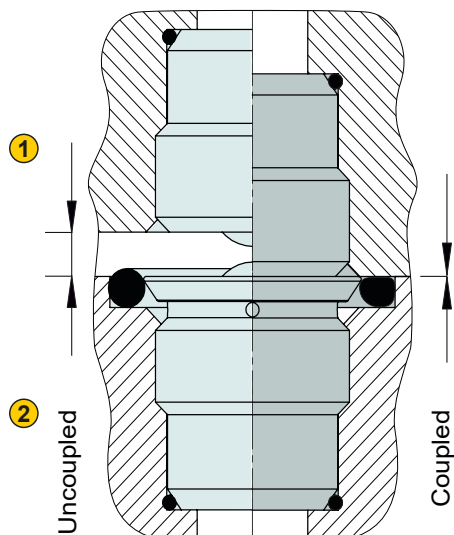


# Ball coupling elements

threaded body design, nominal diameter 3, pmax = 350 bar

100-7

Issue: 08/2025



- ① KNK-3-EG001
- ② KMK-3-EG001

## Description:

Ball coupling elements from HYDROKOMP are manufactured from stainless materials. This enables the elements to be used for all fluids and gases, that are non-aggressive.

The ball coupling elements should be used in situations with limited spaces and low coupling intervals. In case of higher coupling intervals our standard coupling elements (datasheet 100-3) should be used, because they have no leakage during the coupling action.

The coupling action must be performed while the system is not under pressure, as the system seal must be compressed before pressurizing the canals.

Important to note is that the single elements can be pressurized, for instance in a closed circuit, but not during the coupling action.

## Operating conditions:

Coupling nipple and coupling mechanism must face each other coaxially before the coupling process starts. The base plates of both elements must be guided about 0-1mm before the contact of the two balls. The radial positioning tolerance shall not be exceeded.

## Technical data:

<b>Nominal diameter:</b>	<b>3</b>
Operating pressure max. [bar]	350
Flow max./minute [l]	5
Operating temperature [°C]	-10 bis +80
Coupling stroke [mm]	2
Min. coupling force at 0 bar [N]	83,6
Axial coupling force under pressure per coupling point	$F[N]=26xp[bar]$
Axial positioning tolerance [mm]	+0,1
Radial positioning tolerance [mm]	±0,2
Permitted angular tolerance [°]	±1
<b>Order number:</b>	
<b>KNK-3-EG001</b>	
<b>KMK-3-EG001</b>	



Webcode: 0100007

## Sealing type:

- ☒ system sealed with NBR O-Rings, operating temperature -10° bis +80°C
- ☒ Sealed with ball

## Advantages:

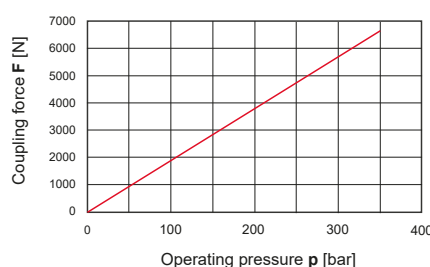
- ☒ space-saving installation
- ☒ flat profile
- ☒ close to no contamination in the system because of system seal
- ☒ the frontal contour enables easy cleaning, failures due to contamination are minimal.

The coupling force between coupling nipple and coupling mechanism, resulting from the hydraulic or fluid pressure, has to be compensated positively from the outside.

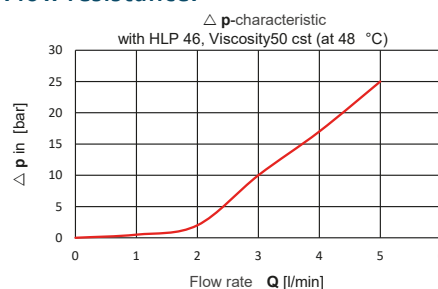
The axially placed O-ring acting as a front seal, protects the system from contamination. Keeping the face surfaces in a clean state is critical. Water or air can be used for cleaning.

The single elements are sealed with a POM insert, which holds the ball in place. Moreover, an O-ring has to be placed on the bottom of the bore to ensure fluid tightness. The surface quality of the bore is a key factor for the elements to be leak free.

## Coupling force:



## Flow resistance:



<b>Spare Parts:</b>	<b>Order number:</b>
O-ring 11x1,0 for hole bottom	<b>6011-021</b>
O-ring 15,54x2,62 for Anspiegung	<b>6016-050</b>
<b>Accessories:</b>	<b>Order number:</b>
Screw-in tool	<b>9000-288</b>

We also design and manufacture customized variants!



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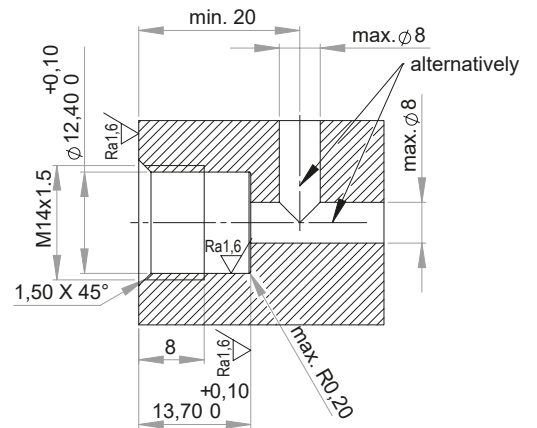
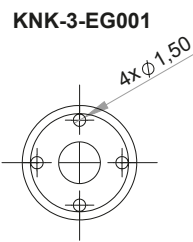
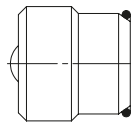
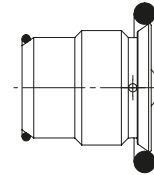
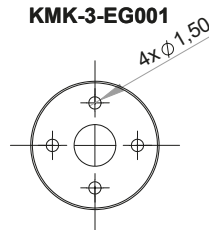
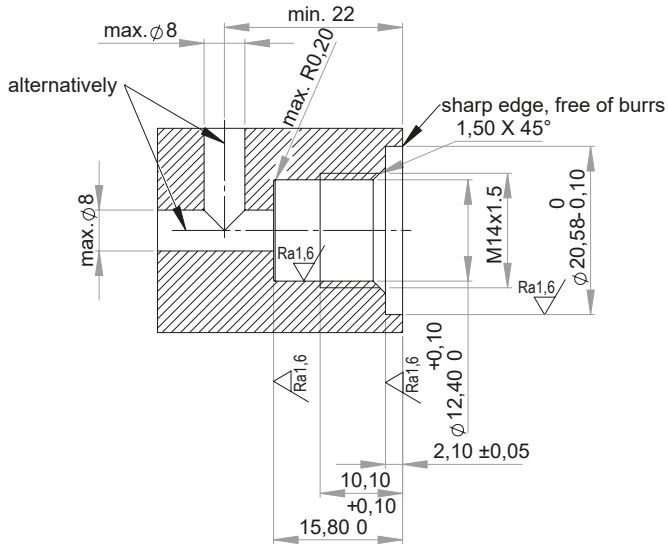
Technology that connects



### Screw-in elements:

KMK-3-EG001,  
KNK-3-EG001

### Dimensions and installation contour:



### Application Example:

