

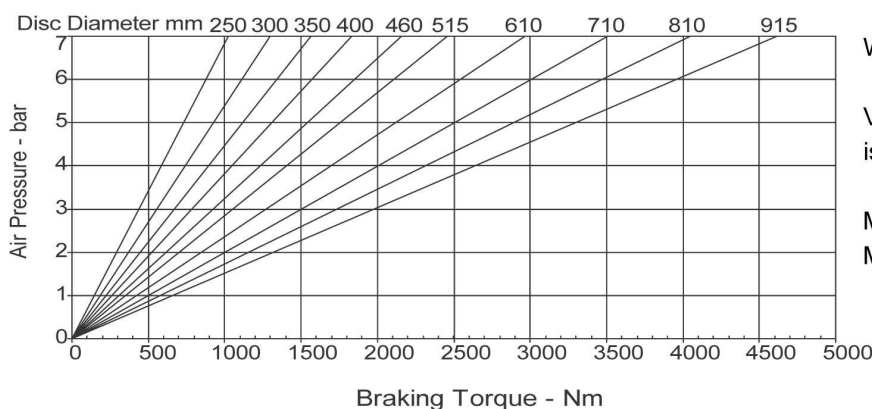
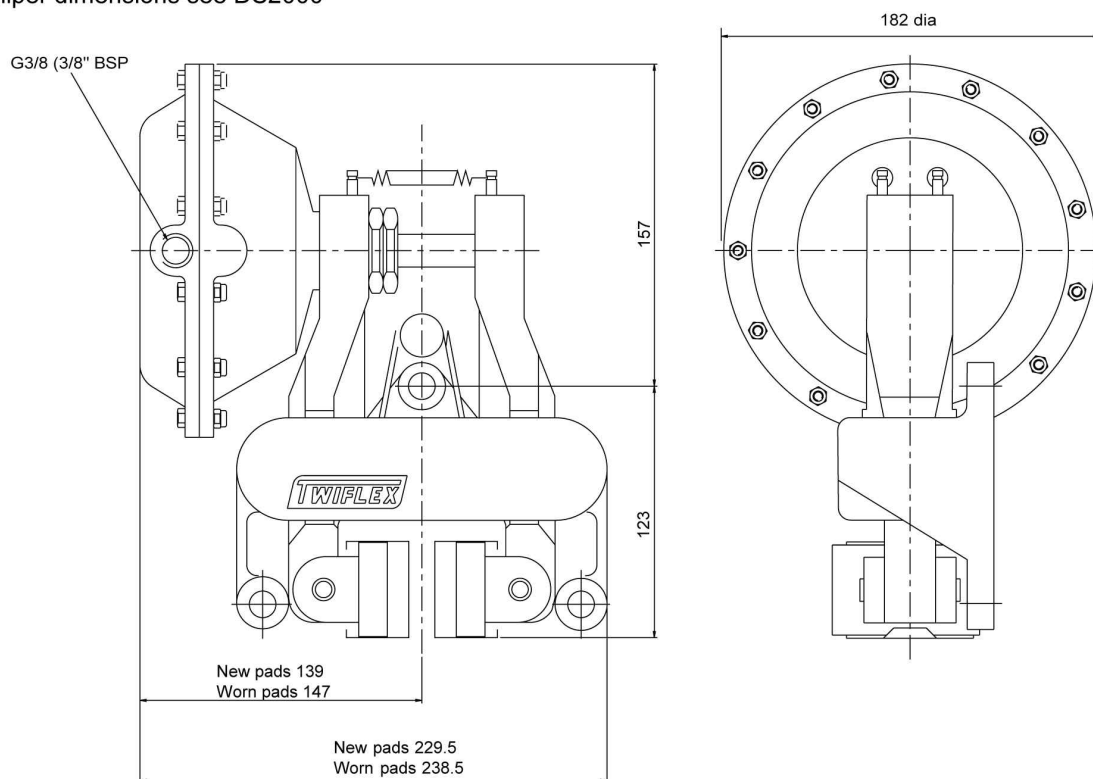


## MRB Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal dimensions given

For caliper dimensions see DS2000

**DS2002**



Weight (caliper and thruster) - 8.56kg  
(thruster only) - 2.06kg  
Volume displacement of thruster at full stroke  
is 426ml.

Maximum Pressure 7 bar  
Maximum Braking Force = 10.8kN @ 7 bar

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

For bedding-in and conditioning procedures see Publication M1060.

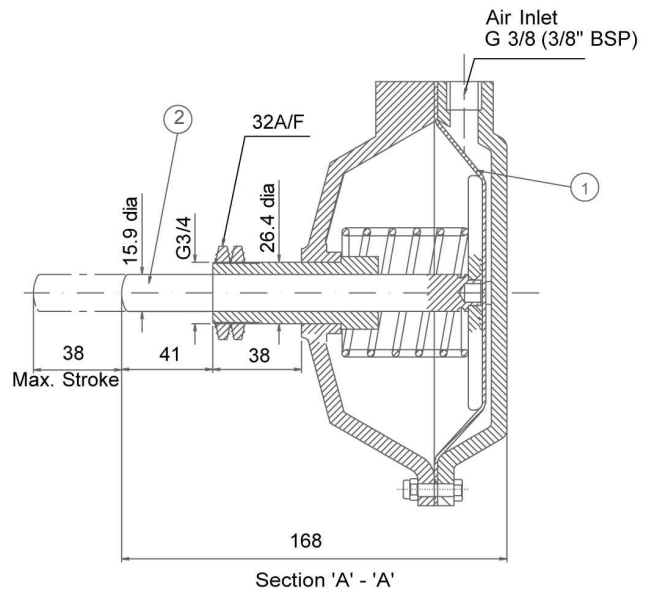
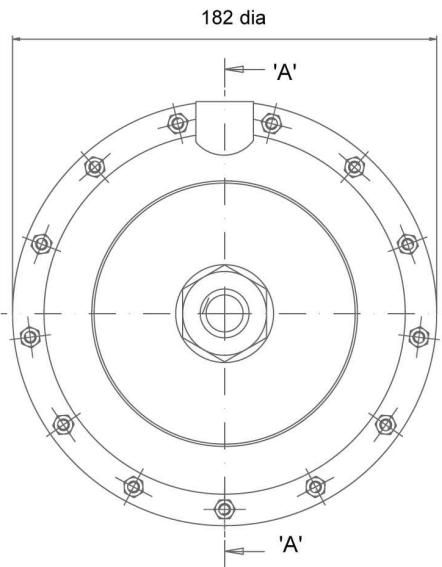
Braking Force is defined as the Tangential Force acting on the brake disc at the Effective Disc Radius.

Braking Torque (Nm) = Braking Force (N) x Effective Disc Radius (m) where Effective Disc Radius = Actual Disc Radius - 0.03

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads. The use of any other brake pads will invalidate the warranty. Twiflex Limited reserves the right to modify or change the design without prior notice.



## MRB Disc Brake Caliper - Pneumatically Applied, Spring Released



This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up to 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electric signal.

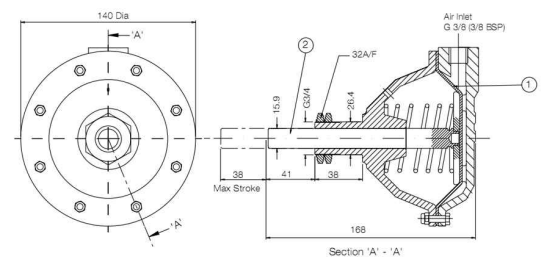
Should it become necessary to replace a diaphragm, ensure air supply is disconnected, remove the M5 bolts and the rear cap of the thruster. Remove the worn diaphragm; clean-up the contacting surfaces and re-assemble with the new diaphragm and bolts in position (Tightening Torque 5.7Nm).

### Thruster Part Number 7200829

Available Spares		
Item	Component	Part No.
1	Diaphragm Kit	7902803
2	Piston Rod Assembly	7200803

### Thruster Fitment

1. Offer thruster to caliper making sure that both lock nuts are removed before placing push rod through caliper arm.
2. Fit lock nuts over the push rod and locate it's end within the slot of the other arm.
3. Tighten one lock nut to 50-60 Nm then tighten the second nut against the first.

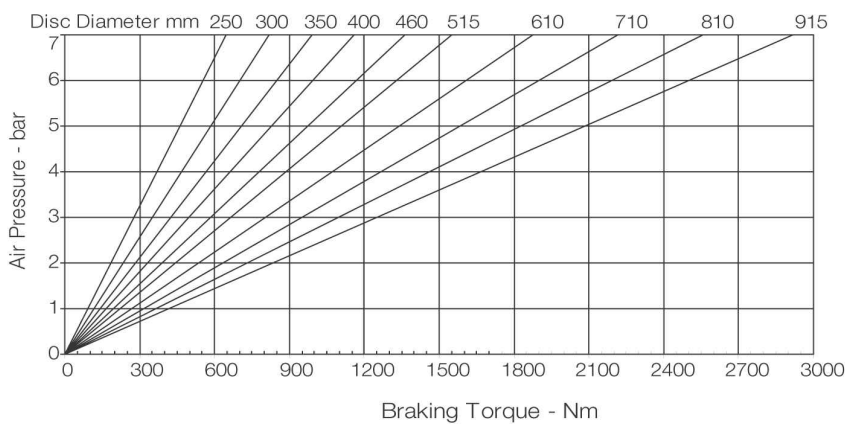
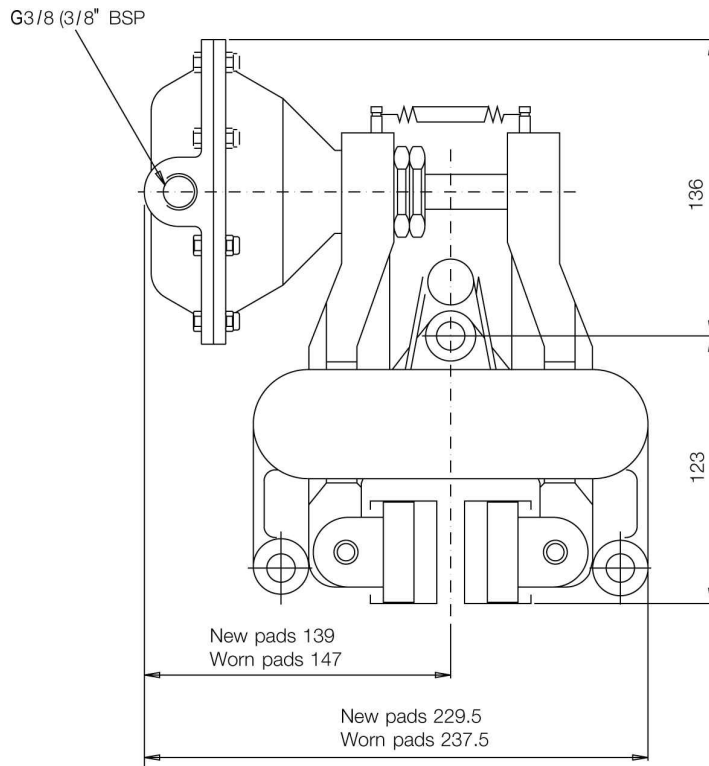




## MRA Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal dimensions given  
For caliper dimensions see DS2000

**DS2001**



Weight (caliper and thruster) - 7.82kg  
(thruster only) - 1.32kg  
Volume displacement of thruster at full stroke  
is 300ml.

**Maximum Pressure 7 bar**  
**Maximum Braking Force = 6.9kN @ 7 bar**

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

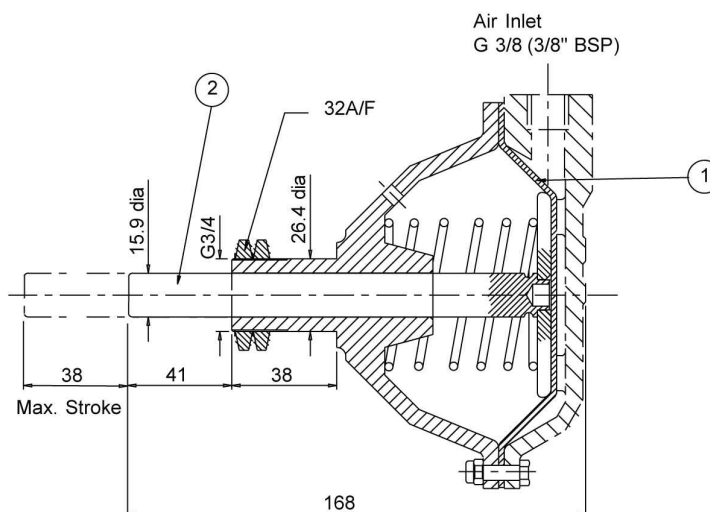
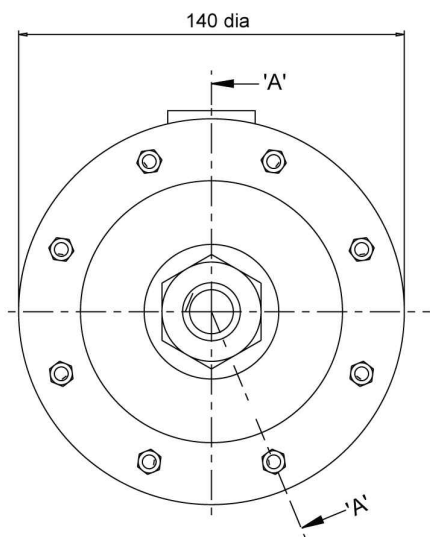
For bedding-in and conditioning procedures see Publication M1060.

Braking Force is defined as the Tangential Force acting on the brake disc at the Effective Disc Radius.  
Braking Torque (Nm) = Braking Force (N) x Effective Disc Radius (m) where Effective Disc Radius = Actual Disc Radius - 0.03

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads. The use of any other brake pads will invalidate the warranty. Twiflex Limited reserves the right to modify or change the design without prior notice.



## MRA Disc Brake Caliper - Pneumatically Applied, Spring Released



Section 'A' - 'A'

This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up to 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electric signal.

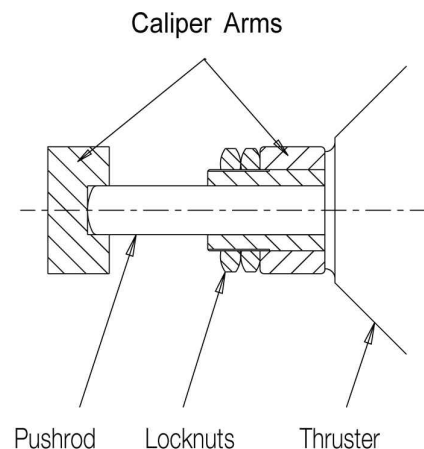
Should it become necessary to replace a diaphragm, ensure air supply is disconnected, remove the M5 bolts and the rear cap of the thruster. Remove the worn diaphragm; clean-up the contacting surfaces and re-assemble with the new diaphragm and bolts in position (Tightening Torque 5.7Nm).

### Thruster Part Number 7200056

Available Spares		
Item	Component	Part No.
1	Diaphragm Kit	7902801
2	Piston Rod Assembly	7200493

### Thruster Fitment

1. Offer thruster to caliper making sure that both lock nuts are removed before placing push rod through caliper arm.
2. Fit lock nuts over the push rod and locate it's end within the slot of the other arm.
3. Tighten one lock nut to 50-60 Nm then tighten the second nut against the first.





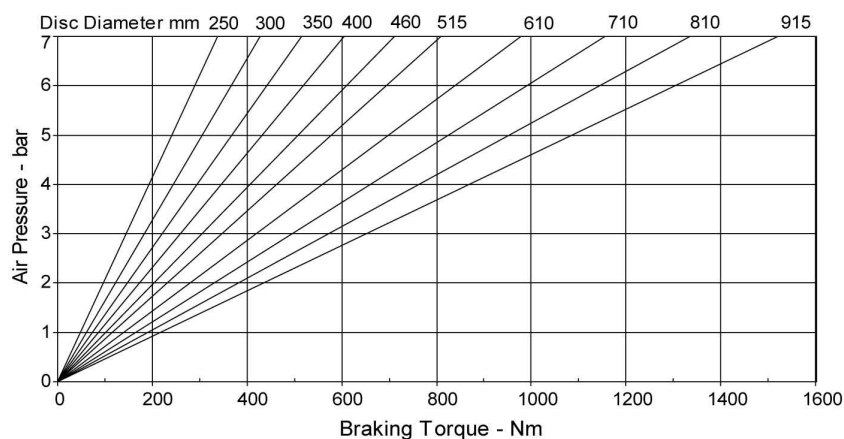
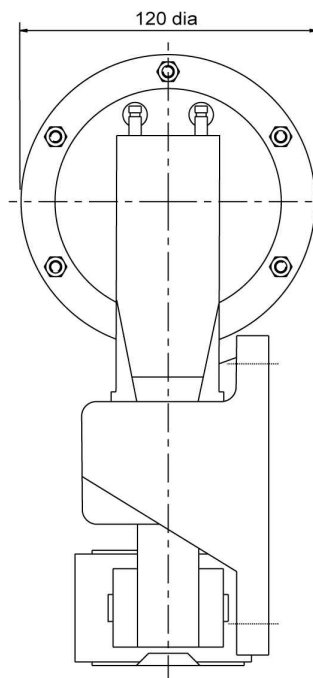
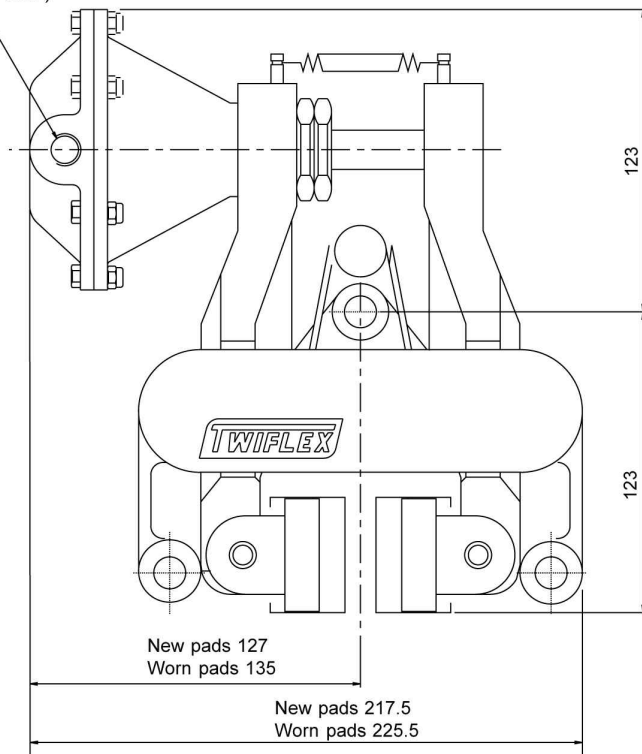


## MRD Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal dimensions are given  
For caliper dimensions see DS2000

**DS2003**

G1/4 (1/4" BSP)



Weight (caliper and thruster) - 7.65kg  
(thruster only) - 1.15kg  
Volume displacement of thruster at full stroke is 150ml.

**Maximum pressure 7 bar**  
**Maximum Braking Force - 3.6kN @7bar**

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

For bedding-in and conditioning procedures see Publication M1060.

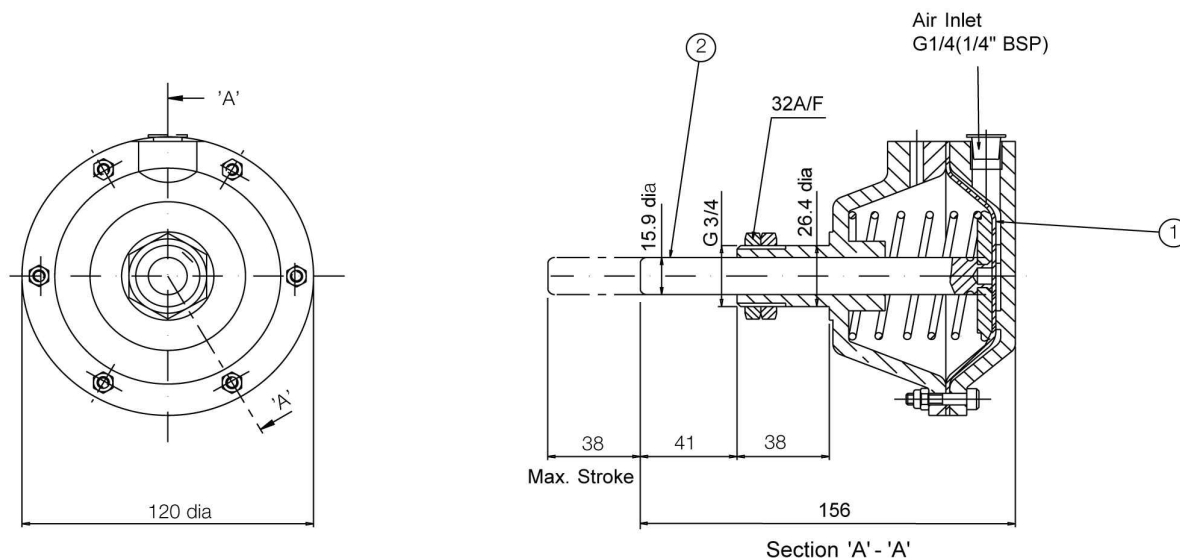
Braking Force is defined as the Tangential Force acting on the brake disc at the Effective Disc Radius.

Braking Torque (Nm) = Braking Force (N) x Effective Disc Radius (m) where Effective Disc Radius = Actual Disc Radius - 0.03.

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads. The use of any other brake pads will invalidate the warranty. Twiflex Limited reserves the right to modify or change the design without prior notice.



## MRD Disc Brake Caliper - Pneumatically Applied, Spring Released



This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up to 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electrical signal.

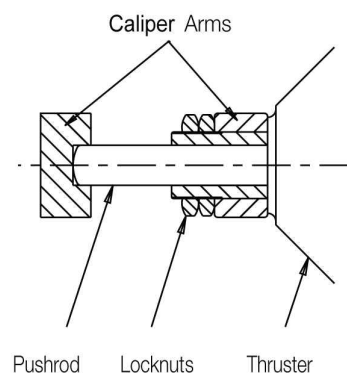
Should it become necessary to replace a diaphragm, ensure air supply is disconnected, remove the M5 bolts and the rear cap of the thruster. Remove the worn diaphragm; clean-up the contacting surfaces and re-assemble with the new diaphragm and bolts in position. (Tightening Torque 5.7Nm)

### Thruster Part Number 7200863

Available Spares		
Item	Component	Part No.
1	Diaphragm Kit	7902799
2	Piston Rod Assembly	7200802

### Thruster Fitment

1. Offer thruster to caliper making sure that both lock nuts are removed before placing push rod through caliper arm.
2. Fit lock nuts over the push rod and locate its end within the slot of the other arm.
3. Tighten one lock nut to 50-60 Nm then tighten the second nut against the first.

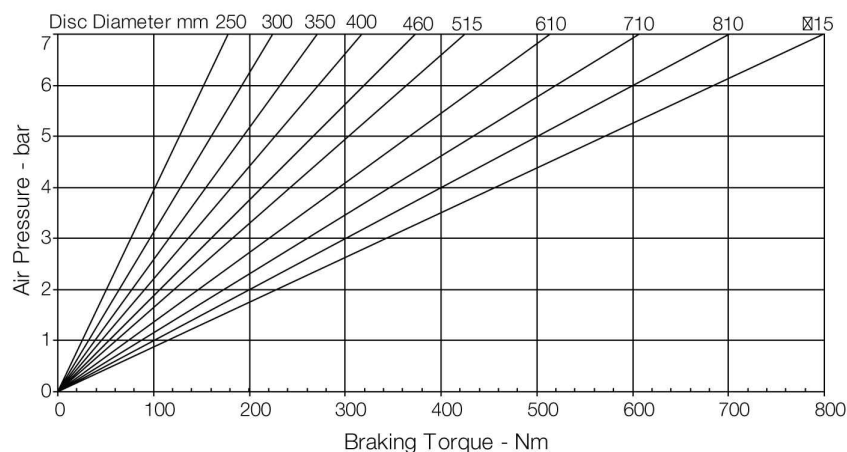
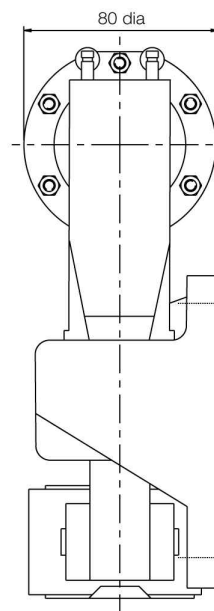
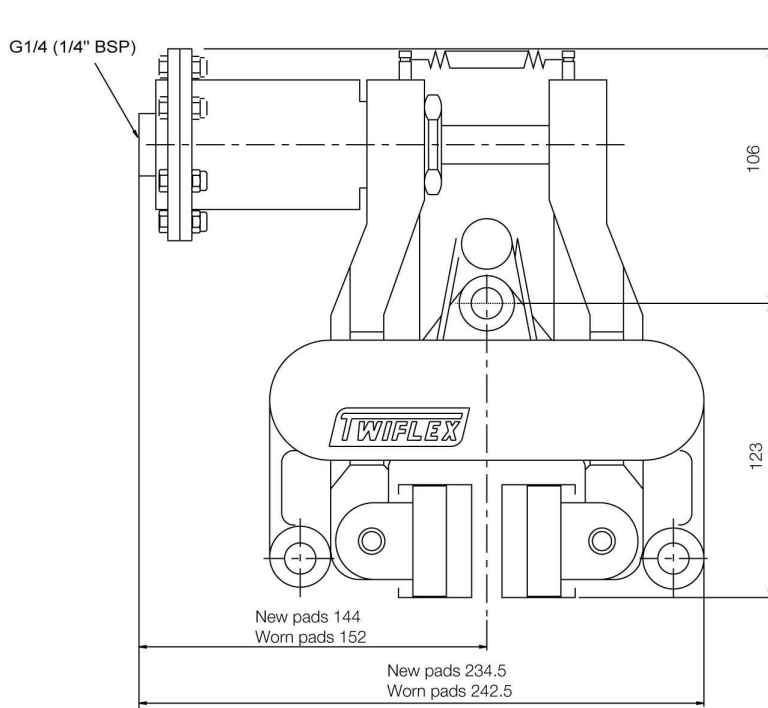




## MRG Disc Brake Caliper - Pneumatically Applied, Spring Released

**DS2005**

Nominal dimensions are given  
For caliper dimensions see DS2000



Weight (caliper and thruster) - 6.8kg  
(thruster only) - 0.3kg  
Volume displacement of thruster at full stroke is 64ml.

**Maximum pressure 7 bar**  
**Maximum Braking Force - 1.9kN @ 7bar**

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

For bedding-in and conditioning procedures see Publication M1060.

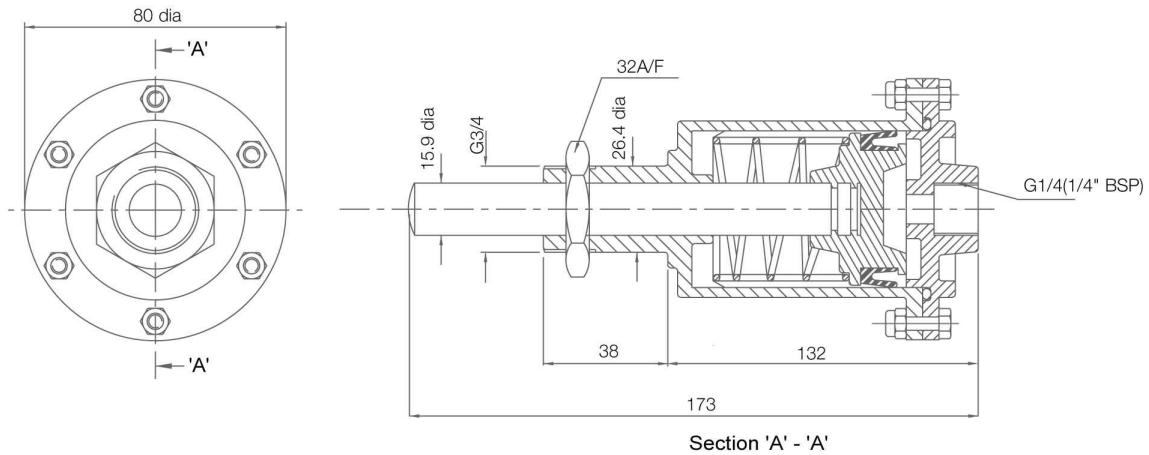
Braking Force is defined as the Tangential Force acting on the brake disc at the Effective Disc Radius.

Braking Torque (Nm) = Braking Force (N) x Effective Disc Radius (m) where Effective Disc Radius = Actual Disc Radius - 0.03.

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads. The use of any other brake pads will invalidate the warranty. Twiflex Limited reserves the right to modify or change the design without prior notice.



## MRG Disc Brake Caliper - Pneumatically Applied, Spring Released

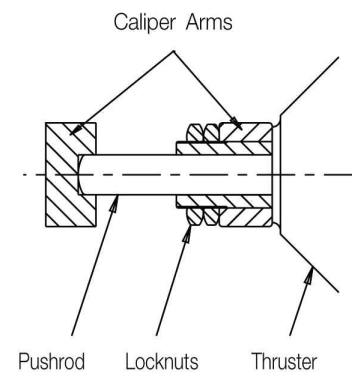


### Thruster Part Number 7200434

This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up to 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electrical signal.

#### Thruster Fitment

1. Offer thruster to caliper making sure that the lock nut is removed before placing push rod through caliper arm.
2. Fit lock nut over the push rod and locate it's end within the slot of the other arm.
3. Tighten the lock nut against the arm to 50-60 Nm.





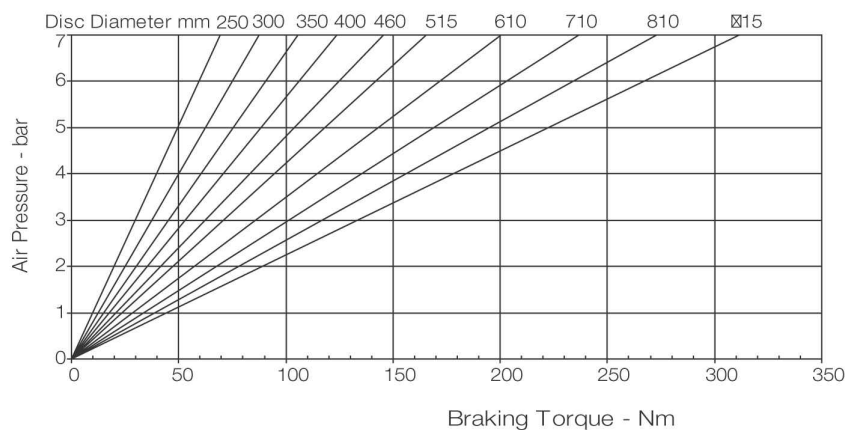
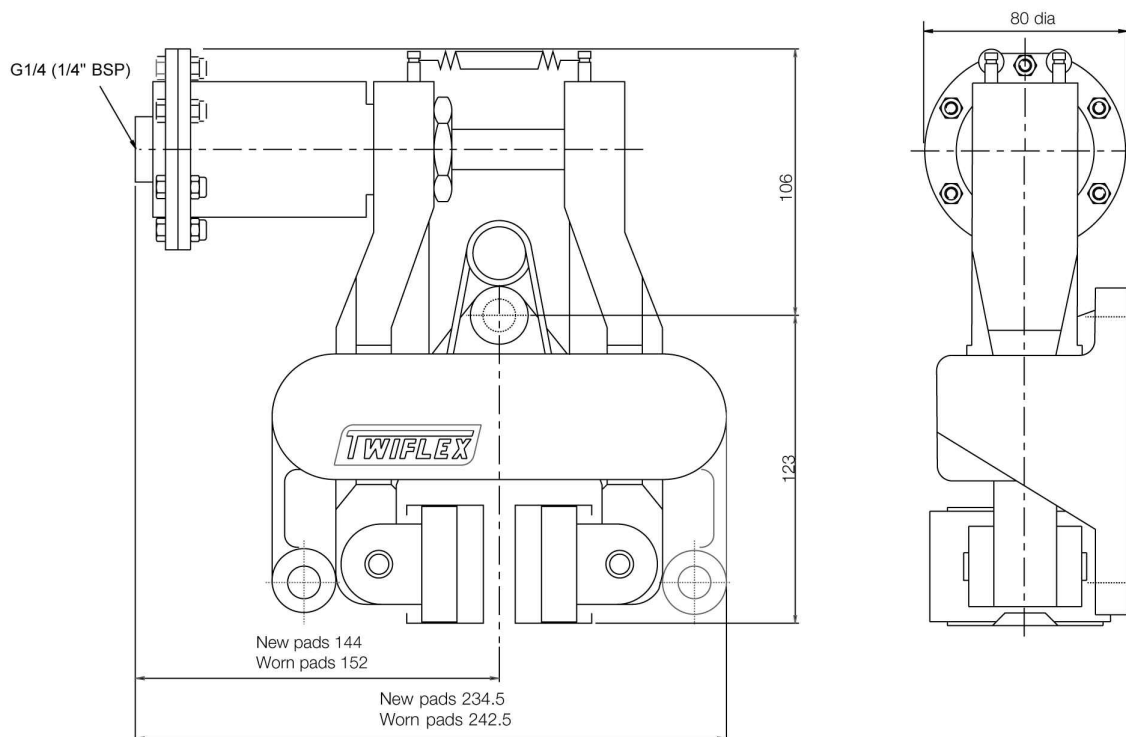


## MRE Disc Brake Caliper - Pneumatically Applied, Spring Released

**DS2004**

Nominal dimensions are given

For caliper dimensions see DS2000



Weight (caliper and thruster) - 6.84kg  
(thruster only) - 0.34kg

Volume displacement of thruster at full stroke is 25ml.

**Maximum pressure 7 bar**

**Maximum Braking Force - 0.74kN @7bar**

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

For bedding-in and conditioning procedures see Publication M1060.

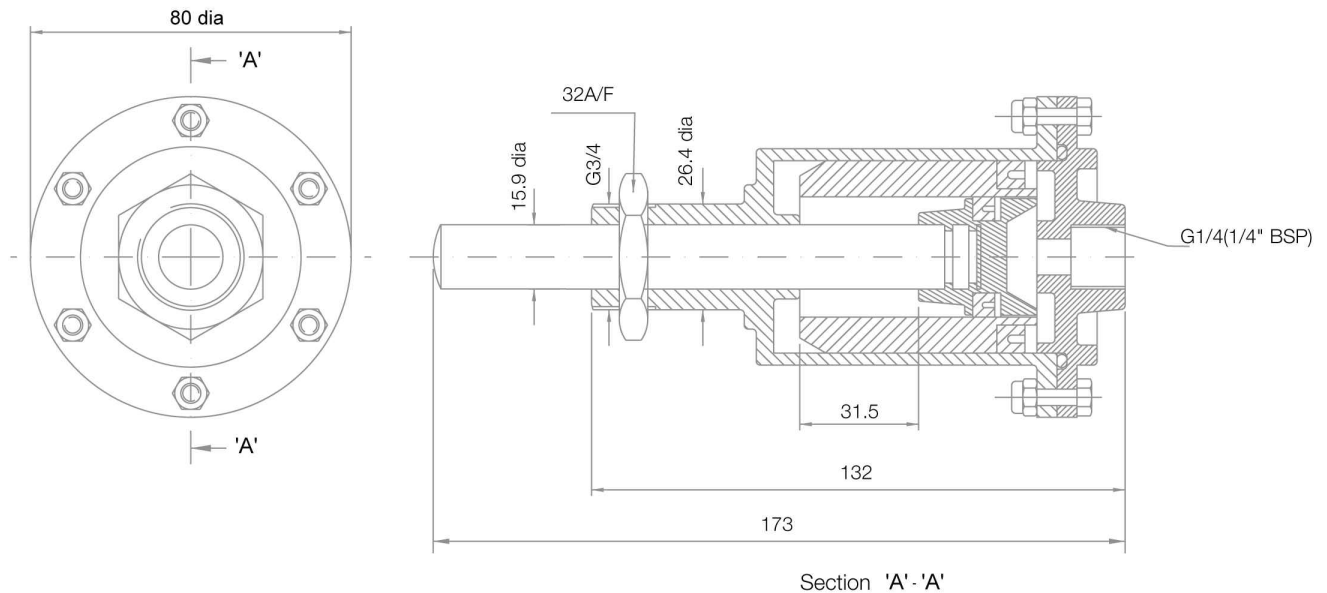
Braking Force is defined as the Tangential Force acting on the brake disc at the Effective Disc Radius.

Braking Torque (Nm) = Braking Force (N) x Effective Disc Radius (m) where Effective Disc Radius = Actual Disc Radius - 0.03.

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads. The use of any other brake pads will invalidate the warranty. Twiflex Limited reserves the right to modify or change the design without prior notice.



## MRE Disc Brake Caliper - Pneumatically Applied, Spring Released



### Thruster Part Number 7200478

This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up to 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electrical signal.

#### Thruster Fitment

1. Offer thruster to caliper making sure that both lock nuts are removed before placing push rod through caliper arm.
2. Fit lock nuts over the push rod and locate its end within the slot of the other arm.
3. Tighten one lock nut to 50-60 Nm.

