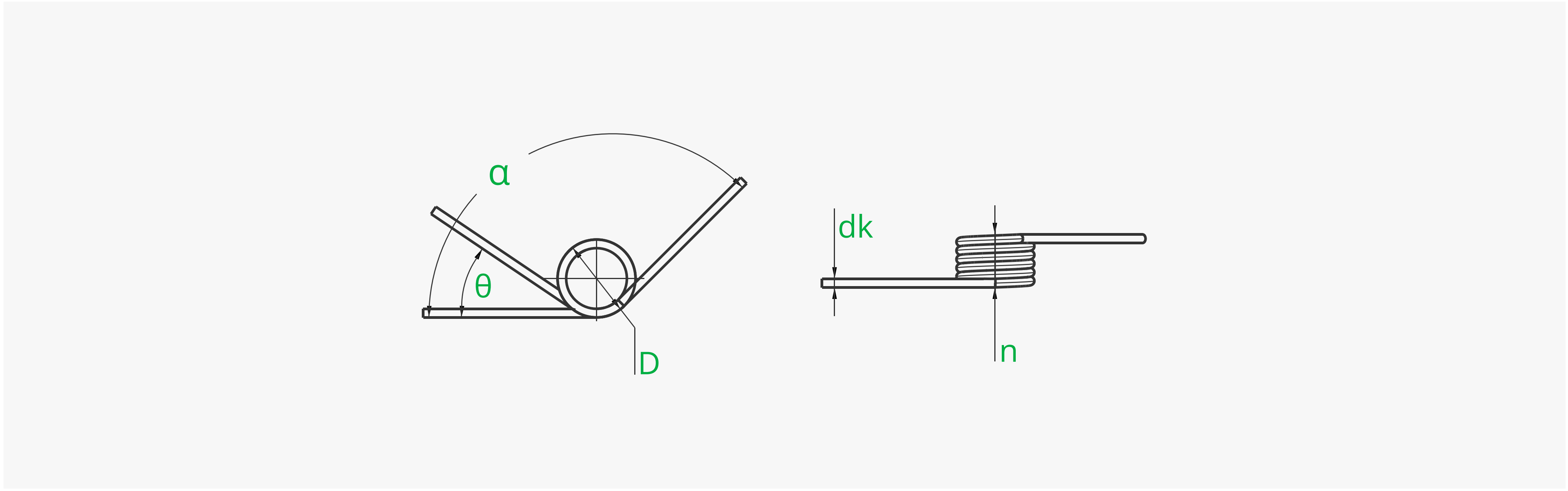


Torsion Spring



Product ID	D (mm) Outer Diameter	n Total Coil	dk (mm) Wire Diameter	L (mm) Leg Length	α (°) Leg Angle	Rate (g.mm/deg)	θ (°) Max Deflection
BC001	5	3	1	24	120°	362.36	24°
BC002	4	6	0.4	12	120°	5.59	70°

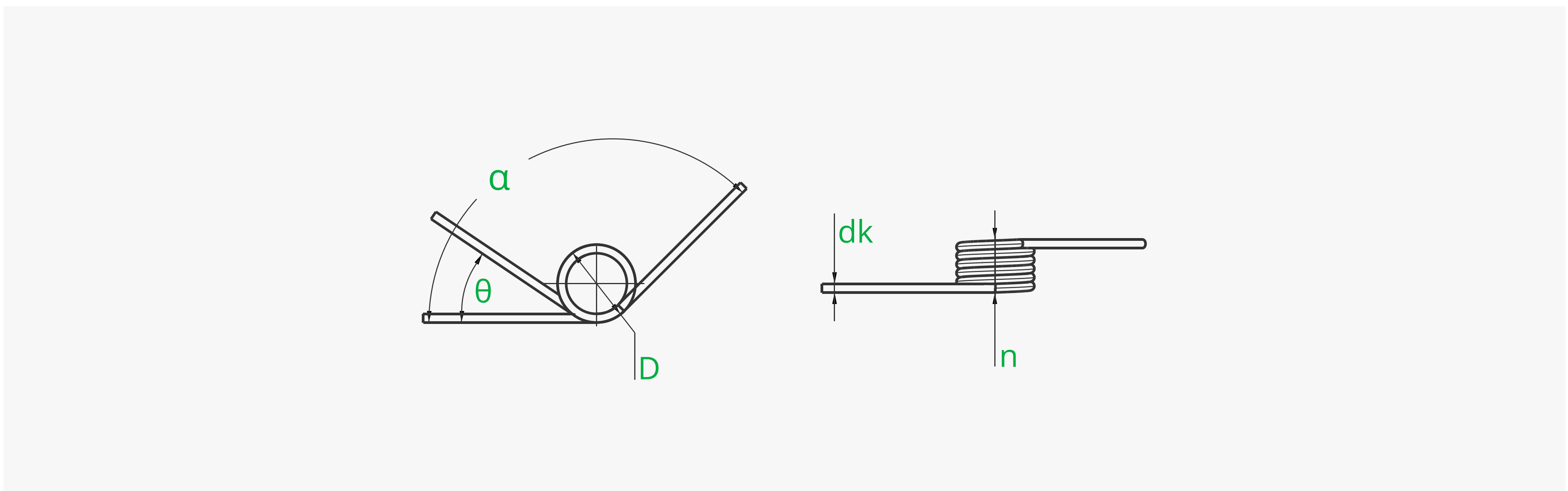
Basic Information

Surface Treatment	No	Material	304 Stainless steel
Winding Direction	Right	Leg Orientation	Tangential
Type	Torsion spring	Leg Style	Straight

Consideration

- Exceeding the maximum allowable deflection can lead to torsional spring fatigue. As the spring rate increases due to higher loads, the load curve rises accordingly, resulting in high stresses that can cause spring fractures.
- In applications without pre-torsion, gaps may cause the spring to vibrate vertically, leading to spring twisting. With pre-torsion, the spring tends to be more stable.
- When springs are used in a transverse orientation, it may cause wear and fracture of the guide pin and the spring.

扭簧



产品 ID	外径D (mm)	圈数n	线径dk (mm)	臂长L (mm)	初始角度α (°)	弹簧常数 (g.mm/deg)	最大使用角度 (°)
BC001	5	3	1	24	120°	362.36	24°
BC002	4	6	0.4	12	120°	5.59	70°

基本信息

表面处理	无	材质	304不锈钢
旋转方向	右	支腿构型	切向
类型	扭簧	力臂收口类型	直尾

注意事项

- 超过最大改变量的压力容易形成扭簧折损，由于弹簧定数变高形成荷重曲线随之升高，进而产生高应力使弹簧断裂
- 无预扭的运用因有间隙形成弹簧上下震动招致弹簧扭曲，如有预扭时，弹簧较为稳定
- 弹簧横置运用弹簧横置运用时，会形成导销与弹簧磨损并断裂