

5026-SA

SPRING APPLIED / AIR RELEASED CALIPER DISC BRAKE



KEY BENEFITS

Bronze & stainless steel construction

Rapid brake pad change out

Well matched to Kobelt's standard range of 4" x 7" 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 drawworks, hoists, winches and more.

SPECIFICATIONS

PART NO.	NORMAL FORCE ¹	PRESSURES	
		RELEASE	HOLD-OFF
5026-SA	17,400 lbs [77.4 kN]	117 psi [8.0 bar]	105 psi [7.3 bar]
5026-SA100	15,820 lbs [70.4 kN]	98 psi [6.8 bar]	92 psi [6.4 bar]
5026-SA80	14,230 lbs [63.3 kN]	87 psi [6.0 bar]	81 psi [5.6 bar]
5026-SA75	12,010 lbs [53.5 kN]	76 psi [5.2 bar]	66 psi [4.6 bar]

Maximum Pressure: 150 psi [10.3 bar]

Port Size: 3/8 NPT

Actuator Volume: 92.4 in³ [1514 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: 30 in [762 mm]

Maximum Disc Diameter²: 61 in [1549 mm]

Total Pad Area: 175 in² [1128 cm²]

Weight: 259 lbs [118 kg]

¹Torque:

$$T_B = 2F_N\mu \left(\frac{OD-8.15}{24} \right)$$

Where:

T_B = brake torque (ft-lbf)

F_N = normal force (lbf)

μ = coefficient of friction

= 0.38 (ferrous)

= 0.35 (nonferrous)

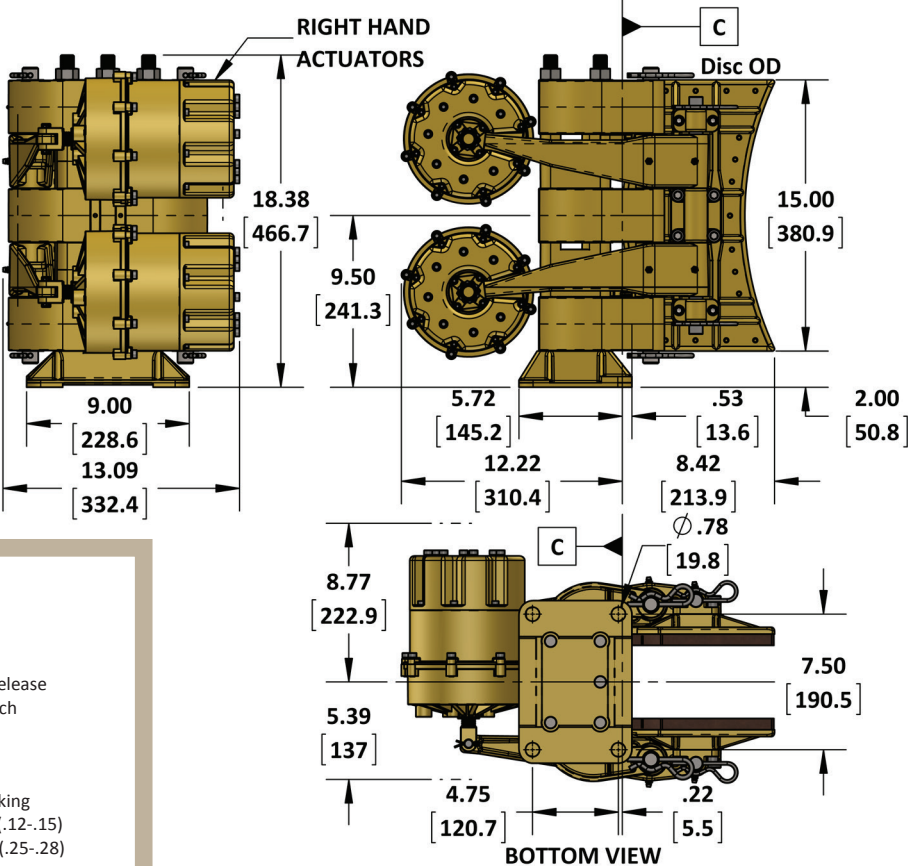
Friction values are theoretical and for reference only. They are based on properly bedded and burnished linings acting on a rotor at 20°C, manufactured to required specifications.

OD = brake disc diameter (in)

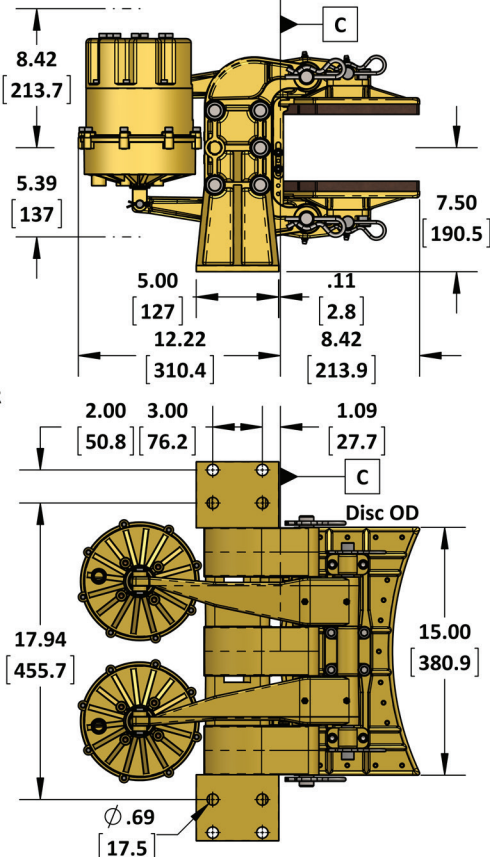
²Requires a minimum 7.28 in [185 mm] wide face

SPECIFICATIONS

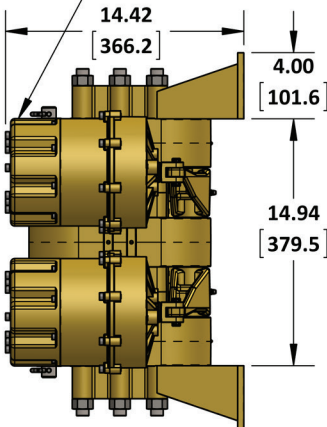
FOOT MOUNTED VERSION



SIDE MOUNTED VERSION



LEFT HAND ACTUATOR



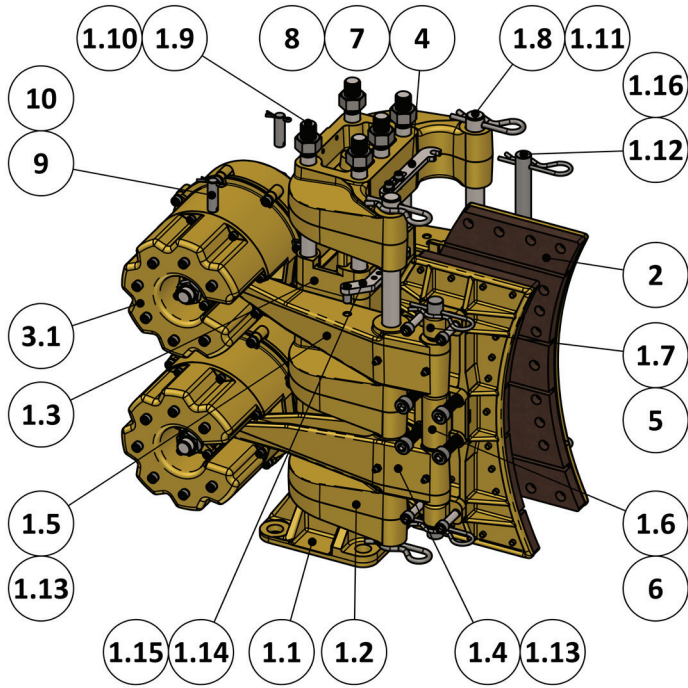
Brake Model Code Key

5026- [] - [] - [] - [] - []

- Added options
 - R = manual release
 - 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
 - SA = 117 psi release
 - SA100 = 98 psi release
 - SA80 = 87 psi release
 - SA75 = 76 psi release

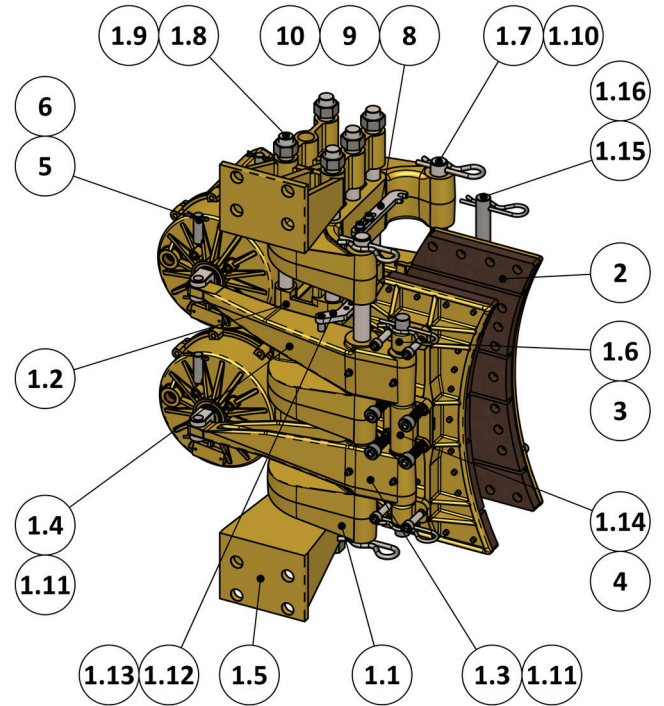
PARTS LISTING

5026-SA Caliper Brake



ITEM	QTY.	PART NUMBER	5026-SA DESCRIPTION
1	1	5026-SUB	SUB-ASSEMBLY, 5026 CALIPER
1.1	1	5026-0001	FOOT, 5026 CALIPER
1.2	3	5026-0002	SADDLE, 5026 CALIPER
1.3	2	5026-0003	SPACER, 5026 CALIPER
1.4	2	5027-0004-R	LEVER, RIGHT, 5027
1.5	2	5027-0004-L	LEVER ARM, LEFT, 5026 CALIPER
1.6	2	5026-0013	PIVOT BLOCK, CENTER, 5026 CALIPER
1.7	4	5026-0014	PIVOT BLOCK, OUTER, 5026 CALIPER
1.8	2	5026-0028	PIVOT PIN, 5026/28 CALIPERS
1.9	5	5027-0023	TIE ROD, 5026 & 5027 CALIPER
1.10	5	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
1.11	4	1039-0470	PIN, HAIRPIN COTTER, 1/4 X 4-1/4, STEEL
1.12	2	5026-0027	SHOE PIN, 5026 CALIPER
1.13	8	1501-0301	GREASE NIPPLE, 1/4-28
1.14	2	5025-0011	BALANCING LINK, PIVOT END
1.15	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
1.16	4	1039-0352	HITCH PIN, 5/16 X4, STEEL
2	2	5026-LS	SHOE ASSEMBLY, 5/8" K5, 5026 CALIPER
3	2	6230	ACTUATOR, SPRING APP / AIR REL, 120 PSI
4	2	5025-0012	BALANCING LINK, FORK END, 5025 CALIPER
5	8	1002-1220	SCREW, SKT HD, 3/8-16 UNC X 1-1/4, SS
6	8	1002-1420	SCREW, SKT HD, 1/2-13 UNC X 1-1/4, SS
7	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
8	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW
9	4	6230-0010	CLEVIS PIN, 1/2" DIA
10	8	1026-0516	COTTER PIN, 1/8" X 1", SS

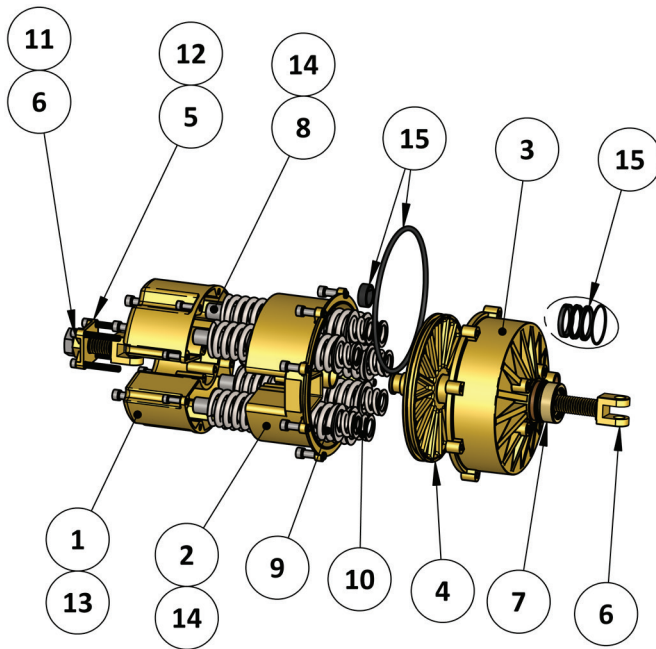
5026-SAW Caliper Brake



ITEM	QTY.	PART NUMBER	5026-SAW DESCRIPTION
1	1	5026-SUB-W	SUB-ASSEMBLY, SIDE MOUNT
1.1	3	5026-0002	SADDLE, 5026 CALIPER
1.2	2	5026-0003	SPACER, 5026 CALIPER
1.3	2	5027-0004-R	LEVER, RIGHT, 5027
1.4	2	5027-0004-L	LEVER ARM, LEFT, 5026 CALIPER
1.5	2	5026-0060	BRACKET, SIDEWALL MOUNT, 5025/5026
1.6	4	5026-0014	PIVOT BLOCK, OUTER, 5026 CALIPER
1.7	2	5026-0028	PIVOT PIN, 5026/28 CALIPERS
1.8	5	5026-0124	TIE ROD, SIDE MOUNT CALIPER
1.9	10	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
1.10	4	1039-0470	PIN, HAIRPIN COTTER, 1/4 X 4-1/4, STEEL
1.11	8	1501-0301	GREASE NIPPLE, 1/4-28
1.12	2	5025-0011	BALANCING LINK, PIVOT END
1.13	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
1.14	2	5026-0013	PIVOT BLOCK, CENTER, 5026 CALIPER
1.15	2	5026-0027	SHOE PIN, 5026 CALIPER
1.16	4	1039-0352	HITCH PIN, 5/16 X4, STEEL
2	2	5026-LS	SHOE ASSEMBLY, 5/8" K5, 5026 CALIPER
3	8	1002-1220	SCREW, SKT HD, 3/8-16 UNC X 1-1/4, SS
4	8	1002-1420	SCREW, SKT HD, 1/2-13 UNC X 1-1/4, SS
5	4	6230-0010	CLEVIS PIN, 1/2" DIA
6	8	1026-0516	COTTER PIN, 1/8" X 1", SS
7	2	6230	ACTUATOR, SPRING APP / AIR REL, 120 PSI
8	2	5025-0012	BALANCING LINK, FORK END, 5025 CALIPER
9	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
10	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW

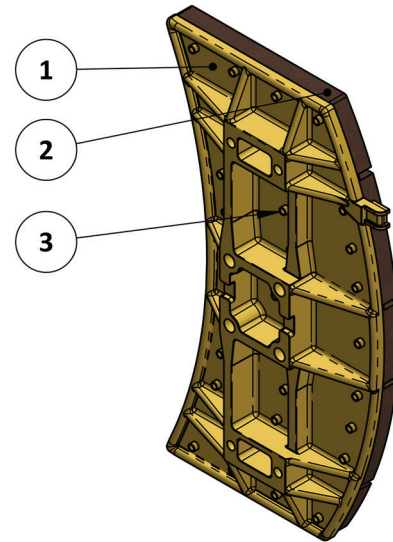
PARTS LISTING

6230 Actuator



ITEM	QTY.	PART NUMBER	6230 DESCRIPTION
1	1	6230-0001	SPRING HOUSING, COVER
2	1	6230-0101	SPRING HOUSING, CENTRE
3	1	6230-0002	ACTUATOR HEAD, 6233 ACTUATOR
4	1	6230-0003	PISTON, AIR, 6230 ACTUATOR
5	1	6230-0004	CLEVIS BRACKET, 6230 & 6232 ACTUATOR
6	2	6230-0005	CLEVIS, 3/4 UNC X 0.50 DIA
7	1	6230-PHB	SEAL CARRIER, 6230 ACTUATOR
8	7	6230-0012	SPRING GUIDE - 3/4"
9	7	1201-0158	SPRING, COMPRESSION, 1.68 OD X .250 WIRE X 9.5L
10	7	1201-0159	SPRING, COMPRESSION, 1.15 OD X .177 WIRE X 9.5L
11	1	1022-0217	NUT, JAM, 3/4-10 UNC, SS
12	4	1002-1032	SCREW, SCKT HD, 1/4-20 UNC X 2, SS
13	8	1002-1012	SCREW, SCKT HD, 1/4-20 UNC X 3/4, SS
14	15	1002-1116	SCREW, SCKT HD, 5/16-18 UNC X 1, SS
15	1	6230-RK-W	SEAL KIT, 6230 ACTUATOR

5026-LS



ITEM	QTY.	PART NUMBER	5026-LS DESCRIPTION
1	1	5026-0005	SHOE, 5026 CALIPER
2	1	5026-0007-K	LINING, 5/8" K5, 5026 CALIPER
3	29	1033-1007	RIVET, 1/4 X 7/16 (10-7), BRASS

Note: Parts lists are applicable to standard models only.