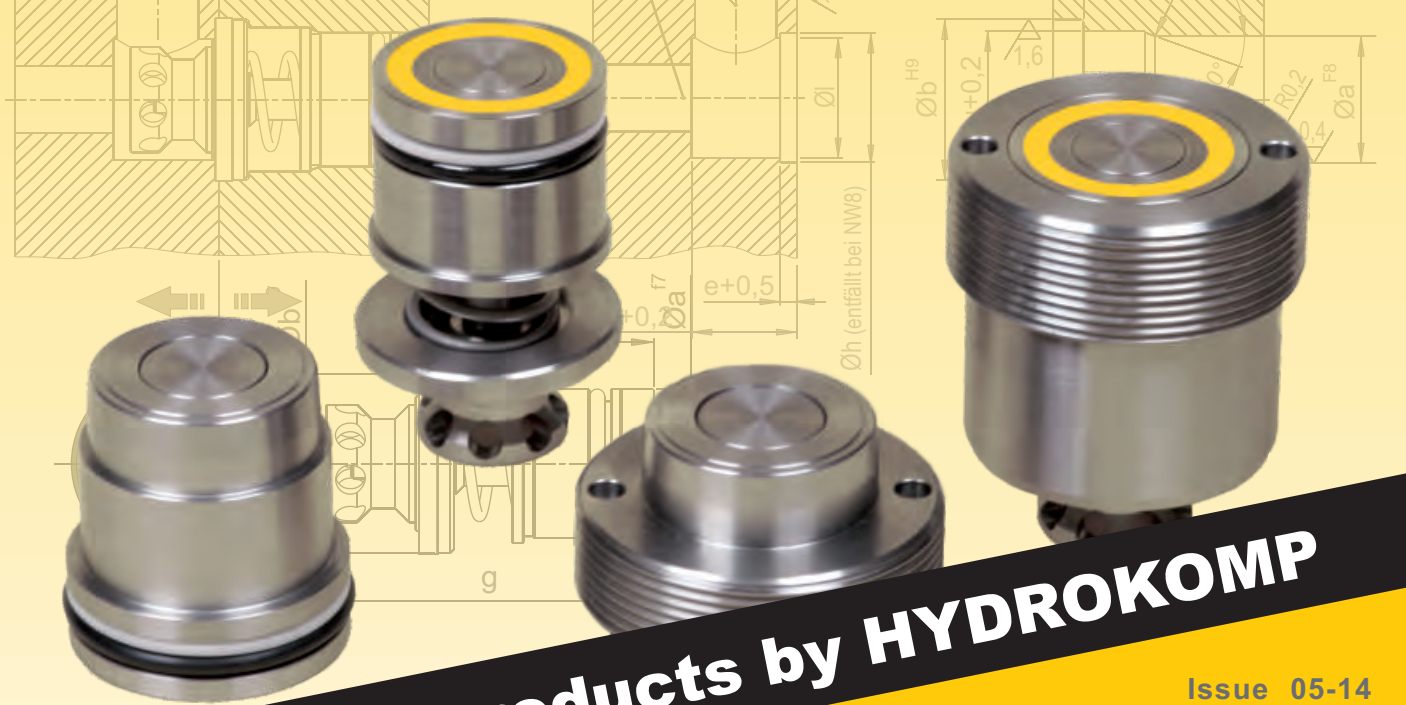
HYDROKOMP®






Coupling Systems

precise – durable – diverse



Brand name products by HYDROKOMP

Technology that connects

Issue 05-14
Subject to change

HYDROKOMP GmbH
Siemensstraße 16, 35325 Mücke (Germany)
Phone: +49 6401 225999-0
Fax: +49 6401 225999-50
E-mail: info@hydrokomp.de
Internet: hydrokomp.de

Coupling systems for highest standards

Coupling elements

Diameter nominal	: 3, 5, 8 and 12
Operating pressure	: pmax. 250 - 500 bar
Design	: built-in and threaded body elements
Operating method	: for pressurized or depressurized coupling
Medium	: fluid or gaseous media or vaccum
Material	: particularly stainless steel
Product range	: standard elements and special designs
Advantages	- space-saving installation in individual mounting housings is possible
	- replaceable system seal

Data sheet: 100-3 **Webcode:** 010003

Description:

Coupling elements are used to prevent leakage when transmitting fluid or gaseous media or vaccum. The coupling elements are special compact parts, which can be installed directly into a mounting housing.

The system seal (axial seal) between coupling mechanism and coupling nipple acts axially. It is placed in the coupling mechanism. This design makes it possible to have position tolerances.

Depending on the sealing material the coupling elements are designed for pressurized or depressurized coupling processes.

The built-in elements are particularly suitable for the installation in plates of multiple coupling systems. Threaded body elements can be directly screwed into the fixture body, for example of a tool change system. There, they are ideal suitable as an interface for media transfer.

Operating conditions:

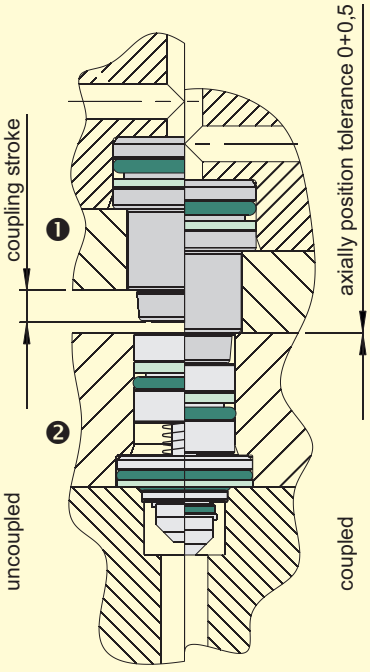
Coupling nipple and coupling mechanism must face coaxially each other before the coupling process is initiated.

The base plates of both elements must be guided about 2 to 3 mm before contact of the sealing surfaces within the radial position tolerance.

The coupling force between coupling nipple and coupling mechanism resulting from hydraulic pressure according to the formula has to be compensated positively from the outside.

The axially acting front seal areas must be protected from contamination. Good results can be archieved by rinsing and following blowing-off with compressed air.

The sealing of the mechanism is done in the bore base of the mounting hole. The required surface quality in the drawing on data sheet 100-3 has to be kept.



1 Coupling nipple
2 Coupling mechanism

Technical data:

Diameter nominal (DN):		3	5	8	12
Operating pressure max.	[bar]	350	500	300	250
Flow max./minute	[l]	8	12	25	50
Coupling stroke	[mm]	4,5	4,5	7,0	10,0
Coupling force min. at 0 bar	[N]	94	98	98	169
Coupling force axially, pressurized each coupling position		**F**[N]=9,4x**p**[bar]	**F**[N]=15,4x**p**[bar]	**F**[N]=31,4x**p**[bar]	**F**[N]=70,7x**p**[bar]
Position tolerance axially	[mm]	+ 0,5	+ 0,5	+ 0,5	+ 0,5
Position tolerance radially	[mm]	± 0,3	± 0,3	± 0,3	± 0,5
Permitted angle tolerance		± 1°	± 1°	± 1°	± 1°

Additional technical data and dimensional drawings of the coupling elements can be found on the data sheet 100-3.

Coupling mechanisms / Coupling nipples

DN 3

Coupling element	Operating method	Design	Thread	Order number
Coupling mechanism	depressurized coupling	built-in	none	KM-3-N001
		threaded body	M20x1,5	KM-3-EG001
	pressurized coupling	built-in	none	KM-3-N002
		threaded body	M20x1,5	KM-3-EG002
Coupling nipple	depressurized coupling	built-in	none	KN-3-S001K
		threaded body	M20x1,5	KN-3-EG001
	pressurized coupling	built-in	none	KN-3-S002K
		threaded body	M20x1,5	KN-3-EG002

DN 5

Coupling element	Operating method	Design	Thread	Order number
Coupling mechanism	depressurized coupling	built-in	none	KM-460-5-N001
		threaded body	M24x1,5	KM-460-5-EG008
		threaded body	M30x1,5	KM-460-5-EG001
	pressurized coupling	built-in	none	KM-460-5-N002
		threaded body	M24x1,5	KM-460-5-EG002
		threaded body	M30x1,5	KM-460-5-EG003
Coupling nipple	depressurized coupling	built-in	none	KN-460-5-S001K
		built-in	none	KN-460-5-S001L
		threaded body	M24x1,5	KN-460-5-EG003
		threaded body	M28x1,0	KN-460-5-EG004
		threaded body	M28x1,0[1]	KN-460-5-EG006
	pressurized coupling	built-in	none	KN-460-5-S003K
		built-in	none	KN-460-5-S003L
		threaded body	M24x1,5	KN-460-5-EG002
		threaded body	M28x1,0	KN-460-5-EG001

[1] This coupling nipple has a pressure relief function in the uncoupled state. It may only be installed into the tank line. There, the pressure relief function prevents a pressure rise at any faulty piston seals. The opening pressure is approx. 3 - 5 bar.

DN 8

Coupling element	Operating method	Design	Thread	Order number
Coupling mechanism	depressurized coupling	built-in	none	KM-460-8-N001
		threaded body	M36x1,5	KM-460-8-EG001
	pressurized coupling	built-in	none	KM-460-8-N002
		threaded body	M36x1,5	KM-460-8-EG002
Coupling nipple	depressurized coupling	built-in	none	KN-460-8-S001
		threaded body	M30x1,5	KN-460-8-EG001
	pressurized coupling	built-in	none	KN-460-8-S002
		threaded body	M30x1,5	KN-460-8-EG002

DN 12

Coupling element	Operating method	Design	Thread	Order number
Coupling mechanism	depressurized coupling	built-in	none	KM-12-N001
		threaded body	M45x1,5	KM-12-EG001
	pressurized coupling	built-in	none	KM-12-N002
		threaded body	M45x1,5	KM-12-EG002
Coupling nipple	depressurized coupling	built-in	none	KN-12-S001
		threaded body	M45x1,5	KN-12-EG001
	pressurized coupling	built-in	none	KN-12-S002
		threaded body	M45x1,5	KN-12-EG002

Coupling systems for highest standards

Double-acting coupling nipple unit with 13 cm³ hydraulic accumulator (l.), coupling mechanism board (r.) and safety holder for coupling mechanism board with proximity switch (b.).

Manual coupling systems

Diameter nominal	: 5
Operating pressure	: pmax. 500 bar
Design	: clamping unit with levers or ball valve
Operating method	: single-acting or double-acting
Oil supply	: manifold or G1/4 threaded port connection
Hydr. accumulator	: 13 cm³ or 40 cm³
Product range	: standard systems and special designs
Advantages	- integrated safety elements
	- no mixing up of pressure line and tank line
	- system pressure remains during coupling
	- oil supply without pipes possible

Data sheet: 100-2 **Webcode:** 010002

Description:

Manual coupling systems are applied with machine tools that operate with hydraulic fixtures but do not have a standard equipment of a hydraulic interface for oil supply to the fixture pallet.

The operating personnel take care of coupling and decoupling. In contrast to quick-locking couplings, manual couplings do not bear the danger of mixing up pressure line and tank line. Also, the coupling process is made much faster.

After clamping the workpiece it is easy to unclamp the system without effort by the use of a hydraulically piloted check valve. Also the system pressure remains.

Required safety elements are already integrated. These include one hydraulic accumulator one check valve and one pressure relief valve which protects the hydraulic accumulator from a pressure rise over 10%.

As standard the manual coupling systems are equipped with manifold and G1/4 threaded ports for oil supply.

All flange-on surfaces have O-ring counterbores on the bottom and on the rear side, which also allow oil supply without pipes through drilled ducts.

A safety holder with an inductive proximity switch is optionally available for the double-acting coupling system. The safety holder keeps the coupling mechanism board in the decoupled state into a parking station.

Through the integrated proximity switch the safety holder can be directly connected with the machine control. With that, the pallet transport is only permitted in decoupled state.

With the help of a equalizer valve in the coupling nipple of the T-port the pressure rise is limited to about 5 bar in decoupled state, e. g. when a leakage in the system occurs.

Coupling nipple unit

MKN

Example

Oil supply via manifold or G1/4 threaded port connection

Integrated hydraulic accumulator with volume nominal 13 cm³ or 40 cm³

With integrated check valve and pressure relief valve

Coupling mechanism board

MKM

Example

Coupling mechanism board with levers, it is used to lock the coupling nipple unit for pressure transfer.

Allows quick and easy coupling by the user.

Safety holder

MKS

Example

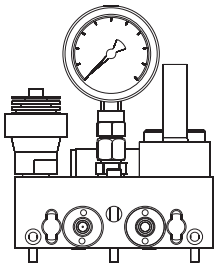
Safety holder with inductive proximity switch and plug (cable length 3 m).

The safety holder takes up the uncoupled coupling board into a parking station.

Manual coupling systems

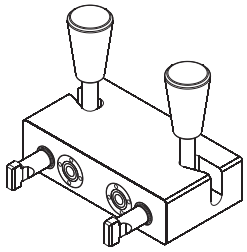
Order numbers:

MKN



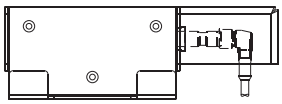
System component	Special feature	Order number
Coupling nipple unit	Flange bottom-side	MKN-460-5-011
	Flange bottom-side	MKN-460-5-009
	Flange rear-side	MKN-460-5-013
	Flange rear-side	MKN-460-5-015
	G1/4 threaded port	MKN-460-5-012
	G1/4 threaded port	MKN-460-5-014
O-ring 16x2	Spare part, material FKM, for manifold con.	6020-001
Pressure gauge	Spare part, 0 - 600 bar	8200-000
Pressure reliefe valve	Spare part, opening pressure 425 bar	8000-003
Check valve	Spare part, hydraulic, pilot operated	ERSV-500-5-003
Coupling nipple DN 5	Spare part, depressurized coupling	KN-460-5-EG004
Coupling nipple DN 5	Spare part, with pressure reliefe function	KN-460-5-EG006
Hydraulic accumulator 13 cm³	Spare part	8200-001
Hydraulic accumulator 40 cm³	Spare part	8200-002

MKM



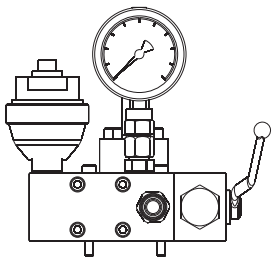
System component	Special feature	Order number
Coupling mechanism board	with levers	MKM-460-5-100
Coupling mechanism	Spare part, DN 5	KM-460-5-EG008
System seal	Spare part, red (packaging unit 10 pcs.)	D-460-5-001

MKS



System component	Special feature	Order number
Safety holder	Complete set	MKS-5-001
Plug	Spare part, with 3 m cable	8500-032
Inductive proximity switch	Spare part	8500-031
holder frame	Spare part	9000-101

MK



System component	Special feature	Order number
Coupling unit with ball valve	Flange bottom-side	MK-5-001
Coupling unit with ball valve	Flange bottom-side	MK-5-002
Pressure reliefe valve	Spare part, opening pressure 425 bar	8000-003
Flat face plug	Spare part, with dust cover	8100-019
Hydraulic accumulator 13 cm³	Spare part	8200-001
Hydraulic accumulator 40 cm³	Spare part	8200-002
Ball valve	Spare part	8100-018
Pressure gauge, 0 - 600 bar	Spare part, 0 - 600 bar	8200-000
Coupling sleeve	Spare part, with G1/4 threaded port	8100-027
O-ring 16 x 2	Spare part, material FKM, for manifold con.	6020-001
O-ring	Spare part, for flange bottom-side	6014-002
U-seal	Spare part	6006-003
Screw plug G1/4	Spare part	7900-001
Screw plug M6x60	Spare part, according to DIN 912	7006-022

MK Manual coupling unit with ball valve

The coupling unit with ball valve can be connected optionally at factory by flange-bottom, flange-rear or rear threaded port.
The coupling mechanism board MKM and the safety holder MKS are not required for this coupling system.

Additional technical data and dimensional drawings of the manual coupling systems can be found on the data sheet 100-2.

Coupling systems for highest standards

Multiple coupling systems

Diameter nominal	: 3, 5, 8 and 12
Operating pressure	: pmax. 250 - 500 bar
Design	: for customer-specific requirements
Operating method	: pressurized or depressurized coupling
Medium	: fluid or gaseous media or vaccum
Material	: coupling elements made of stainless steel
Product range	: standard systems and special designs
Advantages	- combinable with different coupling elements
	- can be combined with rotary couplings
	- additional functions can be integrated
	- designs acc. to customer's requirements
	- self-locking

Data sheet: 100-4 **Webcode:** 010004

Description:

Multiple coupling systems are predominantly used in machine tools, where they serve as the interface for media transfer between the fixture pallet and the loading and unloading station, or the machining station.

Applications have been successfully carried out in other areas of engineering, such as handling technology, robotics and in the construction of moulds and dies.

The design of the coupling systems is based on the built-in coupling elements (see pages 2 and 3) These are integrated into a common plate in a very compact and functional manner.

Depending on the design, various additional functions can be integrated into the coupling plates.

The spring-loaded blast nozzle built into the coupling mechanism plate can be designed in such a way that the jet of air in the coupled state can, for example, be passed on for system monitoring of the workpieces.

In order to avoid the clamping of the fixture pallet and the associated absorption of coupling forces, the coupling systems can be equipped with a self-locking system that saves on additional, expensive clamping elements in the operating station.

The coupling elements can be coupled either only when depressurized or when pressurized up to maximum operating pressure, whichever is chosen.

If systems are used that can be coupled under pressure, it is, for example, possible to effect a pressure change to the clamping pressure during machining, which is not possible when pilot-controlled check valves are used in the clamping line.

Hydrokomp designs also single coupling systems. The example shows a KMP (Coupling mechanism plate) with a coupling mechanism DN 5 for depressurized coupling. The KMP is equipped with a cleaning nozzle.

We show more application examples on the pages 7 and 8.

General technical data:

Nominal diameter:		3	5	8	12
Operating pressure max.	[bar]	350	500	300	250
Flow max./minute	[l]	8	12	25	50
Coupling stroke	[mm]	4,5	4,5	7,0	10,0
Coupling force min. at 0 bar	[N]	94	98	98	169
Coupling force axially, pressurized each coupling position		**F**[N]=9,4x**p**[bar]	**F**[N]=15,4x**p**[bar]	**F**[N]=31,4x**p**[bar]	**F**[N]=70,7x**p**[bar]
Position tolerance axially	[mm]	+ 0,5	+ 0,5	+ 0,5	+ 0,5
Position tolerance radially	[mm]	± 0,3	± 0,3	± 0,3	± 0,5
Permitted angle tolerance		± 1°	± 1°	± 1°	± 1°

Additional information about the multiple coupling systems can be found on the data sheet 100-4.

Single and multiple coupling systems in application

Coupling system with cleaning nozzle

Single coupling system with cleaning nozzle, (DN 5) depressurized coupling, housing according to customer's demands

l. Coupling nipple plate: coupling nipple threaded body type

r. Coupling mechanism plate with cleaning nozzle: coupling mechanism built-in type

Single coupling system

Single coupling system, (DN 3) depressurized coupling, housing according to customer's demands

l. Coupling mechanism plate: coupling mechanism threaded body type

r. Coupling nipple plate: coupling nipple threaded body type

Single coupling system, G1/2 threaded port

Single coupling system, (DN 8) with threaded port G1/2, depressurized coupling, housing according to customer's demands

l. Coupling nipple plate: coupling nipple, built-in type

r. Coupling mechanism plate: coupling mechanism, built-in type

Innovative docking system for a pallet changing system and other changing systems:

Saves components and costs

Rotary valve coupling system (KDS) [Kupplungs Drehdurchführungssystem] is the name of HYDROKOMP's innovative docking system. Our designers found a way to clamp pallets in the loading and unloading station by the combined rotary valve coupling station instead of clamping them through hydraulically pressurized clamping cones.

This innovative docking system allows machine tool manufacturers and other machine builders to implement cheaper changing systems for workpiece pallets for example, with unchanged safe clamping.

Our customers like DMG, Heckert, Heller, MAG and Makino had asked us for possible savings with pallet changing systems.

As a result our engineers developed the innovative docking system. In the loading and unloading station it allows a detachable connection with hydraulically operated bolt locks. They mechanically connect the lower fixed coupling half in the station with the other half fastened to the pallet, which can both the moved. During the setup and removal process of the workpieces the pallet can be rotated 360°.

The clamping cones including their hydraulic supply are now completely omitted in the loading and unloading station. This results in a significant reduction of costs – being the multiple of the additional KDS expense compared to the common rotary coupling. This coupling principle can be used for changing tools, grippers or even other machine components, like for example stamping robots.

As the coupling half can be contaminated during the chipping operation in the loading and unloading station, a specially designed blow nozzle is integrated. It is set centrically and connected to the compressed air supply.

In order to ensure universal application, the conduit elements are made of stainless steel. That means they can also convey aggressive coolants and gases. Up to 16 guiding ducts are conventional.

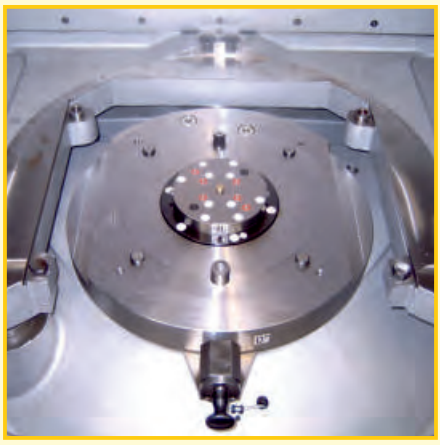
As standard, the KDS is designed for pallets up to size 1,600 x 1,600 mm.

The system pressure can be up to 200 bar. Depending on the application conditions, the rotary coupling systems can be chosen for a conveyance of 8 to 50 l/min. Depending on the design, the diameters of the KDS are 40 to 200 mm.

KDS and coupling plates

Machining table

Loading and unloading station



Multiple coupling systems in application

Combined rotary coupling system

Combined rotary coupling system for a machine tool with four-fold coupling interface and integrated six-fold rotary coupling

l. Coupling mechanism plate, depressurized coupling

r. Coupling nipple plate with blast nozzle and integrated rotary coupling with hydro-mechanical locking

Docking station with six coupling points

Docking station with six coupling points, pressurized coupling; in order to dock the coupling plate, it is raised by an integrated hydraulic cylinder. An electronic sensor queries the position.

The positioning of the counter-couplings is executed by two bolts.

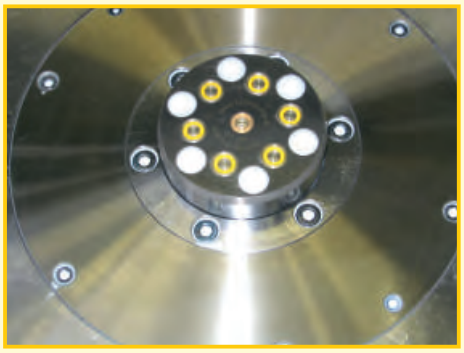
Twelve-fold mechanism plate

Twelve-fold coupling mechanism plate with centering bolt, depressurized coupling, special design according to customer's requirements

Six-fold coupling system

Six-fold coupling system with self-locking, two pairs of lines are each pressurized double-acting and two lines are used for pneumatics. The fixture pallet does not have to be clamped in the loading station in order to absorb the coupling forces. For this purpose, the system has the self-locking function.

Coupling plate for oil transmission



Coupling plate used for the transfer of hydraulic oil in the loading and unloading station of a fixture plate. The six coupling elements are coupled pressurized.

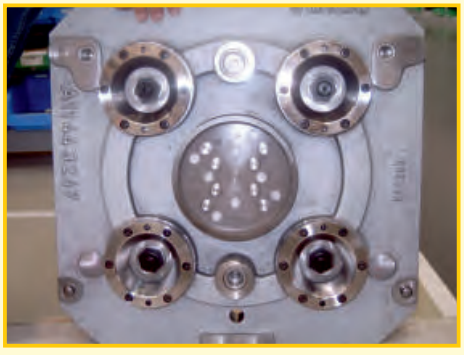
Tool changing modules of a robot

Coupling system for extrem low leackage hydraulic oil fed in tool changing modules of a robot, for that two hydraulic lines are coupled by threaded body coupling elements (M24x1,5).

Triple coupling system

Triple coupling system for hydraulic oil fed of the fixture plate in a machine tool. The connection in the loading and unloading station is executed through the lowering of the fixture plate.

Coupling nipple plate



Coupling nipple plate in the fixture plate of a machine tool. The nipple plate is docked to the docking unit (figure above) and hydro-mechanical locked.

Tool-change system

Tool-change system for a handling unit in a robot with four coupling elements (DN 8) that works as the interface for a hydraulically operated cutting tool.

Automatic coupling mechanisms

Diameter nominal	: 5 and 8
Operating pressure	: pmax. 350 bar
Design	: built-in and threaded body elements
Operating method	: pressurized or depressurized coupling
Medium	: fluid or gaseous media or vaccum
Material	: coupling elements made of stainless steel
Product range	: standard elements and special designs
Advantages	- selective control of individual ports
	- no additional coupling stroke required
	- can be coupled with divers media

Data sheet: 100-6 **Webcode:** 010006

Description:

If there is no coupling stroke required or possible, this coupling system can be coupled separately by a control pressure.

The gap between the coupling mechanism and coupling nipple can be 0.2 - 1.4 mm.

The control pressure should correspond to the media pressure on port **P**.

Diverse media can be coupled. But the pilot control should be done hydraulically.

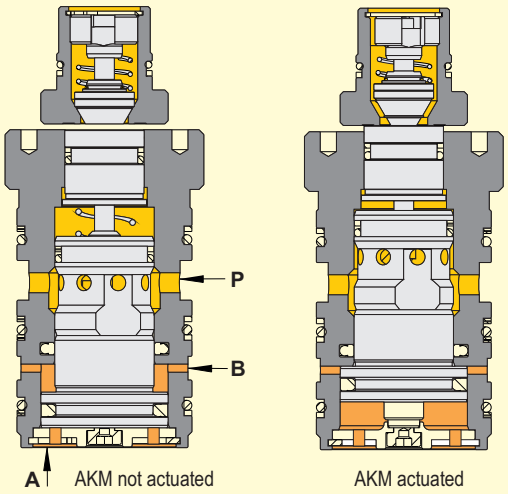
Both coupling surfaces of the AKM system are flat at the front end. So the user can put it in any axially and/or radially position for coupling and controlling.

The coupling stroke is initiated by an integrated control piston. Thus enables also a precise control of individual ports.

When the control port is not pressurized, the AKM is set into the basic position. The maximum operating pressure is 350 bar.

The AKM can be operated single-acting or double-acting. If the AKM should operate single-acting, the port **B** must be used for housing ventilation.

1. Operating pressure on port **P**
2. Control port **A**: the connection to the coupling nipple side is initiated.
3. After connecting the coupling mechanism with the coupling nipple, the plunger of the nipple will be actuated as part of the active motion sequence and the flow in the coupling nipple will be set free.



Winner of the EMO Award 2013

Most innovative product in clamping technology

General technical data:

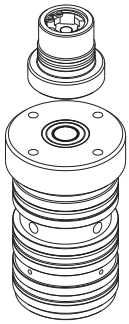
Diameter nominal:		5	8
Operating pressure max.	[bar]	350	350
Flow max./minute	[l/min]	12	25
Gap nipple/mechanism min.	[mm]	0,2	0,2
Gap nipple/mechanism max.	[mm]	1,4	1,4
Coupling force axially, pressurized	[N]	**F**(N)=15,4 x **p** [bar]	F[N]=31,4 x **p** [bar]
Position tolerance radially	[mm]	± 0,3	± 0,3

Additional technical data and dimensional drawings of the automatic coupling mechanisms can be found on the data sheet 100-6.

Automatic coupling mechanisms (AKM systems)

Order numbers:

Built-in

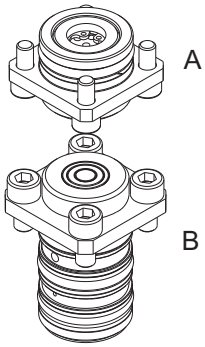


System component	Special feature	Order number
Coupling nipple	DN 5, double-acting	**KN-5-EG024**
Coupling mechanism	DN 5, double-acting	**AKM-5-01-DW-001**
Coupling nipple	DN 8, double-acting	**KN-8-EG009**
Coupling mechanism	DN 8, double-acting	**AKM-8-01-DW-001**

Built-in system

A = Coupling nipple
B = Coupling mechanism

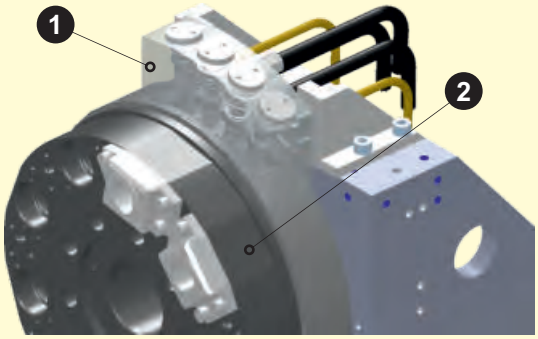
Threaded body



System component	Special features	Order number
Coupling nipple	DN 5, double-acting	**KNP-5-01-009**
Coupling mechanism	DN 5, double-acting	**AKM-5-01-DW-002**
Coupling nipple	DN 8, double-acting	**KNP-8-08-001**
Coupling mechanism	DN 8, double-acting	**AKM-8-01-DW-002**

Threaded body system

A = Coupling nipple
B = Coupling mechanism



Application example:

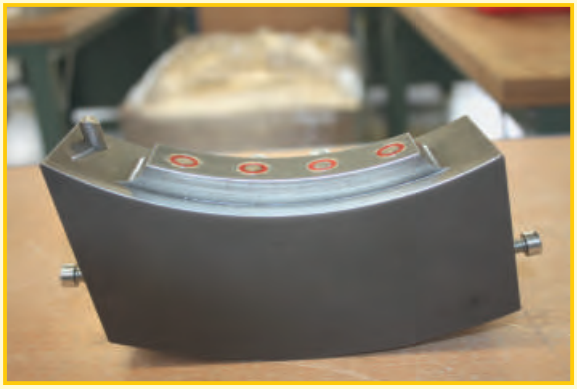
Tool changer

Revolver fixture for nine tools each with
4 automatic coupling mechanism systems (AKM)

Actuation:
- by a common control port

Operating method:
- single-acting

(1) Receiving block with AKM
(2) Coupling nipples in the revolver fixture



(1) Receiving block with AKM

(2) Coupling nipples in the revolver fixture
(with a total of 36 coupling nipples)

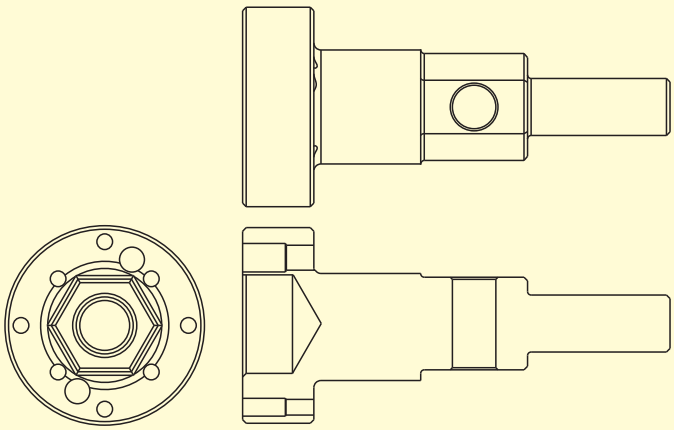
Screw-in tools for coupling elements

These tools are used to screw the coupling mechanisms and coupling nipples secure into the housing.

The screw-in tool can be tightened for example by a cordless screwdriver or wrench.

There are different screw-in tools for coupling mechanisms and coupling nipples available. They differ in their pin layout and various diameters.

Data sheet: 100-5 **Webcode:** 010005



Order numbers:

Screw-in tools

Screw-in tool	Diameter nominal	Coupling element	Order number
for coupling mechanisms	3	KM-3-EG001	9000-057
		KM-3-EG002	
	5	KM-460-5-EG002	9000-007
		KM-460-5-EG008	
		KM-460-5-EG001	9000-010
		KM-460-5-EG003	
		KM-460-5-EG004	9000-014
		KM-460-5-EG007	
	8	KM-460-8-EG001	9000-058
		KM-460-8-EG002	
for coupling nipples	3	KN-3-EG001	9000-057
		KN-3-EG002	
	5	KN-460-5-EG002	9000-007
		KN-460-5-EG003	
		KN-460-5-EG001	9000-012
		KN-460-5-EG004	
		KN-460-5-EG006	
	8	KN-460-8-EG001	9000-173
		KN-460-8-EG002	

Tools for diameter nominal (DN) 12 on request.

Mounting tools

Coupling mechanisms by HYDROKOMP are designed in such a way that the front system seal can be replaced.

This seal is subject to wear in dailly use as a result of contamination and metal swarf.

If the coupling mechanism itself shows no damage the system seal can be replaced separately.

This can be done by the user or external service personnel.

HYDROKOMP has developed a suitable mounting tool to execute the replacement of the system seal simply and safe.

Data sheet: 100-5 **Webcode:** 010005

Replacing the system seal:

Pull out the old damaged system seal from the pilot groove with a scriber.

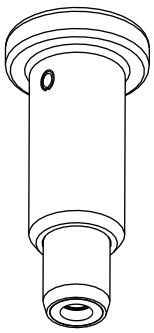
Insert the new system seal into the peak of the mounting tool manually and set the tool to position above the coupling mechanism.

By manual pressure insert the system seal exactly and in correct bearing position into the axially groove of the coupling mechanism.

The replacement is simple to handle and can be done in only a few minutes to make the coupling mechanism ready for the next use.

Order numbers:

Mounting tools



Accessory	Special feature	Order number
Mounting tool	for coupling mechanisms (KM), DN 3	9000-011
	for coupling mechanisms (KM), DN 5	9000-010
	for coupling mechanisms (KM), DN 8	9000-013
	for coupling mechanisms (KM), DN 12	Request
	(Packaging unit system seal: 10 pcs.)	
System seal	for KM, DN 3, red, depressurized coupling	D-3-001
	for KM, DN 3, yellow, pressurized coupling	D-3-002
	for KM, DN 5, red, depressurized coupling	D-460-5-001
	for KM, DN 5, yellow, pressurized coupling	D-460-5-002
	for KM, DN 8, red, depressurized coupling	D-460-8-001
	for KM, DN 8, yellow, pressurized coupling	D-460-8-002
	for KM, DN 12, red, depressuized coupling	D-12-001
	for KM, DN 12, yellow, pressurized coupling	D-12-002

Mounting tool for diameter nominal (DN) 12 on request.

HYDROKOMP

Partner for mechanical engineering and fixture construction

Brand products and top service

Founded 1998, HYDROKOMP designs, manufactures and distributes hydraulic components, coupling systems and clamping technology for mechanical engineering, fixture construction, tooling and many other branches of industry also for different operating conditions.

Constructive ideas and customer-specific designs are our particular strengths.

Our qualified employees and our modern CNC machinery ensure high flexibility product variety and quality according to DIN EN ISO 9001.

TÜV PROFI CERT ISO 9001 73 100 1800

Consultation, development and manufacturing

Beginning with the consultation, over to product training and up to complete development of customer specific solutions, our applications engineers and design engineers are available to support and assist you.

Consistent accuracy

HYDROKOMP products are designed for long-lasting application in rough industrial daily routine. Our customers can surely trust that the process will flow smoothly.

Each and every one of our products is developed and manufactured according to the highest quality standards.

With modern CAD systems we design new solutions. After that, current procedures of precision manufacture and quality assurance are next in process.

Before a product is released it has to prove its quality with an endurance test. The result: Ideas and quality right from the start.

Proven many times in practice

Hydraulic elements and coupling systems by HYDROKOMP are already in use very successfully in the most various industrial branches. These are for example:

- **Agricultural technology**
- **Machinery installations**
- **Resources**
- **Production engineering**
- **Molds and tools**
- **Handling technology**
- **Machinery**
- **Fixtures**
- **Packaging machinery**
- **Machine tools**

HYDROKOMP
Hydraulische Komponenten GmbH

Siemensstraße 16, 35325 Mücke (Germany)
Phone: +49 6401 225999-0
Fax: +49 6401 225999-50
E-mail: info@hydrokomp.de
Internet: hydrokomp.de

References

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