

Polycentric Hydraulic Knee with
Stance Flexion and Extension Assist

Part Nr./Ref: **CA603-PHY**

Suggested L Codes: L5814, L5845, L5848, L5850

Introduction

The Actua Knee Hydraulic is a polycentric hydraulic knee joint with stance flexion feature and interchangeable spring extension assist. The stance flexion can be tuned infinitely, which ensures optimal comfort during loading response. The patented horizontal hydraulic cylinder contributes to the compact size of this hydraulic knee joint. In addition, maintenance is easy with the innovative oil-refill system.



Technical Specifications

Height: 181 mm (7.125 inches)

Weight: 1035 g (2.25 lbs.)

Max. Flexion: 147 °

Stance Flexion: 12 °

Weight Limit: 136 Kg (300 lbs.)



Alignment

The weight line of the socket is intended to run through the upper-anterior axis of the knee as shown as a red vertical line in the figure.

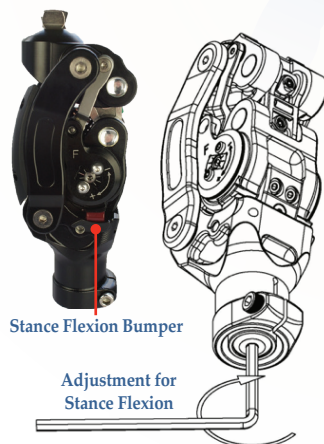
In order to increase the stability, prosthetists may shift the weight line more anteriorly to the upperanterior axis, which would also diminish the stance flexion.

Stance Flexion Adjustment

Adjusting the hex screw inside the distal tube clamp can infinitely tune the damping for stance flexion.

- Screwing in – higher damping
- Screwing out – lower damping

Firmer stance flexion bumpers could be installed for the patients over 100 kg upon customer's request.



An Extension of Yourself

Swing Adjustment

The swing performance can be adjusted via two set screws ("F" for flexion / "E" for extension) on each side of the knee, respectively. Flexion damping is recommended to be tuned before extension. Flexion and extension are separately adjustable.

- Screwing toward "+": higher damping
- Screwing toward "-": lower damping

Default setting of the damping:

F: Half turn back from the end

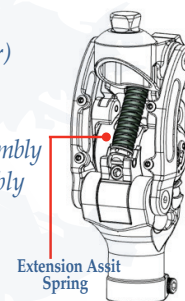
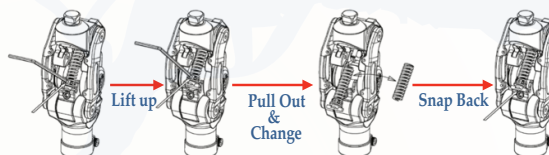
E: One turn back from the end



Extension Assist Adjustment

The stronger extension assist spring (blue color) is installed by default and the regular spring (yellow color) should be in the box. Prosthetists may interchange the extension assist spring by the following steps:

- Remove the front cap of the knee to expose the spring assembly
- Use allen key to lift up and pull out the spring assembly
- Install the preferred spring
- Snap the spring assembly back in place



Oil-Refill Maintenance

Maintenance for refilling oil is achieved by screwing in the oil-refill screw that will push the oil from the oil reservoir into the oil chambers.

