

5024-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 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-SH	9480 lbs [41.7 kN]	840 psi [57.9 bar]	630 psi [43.4 bar]
5024-SH100	8470 lbs [37.7 kN]	710 psi [49 bar]	550 psi [37.9 bar]
5024-SH80	7640 lbs [34.0 kN]	620 psi [42.8 bar]	480 psi [33.1 bar]
5024-SH75	6500 lbs [29.0 kN]	540 psi [37.2 bar]	400 psi [27.6 bar]

Maximum Pressure:	2000 psi	[138 bar]
Port Size:	-5 ORB	
Actuator Volume:	6.3 in ³	[103 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 ² :	unlimited	
Total Brake Pad Area:	69 in ²	[448 cm ²]
Weight:	141 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 disc)

= 0.38 (steel disc)

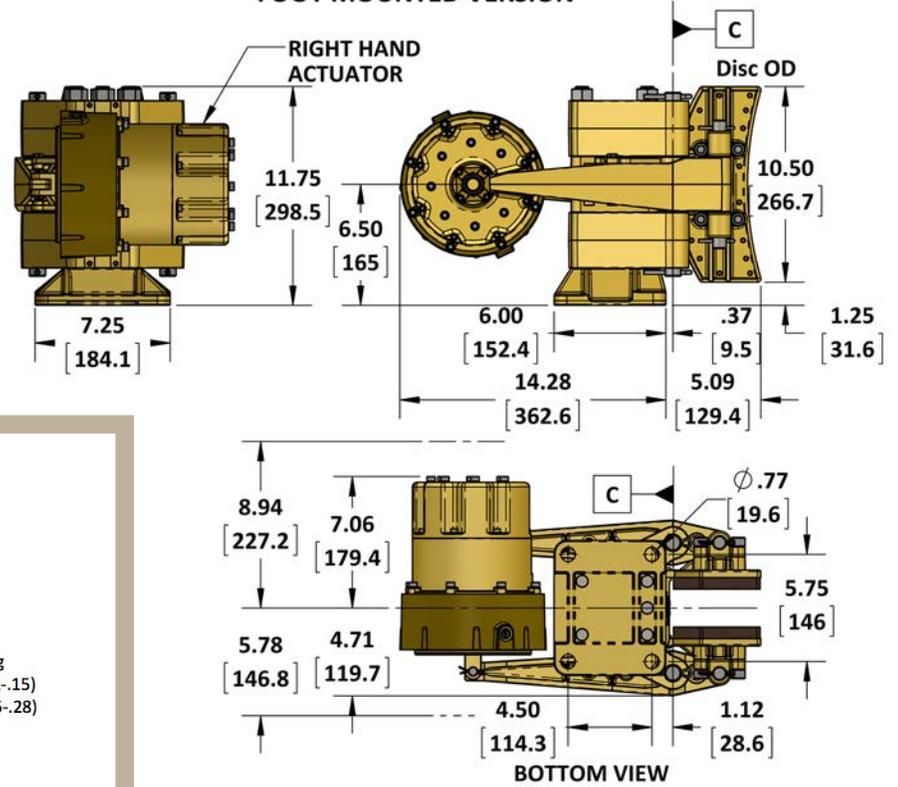
OD = brake disc diameter (in)

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

5024- [] - [] - [] - [] - []

Added options
LS = limit switch

Friction material
(blank) = standard
N = non-sparking
C = low COF (.12-.15)
E = mid COF (.25-.28)

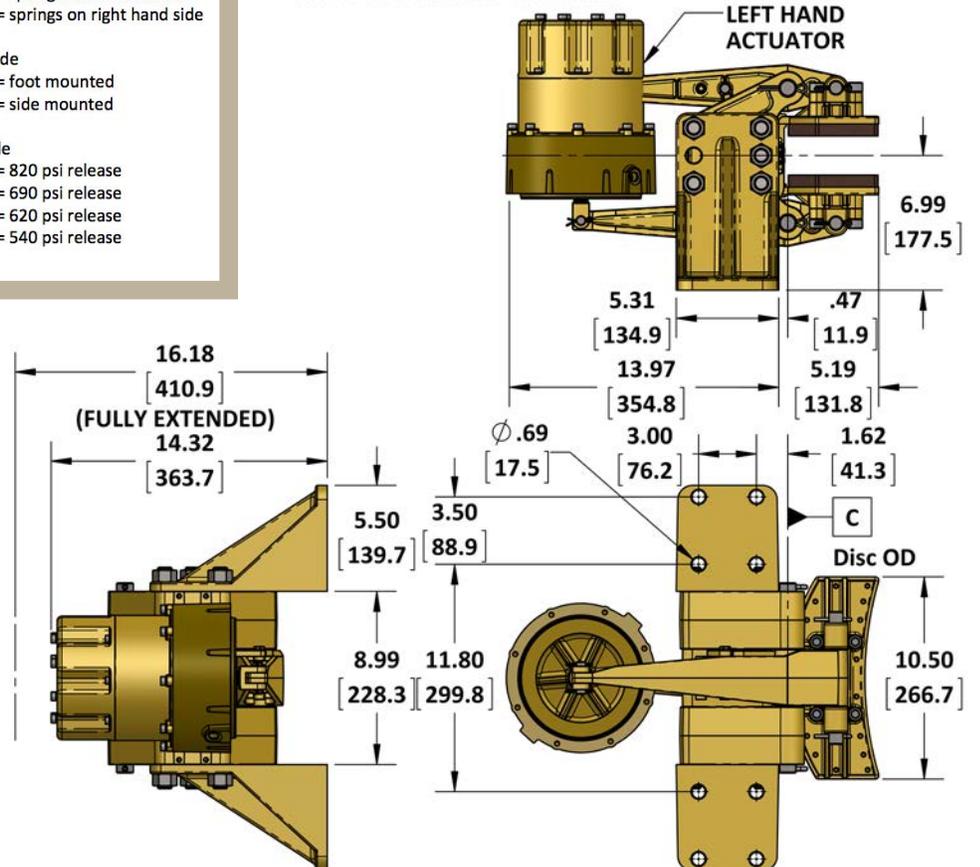
Disc thickness
(blank) = 2.000 in
175 = 1.750 in
150 = 1.500 in
125 = 1.250 in
100 = 1.000 in

Actuator handing
LH = springs on left hand side
RH = springs on right hand side

Mounting code
(blank) = foot mounted
W = side mounted

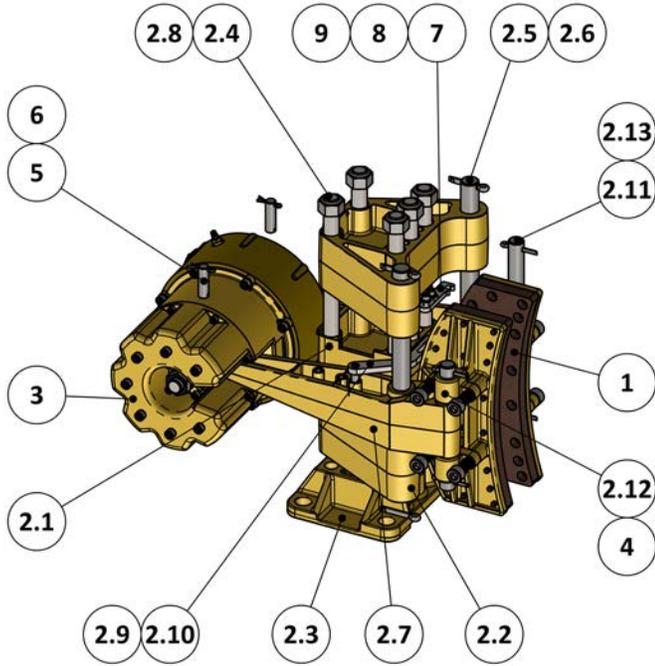
Actuator code
SH = 820 psi release
SH100 = 690 psi release
SH80 = 620 psi release
SH75 = 540 psi release

SIDE MOUNTED VERSION

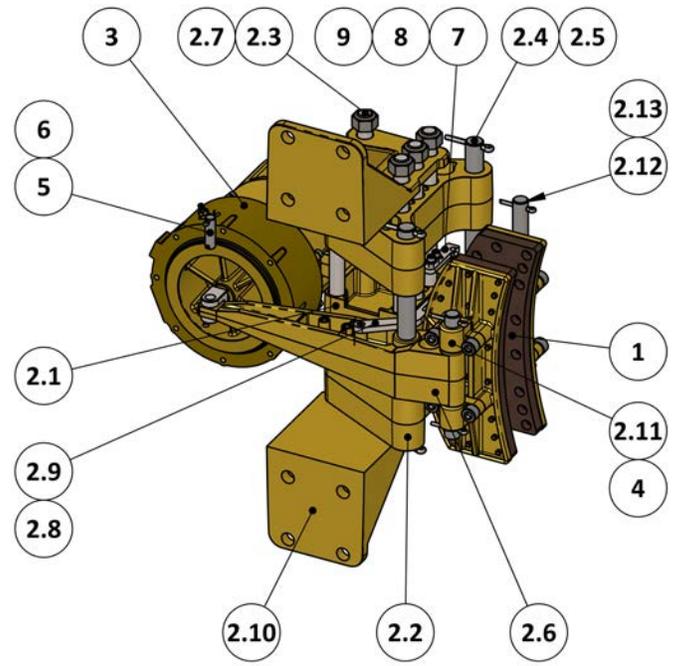


PARTS LISTING

5024-SH Caliper Brake



5024-SHW Caliper Brake

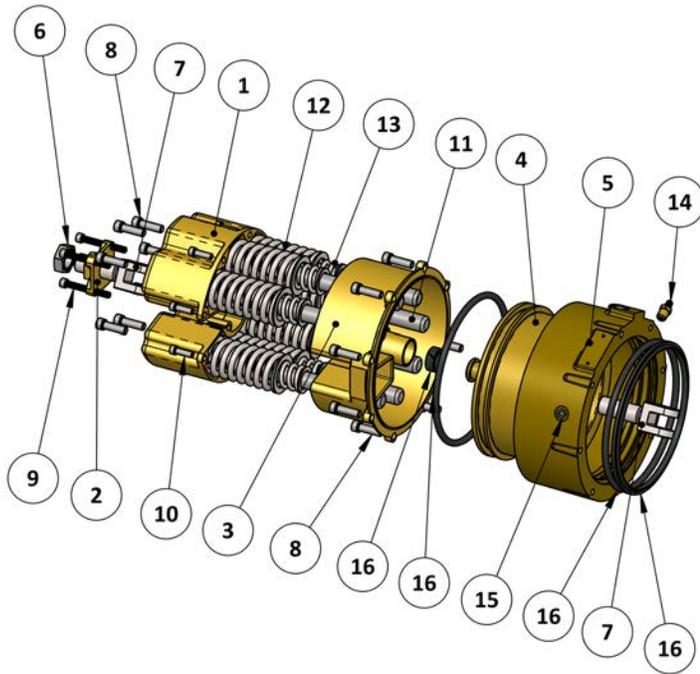


ITEM	QTY.	PART NUMBER	5024-SH DESCRIPTION
1	2	5024-LS	SHOE ASSEMBLY, 5024 CALIPER, 5/8" K5
2	1	5024-SUB-A	5024 CALIPER SUB-ASSEMBLY
2.1	1	5024-0003	SPACER, 5024 CALIPER
2.2	2	5024-0002	SADDLE, 5024 CALIPER
2.3	1	5024-0001	FOOT, 5024 CALIPER
2.4	5	5024-0023	TIE ROD, 5024/25 CALIPERS
2.5	2	5024-0022	SADDLE 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, 3/16 x 1 1/2, 18-8
3	1	6232-H115	ACTUATOR ASSEMBLY, SPRING/ HYDRAULIC
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	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
9	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW

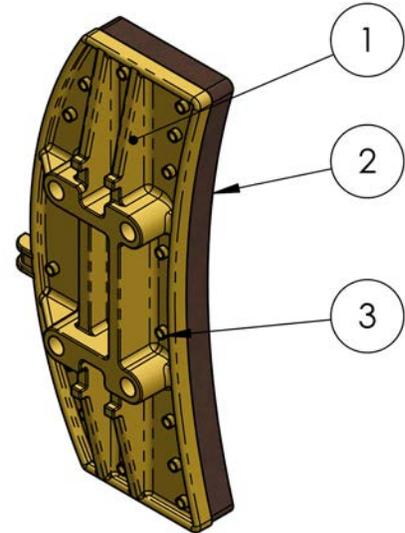
ITEM	QTY.	PART NUMBER	5024-SHW DESCRIPTION
1	2	5024-LS	SHOE ASSEMBLY, 5024 CALIPER, 5/8" K5
2	1	5024-SUB-AW	SUB-ASSEMBLY, 5024 CALIPER
2.1	1	5024-0003	SPACER, 5024 CALIPER
2.2	2	5024-0002	SADDLE, 5024 CALIPER
2.3	5	5024-0023	TIE ROD, 5024/25 CALIPERS
2.4	2	5024-0022	SADDLE PIN, 5024/25 CALIPERS
2.5	4	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
2.10	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, 3/16 x 1 1/2, 18-8
3	1	6232-H115	ACTUATOR ASSEMBLY, SPRING/ HYDRAULIC
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	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
9	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW

PARTS LISTING

6232-H115 Actuator



5024-LS



ITEM	QTY.	PART NUMBER	6232-H115 DESCRIPTION
1	1	6230-0001	SPRING HOUSING, COVER
2	1	6230-0004	CLEVIS BRACKET, 6230 & 6232 ACTUATOR
3	1	6230-0101	SPRING HOUSING, CENTRE
4	1	6232-0202	PISTON, 6" ROD, 6232 ACTUATOR
5	1	6232-0201	CYLINDER, 6" ROD, 6232 ACTUATOR
6	1	1022-0217	NUT, JAM, 3/4-10 UNC, SS
7	2	6230-0005	CLEVIS, 3/4 UNC X 0.50 DIA
8	15	1002-1116	SCREW, SCKT HD, 5/16-18 UNC X 1, SS
9	4	1002-1032	SCREW, SCKT HD, 1/4-20 UNC X 2, SS
10	8	1002-1012	SCREW, CAP, SKT HD, 1/4UNC X3/4, GR 18-8
11	7	6230-0012	SPRING GUIDE - 3/4 in
12	7	1201-0158	SPRING, COMP, 1.68 OD X .250 WIRE X 9.5L
13	7	1201-0159	SPRING, COMP, 1.15 OD X .177 WIRE X 9.5L
14	1	7039-5921	BLEED SCREW, 1/8 NPT
15	1	7039-5671	PLUG, 1/8 NPT, SKT HD, S/S
16	1	6232-HD-RK	SEAL KIT, 6232-HD & 6232-H115 ACTUATORS

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.