

Testing Details, verifying spring assist castor operating range

Date of Test: 11/04/2019

Test operator: David Powell

Product Description: 4in spring loaded castor. 100dia x 50 poly on cast wheel

Test Methods & Apparatus: AS1961.2-2004 Castors and Wheels: Test Methods and Apparatus.

Test Location: Richmond Wheel & Castors 590 Clayton Rd, Clayton Sth, 3169, Victoria, Australia.

Dynamic Test Description:

Parameters	Value	Value	Value	Value	Value
Load	Static condition	100kg	150kg	200kg	250kg
Compressed height	14mm	9mm	7mm	5mm	2mm
Distance	0	0.5 km	0.5 km	0.5 km	0.5 km
Speed	0	1km/h	1km/h	1km/h	1km/h
Step height	0	3.75mm	3.75mm	3.75mm	3.75mm
Running Period Pause	0	1 min 1 min	1 min 1 min	1 min 1 min	1 min 1 min

Note: Same castor & wheel used each time.

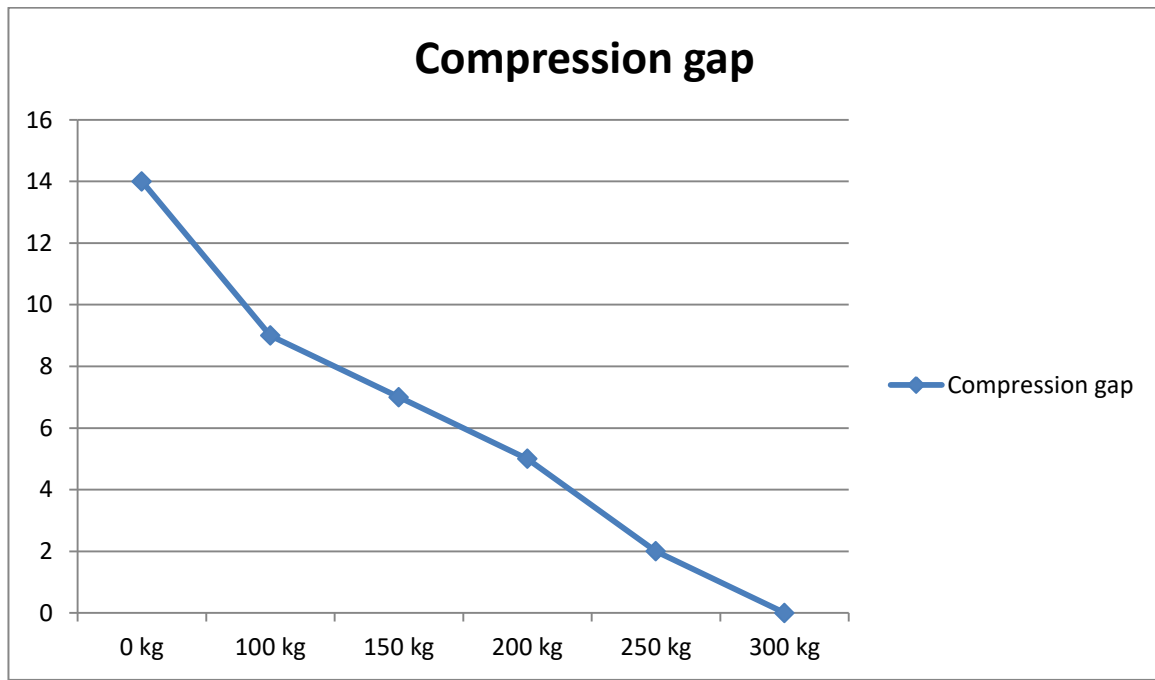


No load 14mm

100kg 9mm

200kg 5mm

250kg 2mm



Result:

Based on the findings, this castor has an operating range between 100kg to 200kg.

However, this castor is happy to operate above this range as the castor will go full compressed and will operate on the neoprene bump stop.

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