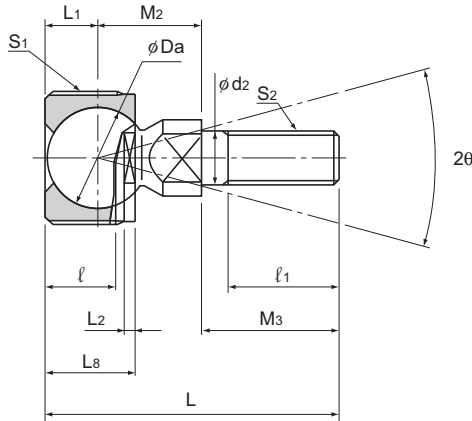


# Model TBS



Model No.	Outer dimensions		Holder dimensions					Shaft diameter d <sub>2</sub> h9	Threaded S <sub>2</sub> JIS Class 2
	Threaded S <sub>1</sub> JIS Class 2	Length L	L <sub>8</sub>	ℓ	L <sub>1</sub>	L <sub>2</sub>	W 0 -0.3		
TBS 6	M20×1.5	34.2	11.5	8	7	2	17	6	M6×1
TBS 8	M22×1.5	41.5	14.5	11	8.5	2	19	8	M8×1.25
TBS 10	M25×1.5	55.5	17	13.5	10	2	22	10	M10×1.5
TBS 12	M30×1.5	63	20	15.5	12	3	27	12	M12×1.75

## [Material]

Holder : High strength zinc alloy (see 22-6)  
 Ball shank : Bearing steel ball Hardness: 650 Hv or higher  
 Shank S35C Chromate treatment

## [Spherical Clearance]

Perpendicular to the axis : 0.03mm or less  
 Axial direction : 0.1mm or less

## [Female Threading for Attaching the Outer Ring]

JIS Class 2 thread

## [Yield-Point Strength]

It indicates the strength in the direction shown in the Fig.1.

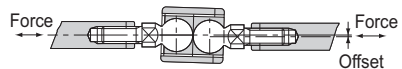
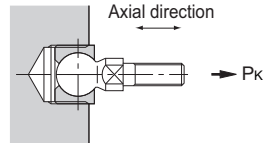
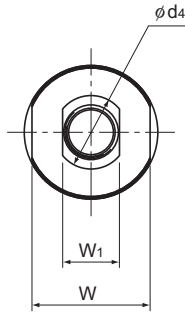


Fig.1



Unit: mm

	Ball shank dimensions					Ball diameter Da	Permissible tilt angles $2\theta^\circ$	Applied static load			Yield-point strength P <sub>k</sub> N	Mass g
	d <sub>4</sub>	M <sub>2</sub>	M <sub>3</sub>	l <sub>1</sub>	W <sub>1</sub> 0 -0.3			Perpendicular to the axis C <sub>s</sub> N	Axial direction			
									C <sub>sa</sub> (Tensile) N	C <sub>sa</sub> (Compressive) N		
10	12.2	15	11	8	12.7	30	13700	4900	12000	2450	30	
12	16	17	12	10	15.875	30	24600	10400	17600	5200	50	
14	19.5	26	21	11	19.05	30	32700	14400	25000	7250	80	
19	21	30	24	17	22.225	30	44000	18300	35000	9220	130	

### [Example of Installation]

As shown in the Fig.2 below, compared with the conventional installation using a frog-shaped joint, model TBS can be installed more compactly and more easily.

### [Lubrication]

Since the holder has an oil pocket, it allows grease to be replenished as necessary.

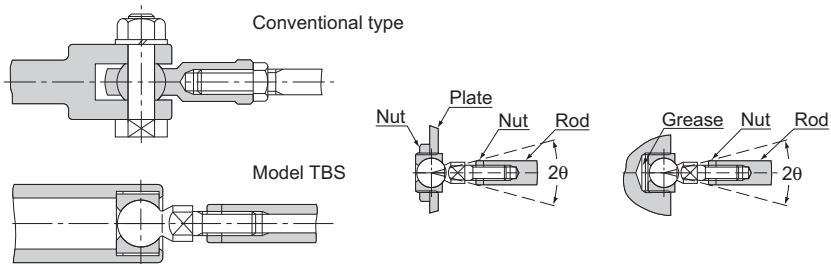


Fig.2