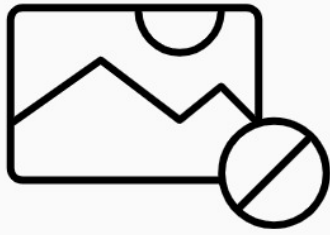


# SIL 40 ES-2RS Rod end



## Rod end

SKF rod ends consist of an eye-shaped head with an integral shank that forms a housing for a spherical plain bearing. These rod ends are used in applications such as hydraulic cylinders, steering links, tie rods, or anywhere a precision articulation joint is required. SKF provides both rod ends that require maintenance and rod ends that are maintenance-free.

- Bearing housing combination for simple installation
- Various designs for individual assemblies
- Many sliding contact surface combinations
- Available with female or male left- or right-hand thread or with a welding shank

## Overview

## Dimensions

|  |        |
|--|--------|
| Bore diameter, bearing inner ring          | 40 mm  |
| Outside diameter, housing eye              | 94 mm  |
| Width, bearing inner ring                  | 28 mm  |
| Thread designation                         | M 42x3 |
| Width, housing eye                         | 24 mm  |
| Centre height, housing (from end of shank) | 145 mm |
| Housing length, total                      | 194 mm |

## Performance

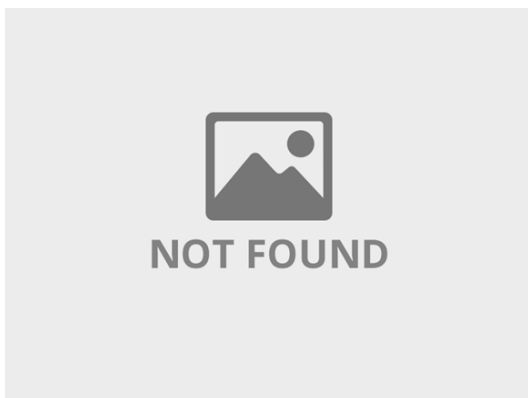
|                           |        |
|---------------------------|--------|
| Basic dynamic load rating | 100 kN |
| Basic static load rating  | 166 kN |

## Properties

|                                     |                         |
|-------------------------------------|-------------------------|
| Sliding contact surface combination | Steel/steel, standard   |
| Material, housing                   | Steel                   |
| Material, inner ring                | Bearing steel           |
| Material, outer ring                | Bearing steel           |
| Maintenance                         | Relubrication required  |
| Attachment feature, rod end shank   | Left-hand female thread |
| Sealing                             | Seal on both sides      |
| Sealing type                        | Double-lip              |

# Technical Specification

|                                     |                         |
|-------------------------------------|-------------------------|
| Maintenance                         | Relubrication required  |
| Sliding contact surface combination | Steel/steel, standard   |
| Material, inner ring                | Bearing steel           |
| Material, outer ring                | Bearing steel           |
| Sealing                             | Seal on both sides      |
| Sealing type                        | Double-lip              |
| Attachment feature, rod end shank   | Left-hand female thread |



## Dimensions

|                |             |   |
|----------------|-------------|---|
| d              | 40 mm       | Bore diameter                               |
| d <sub>2</sub> | max. 94 mm  | Diameter head                               |
| B              | 28 mm       | Width inner ring                            |
| G              | M 42x3      | Thread                                      |
| C <sub>1</sub> | max. 24 mm  | Width head                                  |
| h <sub>1</sub> | 145 mm      | Height shank end face - centre rod end eye  |
| α              | 6 °         | Angle of tilt                               |
| d <sub>k</sub> | 53 mm       | Raceway diameter inner ring                 |
| d <sub>4</sub> | ≈ 58 mm     | Diameter shank                              |
| l <sub>3</sub> | min. 65 mm  | Length thread                               |
| l <sub>4</sub> | max. 194 mm | Length (height) housing                     |
| l <sub>5</sub> | ≈ 25 mm     | Length wrench flat                          |
| l <sub>7</sub> | min. 40 mm  | Distance shank chamfer - centre rod end eye |
| w              | 50 mm       | Size wrench                                 |
| r <sub>1</sub> | min. 0.6 mm | Chamfer dimension bore                      |

## Calculation data

|                              |       |                       |
|------------------------------|-------|-----------------------|
| Basic dynamic load rating    | C     | 100 kN                |
| Basic static load rating     | $C_0$ | 166 kN                |
| Specific dynamic load factor | K     | 100 N/mm <sup>2</sup> |
| Material constant            | $K_M$ | 330                   |

## Mass

|              |        |
|--------------|--------|
| Mass rod end | 2.2 kg |
|--------------|--------|

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