
LGO-FIX® Swiss
Hi-Q/ER32

Clamping Nuts
Sealing Disks
Coolant Flush Disks

4

ER SYSTEM

Clamping Nuts

ER SYSTEM

Sealing Disks (DS)

Coolant Flush Disks (KS)

Features | Benefits

Swiss Quality
Made in Switzerland to ISO9001/ISO14001.

1 ## Marking
With type and size (reduces selection error).

2 ## Product Traceability
Lot numbers are marked on products for traceability throughout the entire manufacturing process.

3 ## Original REGO-FIX®
Our extensive experience results in a well-engineered system. When buying ER clamping nuts please note the REGO-FIX® quality symbol △ on the front of the clamping nut.

Collet Locking-System (pat. pend.)
Retains collet in nut for easier assembly.

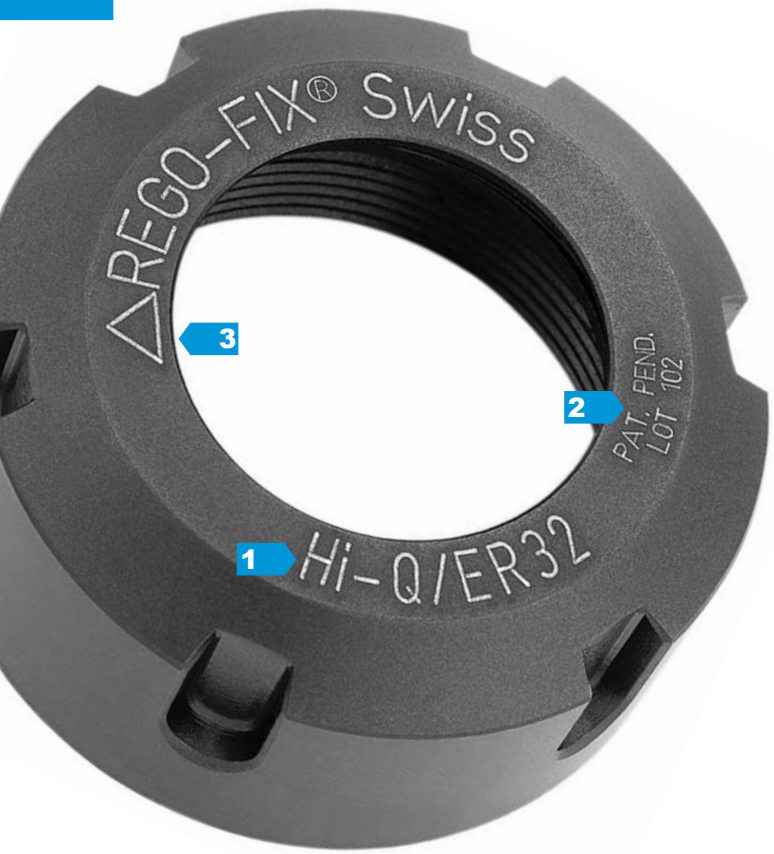
Q+® Balancing
Ideal for high-speed applications.

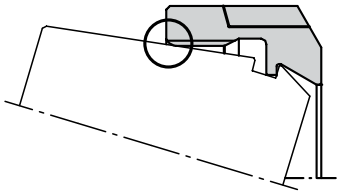
Higher Transferable Torque
Lower frictional forces resulting in up to 120% higher gripping force over standard non-treated clamping nuts.

Protection Against Corrosion
Special treatment of the surface reduces wear and friction between the collet and nut resulting in higher clamping forces and longer tool life.

Optimal Contour
Rounded thread start prevents damaging of collets on tool changes.

4





Assembly Instructions

DIN 6499/ISO 15488

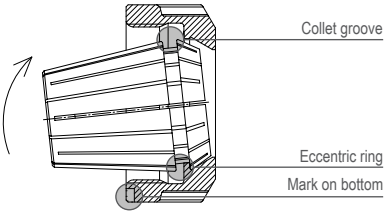
Hi-Q® Clamping Nuts (pat. pend.)

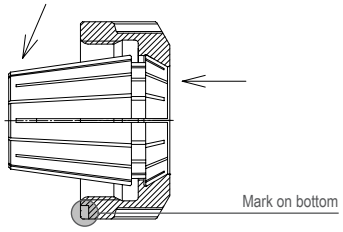
Assembling Collet

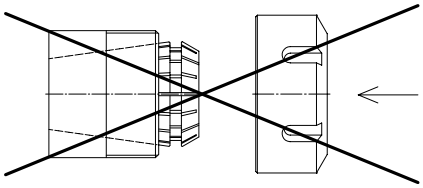
Insert groove of the collet into eccentric ring of the clamping nut at the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in. Insert tool. Screw nut with collet onto toolholder.

Removing Collet

After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet opposite the mark until it disengages from the clamping nut.

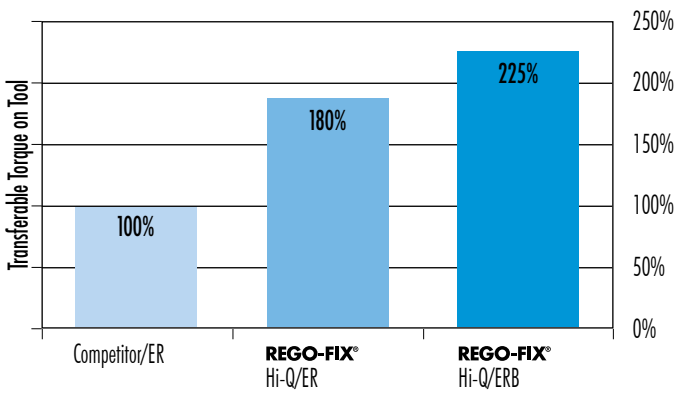






! Improper assembly can permanently damage the concentricity of the collet and may result in damage to the clamping nut.
Only assemble nuts with correctly inserted collets! Never place the collet into the holder without first assembling into the nut.

Torque Comparison of Clamping Nuts



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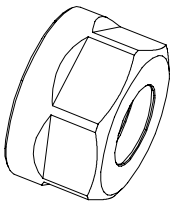
Edition 9/2009

Features | Benefits

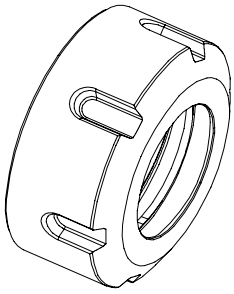
1 Hi-Q®/ER11 – ER20



Standard (Hex and Spanner Types)

Hi-Q®/ER Clamping Nuts with corrosion resistant surface are standard on all REGO-FIX® ER toolholders.

2 Hi-Q®/ER25 – ER50



Features

- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut to increase clamping force by up to 120% and resist corrosion from common machining environments.

! Clamping nuts with left-hand threads available upon request.

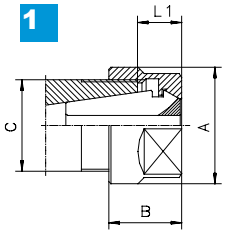
Hi-Q | ER

Hi-Q®/ER Standard (Hex and Spanner)

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	Drawing	Wrench
Hi-Q/ER 11	3411.00000	19	11.3	M 14 x 0.75	4.9 – 6.6	1	7112.11010
Hi-Q/ER 16	3416.00000	28	17.5	M 22 x 1.50	7.0 – 10.5	1	7112.16010
Hi-Q/ER 20	3420.00000	34	19.0	M 25 x 1.50	8.0 – 11.5	1	7112.20010
Hi-Q/ER 25	3425.00000	42	20.0	M 32 x 1.50	8.5 – 12.0	2	7111.25000
Hi-Q/ER 32	3432.00000	50	22.5	M 40 x 1.50	9.5 – 13.0	2	7111.32000
Hi-Q/ER 40	3440.00000	63	25.5	M 50 x 1.50	11.5 – 15.0	2	7111.40000
Hi-Q/ER 50	3450.00000	78	35.3	M 64 x 2.00	14.0 – 21.0	2	7111.50000

Recommended tightening torque on page 14.03/14.04

1



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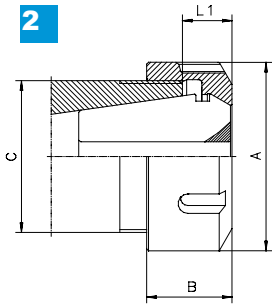


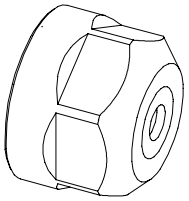
4

! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

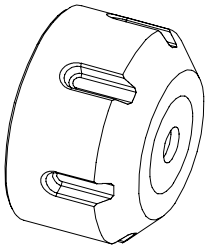
Features | Benefits

4

1 Hi-Q®/ERC11 – ERC20



2 Hi-Q®/ERC25 – ERC40



Applications with Sealing and Coolant Flush Disks

The Hi-Q®/ERC clamping nut is intended for use with the sealing disk system DS/ER and the coolant flush system KS/ER. These systems allow the use of all standard ER collets, ultra precision collets and tapping collets to be used in coolant applications.

Up to 150 Bar (2000 psi) Coolant Pressure

Prevents Dirt and Chips from Entering the Collet

Peripheral Cooling of Non Coolant Through Tools

We recommend the coolant flush disks KS/ER.

See page 4.25/4.26

Features

- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut which increases clamping force by up to 120%.

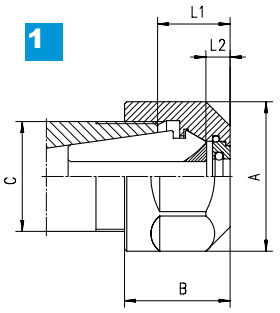
Hi-Q | ERC

Hi-Q® ERC Standard Coolant Nut for DS and KS Disks (Hex and Spanner)

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q/ERC 11	See page 4.08							7112.11010
Hi-Q/ERC 16	3416.20000	28	22.5	M 22 x 1.50	12.0 – 15.5	5.0	1	7112.16010
Hi-Q/ERC 20	3420.20000	34	24.0	M 25 x 1.50	13.0 – 16.5	5.0	1	7112.20010
Hi-Q/ERC 25	3425.20000	42	25.0	M 32 x 1.50	13.5 – 17.0	5.0	2	7111.25000
Hi-Q/ERC 32	3432.20000	50	27.5	M 40 x 1.50	14.5 – 18.0	5.0	2	7111.32000
Hi-Q/ERC 40	3440.20000	63	30.5	M 50 x 1.50	16.5 – 20.0	5.0	2	7111.40000

Recommended tightening torque on page 14.03/14.04

1



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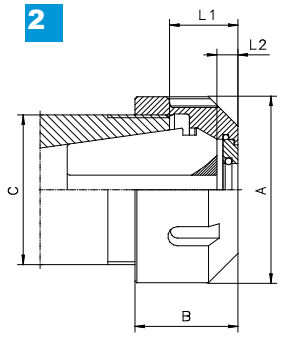
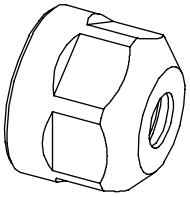


4

! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Features | Benefits



Application
The Hi-Q®/ERC 11 clamping nut is a one piece nut and disk system with a built in o-ring seal for coolant through tools.

Does not Require Sealing Disks
The sealing system is built into the clamping nut.

Up to 150 Bar (2000 psi) Coolant Pressure

Integrated Seal Prevents Dirt and Chips from Entering the Collet

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut which increases clamping force by up to 120%.

Hi-Q | ERC11

Clamping Nuts with Built-In Sealing System

Type	Part No.	Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	Wrench
Hi-Q/ERC 11 ∅ 3.0 mm	3411.20300	3.00 – 2.50	0.1181 – 0.0984	3/32"	7112.11010
Hi-Q/ERC 11 ∅ 3.5 mm	3411.20350	3.50 – 3.00	0.1378 – 0.1181	1/8"	7112.11010
Hi-Q/ERC 11 ∅ 4.0 mm	3411.20400	4.00 – 3.50	0.1575 – 0.1378	5/32"	7112.11010
Hi-Q/ERC 11 ∅ 4.5 mm	3411.20450	4.50 – 4.00	0.1772 – 0.1575	–	7112.11010
Hi-Q/ERC 11 ∅ 5.0 mm	3411.20500	5.00 – 4.50	0.1969 – 0.1772	3/16"	7112.11010
Hi-Q/ERC 11 ∅ 5.5 mm	3411.20550	5.50 – 5.00	0.2165 – 0.1969	7/32"	7112.11010
Hi-Q/ERC 11 ∅ 6.0 mm	3411.20600	6.00 – 5.50	0.2362 – 0.2165	–	7112.11010
Hi-Q/ERC 11 ∅ 6.5 mm	3411.20650	6.50 – 6.00	0.2559 – 0.2362	1/4"	7112.11010
Hi-Q/ERC 11 ∅ 7.0 mm	3411.20700	7.00 – 6.50	0.2756 – 0.2559	–	7112.11010

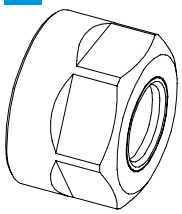
Recommended tightening torque on page 14.03/14.04

! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

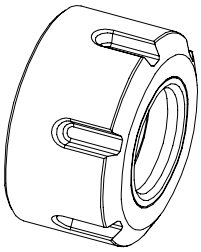
Edition 9/2009

Features | Benefits

1 Hi-Q®/ERB16 – ERB20



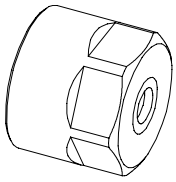
2 Hi-Q®/ERB25 – ERB50



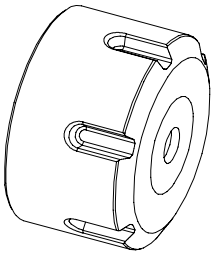
Application
The Hi-Q®/ERB is a friction-bearing nut that offers the highest clamping force available; more than twice the clamping force of standard nuts. It is interchangeable with all other ER nuts per DIN STD 6499.

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Specially designed friction bearing to reduce friction between the collet and the nut, adding up to 50% more force than our standard Hi-Q nut.

3 Hi-Q®/ERBC16 – ERBC20



4 Hi-Q®/ERBC25 – ERBC40



Application with Sealing Disk
The Hi-Q®/ERBC clamping nut is intended for use with the sealing disk system DS/ER and the coolant flush system KS/ER.These systems allow the use of all standard ER collets, ultra precision collets and tapping collets to be used in coolant applications.

Up to 150 Bar (2000 psi) Coolant Pressure

Peripheral Cooling of Non Coolant Through Tools
We recommend the coolant flush disks KS/ER.
See page 4.25/4.26

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Specially designed friction bearing to reduce friction between the collet and the nut, adding up to 50% more force than our standard Hi-Q nut.

Edition 9/2009

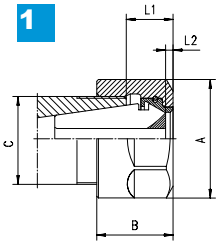
Hi-Q ERB
ERBC

Hi-Q® ERB Friction Bearing Nuts
Hi-Q® ERBC Friction Bearing Coolant Nuts for DS and KS Disks

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q/ERB 16	3416.30000	28	20.2	M 22 x 1.50	10.0 – 13.6	3.0	1	7112.16010
Hi-Q/ERB 20	3420.30000	34	21.7	M 25 x 1.50	11.0 – 14.5	3.0	1	7112.20010
Hi-Q/ERB 25	3425.30000	42	22.6	M 32 x 1.50	11.5 – 15.0	3.0	2	7111.25000
Hi-Q/ERB 32	3432.30000	50	25.0	M 40 x 1.50	12.5 – 16.0	3.0	2	7111.32000
Hi-Q/ERB 40	3440.30000	63	28.2	M 50 x 1.50	14.5 – 18.0	3.0	2	7111.40000
Hi-Q/ERB 50	3450.30000	78	38.1	M 64 x 2.00	17.0 – 24.0	3.0	2	7111.50000
Hi-Q/ERBC 16	3416.40000	28	22.7	M 22 x 1.50	12.5 – 16.0	5.5	3	7112.16010
Hi-Q/ERBC 20	3420.40000	34	24.2	M 25 x 1.50	13.5 – 17.0	5.5	3	7112.20010
Hi-Q/ERBC 25	3425.40000	42	25.2	M 32 x 1.50	14.0 – 17.5	5.5	4	7111.25000
Hi-Q/ERBC 32	3432.40000	50	27.4	M 40 x 1.50	15.0 – 18.5	5.5	4	7111.32000
Hi-Q/ERBC 40	3440.40000	63	30.7	M 50 x 1.50	17.0 – 20.5	5.5	4	7111.40000

Recommended tightening torque on page 14.03/14.04

1



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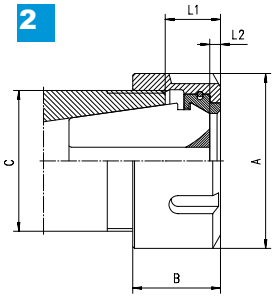

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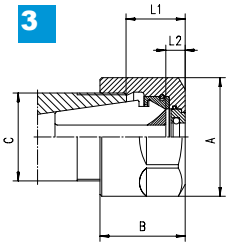

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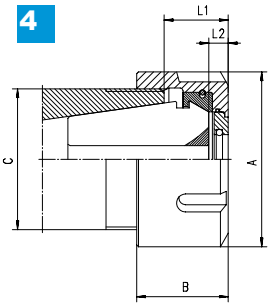


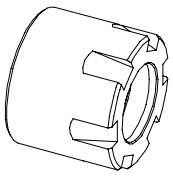
4

! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Edition 9/2009

Features | Benefits

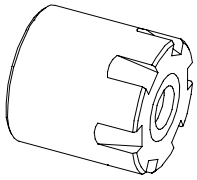
1 Hi-Q®/ERM



Application
Mini clamping nuts are recommended for use where minimal external diameters are important. They are ideal for multi-spindle drilling heads and colletholder extensions.

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut to increase clamping force by up to 120%.

2 Hi-Q®/ERMC



Application with Sealing Disk
The Hi-Q®/ERMC clamping nut is intended for use with the sealing disk system DS/ER and the coolant flush system KS/ER. These systems allow the use of all standard ER collets, ultra precision collets and tapping collets to be used in coolant applications.

Up to 150 Bar (2000 psi) Coolant Pressure

Integrated Seal Prevents Dirt and Chips from Entering the Collet

Peripheral Cooling of Non Coolant Through Tools
We recommend the coolant flush disks KS/ER.
See page 4.25/4.26

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut to increase clamping force by up to 120%.

4

! Clamping nuts with left-hand threads available upon request.

! Mini-nuts ERM/ERMC/MS have a different thread type and cannot be used to replace standard nuts.

Edition 9/2009

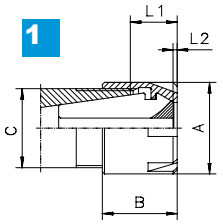
Hi-Q | ERM
ERMC

Mini Clamping Nuts
Mini Clamping Nuts for DS and KS Disks

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q/ERM 8	3508.00000	12	10.8	M 10 x 0.75	4.3 – 6.1	1.5	1	7113.08000
Hi-Q/ERM 11	3511.00000	16	12.0	M 13 x 0.75	5.7 – 7.5	0.9	1	7113.11000
Hi-Q/ERM 16	3516.00000	22	18.4	M 19 x 1.00	8.0 – 11.5	0.9	1	7113.16000
Hi-Q/ERM 20	3520.00000	28	19.0	M 24 x 1.00	8.0 – 11.5	–	1	7113.20000
Hi-Q/ERM 25	3525.00000	35	20.0	M 30 x 1.00	8.5 – 12.0	–	1	7113.25000
Hi-Q/ERMC 11	See page 4.14							7113.11000
Hi-Q/ERMC 16	3516.20000	22	22.0	M 19 x 1.00	11.5 – 15.0	4.5	2	7113.16000
Hi-Q/ERMC 20	3520.20000	28	24.0	M 24 x 1.00	13.0 – 16.5	5.0	2	7113.20000
Hi-Q/ERMC 25	3525.20000	35	25.0	M 30 x 1.00	13.5 – 17.0	5.0	2	7113.25000

Recommended tightening torque on page 14.03/14.04

1



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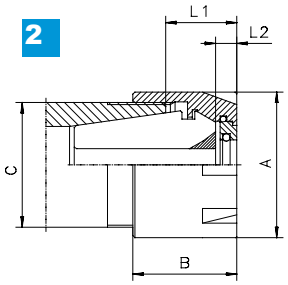
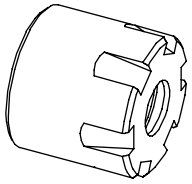


4

! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Features | Benefits



Application
The Hi-Q®/ERMC 11 clamping nut is recommended for use where minimal external diameters are important. It is the coolant through tools version of the Hi-Q®/ERM 11 clamping nut.

Does not Require Sealing Disks
The sealing system is built into the clamping nut.

Up to 150 Bar (2000 psi) Coolant Pressure

Integrated Seal Prevents Dirt and Chips from Entering the Collet

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut to increase clamping force by up to 120%.

! Mini-nuts ERM/ERMC/MS have a different thread type and cannot be used to replace standard nuts.

Hi-Q | ERMC 11

Mini Clamping Nuts with Built-In Sealing System

Type	Part No.	Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	Wrench
Hi-Q/ERMC 11 ∅ 3.0 mm	3511.20300	3.00 – 2.50	0.1181 – 0.0984	3/32"	7113.11000
Hi-Q/ERMC 11 ∅ 3.5 mm	3511.20350	3.50 – 3.00	0.1378 – 0.1181	1/8"	7113.11000
Hi-Q/ERMC 11 ∅ 4.0 mm	3511.20400	4.00 – 3.50	0.1575 – 0.1378	5/32"	7113.11000
Hi-Q/ERMC 11 ∅ 4.5 mm	3511.20450	4.50 – 4.00	0.1772 – 0.1575	–	7113.11000
Hi-Q/ERMC 11 ∅ 5.0 mm	3511.20500	5.00 – 4.50	0.1969 – 0.1772	3/16"	7113.11000
Hi-Q/ERMC 11 ∅ 5.5 mm	3511.20550	5.50 – 5.00	0.2165 – 0.1969	7/32"	7113.11000
Hi-Q/ERMC 11 ∅ 6.0 mm	3511.20600	6.00 – 5.50	0.2362 – 0.2165	–	7113.11000
Hi-Q/ERMC 11 ∅ 6.5 mm	3511.20650	6.50 – 6.00	0.2559 – 0.2362	1/4"	7113.11000
Hi-Q/ERMC 11 ∅ 7.0 mm	3511.20700	7.00 – 6.50	0.2756 – 0.2559	–	7113.11000

Recommended tightening torque on page 14.03/14.04

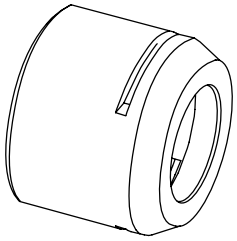
! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Edition 9/2009

ER

High Speed Mini Clamping Nuts

Features | Benefits



Application

The ER MS clamping nut are for high RPM applications with minimal external diameter. These nuts do not have an extractor ring and all the contours are ground. This provides the best balancing for critical high-speed machining applications. The collet is released with the special EMS spanner. ER MS nuts are interchangeable with the Hi-Q®/ERM and Hi®-Q/ERMC nuts.

With the ER MS clamping nuts, we recommend using ER-UP (ultra-precision) collets to achieve the best concentricity.

4

! Mini-nuts ERM/ERMC/MS have a different thread type and cannot be used to replace standard nuts.

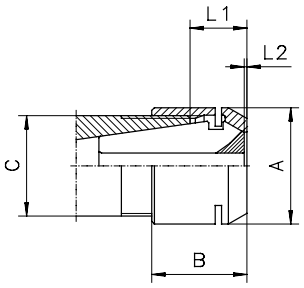
Edition 9/2009

ER | MS

High Speed Mini-Nuts

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Wrench
ER 8 MS	3208.50000	12	10.8	M 10 x 0.75	4.3 – 6.1	1.5	7114.08000
ER 11 MS	3211.50000	16	11.5	M 13 x 0.75	4.6 – 6.8	0.4	7114.11000
ER 16 MS	3216.50000	22	17.8	M 19 x 1.00	6.1 – 10.5	0.3	7114.16000
ER 20 MS	3220.50000	28	19.0	M 24 x 1.00	7.1 – 11.5	0.3	7114.20000

Recommended tightening torque on page 14.03/14.04



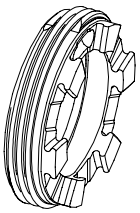
4

! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Edition 9/2009

Features | Benefits

1 Hi-Q®/ERAX (pat. pend.)



4

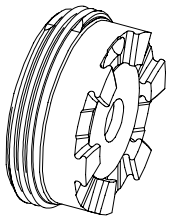
Application
For REGO-FIX® floating chucks and other ER toolholders with internal threads.

S-Profile Spanner (Dovetail)
The spanner is self-centering on the nut and prevents slipping.

Space Saving Design

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut to increase clamping force by up to 120%.

2 Hi-Q®/ERAXC (pat. pend.)



Application with Sealing Disk
The Hi-Q®/ERAXC clamping nut is intended for use with the sealing disk system DS/ER and the coolant flush system KS/ER. These systems allow the use of all standard ER collets, ultra precision collets and tapping collets to be used in coolant applications.

Up to 150 Bar (2000 psi) Coolant Pressure

Integrated Seal Prevents Dirt and Chips from Entering the Collet

Peripheral Cooling of Non Coolant Through Tools
We recommend the coolant flush disks KS/ER.
See page 4.25/4.26

Features
- Collet locking feature to keep the collet from coming out during assembly.
- Balanced by design for high speed machining.
- Special corrosion resistant treatment to reduce the friction between the collet and nut to increase clamping force by up to 120%.

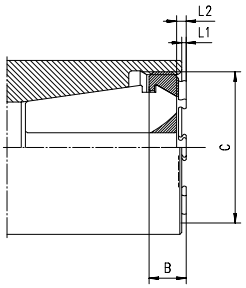
Hi-Q | ERAX
ERAXC

Externally Threaded Nuts

Type	Part No.	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q/ERAX 11	3311.60000	7.5	M 18 x 1.00	1.0 – 3.2	3.9	1	7117.11000
Hi-Q/ERAX 16	3316.60000	7.6	M 24 x 1.00	0.0 – 2.6	2.3	1	7117.16000
Hi-Q/ERAX 20	3320.60000	8.5	M 28 x 1.50	0.0 – 2.5	2.3	1	7117.20000
Hi-Q/ERAX 25	3325.60000	8.8	M 32 x 1.50	0.0 – 1.9	2.3	1	7117.25000
Hi-Q/ERAX 32	3332.60000	9.8	M 40 x 1.50	0.0 – 1.1	2.5	1	7117.32000
Hi-Q/ERAX 40	3340.60000	11.7	M 50 x 1.50	0.0 – 1.0	2.4	1	7117.40000

Recommended tightening torque on page 14.03/14.04

1



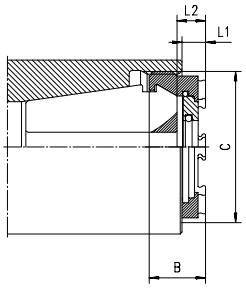
4

Externally Threaded Nuts for Coolant Disks DS and KS

Type	Part No.	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q/ERAXC 16	3316.70000	12.5	M 24 x 1.00	3.1 – 7.5	7.2	2	7117.16000
Hi-Q/ERAXC 20	3320.70000	13.5	M 28 x 1.50	3.1 – 7.5	7.3	2	7117.20000
Hi-Q/ERAXC 25	3325.70000	13.8	M 32 x 1.50	2.5 – 6.9	7.3	2	7117.25000
Hi-Q/ERAXC 32	3332.70000	14.9	M 40 x 1.50	1.8 – 6.2	7.6	2	7117.32000
Hi-Q/ERAXC 40	3340.70000	16.6	M 50 x 1.50	1.5 – 5.9	7.3	2	7117.40000

Recommended tightening torque on page 14.03/14.04

2



! Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 **Marking**
Type and size (reduces sealing disk selection errors).

2 **Traceability**
Lot numbers are marked on all products for traceability throughout the entire manufacturing process.

3 **Original REGO-FIX®**
Our extensive experience results in a well-engineered system. When buying ER sealing disks, please note the REGO-FIX® quality symbol △ on the sealing disk. Guaranteed for best quality.

Sealing Range
0.5 mm per disk.

High Pressure
For applications up to 2000psi (150 bar).

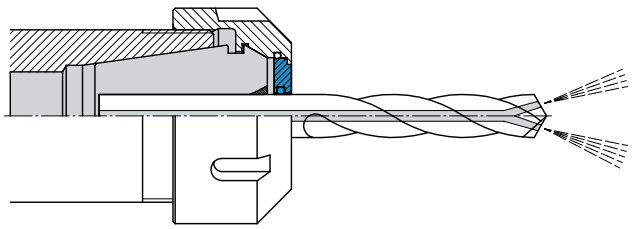
Protection
Protects against dirt, chips and swarf from entering the slots of the collet.

Matched Tooling System for Best Fit
ER collet, toolholder, clamping nut, sealing disk and spanner all from REGO-FIX®.

Coolant Resistent
O-Ring for aggressive coolant (VITON®-quality).

Interchangeable
Quick change of sealing disks according to required tool shank diameter.

Coolant Through
For better cooling and lubrication. Extends tool life and supports chip removal.

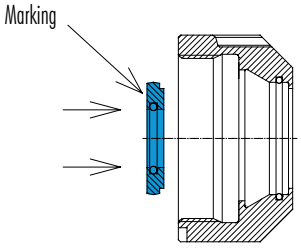


Assembly Instructions

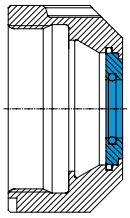
Sealing Disk DS/ER (pat. pend.)

Assembling

Insert the small diameter of the disk into the center of the coolant nut and apply even pressure until the disk is properly seated into the nut.

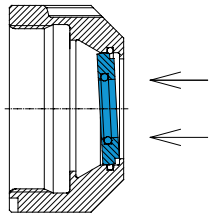


The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

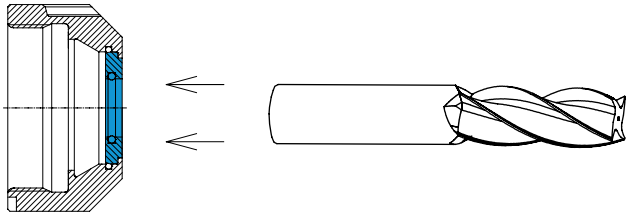


Removing

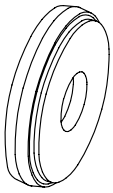
To remove the disk, simply press on the outside of the disk evenly until it snaps out.



! Insert tool from the front. O-ring might be damaged if cutting tool is inserted from the back.



Edition 9/2009



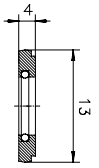
DS | ER 16
ER 20

Sealing Disks DS/ER 16 and DS/ER 20

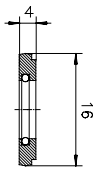
Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 16 Part No.	DS/ER 20 Part No.
3.00 – 2.50	0.1181 – 0.0984	3/32"	3916.00300	3920.00300
3.50 – 3.00	0.1378 – 0.1181	1/8"	3916.00350*	3920.00350*
4.00 – 3.50	0.1575 – 0.1378	5/32"	3916.00400*	3920.00400*
4.50 – 4.00	0.1772 – 0.1575		3916.00450*	3920.00450*
5.00 – 4.50	0.1969 – 0.1772	3/16"	3916.00500*	3920.00500*
5.50 – 5.00	0.2165 – 0.1969	7/32"	3916.00550*	3920.00550*
6.00 – 5.50	0.2362 – 0.2165		3916.00600*	3920.00600*
6.50 – 6.00	0.2559 – 0.2362	1/4"	3916.00650*	3920.00650*
7.00 – 6.50	0.2756 – 0.2559		3916.00700*	3920.00700*
7.50 – 7.00	0.2953 – 0.2756	9/32"	3916.00750*	3920.00750*
8.00 – 7.50	0.3150 – 0.2953	5/16"	3916.00800*	3920.00800*
8.50 – 8.00	0.3347 – 0.3150		3916.00850*	3920.00850*
9.00 – 8.50	0.3543 – 0.3347	11/32"	3916.00900*	3920.00900*
9.50 – 9.00	0.3740 – 0.3543	3/8"	3916.00950*	3920.00950*
10.00 – 9.50	0.3937 – 0.3740		3916.01000*	3920.01000*
10.50 – 10.00	0.4134 – 0.3937	13/32"	–	3920.01050*
11.00 – 10.50	0.4330 – 0.4134		–	3920.01100*
11.50 – 11.00	0.4528 – 0.4330	7/16"	–	3920.01150*
12.00 – 11.50	0.4724 – 0.4528	15/32"	–	3920.01200*
12.50 – 12.00	0.4921 – 0.4724		–	3920.01250*
13.00 – 12.50	0.5118 – 0.4921	1/2"	–	3920.01300*

*Included in sealing disk set.

1 DS/ER 16



2 DS/ER 20



Sealing Disk Sets
DS/ER 16 and DS/ER 20

Part Description	Part No.	Sealing Capacity [mm]	Supplied with
Set DS/ER 16	3916.00000	3.50 – 10.00	14 sealing disks with 1 tray DSR/16
Set DS/ER 20	3920.00000	3.50 – 13.00	20 sealing disks with 1 tray DSR/20

Tray
DS/ER 16 and DS/ER 20

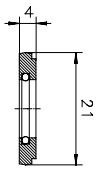
Part Description	Part No.	Page
Tray DSR/16	7122.16000	12.08
Tray DSR/20	7122.20000	12.08

DS | ER 25
ER 32

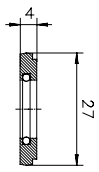
Sealing Disks DS/ER 25 and DS/ER 32

Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 25 Part No.	DS/ER 32 Part No.
3.00 – 2.50	0.1181 – 0.0984	3/32"	3925.00300	3932.00300
3.50 – 3.00	0.1378 – 0.1181	1/8"	3925.00350*	3932.00350*
4.00 – 3.50	0.1575 – 0.1378	5/32"	3925.00400*	3932.00400*
4.50 – 4.00	0.1772 – 0.1575		3925.00450*	3932.00450*
5.00 – 4.50	0.1969 – 0.1772	3/16"	3925.00500*	3932.00500*
5.50 – 5.00	0.2165 – 0.1969	7/32"	3925.00550*	3932.00550*
6.00 – 5.50	0.2362 – 0.2165		3925.00600*	3932.00600*
6.50 – 6.00	0.2559 – 0.2362	1/4"	3925.00650*	3932.00650*
7.00 – 6.50	0.2756 – 0.2559		3925.00700*	3932.00700*
7.50 – 7.00	0.2953 – 0.2756	9/32"	3925.00750*	3932.00750*
8.00 – 7.50	0.3150 – 0.2953	5/16"	3925.00800*	3932.00800*
8.50 – 8.00	0.3347 – 0.3150		3925.00850*	3932.00850*
9.00 – 8.50	0.3543 – 0.3347	11/32"	3925.00900*	3932.00900*
9.50 – 9.00	0.3740 – 0.3543	3/8"	3925.00950*	3932.00950*
10.00 – 9.50	0.3937 – 0.3740		3925.01000*	3932.01000*
10.50 – 10.00	0.4134 – 0.3937	13/32"	3925.01050*	3932.01050*
11.00 – 10.50	0.4330 – 0.4134		3925.01100*	3932.01100*
11.50 – 11.00	0.4528 – 0.4330	7/16"	3925.01150*	3932.01150*
12.00 – 11.50	0.4724 – 0.4528	15/32"	3925.01200*	3932.01200*
12.50 – 12.00	0.4921 – 0.4724		3925.01250*	3932.01250*
13.00 – 12.50	0.5118 – 0.4921	1/2"	3925.01300*	3932.01300*
13.50 – 13.00	0.5315 – 0.5118	17/32"	3925.01350*	3932.01350*

1 DS/ER 25



2 DS/ER 32



Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 25 Part No.	DS/ER 32 Part No.
14.00 – 13.50	0.5512 – 0.5315		3925.01400*	3932.01400*
14.50 – 14.00	0.5709 – 0.5512	9/16"	3925.01450*	3932.01450*
15.00 – 14.50	0.5905 – 0.5709		3925.01500*	3932.01500*
15.50 – 15.00	0.6102 – 0.5905	19/32"	3925.01550*	3932.01550*
16.00 – 15.50	0.6300 – 0.6102	5/8"	3925.01600*	3932.01600*
16.50 – 16.00	0.6496 – 0.6300		–	3932.01650*
17.00 – 16.50	0.6693 – 0.6496	21/32"	–	3932.01700*
17.50 – 17.00	0.6890 – 0.6693	11/16"	–	3932.01750*
18.00 – 17.50	0.7087 – 0.6890		–	3932.01800*
18.50 – 18.00	0.7284 – 0.7087	23/32"	–	3932.01850*
19.00 – 18.50	0.7480 – 0.7284	3/4"	–	3932.01900*
19.50 – 19.00	0.7677 – 0.7480		–	3932.01950*
20.00 – 19.50	0.7874 – 0.7677	25/32"	–	3932.02000*

*Included in sealing disk set.

4

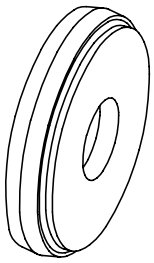
Sealing Disk Sets
DS/ER 25 and DS/ER 32

Part Description	Part No.	Sealing Capacity [mm]	Supplied
Set DS/ER 25	3925.00000	3.50 – 16.00	26 sealing disks with 1 tray DSR/25
Set DS/ER 32	3932.00000	3.50 – 20.00	34 sealing disks with 1 tray DSR/32

Tray
DS/ER 25 and DS/ER 32

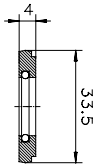
Part Description	Part No.	Page
Tray DSR/25	7122.25000	12.08
Tray DSR/32	7122.32000	12.08

Edition 9/2009



DS | ER 40

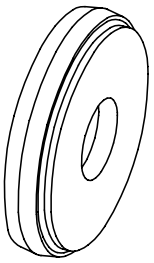
Sealing Disks DS/ER 40



Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 40 Part No.
3.00 – 2.50	0.1181 – 0.0984	3/32"	3940.00300
3.50 – 3.00	0.1378 – 0.1181	1/8"	3940.00350*
4.00 – 3.50	0.1575 – 0.1378	5/32"	3940.00400*
4.50 – 4.00	0.1772 – 0.1575		3940.00450*
5.00 – 4.50	0.1969 – 0.1772	3/16"	3940.00500*
5.50 – 5.00	0.2165 – 0.1969	7/32"	3940.00550*
6.00 – 5.50	0.2362 – 0.2165		3940.00600*
6.50 – 6.00	0.2559 – 0.2362	1/4"	3940.00650*
7.00 – 6.50	0.2756 – 0.2559		3940.00700*
7.50 – 7.00	0.2953 – 0.2756	9/32"	3940.00750*
8.00 – 7.50	0.3150 – 0.2953	5/16"	3940.00800*
8.50 – 8.00	0.3347 – 0.3150		3940.00850*
9.00 – 8.50	0.3543 – 0.3347	11/32"	3940.00900*
9.50 – 9.00	0.3740 – 0.3543	3/8"	3940.00950*
10.00 – 9.50	0.3937 – 0.3740		3940.01000*
10.50 – 10.00	0.4134 – 0.3937	13/32"	3940.01050*
11.00 – 10.50	0.4330 – 0.4134		3940.01100*
11.50 – 11.00	0.4528 – 0.4330	7/16"	3940.01150*
12.00 – 11.50	0.4724 – 0.4528	15/32"	3940.01200*
12.50 – 12.00	0.4921 – 0.4724		3940.01250*
13.00 – 12.50	0.5118 – 0.4921	1/2"	3940.01300*
13.50 – 13.00	0.5315 – 0.5118	17/32"	3940.01350*
14.00 – 13.50	0.5512 – 0.5315		3940.01400*
14.50 – 14.00	0.5709 – 0.5512	9/16"	3940.01450*

Sealing Disk Sets
DS/ER 40

Part Description	Part No.	Sealing Capacity [mm]	Supplied
Set DS/ER 40	3940.00000	3.50 – 26.00	46 sealing disks with 1 tray DSR/40



DS | ER 40

Sealing Disks DS/ER 40

Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 40 Part No.
15.00 – 14.50	0.5905 – 0.5709		3940.01500*
15.50 – 15.00	0.6102 – 0.5905	19/32"	3940.01550*
16.00 – 15.50	0.6300 – 0.6102	5/8"	3940.01600*
16.50 – 16.00	0.6496 – 0.6300		3940.01650*
17.00 – 16.50	0.6693 – 0.6496	21/32"	3940.01700*
17.50 – 17.00	0.6890 – 0.6693	11/16"	3940.01750*
18.00 – 17.50	0.7087 – 0.6890		3940.01800*
18.50 – 18.00	0.7283 – 0.7087	23/32"	3940.01850*
19.00 – 18.50	0.7480 – 0.7283	3/4"	3940.01900*
19.50 – 19.00	0.7677 – 0.7480		3940.01950*
20.00 – 19.50	0.7874 – 0.7677	25/32"	3940.02000*
20.50 – 20.00	0.8071 – 0.7874		3940.02050*
21.00 – 20.50	0.8268 – 0.8071	13/16"	3940.02100*
21.50 – 21.00	0.8465 – 0.7874	27/32"	3940.02150*
22.00 – 21.50	0.8661 – 0.8465		3940.02200*
22.50 – 21.00	0.8858 – 0.8661	7/8"	3940.02250*
23.00 – 22.50	0.9055 – 0.8858	29/32"	3940.02300*
23.50 – 23.00	0.9252 – 0.9055		3940.02350*
24.00 – 23.50	0.9449 – 0.9252	15/16"	3940.02400*
24.50 – 24.00	0.9646 – 0.9449		3940.02450*
25.00 – 24.50	0.9843 – 0.9646	31/32"	3940.02500*
25.50 – 25.00	1.0039 – 0.9843	1"	3940.02550*
26.00 – 25.50	1.0236 – 1.0039		3940.02600*

*Included in sealing disk set.

Tray
DS/ER 40

Part Description	Part No.	Page
Tray DSR/40	7122.40000	12.08

Edition 9/2009

Features | Benefits

4

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 **Marking**
Type and size (reduces disk selection errors).

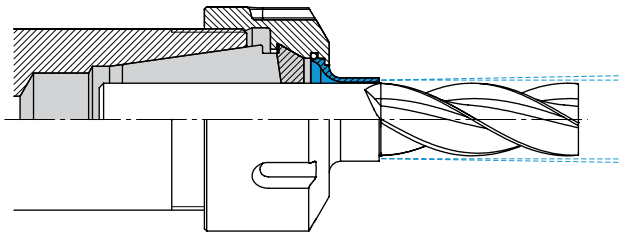
2 **Traceability**
Lot numbers are marked on all products for traceability throughout the entire manufacturing process.

3 **Original REGO-FIX®**
Our extensive experience results in a well-engineered system. When buying ER coolant flush disks, please note the REGO-FIX® quality symbol △ on the coolant flush disk. Guaranteed for best quality.

Universal Use
For all REGO-FIX® collets and coolant nuts with interchangeable disk.

Interchangeable
Quick change of sealing disk according to required tool shank diameter.

Peripheral Cooling
For better cooling and lubrication. Extends tool life and supports chip removal.



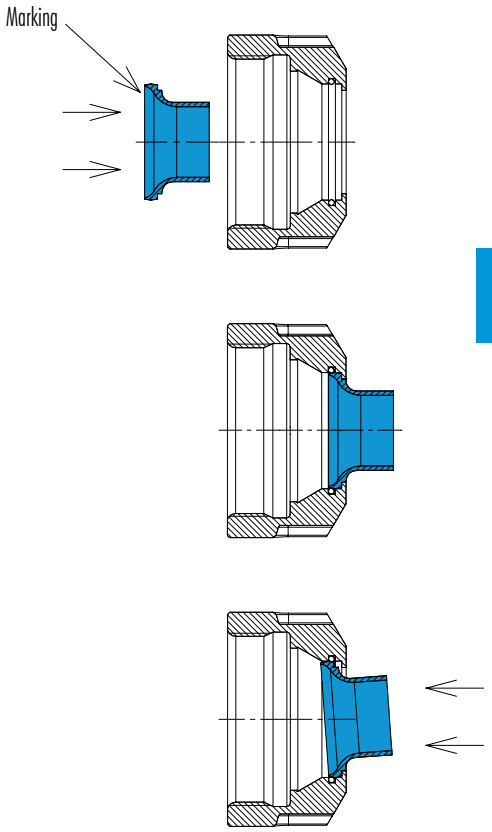
Assembly Instructions

Coolant Flush Disks KS/ER (pat. pend.)

Assembly/Disassembly

Identical to sealing disks.

See page 4.20



Nominal Size [mm]	Ø [Inch]	KS/ER 16 Part No.	KS/ER 20 Part No.	KS/ER 25 Part No.	KS/ER 32 Part No.
3.000	–	3916.20300	3920.20300	3925.20300	3932.20300
3.175	1/8"	3916.30318	3920.30318	3925.30318	3932.30318
4.000	–	3916.20400	3920.20400	3925.20400	3932.20400
4.763	3/16"	3916.30476	3920.30476	3925.30476	3932.30476
5.000	–	3916.20500	3920.20500	3925.20500	3932.20500
6.000	–	3916.20600	3920.20600	3925.20600	3932.20600
6.350	1/4"	3916.30635	3920.30635	3925.30635	3932.30635
7.938	5/16"	3916.30794	3920.30794	3925.30794	3932.30794
8.000	–	3916.20800	3920.20800	3925.20800	3932.20800
9.525	3/8"	3916.30953	3920.30953	3925.30953	3932.30953
10.000	–	3916.21000	3920.21000	3925.21000	3932.21000
11.113	7/16"	–	3920.31111	3925.31111	3932.31111
12.000	–	–	3920.21200	3925.21200	3932.21200
12.700	1/2"	–	3920.31270	3925.31270	3932.31270
14.000	–	–	–	3925.21400	3932.21400
14.288	9/16"	–	–	3925.31429	3932.31429
15.875	5/8"	–	–	3925.31588	3932.31588
16.000	–	–	–	3925.21600	3932.21600
18.000	–	–	–	–	3932.21800
19.050	3/4"	–	–	–	3932.31905
20.000	–	–	–	–	3932.22000

Edition 9/2009