

5028-SH | SPRING APPLIED / HYDRAULIC RELEASED CALIPER DISC BRAKE



KEY BENEFITS

Bronze & stainless steel construction

Easy brake pad replacement

Well matched to Kobelt's standard range of 4"x10" ventilated discs

Putting you in control.

Constructed entirely of bronze and stainless steel, Kobelt's spring applied disc brakes are built to last in the harshest, most corrosive conditions.

The brake features a shoe design which allows the brake pads to be easily and quickly changed while leaving the caliper in place.

Available with several options, these caliper disc brakes are well suited for parking or emergency braking duty on hoists, winches and more.

SPECIFICATIONS

PART NO.	NORMAL FORCE ¹	PRESSURES	
		RELEASE	HOLD-OFF
5028-SH	19,730 lbs [87.8 kN]	1005 psi [69.3 bar]	674 psi [46.5 bar]
5028-SH115	17,330 lbs [77.1 kN]	820 psi [57 bar]	640 psi [44 bar]
5028-SH100	15,690 lbs [69.8 kN]	690 psi [48 bar]	560 psi [39 bar]
5028-SH80	14,050 lbs [62.5 kN]	620 psi [43 bar]	490 psi [34 bar]

Maximum Pressure: 2000 psi [138 bar]

Port Size: -5 ORB

Actuator Volume: 12.6 in³ [206 cc]

Temperature Range: -40°F...+131°F
-40°C...+55°C

Disc Thickness: 4 in [102 mm]

Max Running Clearance: .08 in [2.0 mm]

Minimum Disc Diameter: 42 in [1067 mm]

Maximum Disc Diameter: 52 in [1321 mm]

Total Pad Area: 374 in² [2415 cm²]

Weight: 544 lbs [247 kg]

¹Torque:

$$T_B = 2F_N\mu \left(\frac{OD-12.0}{24} \right)$$

Where:

T_B = brake torque (ft-lbf)

F_n = normal force (lbf)

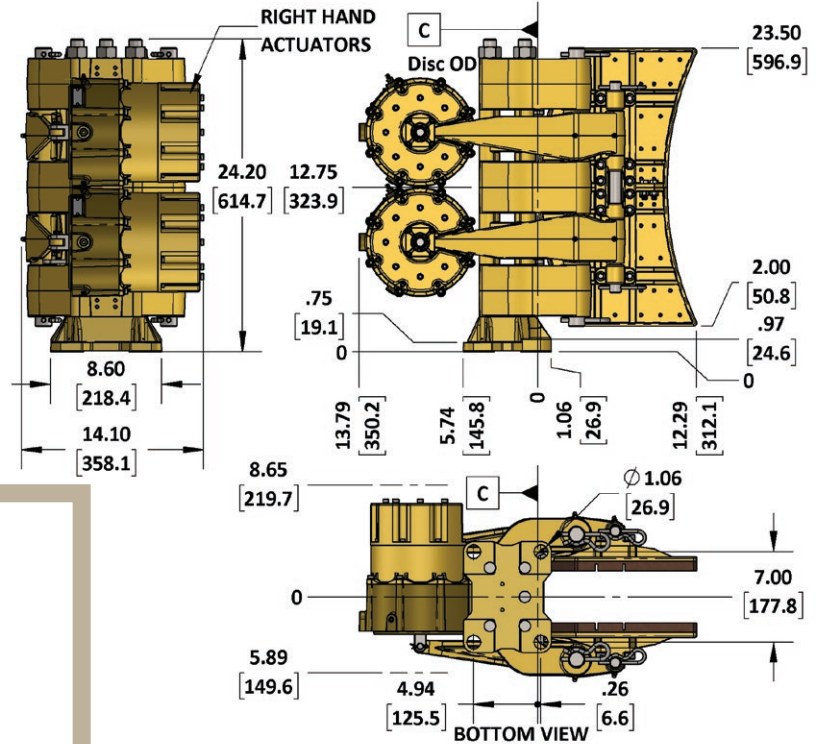
μ = coefficient of friction
= 0.38 (ferrous)
= 0.35 (nonferrous)

Friction values are theoretical and for reference only. They are based on properly bedded and burnished linings acting on a rotor at 20°C, manufactured to required specifications.

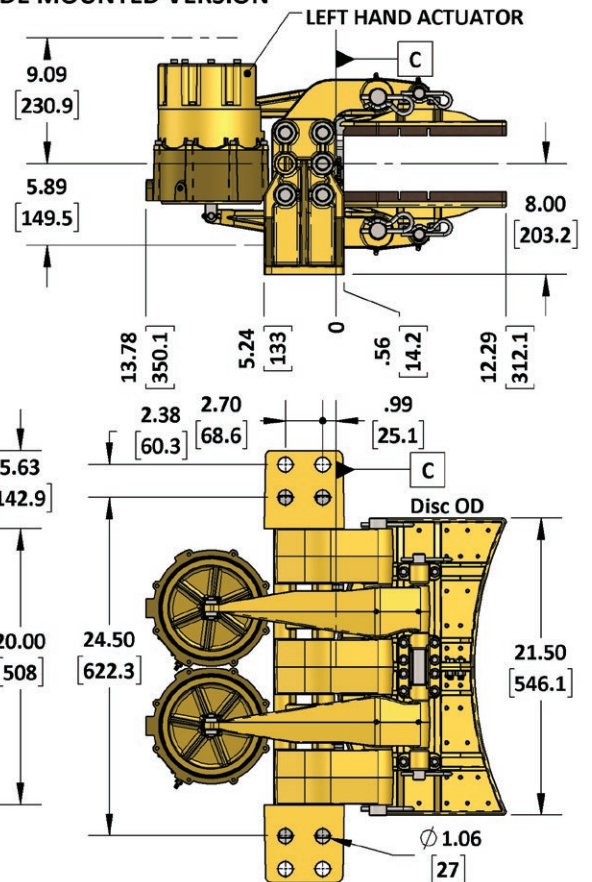
OD = brake disc diameter (in)

SPECIFICATIONS

FOOT MOUNTED VERSION



SIDE MOUNTED VERSION



Brake Model Code Key

5028-					
					Added options
					LS = limit switch
					Friction material
					(blank) = standard
					N = non-sparking
					C = low COF (.12-.15)
					E = mid COF (.25-.28)
					Disc thickness
					(blank) = 4.000 in
					350 = 3.500 in
					300 = 3.000 in
					250 = 2.500 in
					200 = 2.000 in
					Actuator handing
					LH = springs on left hand side
					RH = springs on right hand side
					Mounting code
					(blank) = foot mounted
					W = side mounted
					Actuator code
					SH = 1005 psi release
					SH115 = 820 psi release
					SH100 = 690 psi release
					SH80 = 620 psi release