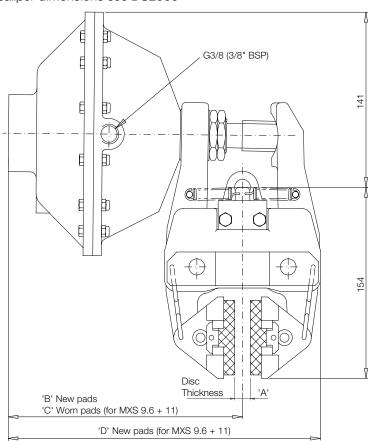
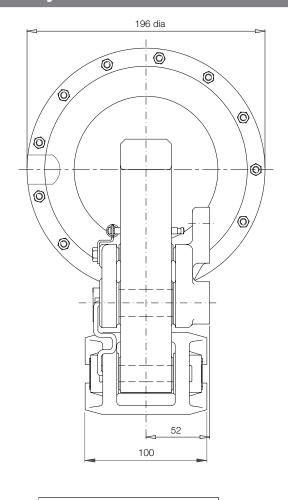




MXS Disc Brake Caliper - Spring Applied, Pneumatically Released

Nominal dimensions given For caliper dimensions see DS2500





O Disc Diameter	mm 300 350	0 400 460 515	610	710 81	0 915
1					
- par					
Arrhessure - bar					
5 0 500	1000 1500) 2000 250	3000 3	3500 400	00 4500 5000
0 300	1000 1300		rque - Nm (SM		4300 3000

Dimensions in mm				
Α	В	С	D	
13	204.5	212.5	269.5	
25	209	217	276	
30	204.5	212.5	275.5	
40	209	217	284	
	13 25 30	A B 13 204.5 25 209 30 204.5	A B C 13 204.5 212.5 25 209 217 30 204.5 212.5	

Weight MXS 9.6 caliper and thruster - 12.1kg MXS 7.5 caliper and thruster - 11.9kg MXS 4.6 caliper and thruster - 11.5kg Caliper only - 7.0kg

Volume displacement of thruster at full Retraction is 1.19 I

Maximum pressure - 7 bar

	Thruster	Maximum Braking Force - kN	Minimum Pressure for Full Retraction - bar
,	XS 9.6	14.3	6.4
	XS 7.5	11.2	5.5
	XS 4.6	6.8	3.1

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

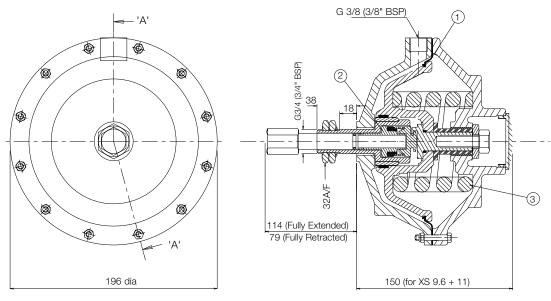
For bedding-in and conditioning procedures see Publication M1060.

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 - 0.033.

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.

MXS Disc Brake Caliper - Spring Applied, Pneumatically Released



Section 'A' -'A'

AVAILABLE SPARES					
Item	Component	Part No.			
1	Diaphragm Kit	7902798			
2	Self Adjusting Repair Kit	7902982			
3	Spring Kit	7902800			

Thruster Part Number:

XS 9.6 7201222 XS 7.5 7201046 XS 4.6 7201076

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, Remove from caliper and ensure air supply is disconnected. Unscrew and remove push rod. 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 M5 bolts in position (Tightening Torque 5.7Nm).

Thruster fitment

- 1. Make sure the thruster rod is extended i.e. it is not pressurised.
- 2. Take hold of the thruster and turn the push rod via the hex portion clockwise until it stops rotating: so a 'clicking' can be heard from the ratchet. Do this by hand, do not apply heavy force to push the rod once it stops turning.
- 3. Offer thruster to caliper making sure that both lock nuts are removed before placing hex section of push rod through caliper arm.
- 4. Pull caliper arms apart so that the pads are hard against the disc.
- 5. Fit lock nuts to thruster body loosely and unwind push rod until the gap between the body and the arm is 6mm. Make sure that the hex section of the push rod is within the slot of the other arm.
- 6. Tighten first lock nut to 50 60Nm then tighten the second nut against the first.
- 7. Fit tension spring to arms.

