MU Disc Brake Caliper Range

The Twiflex MU series of disc brake calipers is the smallest in the Twiflex range and is primarily intended for light stopping and holding duties. Its design permits left or right-handed assembly.

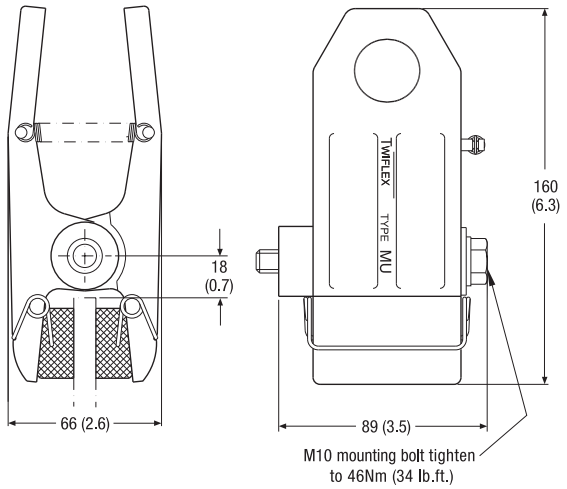
The caliper is suitable for use with a disc thickness of 8mm, however, with a revised thruster mounting arrangement, may be used with discs 12.7mm thick. Minimum disc diameter is 150mm. A range of brake discs is available from Twiflex (see Disc and Hub Assemblies).

Fixing bolt to be supplied by the customer.

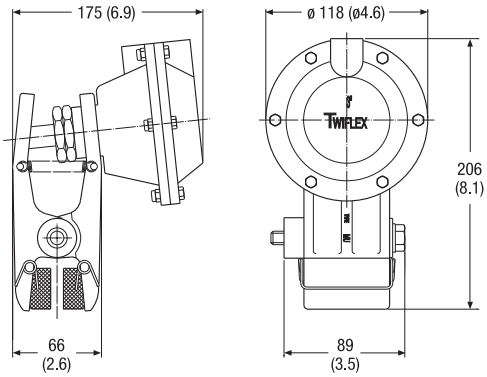
For pneumatic operation use dry, filtered and non-lubricated compressed air. Pneumatic brakes require a control valve, operated either manually or by pneumatic or electrical signal.

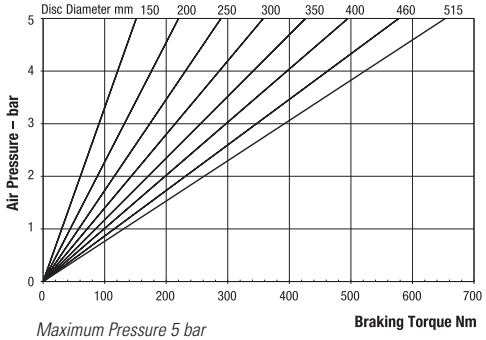
The ratings shown on the graphs are based on fully bedded in and conditioned brake pads with a nominal friction coefficient μ = 0.4. Twiflex disc brakes must be used with Twiflex asbestos free brake pads.

Effective disc radius = actual radius (m) – 0.02m.



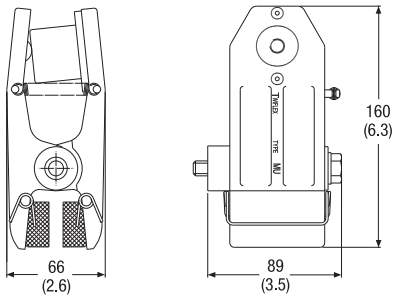
MU3 Pneumatically Applied – Spring Released

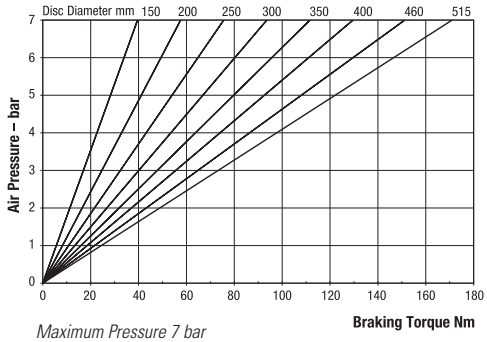




Maximum Pressure 5 bar
Maximum Braking Force = 2.75kN@ 5 bar
Weight of caliper and thruster - 1.9kg
Weight of thruster only – 1.15kg
Volume displacement of thruster at 13mm stroke = 46ml

MUP Pneumatically Applied – Spring Released

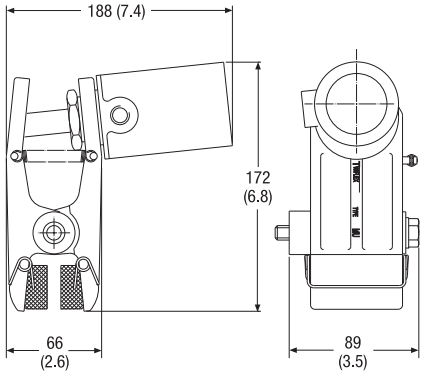


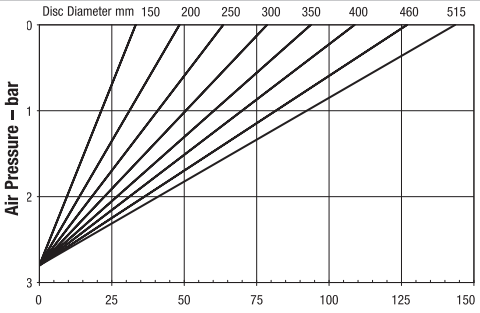


Maximum Pressure 7 bar
Maximum Braking Force = 0.72kN@ 7 bar
Weight of caliper and thruster - 0.8kg
Weight of thruster only – 0.05kg
Volume displacement of thruster at 6mm stroke = 4ml

Retraction pressures where shown are calculated and may vary depending on spring tolerance.

MUS2 Spring Applied – Pneumatically Released

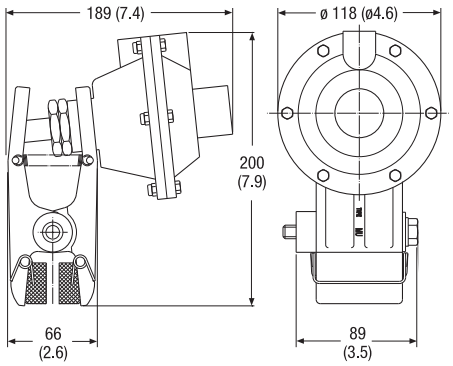


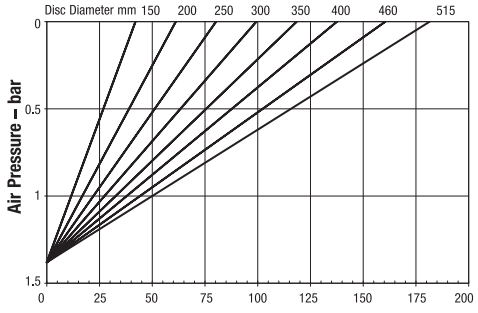


Maximum Pressure = 7 bar
Minimum Pressure for full retraction = 4.3 bar
Maximum Braking Force = 0.6kN

Weight of caliper and thruster – 1.36kg
Weight of thruster only – 0.61kg
Volume displacement of thruster at full retraction = 20ml

MUS3 Spring Applied – Pneumatically Released

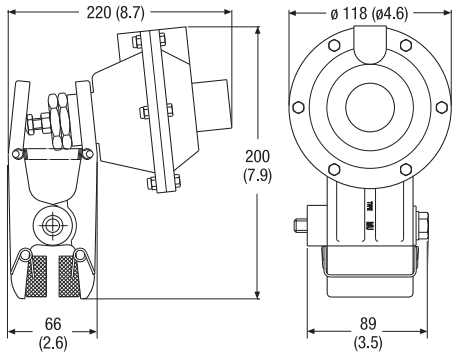


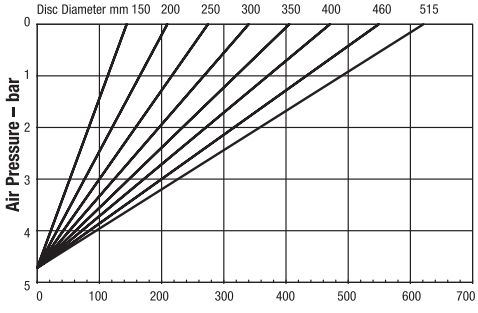


Maximum Pressure = 7 bar
Minimum Pressure for full retraction = 1.75 bar
Maximum Braking Force = 0.76kN

Weight of caliper and thruster – 2.2kg
Weight of thruster only – 1.45kg
Volume displacement of thruster at full retraction = 46ml

MUS4 Spring Applied – Pneumatically Released

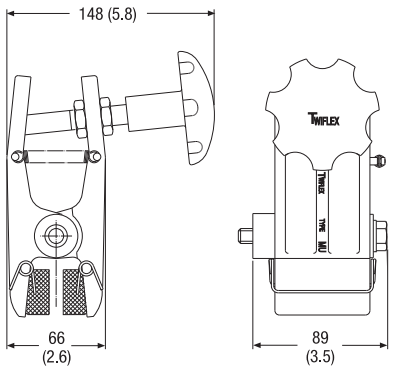


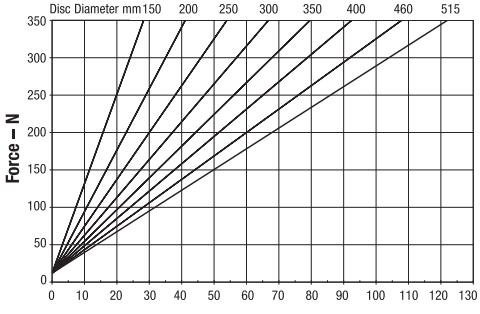


Maximum Pressure = 7 bar
Minimum Pressure for full retraction = 6.2bar
Maximum Braking Force = 2.6kN

Weight of caliper and thruster – 2.24kg
Weight of thruster only – 1.49kg
Volume displacement of thruster at full retraction = 46ml

MUH Mechanically Applied – Hand Operated





Weight of caliper and thruster – 1.9kg
Weight of hand wheel assembly only – 1.15kg
Maximum Braking Force = 0.51kN

Retraction pressures where shown are calculated and may vary depending on spring tolerance.