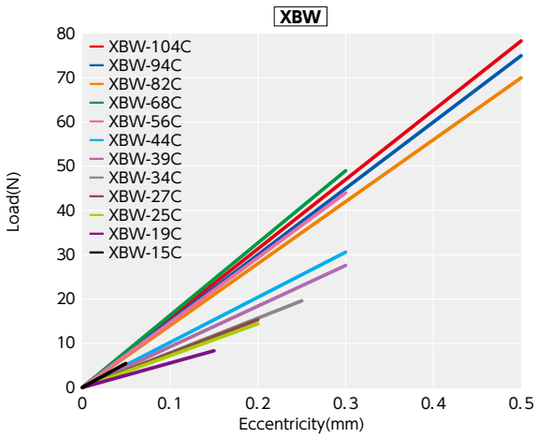
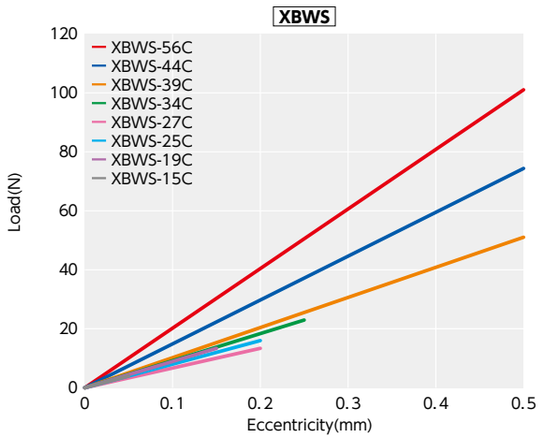
XBW/XBWS Flexible Coupling - Disk Type

WEB Selection Tool　WEB CAD Download　SUS Stainless steel　Zero Backlash　High Rigidity

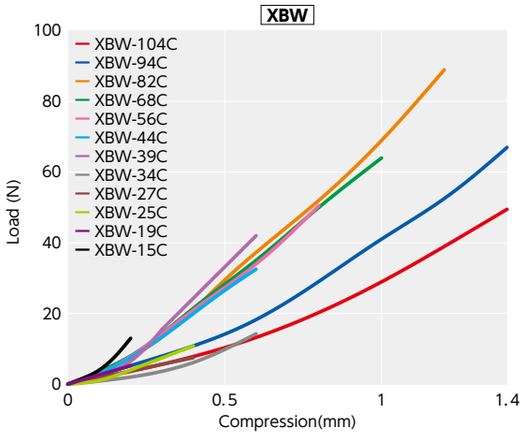
Technical Information

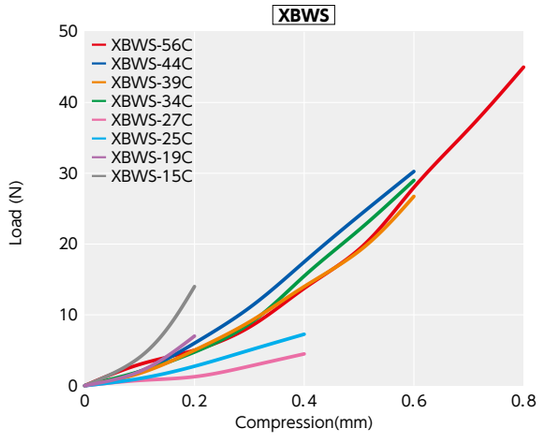
● Eccentric Reaction Force



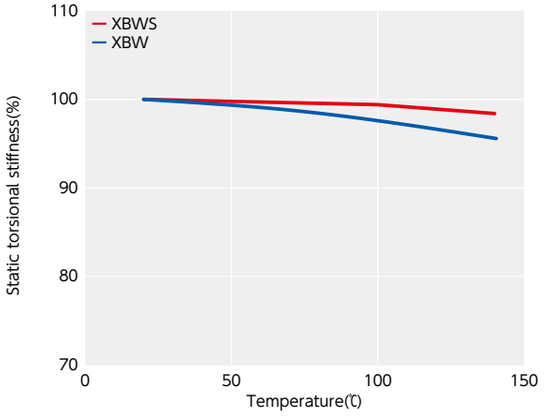


● Thrust Reaction Force





● Change in static torsional stiffness due to temperature



This is a value under the condition where the static torsional stiffness at 20℃ is 100%.
The change of **XBW** **XBWS** in torsional stiffness due to temperature is small and the change in responsiveness is extremely small. However, if the unit is used at higher temperature, be careful about misalignment due to elongation or deflection of the shaft associated with thermal expansion.

● Slip Torque

Concerning the sizes shown in the following table, please note that the shaft's slip torque is smaller than the max. torque of **XBW-C** **XBWS-C**.

Unit : N・m

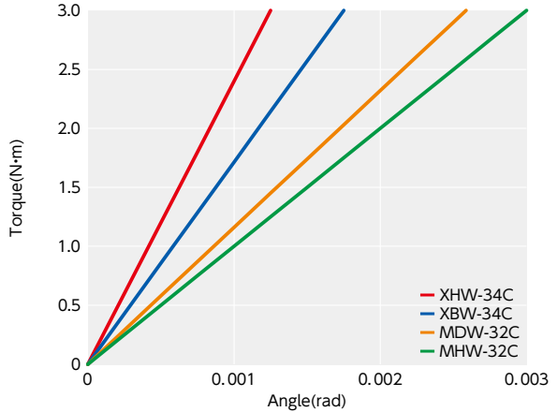
Part Number	Bore Diameter (mm)							
	3	4	6	8	10	11	14	15
XBW-15C2	1							
XBW-19C2		1.6						
XBW-34C3			5.2	6				
XBW-44C2				15				
XBW-56C3					25	32		
XBW-68C5							80	100

Unit : N・m

Part Number	Bore Diameter (mm)								
	3	4	6	8	10	11	12	14	15
XBWS-15C2	1								
XBWS-19C2		1							
XBWS-34C3			5	6					
XBWS-39C2				5.5	8				
XBWS-44C2				4.5	6	10			
XBWS-56C3					9	13	18	25	28

● These are test values based on the condition of shaft's dimensional allowance: h7, hardness: 34 - 40 HRC, and screw tightening torque of the values described in **XBW-C** **XBWS-C** Dimension table.

● Comparison of static torsional stiffness (disk-type)



NBK　WEB ▶https://www.nbk1560.com