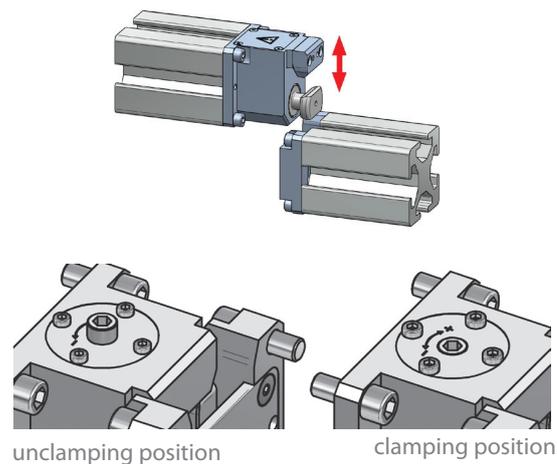


Sectional Rail Couplings

PKV-M

Application area

- Connection of sectional rails of different forms and sizes (e. g. transfer rails in press transfers)
- Connection of fixtures (e. g. grippers) on handling devices and robots



Description

The coupling consists of a passive and an active part made of tempered steel. In the active part the clamping force is generated by means of an axially moving coupling bolt in conjunction with a mechanical clamping gear.

The clamping respectively unclamping procedure may be checked by the position of the operating hexagon (see graphic on the right). The clamping connection is self-locking.

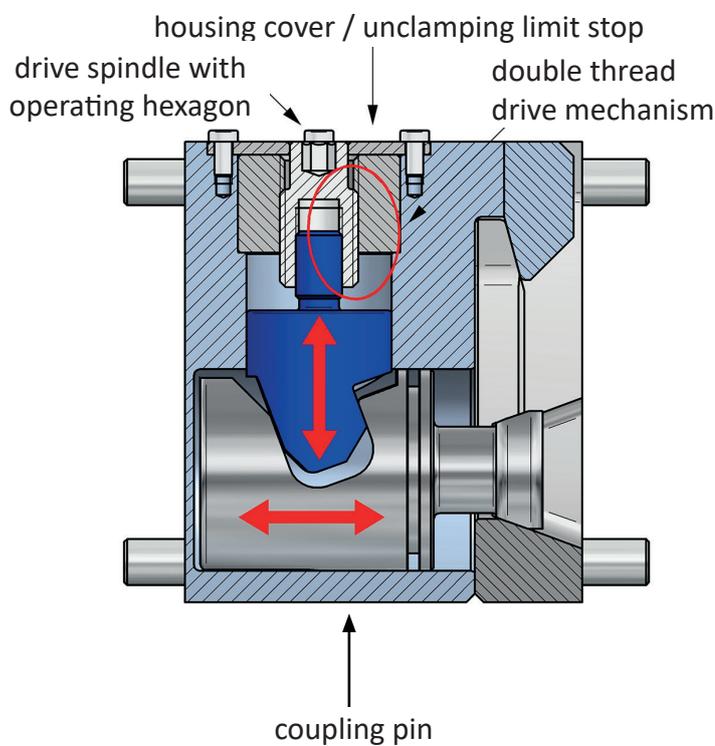
A horizontal coupling path is necessary for the rail change (see top-right graphic).

Advantages

- easy operation
- short clamping times due to double threads
- no operation medium supply necessary
- easy monitoring of clamping status by means of visual indicator

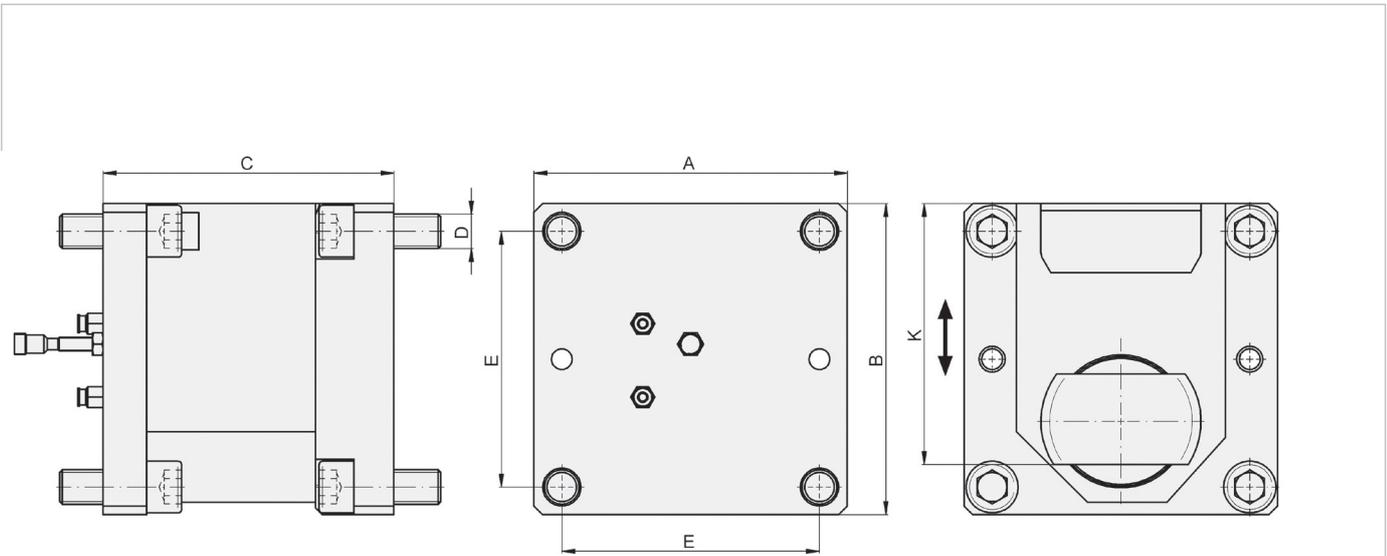
Accessories

- fixing bolts



Sectional Rail Couplings

PKV-M



Example order

Type PKV-M - manual clamping
 Size 140x140 - sectional profile
 Active part / passive part

PKV-M - 140 x 140 - active part

designation	* operating forces				** bending moment [Nm]	TA [Nm]	weight [kg]	couple distance K	compensation		dimensions [mm]				
	FB [kN]	FBmin [kN]	FR [kN]	FRmin [kN]					horiz.	vert.	width A	height B	length C	bore pattern D E	
PKV-M 80x80	20	-	25	-	1000	20	2,5	71	1,5	1,5	80	80	75	4x M8 66	
PKV-M 100x100	30	-	35	-	2000	25	4,8	91	2,5	2	100	100	91	4x M10 82	
PKV-M 120x120	40	-	60	-	3000	30	8	105	2,5	2	120	120	109	4x M12 100	
PKV-M 140x140	60	-	80	-	6500	35	12	122	2,5	2,5	140	140	120	4x M14 115	
PKV-M 160x160	70	-	100	-	7500	40	18	135	3	2,5	160	160	137	4x M16 132	
PKV-M 180x180	80	-	130	-	13000	50	25	154	4	3	180	180	152	4x M20 148	
PKV-M 200x200	80	-	130	-	15000	50	29	168	4	3	200	200	164	4x M20 168	

*FB - tolerable axial operating force at nominal pressure PN = 6 bar (10 bar)

FBmin - minimal operating force at no pressure P = 0 bar

FV - tolerable vertical locking force at PN = 6 bar (10 bar)

FVmin - minimal locking force at no pressure P = 0 bar

**tolerable operating values M x / y / z at nominal pressure PN = 6 bar

Material version: tempered steel, nitrated

Note: version with customer-specific energy coupling for supplying the changing rail with power, air booster (does not belong to the scale of delivery) for 10 bar operating pressure or different sectional profiles (A x B) on demand