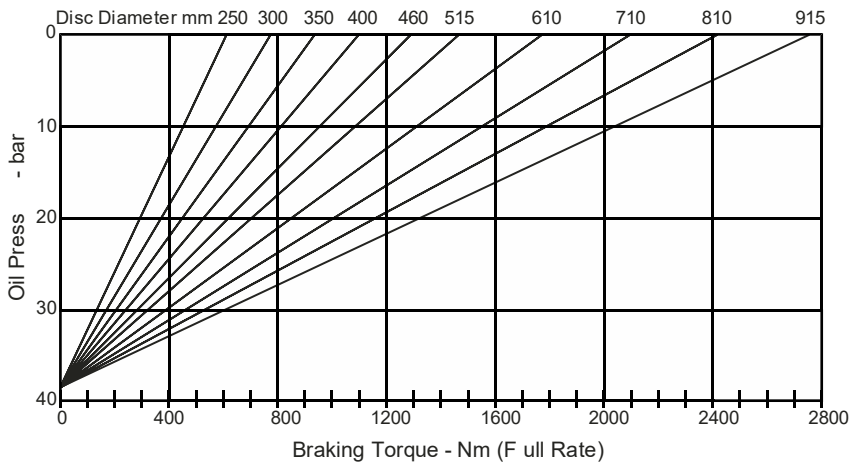
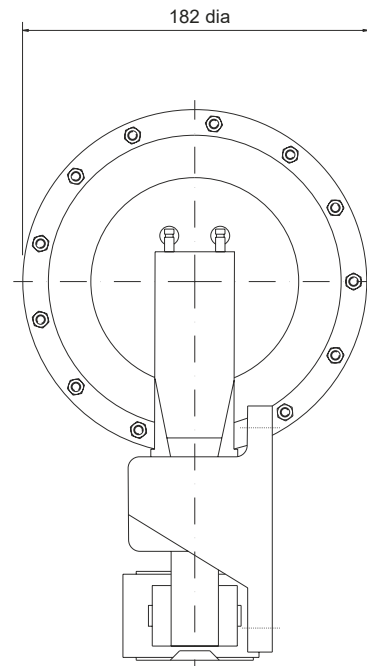
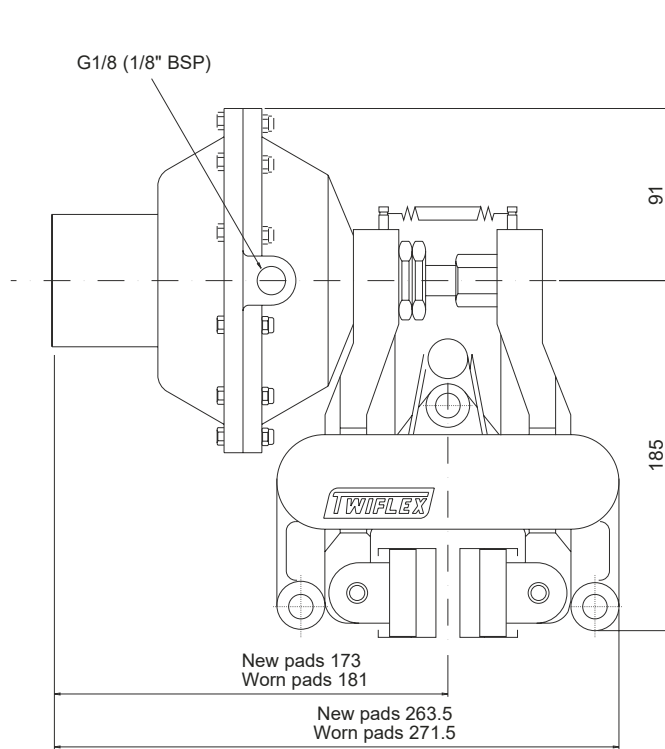


DS2008

MRL Disc Brake Caliper - Spring Applied, Hydraulically Released

Nominal dimensions given
For caliper dimensions see DS2000



Weight (caliper and thruster) - 10.5kg
(thruster only) - 4kg
Volume displacement of thruster at 4mm retraction is 5ml

Maximum working pressure 120 bar

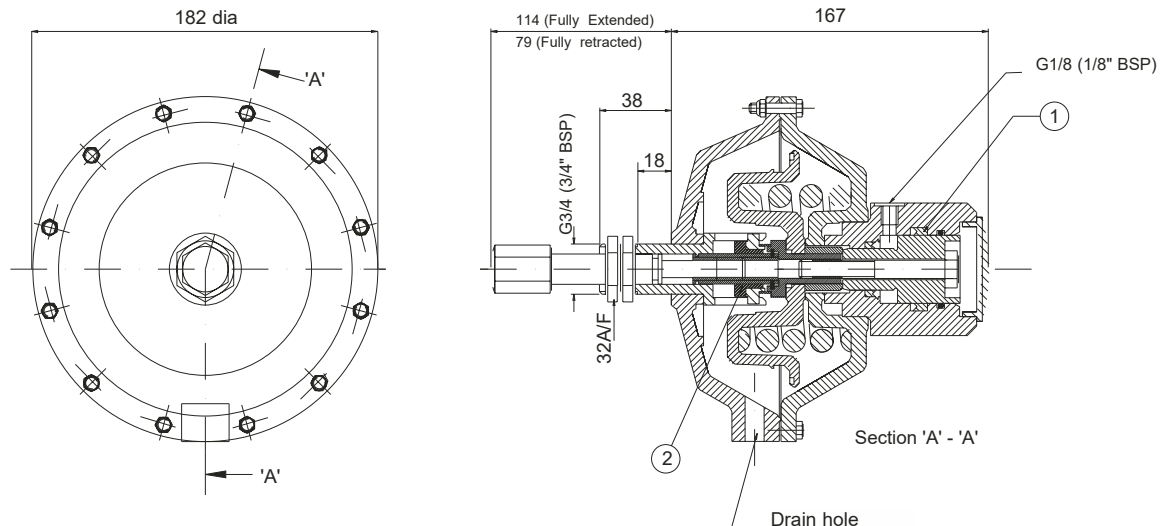
Rate	Maximum Braking Force - kN [lbf]	Minimum Pressure for Full Retraction - bar [psi]
Full	6.4	50
2/3	4.3	33
1/3	2.2	17

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.

MRL Disc Brake Caliper - Spring Applied, Hydraulically Released



Available Spares		
Item	Component	Part No.
1	Diaphragm Kit	7902806
2	Piston Rod Assembly	7902805

Thruster Part Number:

Full Rate 7500092/AH37
 2/3rd Rate 7500102/AH38
 1/3rd Rate 7500101/AH39

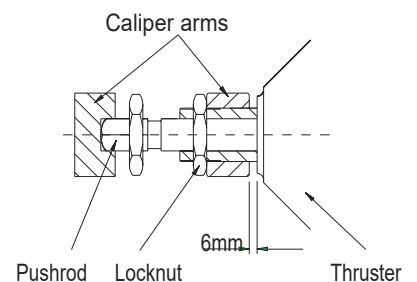
Non self adjusting versions are available - contact Twiflex for details.

Depending upon the service conditions it may eventually become necessary to replace the hydraulic seals. This is done as follows:

- Remove thruster from caliper.
- Unscrew and remove the pushrod.
- Remove the end cap from the rear of the thruster. (see drawing above)
- Unscrew M10 bolt. (see drawing above)
- Gently apply hydraulic pressure at inlet port to ease the piston out of the cylinder.
- The seal and O Ring can now be replaced on the piston and also the one in the cylinder. (see drawing above)
- Lightly grease the seals and replace piston and lock in position with M10 bolt, tightening torque 46Nm. (use Loctite)
- Replace the end cap and the thruster is ready for service.

Thruster Fitment

- Make sure the thruster rod is extended i.e. it is not pressurised.
- 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.
- Offer thruster to caliper making sure that both lock nuts are removed before placing hex section of push rod through caliper arm.
- Pull caliper arms apart so that the pads are hard against the disc.
- 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.
- Tighten first lock nut to 50 - 60Nm then tighten the second nut against the first.
- Fit tension spring to arms.



This approval is in Accordance with
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