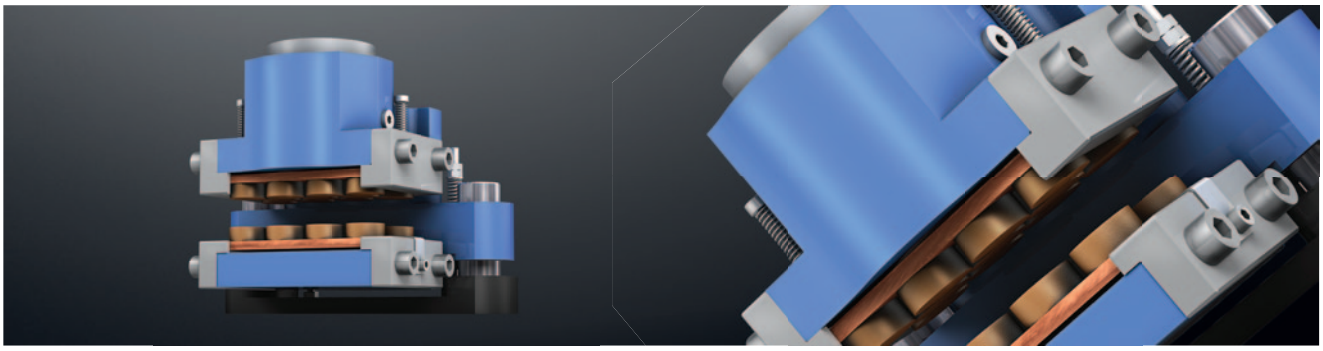
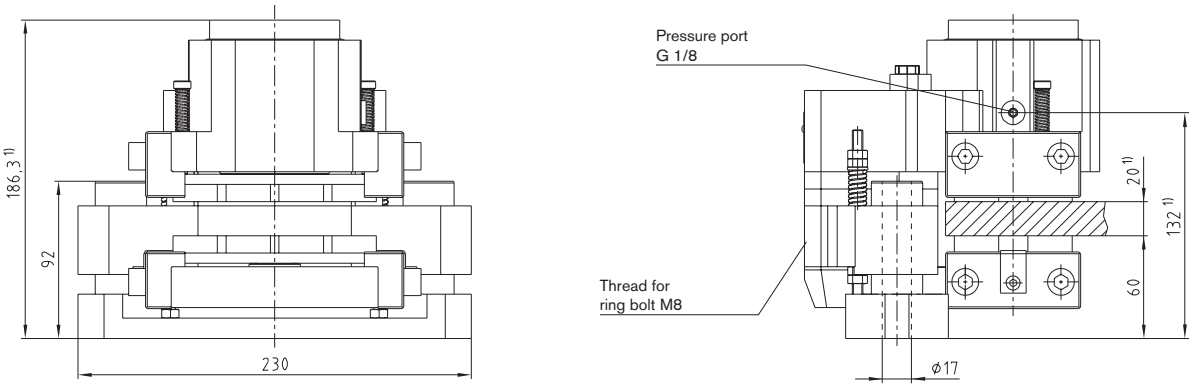
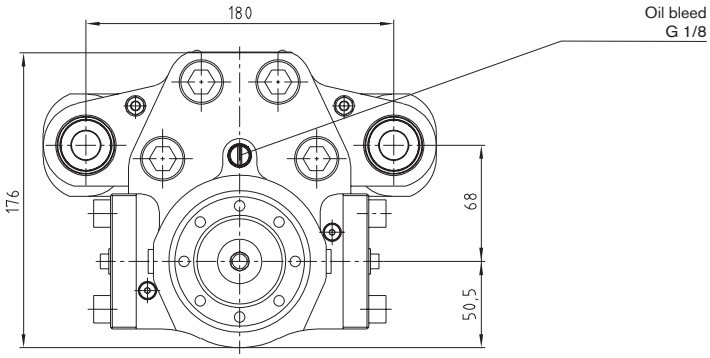
KTR-STOP® XS-xx-F
Passive floating caliper brake

Hydraulic brake system







1) Dimensions and weight depend on thickness of brake disk.

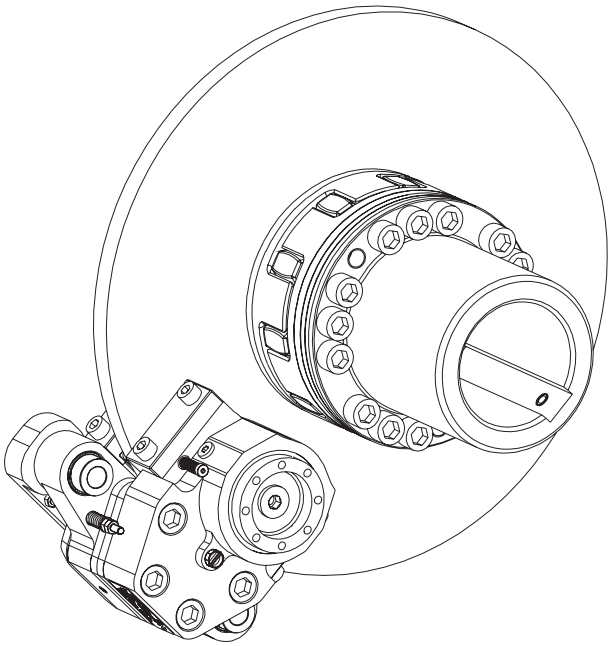
KTR-STOP® XS-xx-F			
Total weight	approx. 20,5 kg	Max. operating pressure	200 bar
Width of brake pad	70 mm	Thickness of brake disk	10 mm - 30 mm
Surface of each brake pad organic	8.000 mm²	Pressure port	G 1/8
powder metal	5.800 mm²	Oil bleed	G 1/8
Max. wear of each brake pad	5 mm	Backlash on axles - towards mounting surface	5 mm
Nominal coefficient of friction 2)	μ = 0,4	Backlash on axles - away from mounting surface	5 mm
Total brake piston surface - complete brake	11 cm²	Min. diameter of brake disk ØD$_A$	300 mm
Volume with 1 mm stroke - complete brake	1,1 cm³	Operating temperature	-20 °C to +50 °C

Types of brakes							
Type of brake 3)	Clamping force F_C [kN]	Power loss 4) [%]	Opening pressure [bar]	Weight 1) [kg]	Braking torque [Nm] with brake disk Ø [mm]		
					315	560	800
KTR-STOP XS-3-F	3	5,5	40	20,5	270	560	850
KTR-STOP XS-6-F	6	6,5	80	20,5	540	1130	1710
KTR-STOP XS-9-F	9	12	130	20,5	820	1700	2570
KTR-STOP XS-12-F	12	11	160	20,5	1090	2270	3420
KTR-STOP XS-15-F	15	8	190	20,5	1370	2840	4280

2) The coefficient of friction each depends on the application or material of the brake pad, respectively. Please consult with KTR.
3) Other types of brakes on request
4) With 1 mm stroke (0.5 mm wear of pad on each side)

Ordering example:

KTR-STOP®	XS	-	6	-	F	A	-	20
KTR brake	Size of brake		Clamping force		Floater	Option		Thickness of brake disk

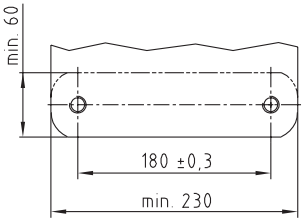


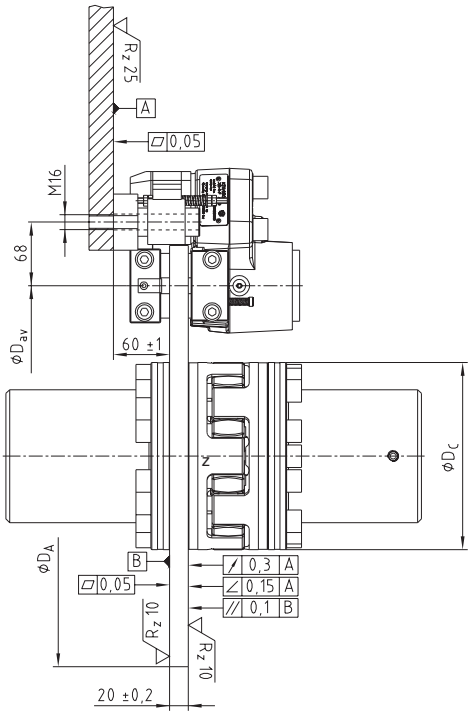
Calculation of brake disk

$$D_{Cmax} = D_A - 195$$

$$D_{av} = D_A - 86$$

Connection dimensions of brake





$$F_b = F_c \cdot 2 \cdot \mu$$

$$M_b = z \cdot F_b \cdot \frac{D_{av}}{2}$$

F_b = Braking force [kN]
F_c = Clamping force [kN]
M_b = Braking torque [kNm]
z = Number of brakes
D_{av} = Effective diameter of brake [m]

Optional

- Various colours available
- Sensor indicating wear of pad and condition
- Temperature sensor
- Alternative materials of brake pad