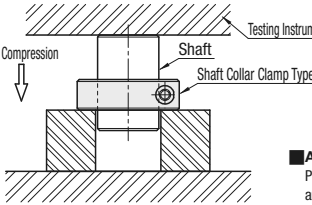
The shaft collar is tightened to torque value shown in the chart below, then compressive load is applied with the tester. The compressive load where the shaft begins to move is defined as the Max. Thrust Load.

Nominal	Tightening Torque (N · m)		
	EN 1.1191 Equiv. / EN 1.4301 Equiv.	EN AW-2017 Equiv.	
M2.6	0.94	-	
M3	1.61	1.61	
M4	3.71	3.71	
M5	7.54	7.54	
M6	12.87	7.54	
M8	31.2	12.87	
M10	61.75	12.87	
M16	267	-	

Testing Conditions

1. Shaft: MISUMI Hardened Shaft (SFJ) P117
2. Testing Instrument: Universal Tester
3. Tightening Torque: Select Tightening Torque from the tables on the above depending on the conditions of use.
4. Condition of Antirust Oil: Wiped with a cloth as armed.

Testing Method



About Screw Tightening

Plastic threads may be damaged by repetitive tightening and loosening of the screw.

Clamp Type

Dimensions			Max. Thrust Load (kN)		Weight (g)	
D (I.D.)	B (Width)	M	SCS, SCSJ (EN 1.1191 Equiv.)	SSCS (EN 1.4301 Equiv.)	SCS, SCSJ (EN 1.1191 Equiv.)	SSCS (EN 1.1191 Equiv.)
6	*6	2.6	0.7	0.4	10	
	8	3	1.1	0.5	17	
	10	4	1.8	1	21	
8	*6	2.6	0.9	0.3	14	
	8	3	0.6	0.6	26	
	10	4	2.2	1.1	32	
10	*6	2.6	0.7	0.3	17	
	8	3	1.2	0.4	36	
	10	4	2	1	45	
12	12	5	5.1	0.9	55	
	*6	2.6	0.7	0.3	16	
	8	3	1.1	0.8	34	
15	10	4	2.8	0.8	43	
	12	5	4	1.2	52	
	*8	3	1.5	0.6	31	
20	10	4	1.5	1.1	54	
	12	5	5.1	1.8	69	
	15	6	5.6	1.4	119	
16	*8	3	2.1	1.1	29	
	10	5	7.1	2.9	55	
	12	5	5.4	2.3	67	
20	15	6	10.2	1.5	116	
	*8	3	2.2	0.8	38	
	10	5	5.8	2.7	69	
25	12	5	6.4	1.7	84	
	15	6	10.4	3	140	
	*10	4	3.6	1.8	66	
30	12	5	8.8	2.6	98	
	15	6	8.8	3.6	164	
	*12	5	8.4	2.8	111	
35	15	6	8.9	2.2	185	
	20	8	15	4	318	
	*12	5	9.9	2.7	207	
40	18	8	21.3	6	348	
	22	10	35.8	11.8	604	
	*15	6	11.8	4	318	

- Note 1. * marked dimensions are for Compact Type only. (SCSJ, SSCSJ)
2. These values are merely test results, and not guaranteed by the manufacturer.
3. Use optimum tightening torques depending on the condition of use by users.