

5024-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 ¹	PRESSURES	
		RELEASE	HOLD-OFF
5024-SA	10,470 lbs [46.6 kN]	83 psi [5.7 bar]	70 psi [4.8 bar]
5024-SA75	10,190 lbs [45.3 kN]	79 psi [5.4 bar]	68 psi [4.7 bar]
5024-SA70	9350 lbs [41.6 kN]	70 psi [4.8 bar]	62 psi [4.3 bar]
5024-SA60	8610 lbs [38.3 kN]	65 psi [4.5 bar]	56 psi [3.9 bar]

Maximum Pressure: 150 psi [10.3 bar]

Port Size: 3/8 NPT

Actuator Volume: 60.1 in³ [985 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 Diameter²: unlimited

Total Pad Area: 69 in² [448 cm²]

Weight: 142 lbs [64 kg]

¹Torque:

$$T_B = 2F_N\mu \left(\frac{OD-5.00}{24} \right)$$

Where:

T_B = brake torque (ft-lbf)

F_N = normal force (lbf)

μ = coefficient of friction

= 0.35 (nonferrous)

= 0.38 (ferrous disc)

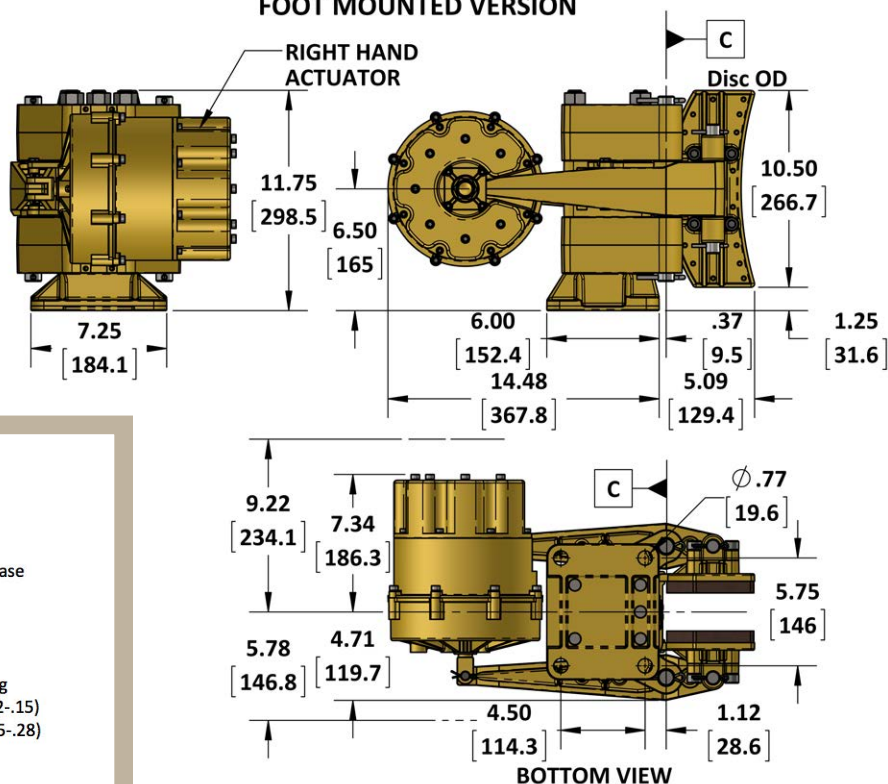
OD = brake disc diameter (in)

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.

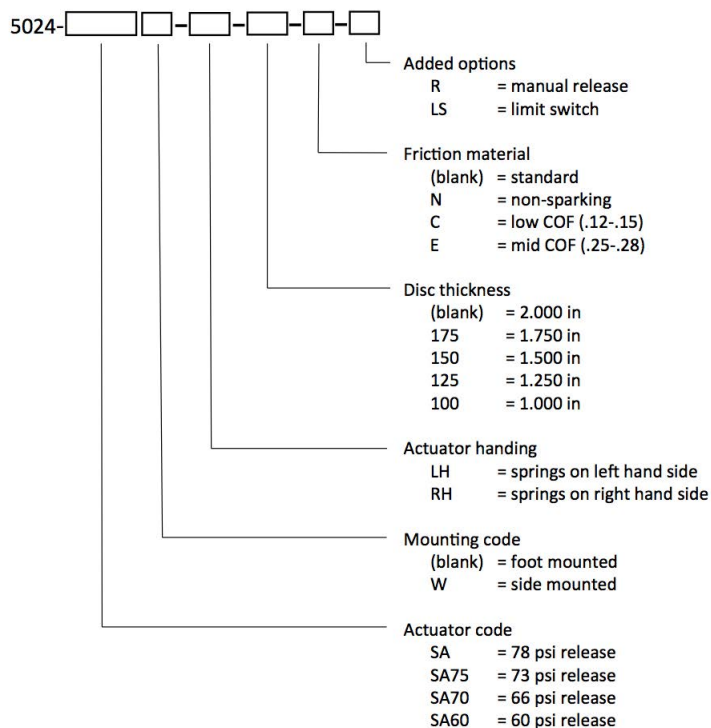
²Requires a minimum 4.72 in
[120 mm] wide face

SPECIFICATIONS

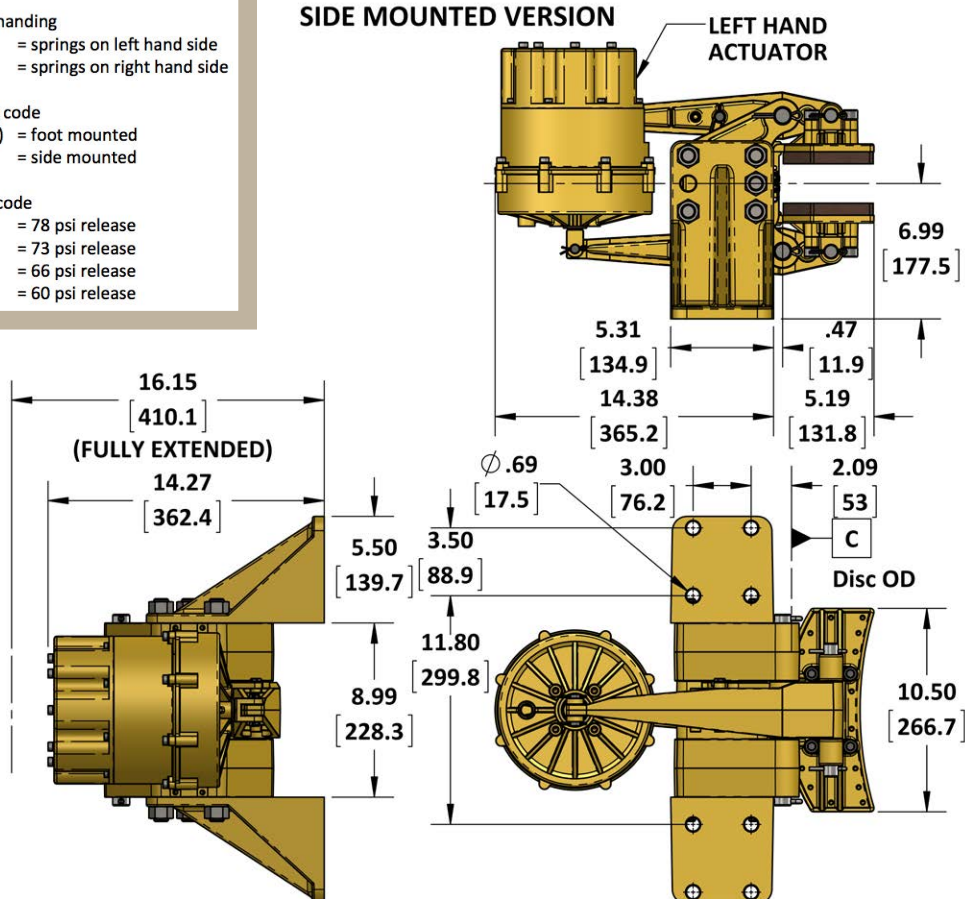
FOOT MOUNTED VERSION



Brake Model Code Key

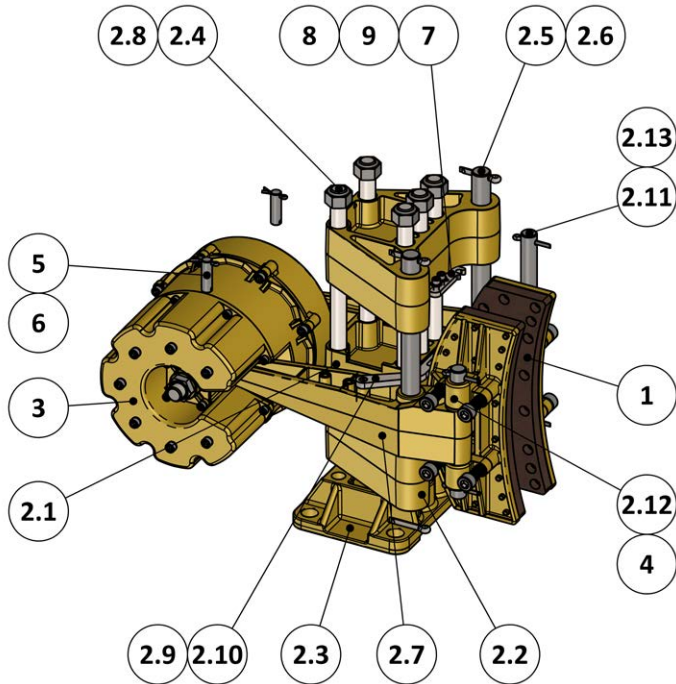


SIDE MOUNTED VERSION

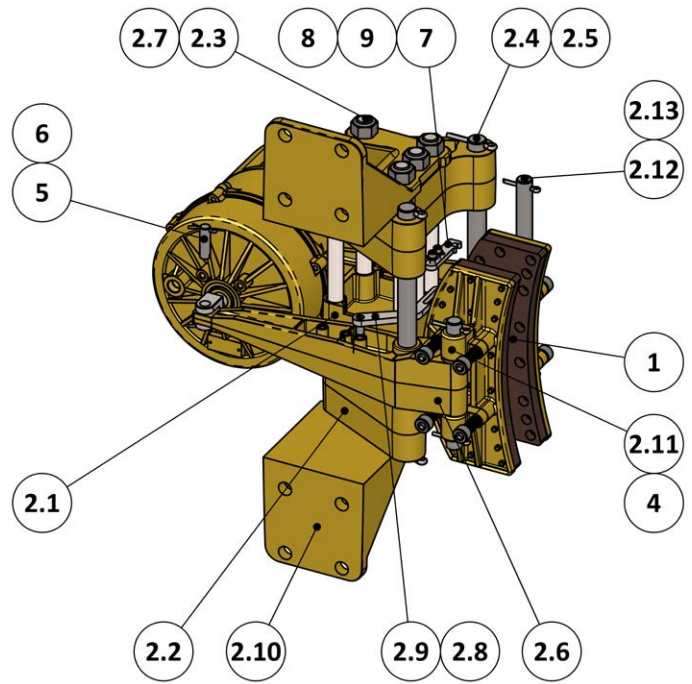


PARTS LISTING

5024-SA Caliper Brake



5024-SAW Caliper Brake

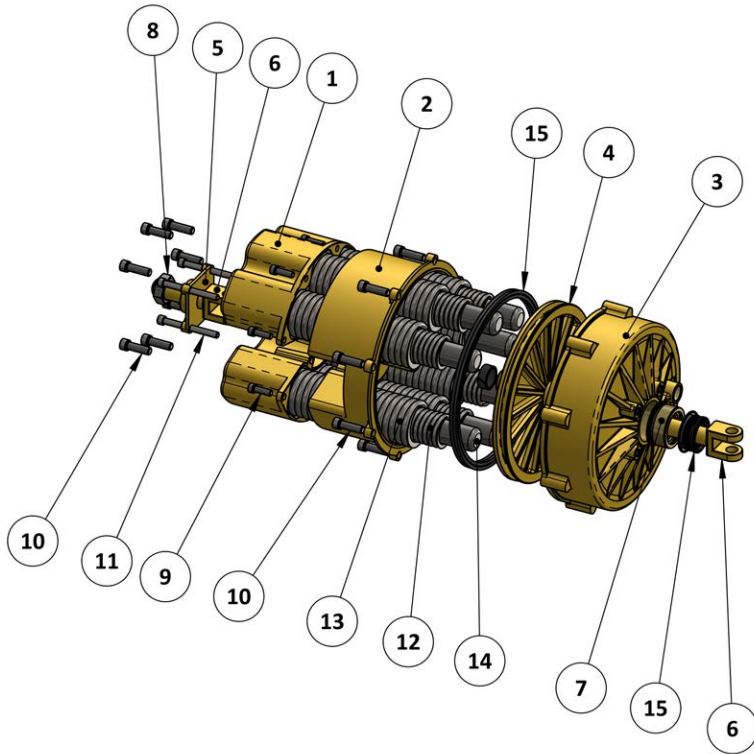


ITEM	QTY.	PART NUMBER	5024-SA DESCRIPTION
1	2	5024-LS	SHOE ASSEMBLY, 5024 CALIPER, 5/8" K5
2	1	5024-SUB-A	5024 CALIPER SUB-ASSEMBLY
2.1	1	5024-0003	SPACER, 5024 CALIPER
2.2	2	5024-0002	SADDLE, 5024 CALIPER
2.3	1	5024-0001	FOOT, 5024 CALIPER
2.4	5	5024-0023	TIE ROD, 5024/25 CALIPERS
2.5	2	5024-0022	SADDLE PIN, 5024/25 CALIPERS
2.6	4	1026-1024	COTTER PIN, 1/4" X 1 1/2", SS
2.7	2	5024-0004	LEVER, 5024 CALIPER
2.8	5	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
2.9	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
2.10	2	5024-0011	BALANCING LINK NO. 1, 5024 CALIPER
2.11	2	5024-0021	SHOE PIN, 5024/25 CALIPERS
2.12	4	5024-0006	PIVOT BLOCK, 5024 CALIPER
2.13	4	1026-0824	Cotter Pin _S.S.: 3/16 x 1 1/2*
3	1	6233	SPRING APPLIED / AIR RELEASED ACTUATOR
4	8	1002-1420	SCREW, SKT HD, 1/2-13 UNC X 1-1/4, SS
5	2	6230-0010	CLEVIS PIN, 1/2" DIA
6	4	1026-0516	COTTER PIN, 1/8" X 1", SS
7	2	5024-0012	BALANCE LINK NO. 2, 5024 CALIPER
8	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW
9	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS

ITEM	QTY.	PART NUMBER	5024-SAW DESCRIPTION
1	2	5024-LS	SHOE ASSEMBLY, 5024 CALIPER, 5/8" K5
2	1	5024-SUB-AW	SUB-ASSEMBLY, 5024 CALIPER
2.1	1	5024-0003	SPACER, 5024 CALIPER
2.2	2	5024-0002	SADDLE, 5024 CALIPER
2.3	5	5024-0023	TIE ROD, 5024/25 CALIPERS
2.4	2	5024-0022	SADDLE PIN, 5024/25 CALIPERS
2.5	4	1026-1028	COTTER PIN, 1/4 X 1 3/4
2.6	2	5024-0004	LEVER, 5024 CALIPER
2.7	10	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
2.8	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
2.9	2	5024-0011	BALANCING LINK NO. 1, 5024 CALIPER
2.1	2	5027-0200	SIDE MOUNT FOOT, 5027 CALIPER
2.11	4	5024-0006	PIVOT BLOCK, 5024 CALIPER
2.12	2	5024-0021	SHOE PIN, 5024/25 CALIPERS
2.13	4	1026-0824	Cotter Pin _S.S.: 3/16 x 1 1/2*
3	1	6233	SPRING APPLIED / AIR RELEASED ACTUATOR
4	8	1002-1420	SCREW, SKT HD, 1/2-13 UNC X 1-1/4, SS
5	2	6230-0010	CLEVIS PIN, 1/2" DIA
6	4	1026-0516	COTTER PIN, 1/8" X 1", SS
7	2	5024-0012	BALANCE LINK NO. 2, 5024 CALIPER
8	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW
9	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS

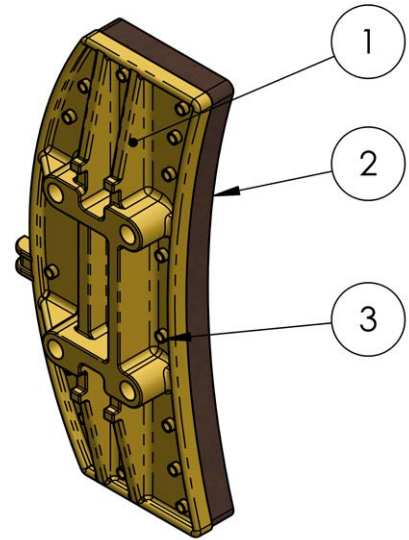
PARTS LISTING

6233 Actuator



ITEM	QTY.	PART NUMBER	6233 DESCRIPTION
1	1	6233-0001	SPRING HOUSING, COVER
2	1	6233-0101	SPRING HOUSING, CENTRE
3	1	6233-0002	ACTUATOR HEAD, 6233 ACTUATOR
4	1	6233-0003	PISTON, AIR, 6233 ACTUATOR
5	1	6233-0004	BRACKET, 6233 ACTUATOR
6	2	6233-0005	CLEVIS, 6233 ACTUATOR
7	1	6230-PHB	SEAL CARRIER, 6230 ACTUATOR
8	1	1022-0217	NUT, JAM, 3/4-10 UNC, SS
9	8	1002-1012	SCREW, SCKT HD, 1/4-20 UNC X 3/4, SS
10	15	1002-1116	SCREW, SCKT HD, 5/16-18 UNC X 1, SS
11	4	1002-1036	CAP SCREW – SKT HD; ¼ UNC X 2-1/4 LG , 18-8
12	7	1201-0229	SPRING, COMPRESSION, 1.45 OD X .177 WIRE X 12.31 LG
13	7	1201-0230	SPRING, COMPRESSION, 2.00 OD X .250 WIRE X 13.0 LG
14	7	6230-0011	SPRING GUIDE, 1"
15	1	6233-RK	SEAL KIT, 6233 ACTUATOR

5024-LS



ITEM	QTY.	PART NUMBER	5024-LS DESCRIPTION
1	1	5024-0005	BRAKE SHOE
2	1	5024-0007	BRAKE LINING, 5/8 INCH K5
3	20	1033-1007	RIVET, 1/4 X 7/16 (10-7), BRASS

Note: Parts lists are applicable to standard models only.