

The Twiflex VS disc brake caliper is comprised of two modules secured to U-shaped top and bottom mounting plates by means of tie rods. Normally one or two brakes will be used per disc, but the number may be increased, depending on disc size. The brake units can be positioned at any angle around the periphery of horizontal or vertical brake discs, but ideally they should be mounted horizontally (in 3 or 9 o'clock positions).

A range of discs is available from Twiflex.

Minimum disc diameter for the VS caliper is 1000mm.

For tandem calipers (two calipers mounted one on top of the other), the minimum disc diameter is 2 metres.

Disc thickness from 38mm.

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads.

Maximum Braking Force: 185kN

Retraction Pressure 180 bar

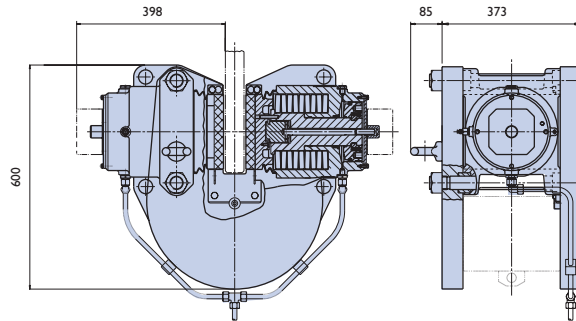
Weight of caliper - 410kg

Volume displacement per 1mm stroke at both pads = 32ml

Contact Twiflex for installation details.

Note:

Spring fatigue life is a function of the caliper rating.



Caliper Type	Disc/Pad Air Gap mm	Braking Force kN	Hydraulic Pressure for Full Retraction bar
VS230	4	185	180
VS205	4	165	163
VS190	4	153	154
VS175	4	141	144
VS155	4	125	131
VS137	4	111	108
VS100	4	81	84

The ratings shown in the table are based on fully bedded and conditioned brake pads with nominal friction coefficient $\mu = 0.4$.

Braking Torque (kNm) = Braking Force (kN) x Effective Disc Radius (m)

Where Effective Disc Radius (m) = Actual Disc Radius - 0.110m