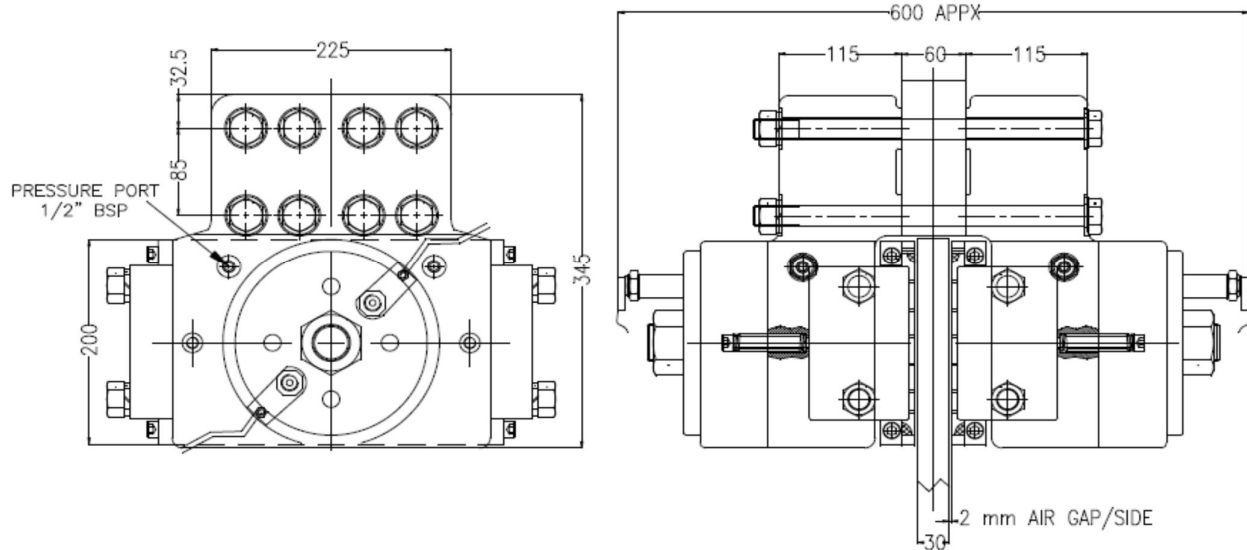


K-DAF/1120-DS (HYDRAULIC FAIL SAFE DISC BRAKE).



BRAKE EXPLANATION – K-DAF/1120-DS

K = Kateel
 D = Direct
 A = Acting
 F = Fail-safe brake
 1120 = Clamping force – 1120=2,60,000 N
 DS = Dual Spring

CALCULATION

$$FB = FC \times 2 \times \mu$$

$$M_B = a \times F_B \times \frac{(D_0 - 0.2)}{2}$$

MB = Braking torque (Nm)

a = Number of calipers acting on the disc

FB = Braking force according to table (N)

D0 = Braking disc outer diameter (m)

μ (Co-efficient of friction) = 0.4

0.2= Brake pad width (m)

COMMON FEATURES

Weight : ~ 250 kg
 Brake pad width: 200 mm
 Area per brake pad: 37,224 mm² – sintered material
 Max. wear of each brake pad: 5 mm
 Total piston area: 176 cm²
 Oil volume - 1mm stroke: 17.6 cm³
 Pressure connection port: 2 ports – 1/2" B.S.P.
 Min. recommended pipe size: 10/8 - Ø10 mm (OD)
 Ø8mm(ID)
 Max. operating pressure: 230 bar
 Temperature range: -20°C to +80°C
 Min Outer Disc Diameter: 800mm
 Max. Outer Coupling Diameter: 412mm
 Disc thickness: 20 mm – 50 mm

The K-DAF/1120-DS is a spring applied and hydraulically released fail safe disc brake with a clamping force up to 2,60,000 N.

Brake type	Max. Clamping force		Fb Braking Force		Operating pressure
	1mm Air Gap	2mm Air Gap	1mm Air Gap	2mm Air Gap	
K-DAF/1020-DS	46000 N	39100 N	36800 N	31280 N	40 bar
K-DAF/1030-DS	67000 N	56950 N	53600 N	45560 N	50 bar
K-DAF/1040-DS	88000 N	74800 N	70400 N	59840 N	65 bar
K-DAF/1050-DS	110000 N	93500 N	88000 N	74800 N	80 bar
K-DAF/1060-DS	132000 N	112200 N	105600 N	89760 N	95 bar
K-DAF/1070-DS	154000 N	130900 N	123200 N	105600 N	115 bar
K-DAF/1080-DS	176000 N	149600 N	140800 N	119680 N	130 bar
K-DAF/1090-DS	197000 N	167450 N	157600 N	133960 N	145 bar
K-DAF/1100-DS	218000 N	185300 N	174400 N	148240 N	160 bar
K-DAF/1110-DS	238000 N	202300 N	190400 N	161840 N	175 bar
K-DAF/1120-DS	260000 N	221000 N	208000 N	176800 N	190 bar

K-DAF-1120-DS-DUAL SPRING

1. Few moving parts – enable short response time and fast braking.
2. Mounting is very easy due to that reduced installation costs.
3. Replacement of brake pad is easy with removable brake pad holder.
4. Retraction springs for automatic retraction, when the brake is withdrawn.
5. Drain ports for any hydraulic oil leakage.

FEATURES

1. Brake ON/OFF and pad wear switches.
2. Sintered brake pads.
3. Hydraulic power pack to operate the brake.