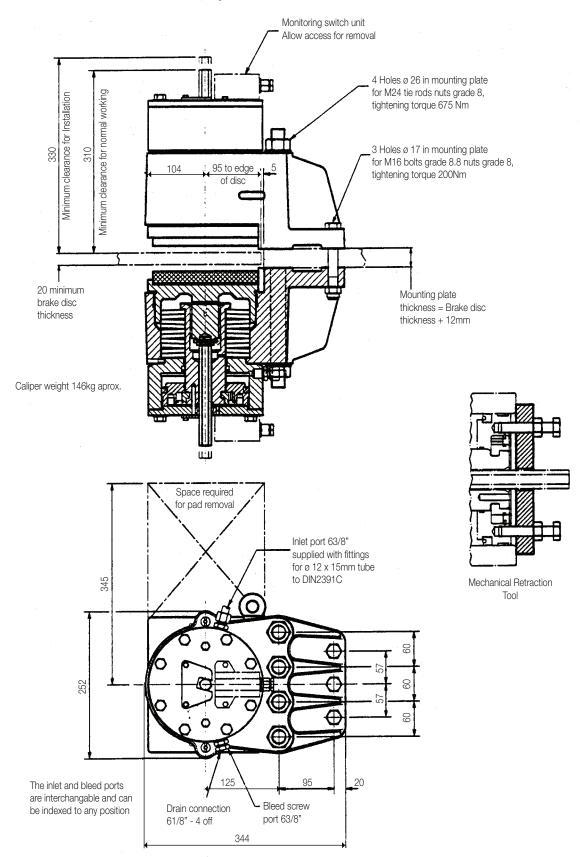


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VKSD Disc Brake Caliper - Spring Applied, Hydraulically Released

See Publication Ref. No.M1030 Installation, Operation and Maintenance.



VKSD Disc Brake Caliper - Spring A MATA Caulically Released

Technical Data:

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BRAKE DISC

Diameter - 1000mm minimum. There is no maximum limit except for practical considerations **Thickness** - 20mm minimum. There is no maximum limit except for practical considerations Material - standard discs sq iron to BS 2789 grade 420/1 2. (Twiflex data sheet DB 5002)

Finish - brake path surface to be 2um or better.

BRAKE PADS Width Length Thickness Area(2 pads) Wear Allowance 208mm 180mm 22mm 748.8cm² 10mm

HYDRAUUCS

The recommended fluid is mineral oil based hydraulic fluid. Correctly formulated water-in-oil emulsions may also be used. Fluid displacement for 1 mm retraction at both pads - 28m I.

BRAKE ADJUSTMENTS

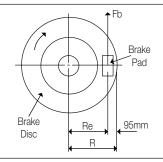
The adjusting screw sets the air gap between brake pad and brake disc and allows brake pad wear to be taken up. In a high wear situation, re-setting should be frequent. See Installation, Operation and Maintenance Instructions for adjustment for pad wear. Monitoring units are optionally available to indicate a) brake off, b) wear adjustment required and c) pad replacement required.

MECHANICAL RETRACTION

A mechanical retraction tool is supplied, and should only be used to release the brake in emergencies such as hydraulic supply failure. A failed seal would also necessitate the use of a mechanical retraction tool.

Performance Data:

1 cromanoc bata.						
Caliper	Air Gap	Braking	Pressure	Min.	Max	
Type	Setting	Force	to Release	for full	Allowable	
VKSD			Brake	Retraction	Pressure	Braking force assumes -
	mm	kN	bar	bar	bar	a) a coefficient of friction between brake pad and brake disc of 0.4"
High	2	119.0	124	138	163	b) a small loss due to spring pack friction
High	2	112.0	116	131	156	c) an air gap setting as stated in the table Braking
High	2	104.0	108	124	149	force is increased by reduction in air gap setting and
High	2	96.3	100	116	141	vice versa.
High	2	88.2	92	108	133	Pressures stated allow for a small loss due to seal
High	2	80.0	83	100	125	friction.
High	2	71.2	75	92	117	
High	2	62.4	65	83	109	* This is only achieved by fully bedded-in and
Low	2	64.1	63	69	94	conditioned brake pads and a high standard of
Low	2	58.7	58	63	88	cleanliness and dryness at the friction surfaces.
Low	2	53.0	53	58	83	A bedding-in procedure is available in publication M1065.
Low	2	47.1	47	53	78	An appropriate service factor should be applied ac-
Low	2	41.0	41	47	72	cording to the duty. In the case of holding brakes or
Low	2	34.4	34	41	66	wet conditions this should be at least 2.
Low	2	27.8	28	34	59	



Braking Torque

Braking Torque (Tb) = Braking Force (Fb)

x Effective Disc Radius (Re)

Effective Disc Radius (Re) = Actual Disc Radius (R) - 0.095m

For Tb in Nm. apply Fb in Newtons and R in metres

Tb = Fb x Re (Re = R - 0.095m)

Tb = Fb (R - 0.095) Nm

For Tb in lbf ft. apply Fb in lbf and R in ft.

Tb = Fb (R - 0.512ft.) lbf ft.

Twiflex disc brakes must be used with Twiftex asbestos free pads. The use of any other brake pad will invalidate the warranty. Twiflex Limited reserves the right to modify or change the design without prior notice. This document is the intellectual property of Twiflex Limited.



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