

5023-SA

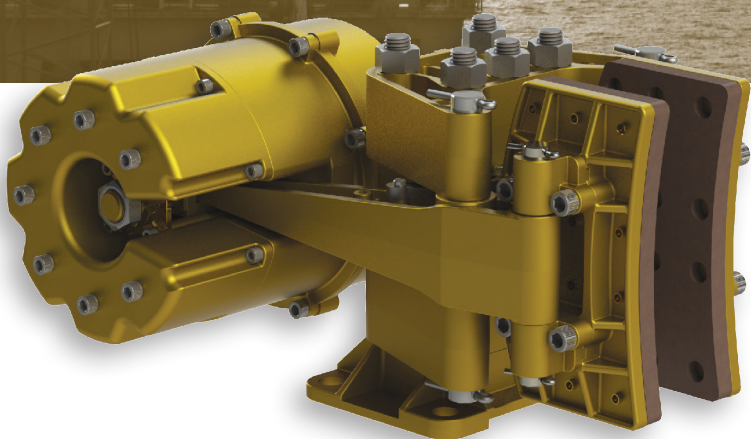
# SPRING APPLIED AIR RELEASED CALIPER DISC BRAKE

## KEY BENEFITS

Bronze &  
stainless steel  
construction

Easy brake pad  
replacement

Well matched to  
Kobelt's standard  
range of 2"  
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 draw works, hoists, winches and more.

## SPECIFICATIONS

PART NO.	NORMAL FORCE <sup>1</sup>	PRESSURES	
		RELEASE	HOLD OFF
5023-SA	7930 lbs [35.03 kN]	88 psi [6.1 bar]	79 psi [5.5 bar]
5023-SA75	6770 lbs [30.1 kN]	76 psi [5.2 bar]	66 psi [4.6 bar]
5023-SA70	6090 lbs [27.1 kN]	68 psi [4.7 bar]	59 psi [4.1 bar]
5023-SA60	5120 lbs [22.8 kN]	55 psi [3.8 bar]	49 psi [3.4 bar]

Maximum Pressure: 150 psi [10.3 bar]

Port Size: 3/8 NPT

Actuator Volume: 46.2 in<sup>3</sup> [757 cc]

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

Disc Thickness: 2 in [51 mm]

Max Running  
Clearance: .06 in [1.5 mm]

Minimum  
Disc Diameter: 20 in [508 mm]

Maximum  
Disc Diameter<sup>2</sup>: unlimited

Total Pad Area: 53.4 in<sup>2</sup> [344 cm]<sup>2</sup>

Weight: 77 lbs [35 kg]

$${}^1\text{Torque: } T_B = 2F_N \mu \left( \frac{OD - 4.50}{24} \right)$$

Where:

$T_B$  = brake torque (ft-lbf)

$F_N$  = normal force (lbf)

$\mu$  = coefficient of friction

= 0.35 (nonferrous)

= 0.38 (ferrous disc)

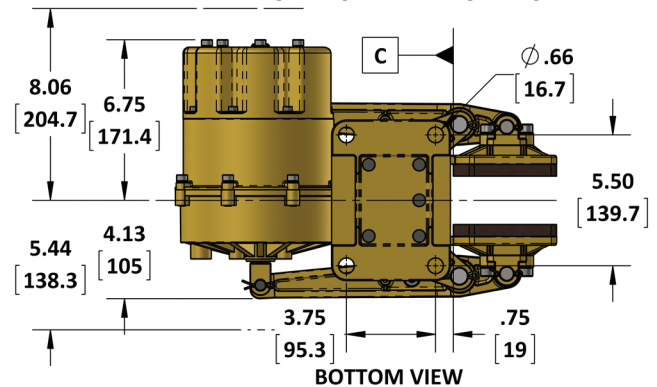
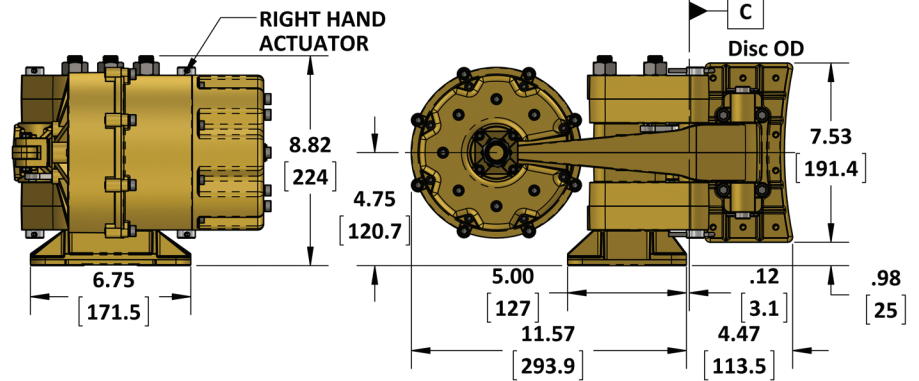
OD = brake disc diameter (in)

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.

<sup>2</sup> Requires a minimum 4.34 in [110 mm] wide face

# SPECIFICATIONS

## FOOT MOUNTED VERSION



### Brake Model Code Key

5023 [ ] - [ ] - [ ] - [ ] - [ ]

#### Added options

- R = manual release
- LS = limit switch

#### Friction material

- (blank) = standard
- N = nonsparking
- C = low COF (.12-.15)
- E = mid COF (.25-.28)

#### Disc thickness

- (blank) = 2.000 in
- 175 = 1.750 in
- 150 = 1.500 in
- 125 = 1.250 in
- 100 = 1.000 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

- SA = 87 psi release
- SA75 = 76 psi release
- SA70 = 66 psi release
- SA60 = 55 psi release

## SIDE MOUNTED VERSION

