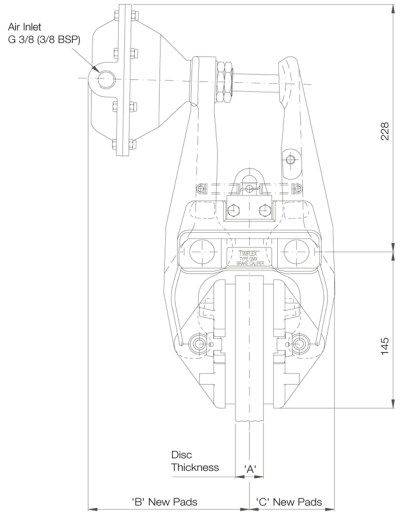
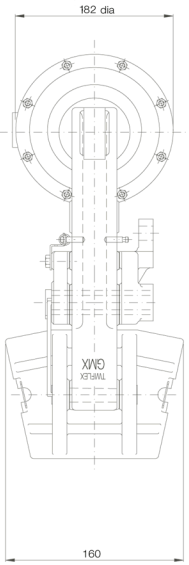
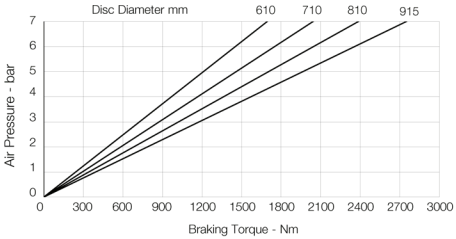
DS2602

GMXB Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal Dimensions given
For caliper dimensions see DS2600







	Dimensions in mm		
Caliper	**A**	**B**	**C**
GMX 25	25.4	148.5	76
GMX 30	30	150	77.5
GMX 40	40	153.5	81

Weight (caliper and thruster) - 11.28kg
(thruster only) - 2.06kg
Volume displacement of thruster at full stroke is 426ml.
Maximum pressure 7 bar
Maximum Braking Force - 11kN @ 7 bar

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

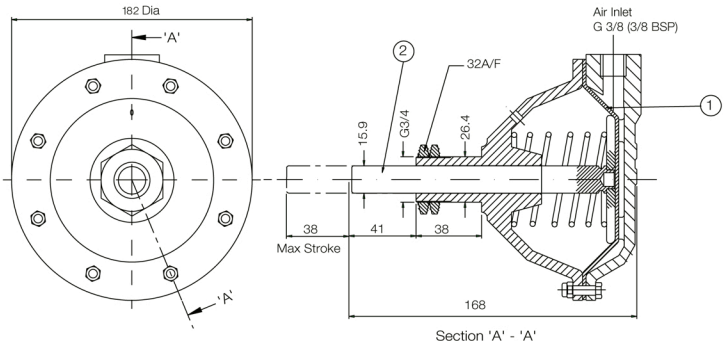
For bedding-in and conditioning procedures see Publication M1060.

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 - 0.06.

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

GMXB Disc Brake Caliper - Pneumatically Applied, Spring Released

Twiflex Limited



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

Available Spares	
Item	**Component**
1	Diaphragm Kit
2	Piston Rod Assembly

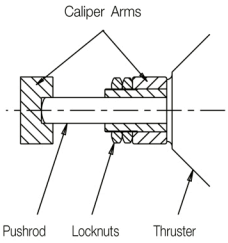
Should it become necessary to replace a diaphragm, ensure air supply is disconnected, remove the M5 botls and the rear cap of the thruster. Remove the worn diaphragm; clean-up the contacting surfaces and re-assemble with the new diaphragm and botls in position. (Tightening Torque 5.7Nm)

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.

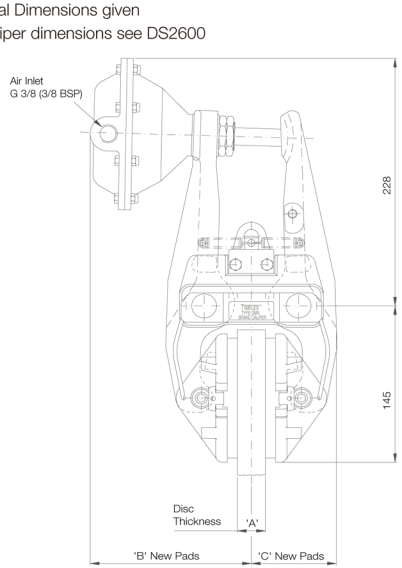


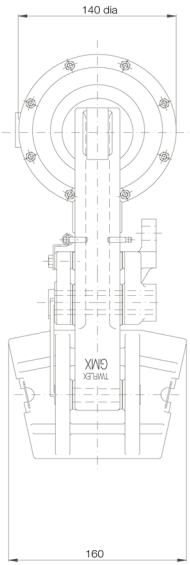
DS2601

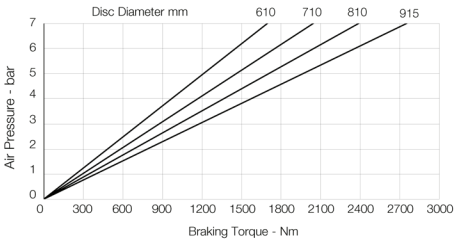
GMXA Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal Dimensions given
For caliper dimensions see DS2600

Twiflex Limited







	Dimensions in mm		
Caliper	**A**	**B**	**C**
GMX 25	25.4	148.5	76
GMX 30	30	150	77.5
GMX 40	40	153.5	81

Weight (caliper and thruster) - 10.54kg
(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 μ=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 - 0.06.

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

GMXA Disc Brake Caliper - Pneumatically Applied, Spring Released

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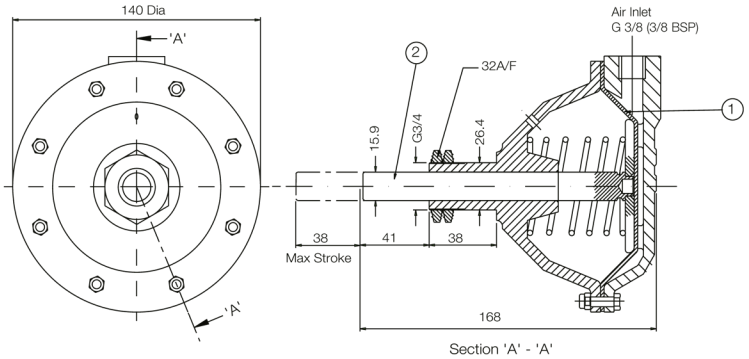


This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up ot 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electrical signal.

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

Thruster Part Number 7200056

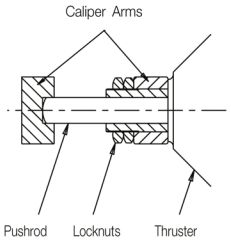
Available Spares		
Item	**Component**	**Part No.**
1	Diaphragm Kit	7902801
2	Piston Rod Assembly	7200493

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.



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GMXD Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal Dimensions given
For caliper dimensions see DS2600

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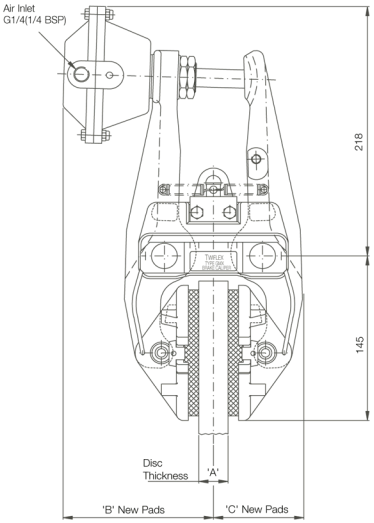

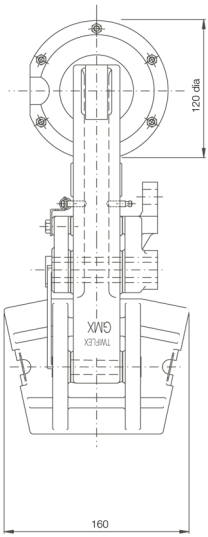

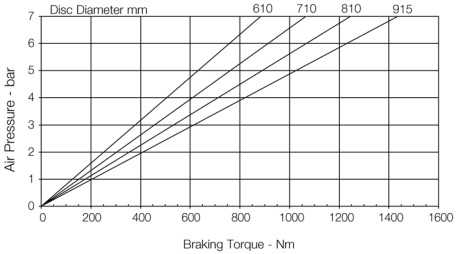

	Dimensions in mm		
Caliper	**A**	**B**	**C**
GMXD 25	25	136.5	76
GMXD 30	30	138	77.5
GMXD 40	40	141.5	81

Weight (caliper and thruster) - 10.37kg
(thruster only) - 1.15kg
Volume displacement of thruster at full stroke is 150ml.
Maximum pressure 7 bar
Maximum Braking Force - 3.6kN @ 7 bar

The ratings shown on the above graph are based on fully bedded and conditioned brake pads with nominal friction coefficient μ=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 - 0.06.

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

GMXD Disc Brake Caliper - Pneumatically Applied, Spring Released

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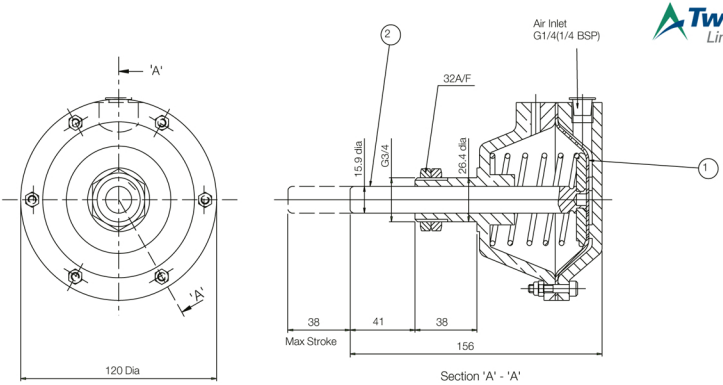


This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up ot 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electrical signal.

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

Thruster Part Number 7200863

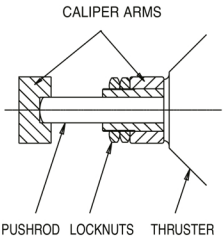
Available Spares		
Item	**Component**	**Part No.**
1	Diaphragm Kit	7902799
2	Piston Rod Assembly	7200802

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 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.

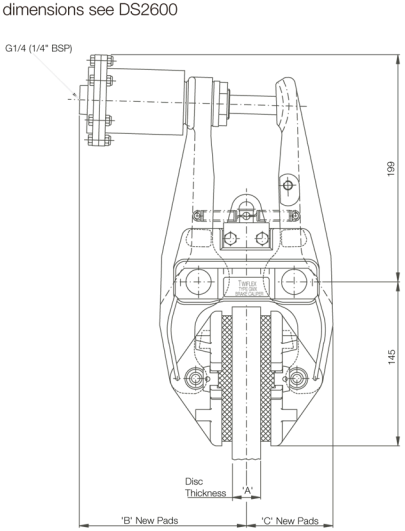


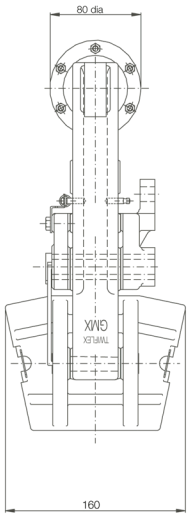
DS2604

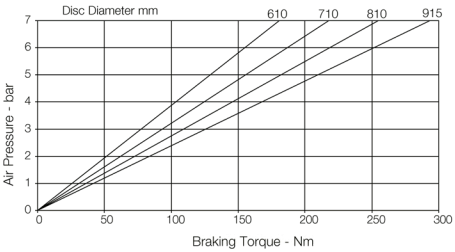
GMXE Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal Dimensions given
For caliper dimensions see DS2600

Twiflex Limited







	Dimensions in mm		
Caliper	**A**	**B**	**C**
GMXE 25	25	153.5	76
GMXE 30	30	155	77.5
GMXE 40	40	158.5	81

Weight (caliper and thruster) - 9.56kg
(thruster only) - 0.34kg
Volume displacement of thruster at full stroke is 25ml.
Maximum pressure 7 bar
Maximum Braking Force - 0.74kN @ 7 bar

The ratings shown on the above graph are based on fully bedded and conditioned brake pads with nominal friction coefficient μ=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 - 0.06.

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

GMXE Disc Brake Caliper - Pneumatically Applied, Spring Released

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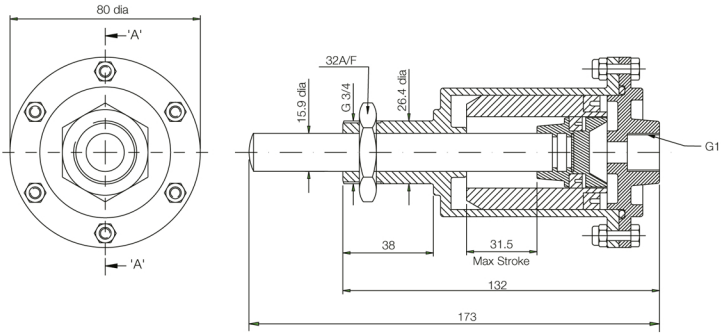


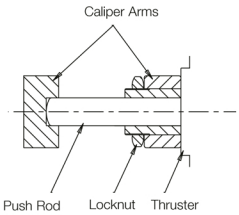
Section 'A' - 'A'

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 pneumat 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 the lock nut over the push rod and locate it's end within the slot of the other arm.
3. Tighten the lock nut to 50-60 Nm.



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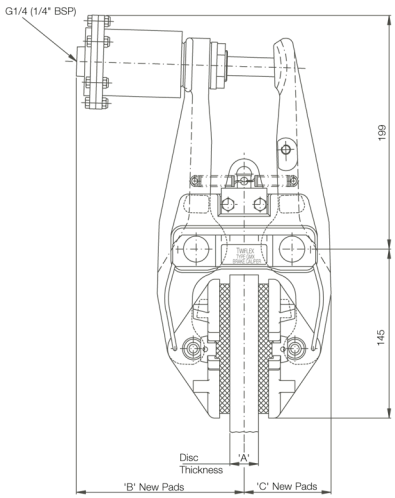
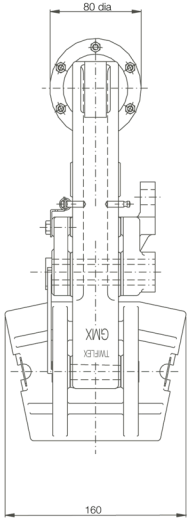
DS2605

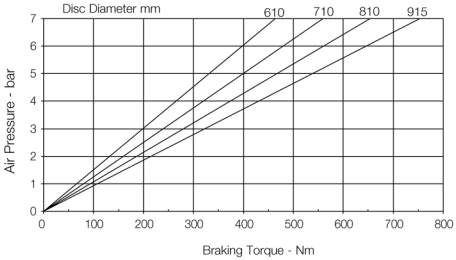
GMXG Disc Brake Caliper - Pneumatically Applied, Spring Released

Nominal Dimensions given
For caliper dimensions see DS2600

Twiflex Limited







	Dimensions in mm		
Caliper	**A**	**B**	**C**
GMXG 25	25	153.5	76
GMXG 30	30	155	77.5
GMXG 40	40	158.5	81

Weight (caliper and thruster) - 9.52kg
(thruster only) - 0.3kg
Volume displacement of thruster at full stroke is 64ml.
Maximum pressure 7 bar
Maximum Braking Force - 1.9kN @ 7 bar

The ratings shown on the above graph are based on fully bedded and conditioned brake pads with nominal friction coefficient μ=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 - 0.06.

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

GMXG Disc Brake Caliper - Pneumatically Applied, Spring Released

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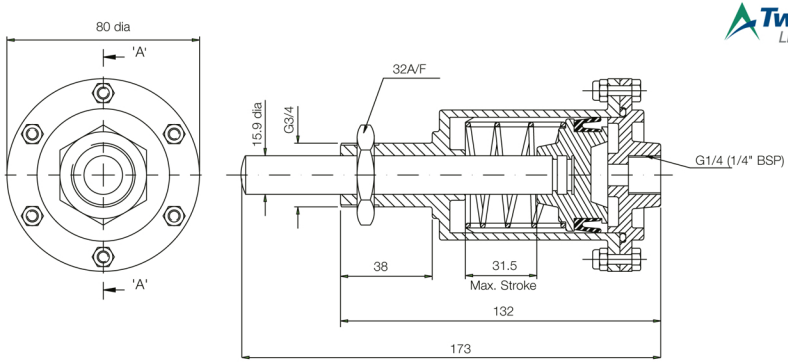


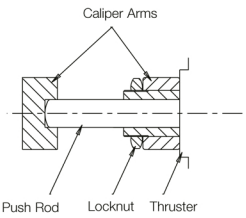
Section 'A' - 'A'

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 the lock nut over the push rod and locate it's end within the slot of the other arm.
3. Tighten the lock nut to 50-60 Nm.



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GMX 25, 30 and 40 Disc Brake Caliper

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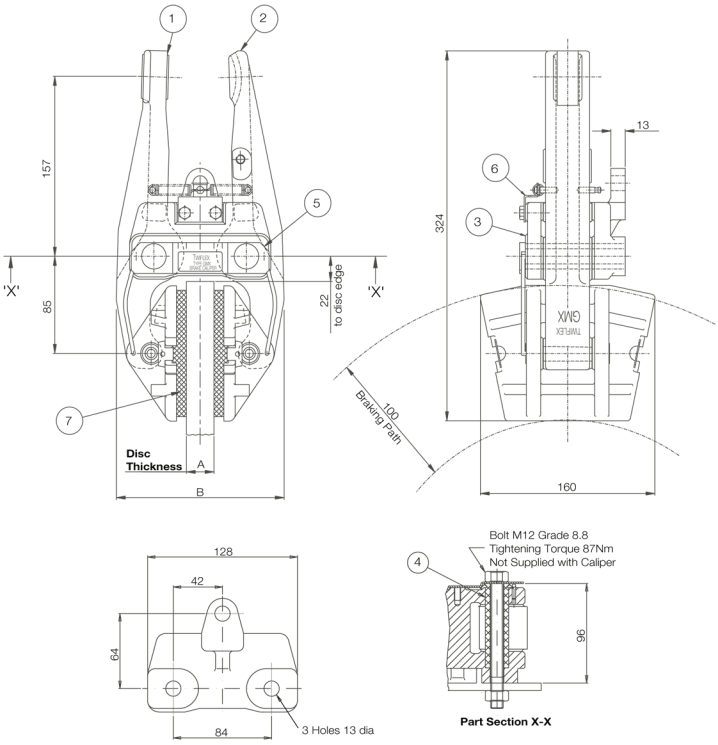

		Dimensions in mm	
Caliper	Part No.	A	B
GMX25	6780901	25.4	152
GMX30	6781251	30	155
GMX40	6781246	40	162

Weight of caliper	-9.22kg (2 pads)
Total pad area	-133cm^2 (2 pads)
Pad material	-Moulded asbestos-free high friction material

The standard GMX series brake caliper, is supplied as a right-hand assembly. (as shown above)
Left-hand assembly can be supplied on request.

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

GMX 25, 30 and 40 Disc Brake Caliper

General Description

The Twiflex GMX25, GMX30 & GMX40 disc brake calipers are used with brake discs of 25.4, 30 & 40mm thickness respectively. They may be used with any of the series of actuators listed below. Normally one or two units will be used per disc but the number may be increased, depending on disc size

Thruster	Description	Data Sheet	Maximum Braking Force
A	Pneumatically applied spring released	2601	6.9
B	Pneumatically applied spring released	2602	11
D	Pneumatically applied spring released	2603	3.6
E	Pneumatically applied spring released	2604	0.74
G	Pneumatically applied spring released	2605	1.9
H	Mechanically applied hand operated	2606	8.3
K	Spring applied pneumatically released	2607	2.15, 4.3 and 6.4
L	Spring applied pneumatically released	2608	2.15, 4.3 and 6.4
XS	Spring applied pneumatically released	2609	6.8, 11.2 and 14.3
XSH	Spring applied hyraulically released	2610	6.8, 11.2 and 14.3
W	Mechanically applied hand operated	2611	2.68
EMX	Spring applied electrically released	2612	6.1

The brake units can be positioned at any angle around the periphery of the disc, but ideally they should be mounted horizontally (in 3 or 9 o'clock positions) in relation to the disc.
If a caliper is mounted at an angle of more than about 10% from the horizontal it should be fitted with an inclined mounting kit or equalising link. This applies also to calipers used on vertical shaft installations.

Discs:

A range of standard discs of 25.4mm thickness are available from Twiflex see Data Sheet DS5002. Minimum disc diameter for the GMX caliper is 610mm

Controllers:

Standard Twiflex Controllers are available for single or multi-caliper installations for use with electric, pneumatic and hydraulic signalling systems.

Pad replacement in air applied calipers:

To replace the pads, secure the installation to ensure safety.
Straighten tabs at each end of the brake pads, and remove worn pads. Clean disc and the pad recesses in the shoes with a suitable cleaning agent such as white spirit. Fit new pads, and bend tabs through 90 deg. so as to hold pads in position, the pad should be free to move sideways.

Pad replacement in spring applied calipers:

To replace the pads, secure the installation to ensure safety.
Slacken the two locknuts holding the thruster, and screw back the push rod to create space between pad and disc.
Straighten tabs at each end of the brake pads, and remove worn pads. Clean disc and the pad recesses in the shoes with a suitable cleaning agent such as white spirit. Fit new pads, and bend tabs through 90 deg. so as to hold pads in position, the pad should be free to move sideways.
Refit the thruster as described in the relevant data sheet

		Available Spares		
	Caliper	GMX25	GMX30	GMX40
Item	Component	Part No.	Part No.	Part No.
1	Arm Assembly -Thruster	6600182	660238	6600239
2	Arm Assembly -Slotted	6600181	6600241	6600242
3	Caliper Base	8030026	8030026	8030026
4	Pivot Pin	7952383	7952383	7952383
5	Retaining Plate	7951480	7951480	7951480
6	Spring Anchor Plate	7951501	7951501	7951501
7	Pad Assembly (2 Required)	7080139-Z	7080139-Z	7080139-Z
	Spring Kit	7903113	7903113	7903113
	Inclined Mounting Kit	7903069	7903069	7903069

For bedding-in and conditioning procedures see publication M1060
Health and Safety data sheet reference to DS 0500