SUPERLITE FSLI4 AND FSLI4/ST DIFFERENTIAL PISTON BORE CALIPER

Caliper Highlights:

FSLI4 and **FSLI4/ST** calipers provide the pad wear performance advantages of differential bore pistons with the option for ultimate heat protection using **Thermlock®** pistons in the ST models. Differential piston bores compensate for leading-edge mechanical loading and temperature variances across the pad face to reduce pad taper wear in sustained high temperature applications. **Thermlock®** pistons in the ST models block heat transfer from the pads and reduce temperatures in the caliper, fluid, and seals by up to 25% over standard stainless steel pistons. These are the go-to calipers for all types sustained hard braking on dirt and asphalt ovals and a wide range of off-road, rally and road course applications.

These new **FSLI4** and **FSLI4/ST** models use the latest innovation to the **Superlite** family of calipers. They have been redesigned with internal fluid ports that eliminate the external fluid cross-over tubes. The transfer tube has been replaced with two additional bleed screw assemblies which allow this group of right and left hand oriented differential piston bore calipers to be mounted in either a leading or trailing position.

The most noteworthy feature of all the **FSL** caliper models is the exceptional strength and reduced weight of the forging. With assembled weights just at 4.4 pounds, the caliper body design in itself is a product of computer generated solid modeling and stress analysis technology. Each caliper features closed end bridges with a radial transition down to the main body and piston bore housings. The elimination of machined steps and sharp shoulders in this critical area provides a measurable increase in overall body strength and resistance to deflection under load.

Every **FSL** body is stress-flow forged from a premium grade aluminum alloy billet. Stress-flow forging realigns the metal's internal grain structure to flow within the contour of the caliper body. This process eliminates the stresses and interruptions to the internal grain structure that occur when machining a straight block billet.

FSL calipers use high strength steel main bridge bolts in tension and a supplemental center bridge bolt to provide maximum resistance and strength against deflection and body separation under load. The center bridge support also provides positive pad retention with quick access when it's time for service. Clamping force, structural deflection, and volume displacement tests have proven the superior strength and efficiency of the **FSL**. Simply stated, there is no better way to build a stronger or more efficient one or two-piece aluminum caliper body at equal or lower weight.

FSL calipers feature all of Wilwood's latest refinements and proven performance features including replaceable SRS stainless steel bridge plates. SRS plates extend caliper life by preventing wear at the bridge abutments otherwise caused by pad edge gouging. Spring tension in the SRS plates also eliminates pad rattle and helps to dampen the vibration harmonics that can contribute to squeal under braking. Other standard Wilwood features include high-temperature, square faced o-ring seals for positive sealing, controlled piston retraction, and long service life in high heat conditions. Machined stainless steel pistons are used in the standard models to resist corrosion, retard heat transfer, and eliminate backside deflection under pressure. Two-piece bleed screw assemblies provide long, reliable service life and are easily replaced if necessary.

The 1.88" / 1.75" differential piston bore combination provides the largest effective clamping force area of any caliper in the **Superlite** family. All **FSL** calipers use type 7420 brake pads with the full range of PolyMatrix and Smart Pad compounds being available to match brake response, temperature range, and wear rates to any driving style or condition.

ORDERING INFORMATION:

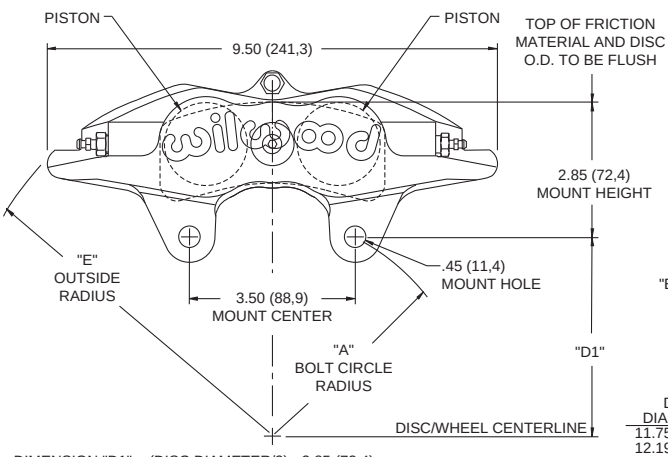
DIFFERENTIAL BORE CALIPER WITH THERMLOCK PISTONS

BORE SIZE	DISC WIDTH	RH	LH
1.88 / 1.75" 47,8 / 44,5 MM	1.25" 31,8 mm	120-11331	120-11332

DIFFERENTIAL BORE CALIPER WITH STAINLESS STEEL PISTONS

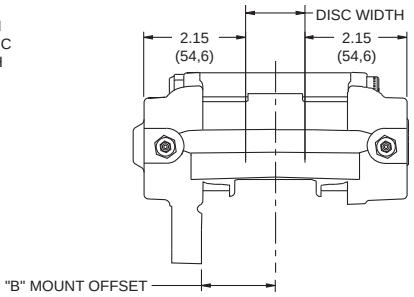
BORE SIZE	DISC WIDTH	RH	LH
1.88 / 1.75" 47,8 / 44,5 MM	1.25" 31,8 MM	120-11329	120-11330
1.88 / 1.75" 47,8 / 44,5 MM	.81" 20,1mm	120-11137	120-11138

FSLI CALIPER, MOUNTING DIMENSIONS:



DIMENSION "D1" = (DISC DIAMETER/2) - 2.85 (72,4)

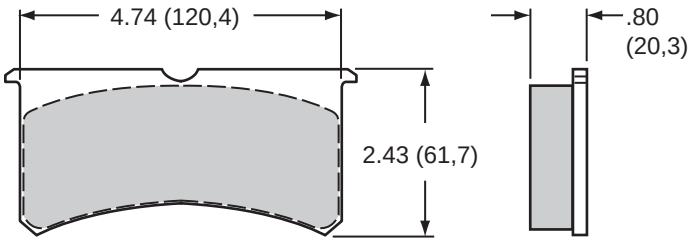
INLET FITTING: 1/8-27 NPT



DISC WIDTH	"B" MOUNT OFFSET
1.25 (31,8)	1.56 (39,6)
1.10 (27,9)	1.46 (37,1)
.81 (20,6)	1.34 (34,0)

DISC DIAMETER	"A" BOLT CIRCLE RADIUS	"E" OUTSIDE RADIUS
11.75 (298,5)	3.50 (88,9)	6.69 (169,9)
12.19 (309,6)	3.69 (93,7)	6.85 (174,0)
12.72 (323,1)	3.92 (99,6)	7.05 (179,1)
12.88 (327,2)	4.00 (101,6)	7.12 (180,8)
13.00 (330,2)	4.05 (102,9)	7.18 (182,4)

FSLI CALIPER, TYPE 7420 PAD DIMENSIONS AND ORDERING INFORMATION:



AXLE SET P/N	PAD TYPE / COMPOUND
15A - 5938K	7420 A PolyMatrix
15B - 5939K	7420 B PolyMatrix
15C - 6853K	7420 C PolyMatrix
15E - 6084K	7420 E PolyMatrix
15H - 8114K	7420 H PolyMatrix
15Q - 6829K	7420 Q PolyMatrix
150 - 8854K	7420 10 BP-10 Smart Pad
150 - 9416K	7420 20 BP-20 Smart Pad
150 - 9864K	7420 30 BP-30 Smart Pad
150 - 8323K	7420 SM For Titanium Rotor

ORDERING INFORMATION, USER SERVICEABLE COMPONENTS - FSLI4 AND FSLI4/ST MODELS:

CALIPER PART NO.	PISTON	SQ RING KIT (4 PK)	BLEED SCREW KIT (4 PK)	CROSSOVER TUBE KIT (4 PK)	SELF-BLEED TUBE (EA)	BRIDGE BOLT KIT	BRIDGE WEAR PLATE (EA)
120-11137	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-0627	—	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-11138	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-0627	—	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-11329	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-0627	—	—	230-7541	300-5922 (R/H) 300-5923 (L/H)
120-11330	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-0627	—	—	230-7541	300-5922 (R/H) 300-5923 (L/H)
120-11331	200-7550 (1.88") 200-7551 (1.75")	130-2427	220-0627	—	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-11332	200-7550 (1.88") 200-7551 (1.75")	130-2427	220-0627	—	—	230-7539	300-5922 (R/H) 300-5923 (L/H)

ORDERING INFORMATION, USER SERVICEABLE COMPONENTS - PREVIOUS FSL4 AND FSL4/ST MODELS:

CALIPER PART NO.	PISTON	SQ RING KIT (4 PK)	BLEED SCREW KIT (4 PK)	CROSSOVER TUBE KIT (4 PK)	SELF-BLEED TUBE (EA)	BRIDGE BOLT KIT	BRIDGE WEAR PLATE (EA)
120-9573	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-6069	190-5973	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-9574	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-6069	190-5973	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-9575	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-6069	190-5975	190-8310	230-7541	300-5922 (R/H) 300-5923 (L/H)
120-9576	200-7521 (1.88") 200-7531 (1.75")	130-2427	220-6069	190-5975	190-8310	230-7541	300-5922 (R/H) 300-5923 (L/H)
120-9577	200-7550 (1.88") 200-7551 (1.75")	130-2427	220-6069	190-5973	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-9578	200-7550 (1.88") 200-7551 (1.75")	130-2427	220-6069	190-5973	—	230-7539	300-5922 (R/H) 300-5923 (L/H)
120-9579	200-7550 (1.88") 200-7551 (1.75")	130-2427	220-6069	190-5975	190-8310	230-7541	300-5922 (R/H) 300-5923 (L/H)
120-9580	200-7550 (1.88") 200-7551 (1.75")	130-2427	220-6069	190-5975	190-8310	230-7541	300-5922 (R/H) 300-5923 (L/H)