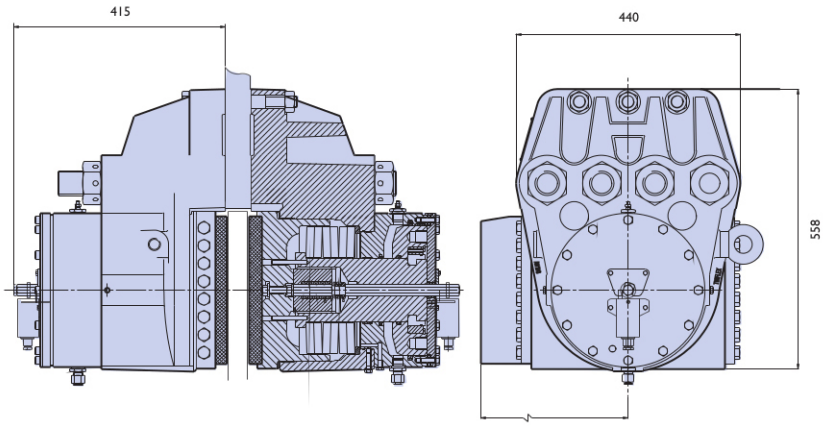
Twiflex Limited

VMS2 and VMS2 SP Spring Applied, Hydraulically Released



VMS2

The Twiflex VMS2 & VMS2 SP disc brake calipers comprise of two seperate modules secured to a centrally located mounting plate by means of rods and bolts and are used with a brake disc thickness of 38mm and over. The central mounting plate thickness is 12mm greater than the brake disc.
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 the disc.
A range of brake discs is available from Twiflex, see Section 3.2.
Minimum disc diameter is 1500mm.
The braking force is widely adjustable by means of shim packs.
The ratings shown on the tables are based on fully bedded and conditioned brake pads with nominal friction coefficient μ = 0.4.
Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads.
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
VMS392	3	392	210
VMS356	3	356	197
VMS320	3	320	184
VMS283	3	283	167
VMS245	3	245	154
VMS206	3	206	138
VMS167	3	167	122

VMS2 SP

Caliper Type	Disc/Pad Air Gap mm	Braking Force kN	Hydraulic Pressure for Full Retraction bar
VMS2 SP250	3	250	180
VMS2 SP241	3	241	173
VMS2 SP229	3	229	165
VMS2 SP217	3	217	158
VMS2 SP205	3	205	150
VMS2 SP191	3	191	143
VMS2 SP180	3	180	136
VMS2 SP167	3	167	128
VMS2 SP154	3	154.5	121
VMS2 SP142	3	142	113
VMS2 SP129	3	129	106

Weight of Calipers (2 Modules) = 670kg
Volume displacement per 1mm stroke at both pads = 77ml
Braking Torque (kNm) = Braking Force (kN) x Effective Disc Radius (m)
Where Effective Disc Radius (m) = Actual Disc Radius - 0.155m