



# Series 200KL Coupling System

for block or plate assembly

aerospace  
climate control  
electromechanical  
filtration  
**fluid & gas handling**  
hydraulics  
pneumatics  
process control  
sealing & shielding



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# UNIQUE – LIKE YOUR APPLICATION.



This modular integrated coupling system has been developed on the basis of our tried-and-tested 200KL coupling range. The leak-free couplings and valved plug in stainless steel AISI 316 L can be used in both block and plate installation, providing maximum construction flexibility at the same time as reducing the diversity of components.

The spectrum covers sizes 3, 4, 6, 9, 12 and 19 mm. For maximum efficiency, the individual sizes can be combined as desired for the application, i.e. all sizes can be built into one application together and coupled simultaneously. Our team will be pleased to help you devise your customised solution - talk to us!



Block Assembly

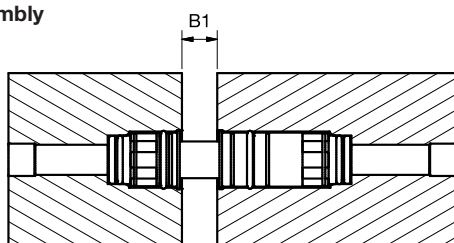
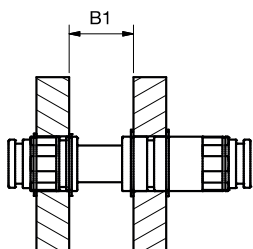


Plate Assembly



## Block/Plate Assembly

As required, the couplings can be assembled directly on a block or a plate by means of locking rings. In the case of block assembly, a special sealing system seals the couplings directly in the block. For maximum flexibility, all nominal sizes can be selected and combined as desired. The couplings are installed on floating bearings, which facilitate optimum balancing in the case of axial deviations.



## Individual Combination

In the modular couplings, the individual sizes from 3 to 19 mm can be combined as desired. As such, they can be adapted completely individually and highly efficiently to your applications.



## Leak-Free Design

Our leak-free coupling systems are fitted on couplings and male plugs with special valves and no dead space volume. Together with the double O-ring seal, on the side of the coupling, they prevent leakage of even the smallest quantities of the medium being channelled. These systems are particularly suitable for aggressive media or in sensitive environments e.g. such as cleanrooms.



### Technical Information

Leak-free coupling systems for block/plate assembly in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media. In the case of block assembly, a special sealing system ensures an optimum seal. Extremely low leakage rate and minimum dead space volume.

Absolutely no air pockets when coupling and a barely noticeable film of the medium being channelled on the valve bodies when uncoupling. Low coupling forces. Valve body protected with collar design.

### Working Temperature\*

-15°C up to +200°C (FKM) depending on the medium.

\* At a temperature below -15°C and above +200°C and due to the medium special seals are available on request (EPDM, FFKM).



### Working Pressure\*\*

15 bar

\*\* maximum static working pressure with safety factor of 4 to 1.

### Material

Coupling: AISI 316 L

Plug: AISI 316 L

Seals: FKM

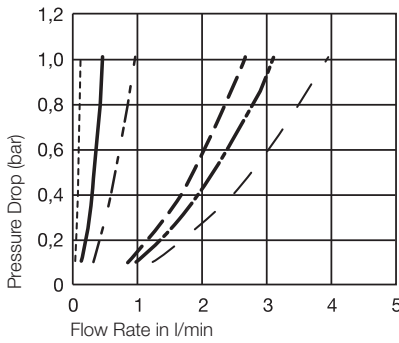
Springs: AISI 316 Ti

### Interchangeability

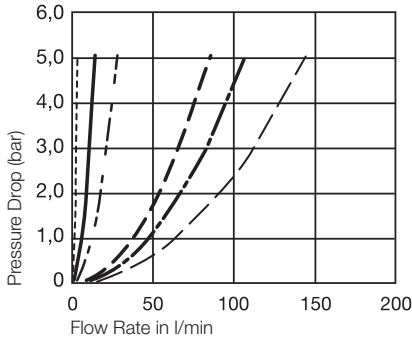
- Rectus Design

### Chart

#### Air



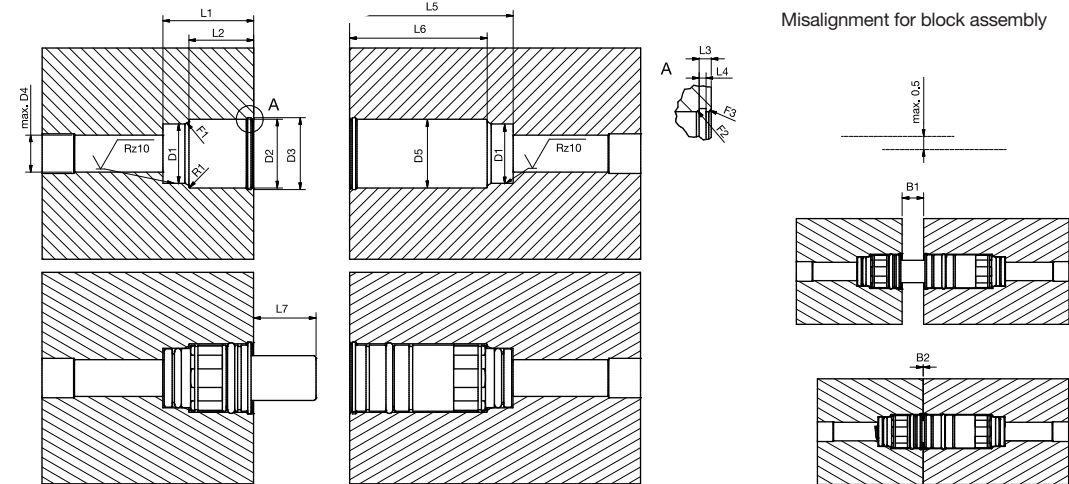
#### Water



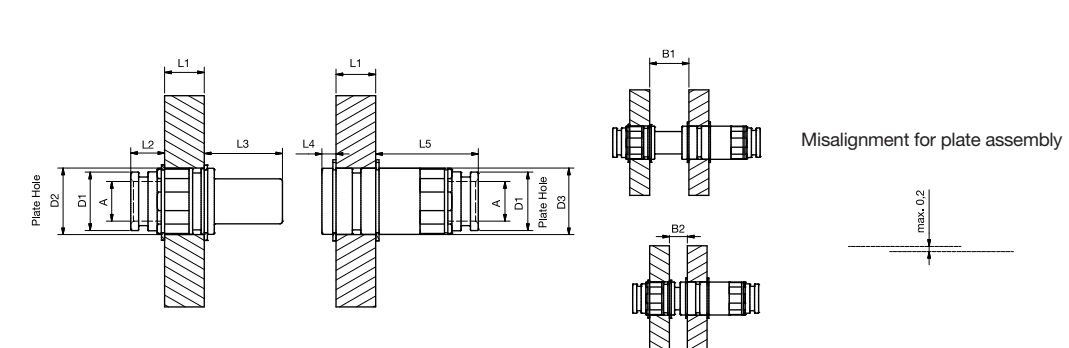
- 203KL      - - - - - 209KL
- 204KL      - - - - - 212KL
- - - - - 206KL      - - - - - 219KL

### Technical Features for block- and plate assembly – Tolerances for production of the holder on request.

#### Block Assembly



#### Plate Assembly





## Couplings – with valve

### Series 200KL

	Series	Connection A	L mm	L1 mm	D mm	D1 mm	Part Number
	203	G 1/16	21,5		11,00		203KLIW08EVXEK
	204	G 1/8	35,7		16,00		204KLIW10EVXEK
	206	G 1/4	53,7		21,00		206KLIW13EVXEK
	209	G 3/8	59,1		25,00		209KLIW17EVXEK
	212	G 1/2	70,9		32,00		212KLIW21EVXEK
	219	G 3/4	77,0		44,00		219KLIW26EVXEK



## Plugs – with valve

### Series 200KL

	Series	Connection A	L mm	L1 mm	D mm	D1 mm	Part Number
	203	G 1/16	28,70	10,75	11,00	5,30	203SLIW08EVXEK
	204	G 1/8	41,90	15,00	16,00	8,40	204SLIW10EVXEK
	206	G 1/4	51,15	19,00	21,00	12,50	206SLIW13EVXEK
	209	G 3/8	57,40	25,80	25,00	17,00	209SLIW17EVXEK
	212	G 1/2	69,70	28,00	30,00	20,00	212SLIW21EVXEK
	219	G 3/4	82,40	32,45	41,00	30,00	219SLIW26EVXEK

## Block Assembly

Series	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	L7 mm	D1 mm	D2 mm	D3 mm	D4 max. mm	D5 mm	R1 max. mm	F1	F2	F3	B1	B2
203	20,10	15,00	2,10	1,10	23,60	18,50	8,75	10,00	12,00	12,50	8,00	12,00	0,50	0,8x30°	–	0,5x45°	5,00	0
204	29,00	22,50	2,10	1,10	37,80	31,35	13,00	14,00	17,00	17,80	10,00	17,00	0,50	1,2x30°	0,5x30°	0,5x45°	8,65	0
206	34,25	26,65	2,10	1,10	55,80	48,20	17,00	18,50	22,00	23,00	12,00	22,00	0,50	1,3x30°	0,5x30°	0,5x45°	11,40	0
209	33,80	24,30	2,30	1,30	61,30	51,80	23,60	22,50	26,00	27,20	14,00	26,00	0,50	1,5x30°	0,5x30°	0,5x45°	16,30	0
212	44,00	34,40	2,30	1,30	73,20	63,60	25,80	28,00	31,00	32,70	16,00	33,00	0,50	1,5x30°	0,8x30°	0,5x45°	15,80	0
219	53,15	41,50	3,15	1,85	80,20	68,50	29,25	33,00	42,00	44,50	23,00	45,00	1,50	1,5x30°	1,0x30°	0,8x45°	20,30	0

## Plate Assembly

Series	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	L7 mm	D1 mm	D2 mm	D3 mm	Connecton A	F1	F2	F3	B1	B2
203	5,00	11,00	12,75	5,50	11,00			9,80	11,2	11,2	G 1/16				16,70	11,70
204	15,00	9,80	17,20	5,50	15,35			13,80	16,2	16,2	G 1/8				20,50	12,70
206	15,00	13,15	23,00	5,50	33,20			18,30	21,2	21,2	G 1/4				25,00	13,50
209	15,00	12,80	29,60	5,30	38,80			22,30	25,2	25,2	G 3/8				29,80	13,50
212	15,00	22,90	31,80	5,30	50,60			27,80	30,2	32,2	G 1/2				29,40	12,30
219	15,00	32,00	35,40	4,40	57,60			32,80	41,2	44,2	G 3/4				33,85	12,30

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