

5025-SH | SPRING APPLIED / HYDRAULIC RELEASED CALIPER DISC BRAKE

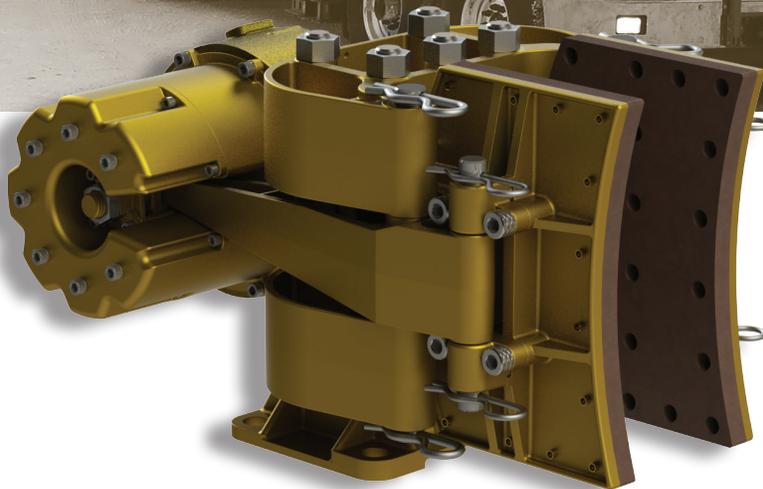


KEY BENEFITS

Bronze & stainless steel construction

Rapid brake pad change out

Well matched to Kobelt's standard range of 4"x7" 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
5025-SH	9640 lbs [42.9 kN]	820 psi [57 bar]	640 psi [44 bar]
5025-SH100	8700 lbs [38.7 kN]	690 psi [48 bar]	560 psi [39 bar]
5025-SH80	7770 lbs [34.6 kN]	620 psi [43 bar]	490 psi [34 bar]
5025-SH75	6490 lbs [28.9 kN]	540 psi [37 bar]	400 psi [28 bar]

Maximum Pressure: 2000 psi [138 bar]

Port Size: -5 ORB

Actuator Volume: 6.3 in³ [103 cc]

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

Disc Thickness: 4 in [102 mm]

Max Running Clearance: .06 in [1.5 mm]

Minimum Disc Diameter: 25 in [635 mm]

Maximum Disc Diameter²: 86 in [2184 mm]

Total Pad Area: 132 in² [851 cm²]

Weight: 170 lbs [77.1 kg]

¹Torque:

$$T_B = 2F_N\mu \left(\frac{OD-7.70}{24} \right)$$

Where:

T_B = brake torque (ft-lbf)

F_N = normal force (lbf)

μ = coefficient of friction

= 0.38 (ferrous)

= 0.35 (nonferrous)

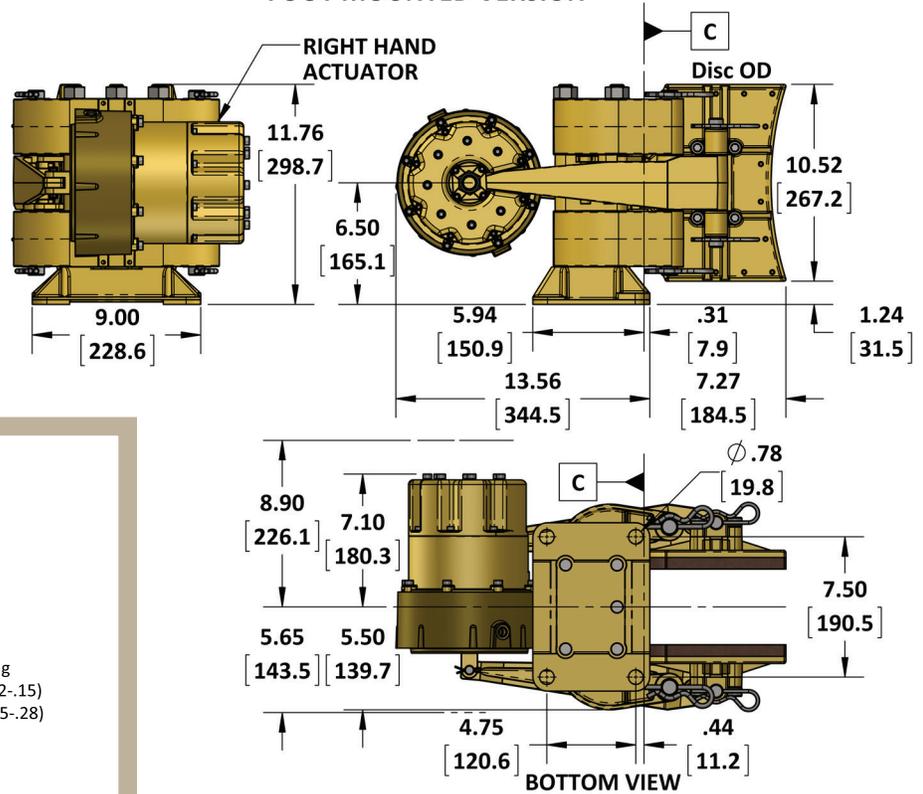
Friction values are theoretical and for reference only. They are based on properly bedded and burnished linings acting on a rotor at 20°C, manufactured to required specifications.

OD = brake disc diameter (in)

²Requires a minimum 7.48 in [190 mm] wide face

SPECIFICATIONS

FOOT MOUNTED VERSION



Brake Model Code Key

5025- [] - [] - [] - [] - []

Added options
LS = limit switch

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

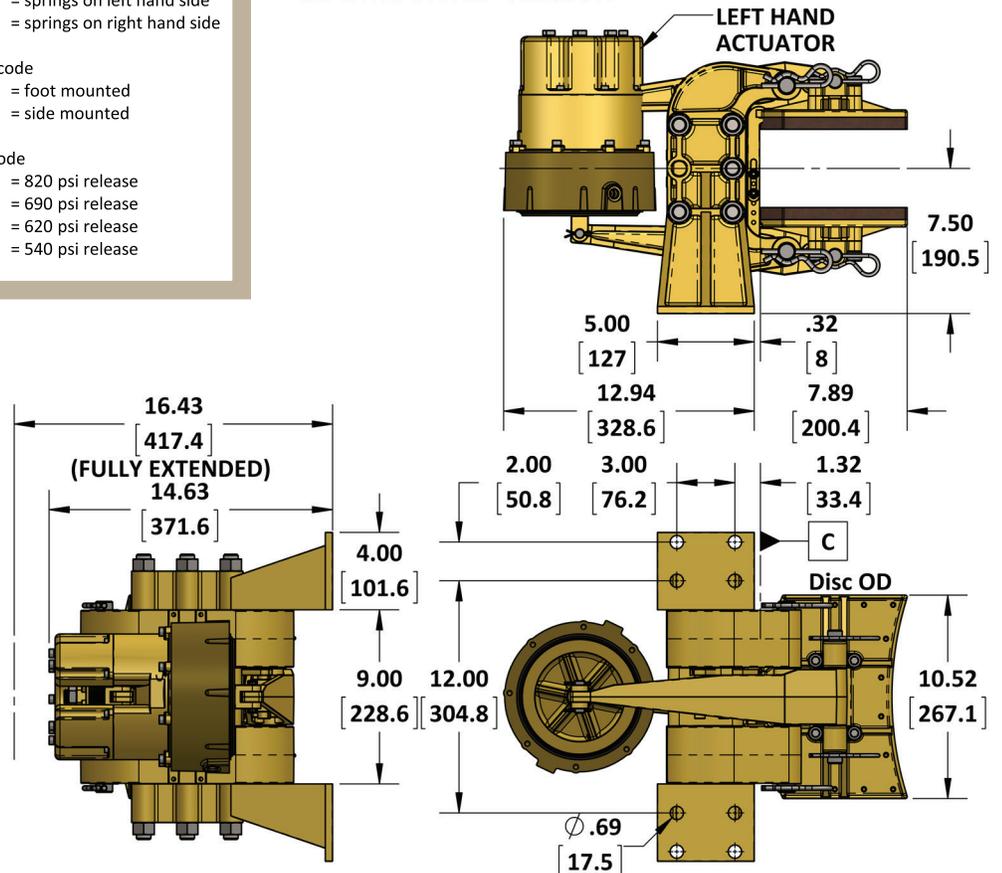
Disc thickness
(blank) = 4.000 in
350 = 3.500 in
300 = 3.000 in
250 = 2.500 in
200 = 2.000 in

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

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

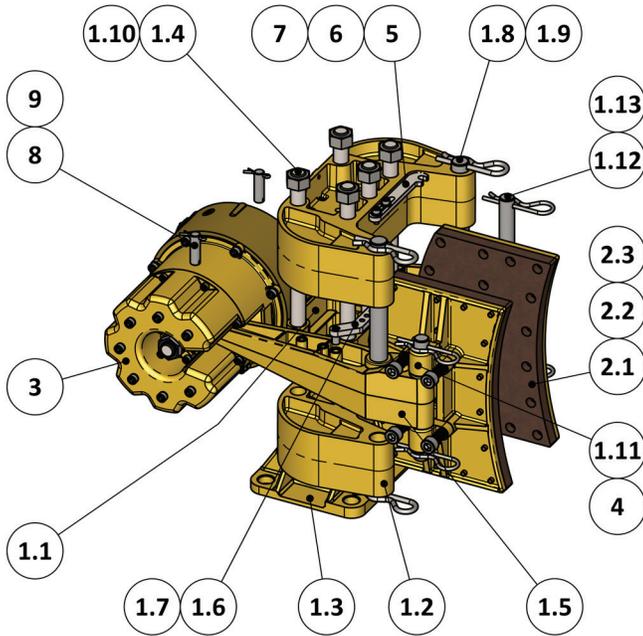
Actuator code
SH = 820 psi release
SH100 = 690 psi release
SH80 = 620 psi release
SH75 = 540 psi release

SIDE MOUNTED VERSION

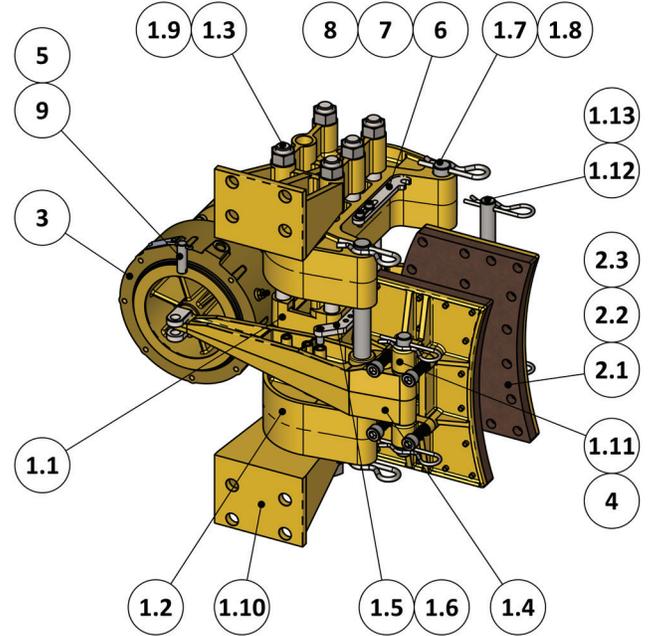


PARTS LISTING

5025-SH Caliper Brake



5025-SHW Caliper Brake

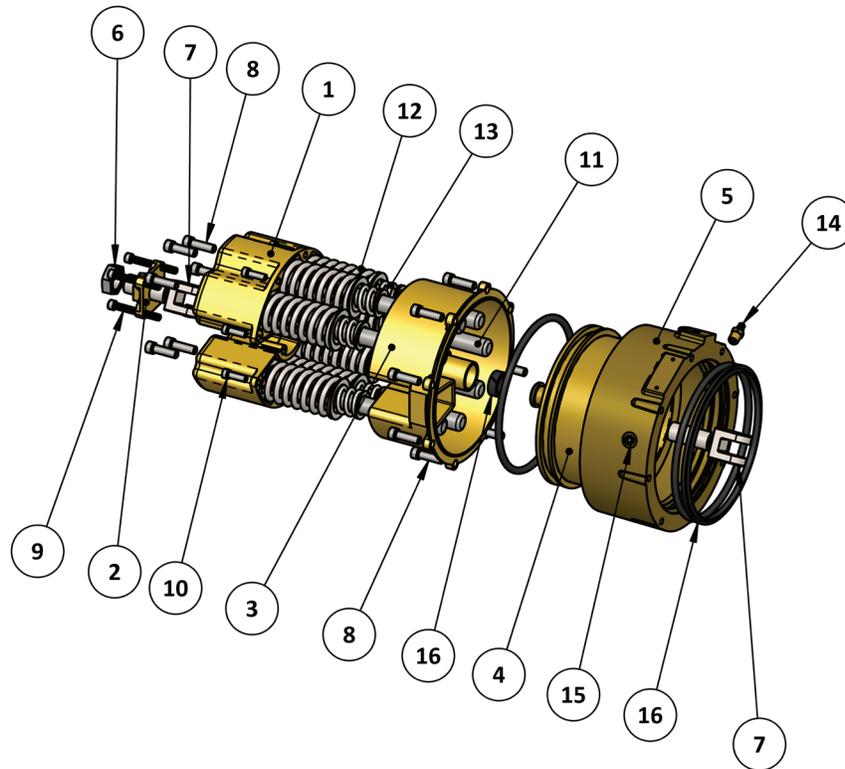


ITEM	QTY.	PART NUMBER	5025-SH DESCRIPTION
1	1	5025-SUB	SUB-ASSEMBLY, 5025 CALIPER
1.1	1	5026-0003	SPACER, 5026 CALIPER
1.2	2	5025-0002	SADDLE, 5025 CALIPER
1.3	1	5025-0001	BRAKE FOOT, 5025 CALIPER
1.4	5	5024-0023	TIE ROD, 5024/25 CALIPERS
1.5	2	5024-0004	LEVER, 5024 CALIPER
1.6	2	5025-0011	BALANCING LINK, PIVOT END
1.7	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
1.8	2	5024-0022	SADDLE PIN, 5024/25 CALIPERS
1.9	4	1039-0470	PIN, HAIRPIN COTTER, 1/4 X 4-1/4, STEEL
1.10	5	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
1.11	4	5024-0006	PIVOT BLOCK, 5024 CALIPER
1.12	2	5024-0021	SHOE PIN, 5024/25 CALIPERS
1.13	4	1039-0352	HITCH PIN, 5/16 X4, STEEL
2	2	5025-LS	SHOE ASSEMBLY, 5025 CALIPER
2.1	1	5025-0007	LINING, 5025 CALIPER, 5/8" K5
2.2	1	5025-0005	SHOE, 5025 CALIPER
2.3	22	1033-1007	RIVET, 1/4 X 7/16 (10-7), BRASS
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	5025-0012	BALANCING LINK, FORK END, 5025 CALIPER
6	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
7	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW
8	2	6230-0010	CLEVIS PIN, 1/2" DIA
9	4	1026-0516	COTTER PIN, 1/8" X 1", SS

ITEM	QTY.	PART NUMBER	5025-SHW DESCRIPTION
1	1	5025-SUB-W	SUB-ASSEMBLY, SIDE MOUNT
1.1	1	5026-0003	SPACER, 5026 CALIPER
1.2	2	5025-0002	SADDLE, 5025 CALIPER
1.3	5	5025-0023-W	TIE ROD, SIDEWALL MOUNT, 5025 CALIPER
1.4	2	5024-0004	LEVER, 5024 CALIPER
1.5	2	5025-0011	BALANCING LINK, PIVOT END
1.6	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
1.7	2	5024-0022	SADDLE PIN, 5024/25 CALIPERS
1.8	4	1039-0470	PIN, HAIRPIN COTTER, 1/4 X 4-1/4, STEEL
1.9	10	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
1.10	2	5026-0060	BRACKET, SIDEWALL MOUNT, 5025/5026
1.11	4	5024-0006	PIVOT BLOCK, 5024 CALIPER
1.12	2	5024-0021	SHOE PIN, 5024/25 CALIPERS
1.13	4	1039-0352	HITCH PIN, 5/16 X4, STEEL
2	2	5025-LS	SHOE ASSEMBLY, 5025 CALIPER
2.1	1	5025-0007	LINING, 5025 CALIPER, 5/8" K5
2.2	1	5025-0005	SHOE, 5025 CALIPER
2.3	22	1033-1007	RIVET, 1/4 X 7/16 (10-7), BRASS
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	4	1026-0516	COTTER PIN, 1/8" X 1", SS
6	2	5025-0012	BALANCING LINK, FORK END, 5025 CALIPER
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	2	6230-0010	CLEVIS PIN, 1/2" DIA

PARTS LISTING

6232-H115 Actuator



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

Note: Parts lists are applicable to standard models only.