

5021-SA | SPRING APPLIED AIR RELEASED CALIPER DISC BRAKE

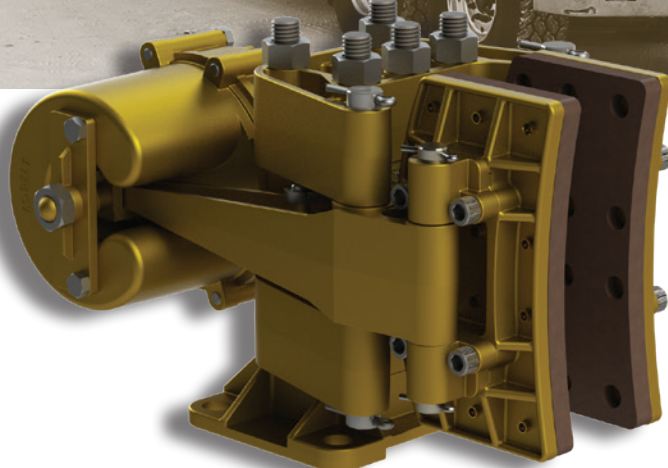


KEY BENEFITS

Bronze & stainless steel construction

Easy brake pad replacement

Well matched to Kobelt's standard range of 2" ventilated discs



Putting you in control.

For over three decades, Kobelt has been manufacturing rugged, durable disc brakes for the oil and gas, mining, material handling and manufacturing industries. Constructed of bronze and stainless steel, Kobelt's disc brakes are built to last in the harshest conditions.

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
5021-SA	4700 lbs [20.9 kN]	102 psi [7.1 bar]	89 psi [6.2 bar]
5021-SA90	4250 lbs [18.9 kN]	87 psi [6.0 bar]	79 psi [5.4 bar]
5021-SA75	3700 lbs [16.5 kN]	76 psi [5.2 bar]	68 psi [4.7 bar]
5021-SA60	2970 lbs [13.2 kN]	62 psi [4.3 bar]	53 psi [3.7 bar]

Maximum Pressure: 250 psi [17.2 bar]

Port Size: ¼ NPT

Actuator Volume: 16.6 in³ [273 cc]

Temperature Range: -40°F...+120°F
-40°C...+49°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: unlimited²

Total Pad Area: 53 in² [344 cm²]

Weight: 57 lbs [25.9 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)

μ = coefficient of friction

= 0.35 (nonferrous)

= 0.38 (steel)

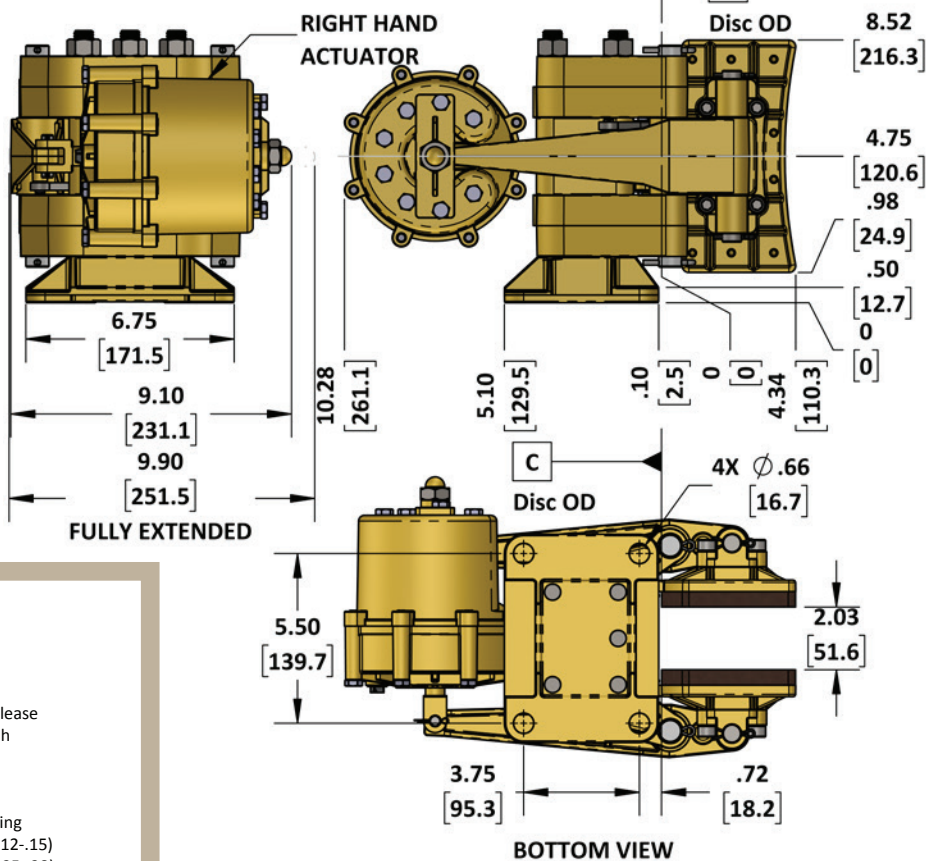
= 0.41 (ferrous)

OD = brake disc diameter (in)

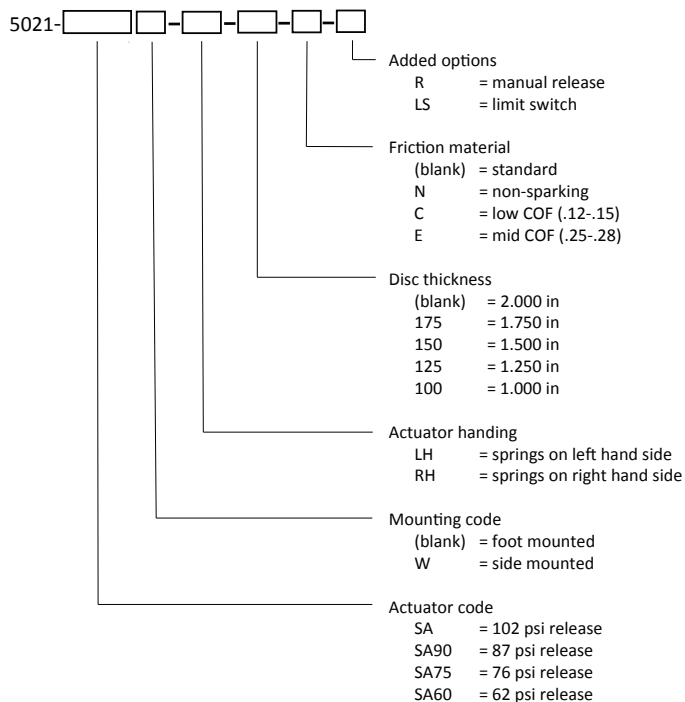
²Requires a minimum 4.34 in [110 mm] wide face

SPECIFICATIONS

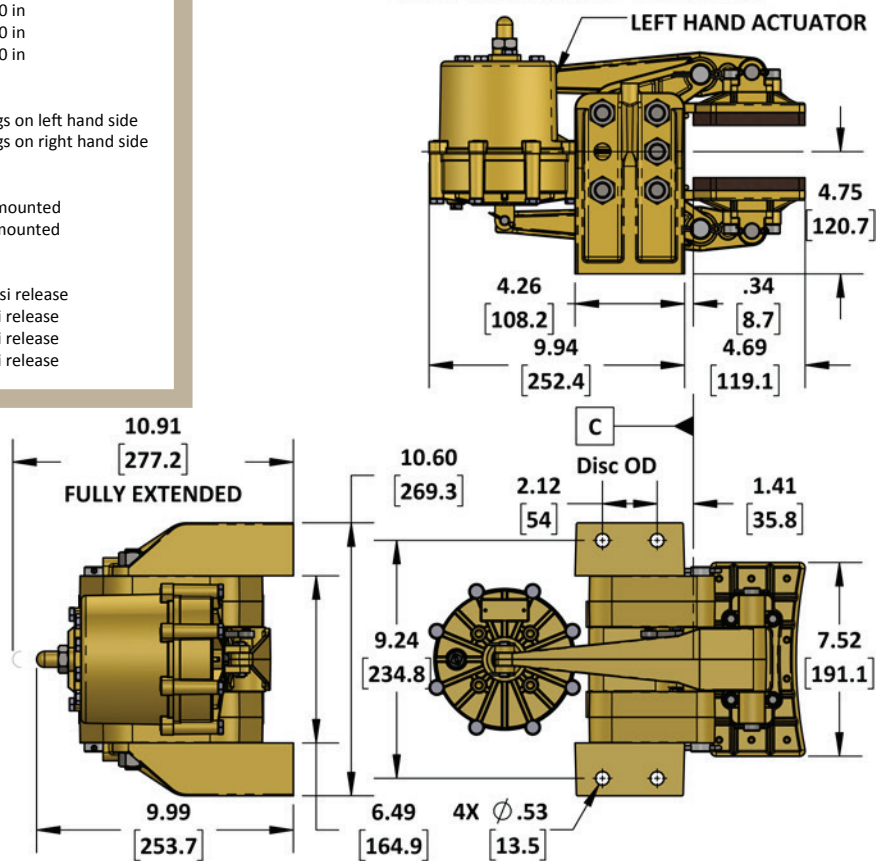
FOOT MOUNTED VERSION



Brake Model Code Key

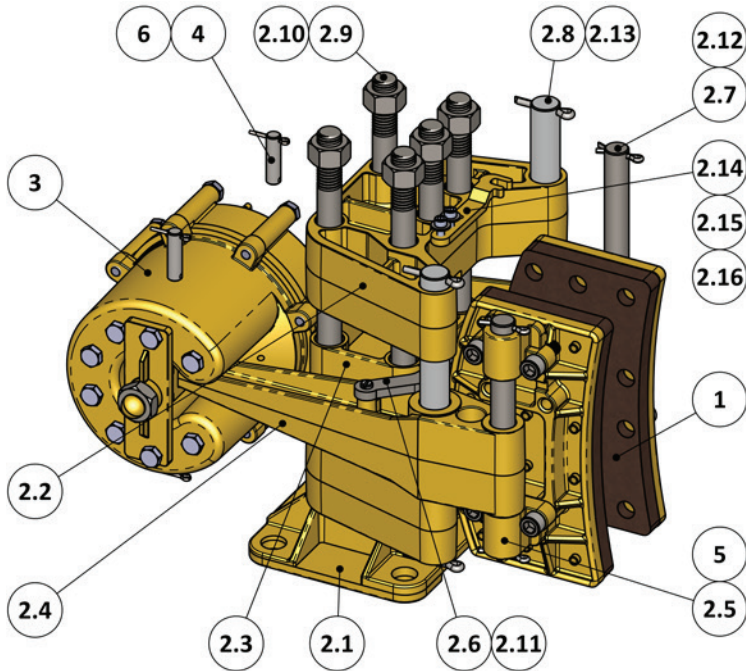


SIDE MOUNTED VERSION

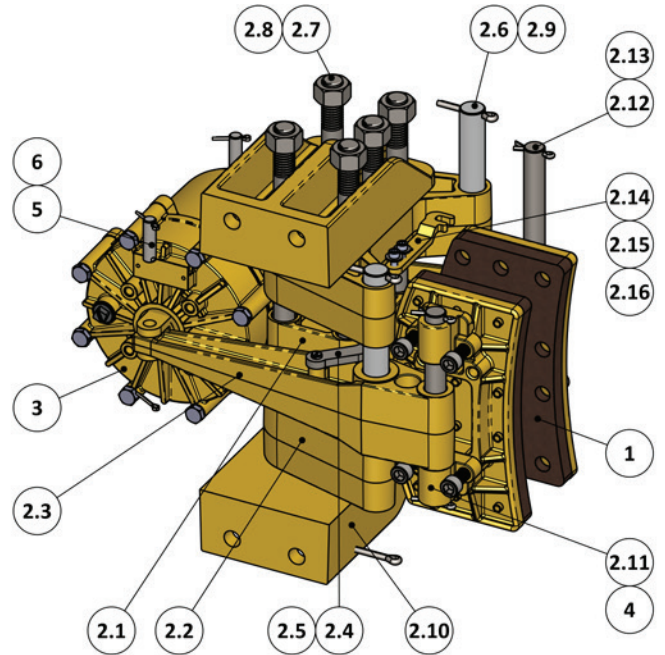


PARTS LISTING

5021-SA Caliper Brake



5021-SAW Caliper Brake

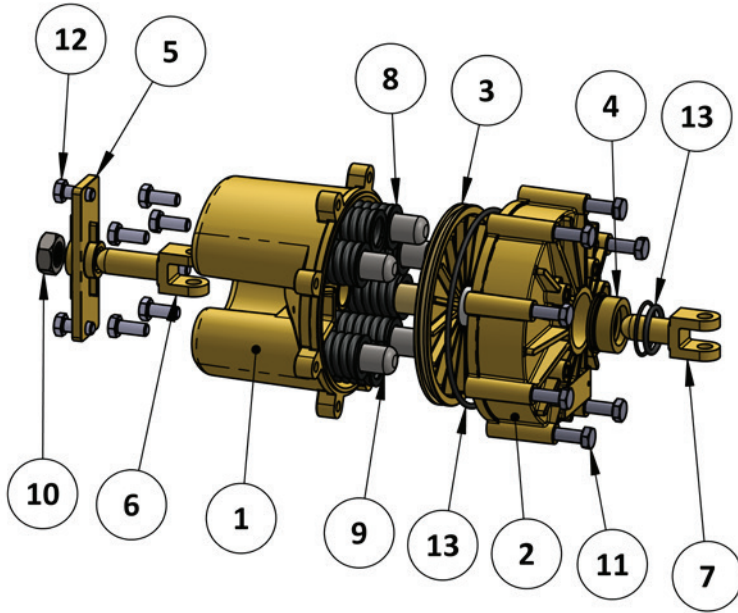


ITEM	QTY.	PART NUMBER	5021-SA DESCRIPTION
1	2	5021-LS	SHOE ASSEMBLY, 5021 CALIPER, 1/2" K5
2	1	5021-SUB	SUB-ASSEMBLY, 5021 CALIPER
2.1	1	5021-0001	FOOT
2.2	2	5021-0002	SADDLE, 5021 CALIPER
2.3	1	5021-0003	SPACER, 5021 CALIPER
2.4	2	5021-0004	LEVER, 5021 CALIPER
2.5	4	5021-0006	HINGE BLOCK
2.6	2	5021-0011	BALANCING LINK PART 1 5021 CALIPER
2.7	2	5021-0021	SHOE PIN 5021 CALIPER
2.8	2	5021-0022	SADDLE PIN 5021 CALIPER
2.9	5	5021-0023	TIE ROD
2.10	5	1022-0116	HEX NUT - REGULAR; 5/8-11 UNC GR 18-8
2.11	2	5021-0226	LINK PIN 5/16 UNC X 7/8 LG
2.12	4	1026-0516	COTTER PIN; 1/8 DIA X 1 LG. 18-8
2.13	4	1026-0820	COTTER PIN; 3/16 DIA x 1 1/4 LG, 18-8
2.14	2	5021-0012	BALANCE LINK NO. 2 5021 CALIPER
2.15	4	1002-0808	SCREW, SKT HEAD, 10-24 X 1/2, 18-8 SS, ASTM F837
2.16	4	1023-0108	WASHER FLAT #10 TYPE A SS
3	1	6212	SPRING APPLIED ACTUATOR, 6212
4	2	6112-0010-L	PIN, LONG, 6112 ACTUATOR
5	8	1002-1216	SCREW, SKT HD CAP, 3/8-16 UNC X 1, SS
6	4	1026-0312	COTTER PIN 3/32 X 3/4 SS

ITEM	QTY.	PART NUMBER	5021-SAW DESCRIPTION
1	2	5021-LS	SHOE ASSEMBLY, 5021 CALIPER, 1/2" K5
2	1	5021-SUB-W	SIDE MOUNT SUB-ASSEMBLY, 5021 CALIPER
2.1	1	5021-0003	SPACER, 5021 CALIPER
2.2	2	5021-0002	SADDLE, 5021 CALIPER
2.3	2	5021-0004	LEVER, 5021 CALIPER
2.4	2	5021-0011	BALANCING LINK PART 1 5021 CALIPER
2.5	2	5021-0226	LINK PIN 5/16 UNC X 7/8 LG
2.6	2	5021-0022	SADDLE PIN 5021 CALIPER
2.7	5	5021-0023	TIE ROD
2.8	10	1022-0116	HEX NUT - REGULAR; 5/8-11 UNC GR 18-8
2.9	4	1026-0824	COTTER PIN, 3/16 x 1 1/2, 18-8
2.10	2	5021-0101	SIDE MOUNT BRACKET, 5021 CALIPER
2.11	4	5021-0006	HINGE BLOCK
2.12	2	5021-0021	SHOE PIN 5021 CALIPER
2.13	4	1026-0516	COTTER PIN; 1/8 DIA X 1 LG. 18-8
2.14	2	5021-0012	BALANCE LINK NO. 2 5021 CALIPER
2.15	4	1002-0808	SCREW, SKT HEAD, 10-24 X 1/2, 18-8 SS, ASTM F837
2.16	4	1023-0108	WASHER FLAT #10 TYPE A SS
3	1	6212	SPRING APPLIED ACTUATOR, 6212
4	8	1002-1216	SCREW, SKT HD CAP, 3/8-16 UNC X 1, SS
5	2	6112-0010-L	PIN, LONG, 6112 ACTUATOR
6	4	1026-0312	COTTER PIN 3/32 X 3/4 SS

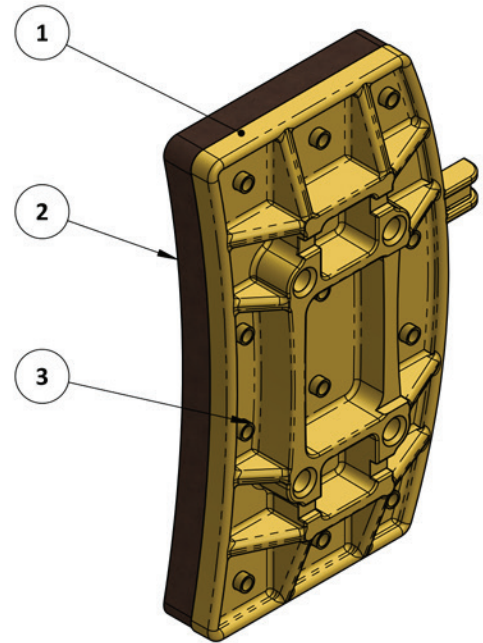
PARTS LISTING

6212 Actuator



ITEM	QTY.	PART NUMBER	6212 DESCRIPTION
1	1	6212-0001	SPRING HOUSING
2	1	6212-0002	PISTON HOUSING
3	1	6212-0003-K	PISTON, CHROMED
4	1	6212-PHB	PISTON HOUSING BUSHING
5	1	6212-0004	MOUNTING BRACKET FOR LEVER
6	1	6212-0005-L	CLEVIS, LONG, 5/8 UNC X 3/8 PIN
7	1	6212-0005-S	CLEVIS, SHORT, 5/8 UNC X 3/8 PIN
8	8	1201-0035	SPRING: 4412 HEAVY BLACK
9	6	6212-0016	SPRING GUIDE (HEAVY)
10	1	1022-0216	NUT, JAM, 5/8-11, SS
11	8	1001-1136	SCREW, HX HD CAP, 5/16-18 X 2-1/4, 18-8
12	8	1001-1112	SCREW HEX HEAD, 5/16-18 X 3/4, 18-8
13	1	6212-RK	SEAL KIT, 6212 ACTUATOR

5021-LS Caliper Brake



ITEM	QTY.	PART NUMBER	5021-LS DESCRIPTION
1	1	5021-0005	SHOE 5021 CALIPER
2	1	5021-0147	LINING 5021 1/2 in NON-SPARKING
3	12	1033-1007	RIVET, 1/4 X 7/16 (10-7), BRASS

Note: Parts lists are applicable to standard models only.