

Competence creates Confidence.

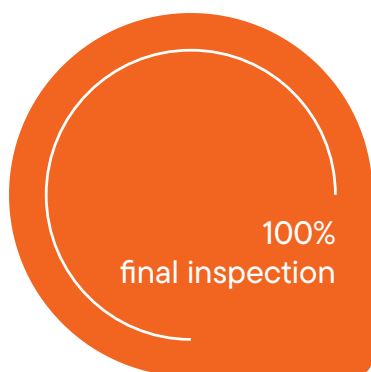


Model no. H3019

OUTSIDE CALIPER INSIDE CALIPER

ISO 3126

The outside caliper enables the wall thickness of pipes and fittings to be measured quickly and easily. With the help of the inside caliper, an internal three-point measurement can be carried out quickly and easily.



Standard features

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| ● Operating convenience thanks to good readability of the measurements | ● High reading accuracy |
| ● 100% final inspection | ● Calibration certificate |
| ● High-quality device components guarantee high reliability and a long service life | ● Safe storage in high-quality packaging |
| ● PC interface with digital version (available as an option) | |

Version OUTSIDE CALIPER INSIDE CALIPER		H3019-0034	H3019-0035	H3019-0036	H3019-0037
		Up to 20 mm			
Measurement application		Pipe wall measurement			
Digital measuring device		✓	-	✓	-
Analogue measuring device		-	✓	-	✓
Measuring span	mm	10	10	20	20
Measuring range	mm	0-10	0-10	0-20	0-20
Display range	mm	0 - 10.5	0 - 10.5	0 - 20.5	0 - 20.5
Scale division value / digit step value	mm	0.005	0.005	0.01	0.01
Min. bore diameter	mm	3	3	9	9
Measurement accuracy	mm	0.015	0.015	0.03	0.03
Repetition limits	mm	0.005	0.005	0.01	0.01
Measuring force min. - max.	N	1.2 - 1.6	1.2 - 1.6	1.2 - 1.6	1.2 - 1.6
Measuring contact shape movable	mm	Blade R 0.4	Blade R 0.4	Blade R 0.75	Blade R 0.75
Movable measuring contact length	mm	18.8	18.8	24.7	24.7
Fixed measuring contact form	mm	HM ball Ø 1.5	HM ball Ø 1.5	HM ball Ø 1.5	HM ball Ø 1.5
Fixed measuring contact length	mm	0.9	0.9	2.5	2.5
Max. probe arm length	mm	35	35	85	85
Device weight	g	240	170	270	200
Reference temperature	°C	20			
Operating temperature	°C	10 - 30			

Version OUTSIDE CALIPER		H3019-0038	H3019-0039	H3019-0040	H3019-0041	H3019-0042
		Up to 100 mm				
Measurement application		Pipe wall measurement				
Digital measuring device		√	√	-	√	-
Analogue measuring device		-	-	√	-	√
Measuring span	mm	30	50	50	100	100
Measuring range	mm	0 - 30	0 - 50	0 - 50	0 - 100	0 - 100
Display range	mm	0 - 30.5	0 - 50.5	0 - 50.5	0 - 101	0 - 101
Scale division value / digit step value	mm	0.03	0.05	0.05	0.05	0.1
Measurement accuracy	mm	0.04	0.06	0.05	0.15	0.15
Repetition limits	mm	0.02	0.04	0.025	0.1	0.1
Measuring force min. - max.	N	0.9 - 1.6	0.8 - 1.7	0.8 - 1.7	0.8 - 1.8	0.8 - 1.8
Measuring contact shape movable	mm	Blade R 0.75	Blade R 0.75	Blade R 0.75	HM ball Ø 5.0	HM ball Ø 5.0
Movable measuring contact length	mm	30	30	30	35	50
Fixed measuring contact form	mm	HM ball Ø 3.0	HM ball Ø 3.0	HM ball Ø 3.0	HM ball Ø 5.0	HM ball Ø 5.0
Fixed measuring contact length	mm	4.4	4.6	4.6	15	15
Max. probe arm length	mm	116	169	169	382	382
Device weight	g	410	460	400	660	600
Reference temperature	°C	20				
Operating temperature	°C	10 - 30				

Version INSIDE CALIPER		H3019-0043	H3019-0044	H3019-0045	H3019-0046
Measurement application			3-point measurement		
Digital measuring device		√	√	√	√
Measuring span	mm	7	10	15	20
Measuring range	mm	7 -14	10 -20	15 - 30	25 - 45
Display range	mm	6.8 - 14.5	9.8 - 20.5	14.5 - 30.5	24.5 - 45.5
Digit increment value	mm	0.002	0.005	0.005	0.005
Measurement accuracy	mm	0.01	0.02	0.02	0.02
Repetition limits	mm	0.004	0.01	0.01	0.01
Measuring force min. - max.	N	1.0 - 1.4	1.1 - 1.6	1.1 - 1.6	1.1 - 1.6
Measuring contact shape movable	mm	HM ball Ø 0.6	HM ball Ø 1.0	HM ball Ø 1.0	HM ball Ø 1.0
Movable measuring contact length	mm	2.5	3.7	5.8	7.3
Fixed measuring contact form	mm	HM ball Ø 0.6	HM ball Ø 1.0	HM ball Ø 1.0	HM ball Ø 1.0
Fixed measuring contact length	mm	2.4	4.6	5.5	6
Max. measuring contact thickness	mm	Ø 1.2	Ø 1.6	Ø 1.6	Ø 1.6
Max. probe arm length	mm	34	75	77	84
Device weight	g	250	270	275	255
Reference temperature	°C	20			
Operating temperature	°C	10 - 30			

Version INSIDE CALIPER		H3019-0047	H3019-0048	H3019-0049	H3019-0050
Measurement application			3-point measurement		
Digital measuring device		✓	✓	✓	✓
Measuring span	mm	20	20	20	20
Measuring range	mm	40 - 60	55 - 75	70 - 90	75 - 105
Display range	mm	39.5 - 60.5	45.5 - 75.5	69.5 - 91.0	84.5 - 105.0
Digit increment value	mm	0.005	0.005	0.005	0.005
Measurement accuracy	mm	0.02	0.02	0.02	0.02
Repetition limits	mm	0.01	0.01	0.01	0.01
Measuring force min. - max.	N	1.1 - 1.6	1.1 - 1.6	1.1 - 1.6	1.1 - 1.6
Measuring contact shape movable	mm	HM ball Ø 1.0	HM ball Ø 1.0	HM ball Ø 1.0	HM ball Ø 1.0
Movable measuring contact length	mm	12.2	12.2	12.2	12.2
Fixed measuring contact form	mm	HM ball Ø 1.0	HM ball Ø 1.0	HM ball Ø 1.0	HM ball Ø 1.0
Fixed measuring contact length	mm	6	6	6	6
Max. measuring contact thickness	mm	Ø 1.6	Ø 1.6	Ø 1.6	Ø 1.6
Max. probe arm length	mm	84	84	84	84
Device weight	g	270	270	275	305
Reference temperature	°C	20			
Operating temperature	°C	10 - 30			