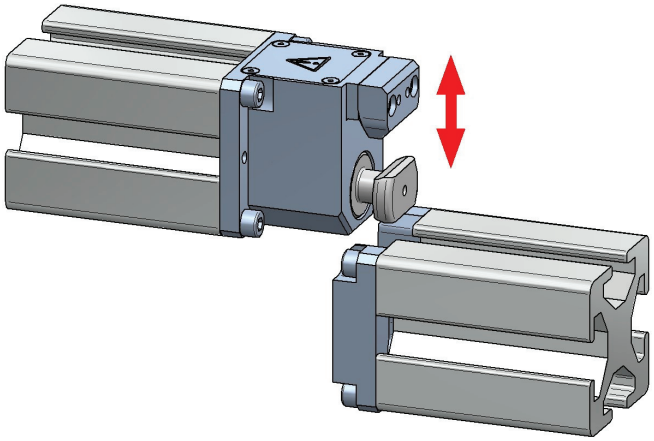
Sectional Rail Couplings
PKV-P



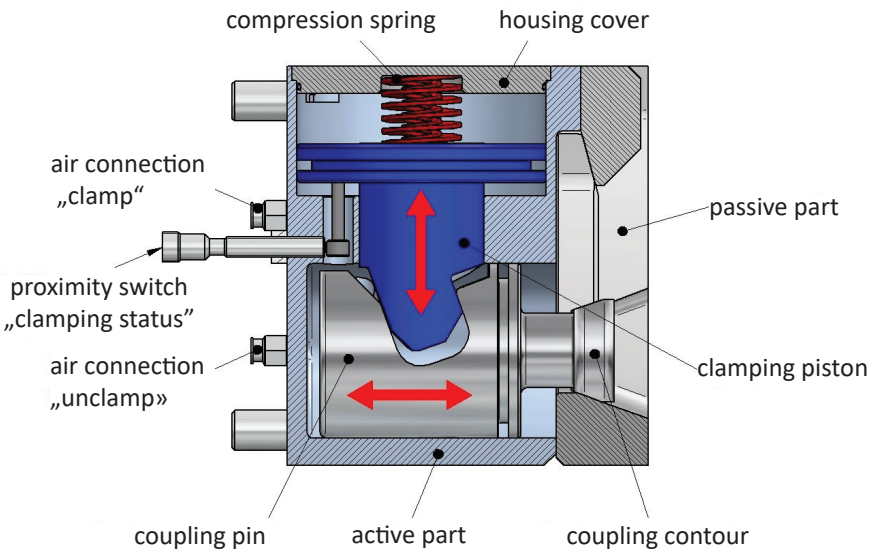
Application area

- 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 pin in conjunction with a mechanical clamping gear.

By means of an integrated compression spring a minimum clamping force is ensured even in case of a pressure drop. Insertion into the active part can optionally be done from above, below or sideways.



Advantages

- easy operation
- clamping procedure may be monitored by initiator
- pneumatic control
- holding force is maintained by means of an integrated spring even in case of pressure loss
- short clamping times

Accessories

- fixing bolts
- optional equipment: proximity switch for monitoring the clamping procedure

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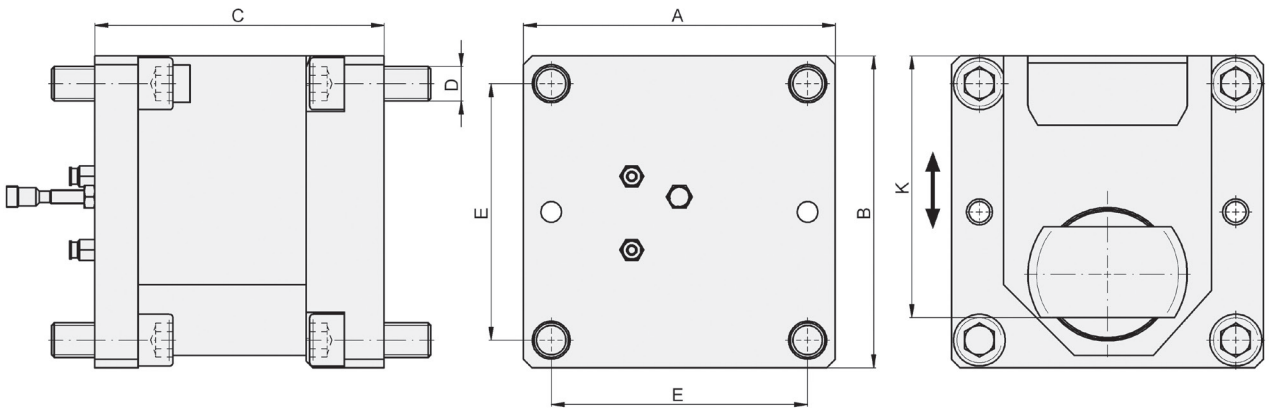

Example order

PKV-P - 140 x 140 - active part

Type PKV-P - automatic clamping (pneumatic)
Size 140x140 - sectional profile
Active part / passive part

designation	*operating forces				**bending moment	weight	couple distance	compensation		dimensions [mm]				
	FB [kN]	FB_{min} [kN]	FV [kN]	FV_{min} [kN]	[Nm]	[kg]	K	horiz.	vert.	width A	height B	length C	bore pattern D	E
PKV-P 80x80	12,5 (18)	3	20 (30)	4,5	1000	2,6	71	1,5	1,5	80	80	80	4x M8	66
PKV-P 100x100	20 (27)	4	30 (40)	6	2000	4,8	89	2,5	2	100	100	95	4x M10	82
PKV-P 120x120	30 (45)	6,5	50 (70)	10,5	3000	8,7	105	2,5	2	120	120	120	4x M12	100
PKV-P 140x140	40 (60)	8,5	65 (90)	14	6500	12	122	3	2,5	140	140	134	4x M14	115
PKV-P 160x160	50 (75)	11	80 (120)	17,5	7500	18	135	3	2,5	160	160	145	4x M16	132
PKV-P 180x180	60 (95)	17	100 (150)	28	13000	26	154	4	3	180	180	164	4x M20	148
PKV-P 200x200	75 (115)	17	125 (190)	28	15000	35	168	5	3,5	200	200	184	4x M20	168

FB - tolerable axial operating force at nominal pressure PN = 6 bar (10 bar)
FB_{min} - minimal operating force at no pressure P = 0 bar
FV - tolerable vertical locking force at PN = 6 bar (10 bar)
FV_{min} - minimal locking force at no pressure P = 0 bar

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

materials: 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.