5300 SERIES | SPRING APPLIED/HYDRAULIC RELEASED CALIPER DISC BRAKE



SPECIFICATIONS

PART NO.	NORMAL FORCE ¹	MIN DISC DIA.	SHOE WIDTH	RUNNING CLEARANCE ²	PRESSURES		RELEASE
					RELEASE	HOLD-OFF	VOLUME
5303-SH	2,450 lbs	9.84 in	2.95 in	.0204 in	1360 psi	1170 psi	0.2 in ³
	[10.9 KN]	[250 mm]	[75 mm]	[0.5 -1.0 mm]	[94 bar]	[81 bar]	[3.5 cc]
5305-SH	17,530 lbs	19.69 in	5.12 in	.0204 in	2000 psi	1810 psi	1.0 in ³
	[78.0 KN]	[500 mm]	[130 mm]	[0.5 - 1.0 mm]	[138 bar]	[125 bar]	[17 cc]
5308-SH	37,210 lbs	39.37 in	7.87 in	.0408 in	1970 psi	1790 psi	4.1 in ³
	[165.5 KN]	[1000 mm]	[200 mm]	[1.0-2.0 mm]	[136 bar]	[124 bar]	[68 cc]
5310-SH	66,310 lbs	49.21 in	9.84 in	.0612 in	1970 psi	1800 psi	10.6 in ³
	[295.1 KN]	[1250 mm]	[250 mm]	[1.5 - 3.0 mm]	[136 bar]	[124 bar]	[174 cc]
5312-SH	90,960 lbs	59.06 in	11.81 in	.0612 in	2030 psi	1720 psi	14.6 in ³
	[404.8 KN]	[1500 mm]	[300 mm]	[1.5 - 3.0 mm]	[140 bar]	[119 bar]	[239 cc]

Maximum Pressure: 3000 psi [207 bar]

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

¹Torque: $T_B = 2F_N \mu \left(\frac{OD - W_S}{24} \right)$

Where:

T_B = brake torque (ft-lbf)

F_n = normal force (lbf)

 μ = coefficient of friction

= 0.38 (steel disc)

OD = brake disc diameter (in)

Ws = shoe width

²Per side

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.

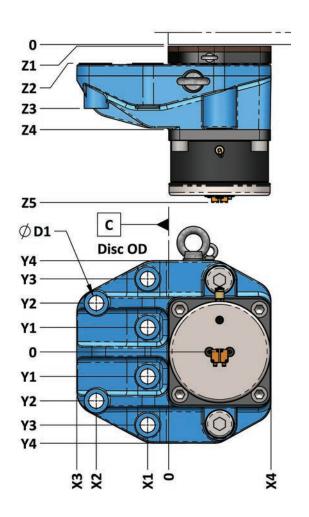
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PARTS LISTING



PART NO.	5303-SH	5305-SH	5308-SH	5310-SH	5312-SH
X1	0.65 in	0.98 in	1.57 in	1.97 in	2.36 in
	[16.5 mm]	[25 mm]	[40 mm]	[50 mm]	[60 mm]
X2	2.26 in	3.58 in	5.51 in	6.89 in	8.27 in
	[57.5 mm]	[91 mm]	[140 mm]	[175 mm]	[210 mm]
Х3	3.05 in	4.86 in	7.48 in	9.35 in	11.22 in
	[77.5 mm]	[124 mm]	[190 mm]	[238 mm]	[285 mm]
Х4	2.95 in	5.12 in	7.87 in	9.84 in	11.81 in
	[75 mm]	[130 mm]	[200 mm]	[250 mm]	[300 mm]
Y1	.73 in	1.22 in	1.87 in	2.34 in	2.81 in
	[18.5 mm]	[31 mm]	[47.5 mm]	[59.5 mm]	[71.5 mm]
Y2	1.48 in	2.44 in	3.74 in	4.69 in	5.63 in
	[37.5 mm]	[62 mm]	[95 mm]	[119 mm]	[143 mm]
Y3	2.32 in	3.74 in	5.75 in	7.28 in	8.74 in
	[59 mm]	[95 mm]	[146 mm]	[185 mm]	[222 mm]
Y4	2.95 in	4.92 in	7.19 in	9.15 in	11.02 in
	[75 mm]	[125 mm]	[183 mm]	[233 mm]	[280 mm]
Z1	.02 in	.02 in	.04 in	.06 in	.06 in
	[0.5 mm]	[0.5 mm]	[1.0 mm]	[1.5 mm]	[1.5 mm]
Z2	0.70 in	1.10 in	1.44 in	1.75 in	1.95 in
	[17.9 mm]	[28 mm]	[36.7 mm]	[44.5 mm]	[49.6 mm]
Z3	2.20 in	3.40 in	4.91 in	6.05 in	7.13 in
	[56 mm]	[86 mm]	[125 mm]	[154 mm]	[181 mm]
Z4	3.20 in	5.17 in	6.59 in	8.28 in	9.74 in
	[81 mm]	[131 mm]	[167 mm]	[210 mm]	[247 mm]
Z5	6.83 in	10.29 in	12.5 in	15.45 in	17.62 in
	[173 mm]	[261 mm]	[318 mm]	[393 mm]	[448 mm]
D1	7/16 in	5/8 in	1-1/8 in	1-1/2 in	1-3/4 in
	[M10]	[M16]	[M27]	[M36]	[M42]
PORT	-2 ORB	-6 ORB	-8 ORB	-8 ORB	-12 ORB
WEIGHT	40 lbs	173 lbs	521 lbs	1115 lbs	1759 lbs
	[18 kg]	[78 kg]	[237 kg]	[506 kg]	[798 kg]

