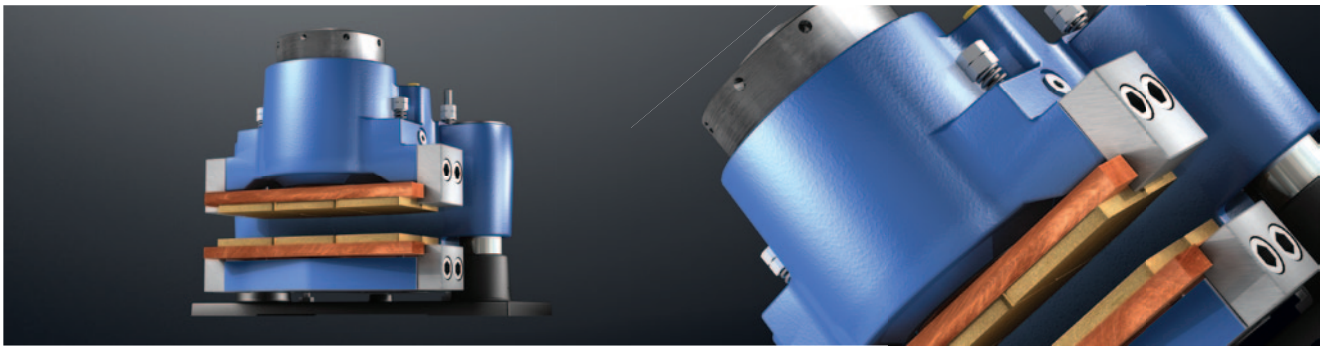
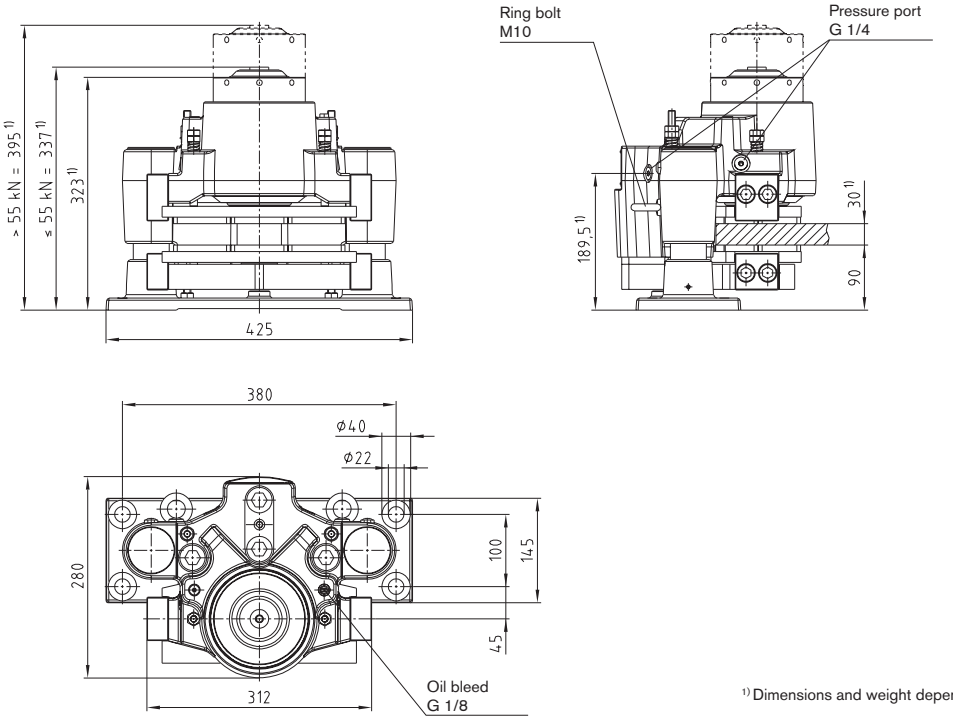
KTR-STOP® S-xx-F
Passive floating caliper brake

Hydraulic brake system





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

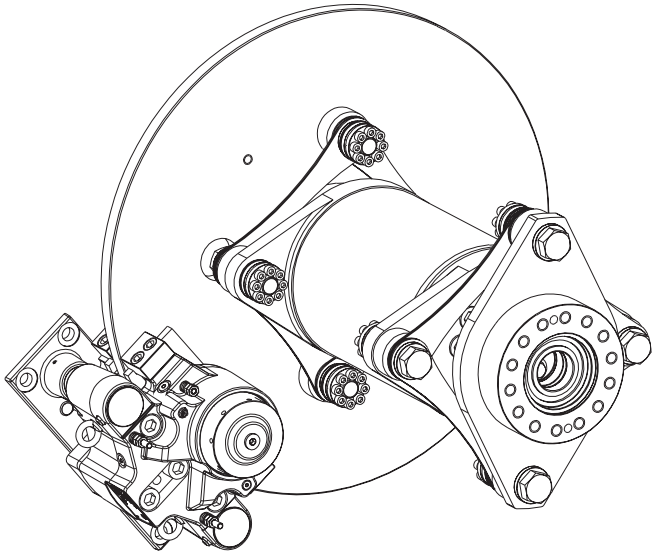
KTR-STOP® S-xx-F			
Total weight	approx. 90 kg - 100 kg 1)	Max. operating pressure	200 bar
Width of brake pad	125 mm	Thickness of brake disk	20 mm - 40 mm
Surface of each brake pad organic	28.700 mm²	Pressure port	G 1/4
powder metal	26.800 mm²	Oil bleed	G 1/8
Max. wear of each brake pad	6 mm	Backlash on axles - towards mounting surface	5 mm
Nominal coefficient of friction 2)	μ = 0,4	Backlash on axles - away from mounting surface	10 mm
Total brake piston surface - complete brake	69 cm²	Min. diameter of brake disk ØD$_A$	500 mm
Volume with 1 mm stroke - complete brake	6,9 cm³	Operation 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]		
					500	710	1000
KTR-STOP® S-20-F	20	4,5	40	90	2900	4600	6900
KTR-STOP® S-40-F	40	6,5	90	90	5900	9200	13900
KTR-STOP® S-60-F	60	7,0	130	100	8800	13900	20800
KTR-STOP® S-80-F	80	5,0	170	100	11800	18500	27800

2) The coefficient of friction each depends on the application or material of the brake, 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:

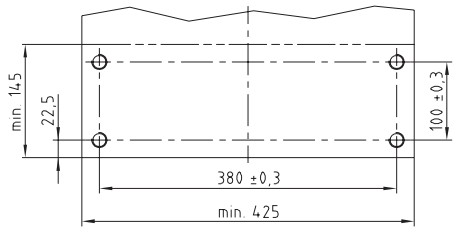
KTR-STOP®	S	-	40	-	F	A	-	30
KTR brake	Size of brake		Clamping force		Floater	Option		Thickness of brake disk

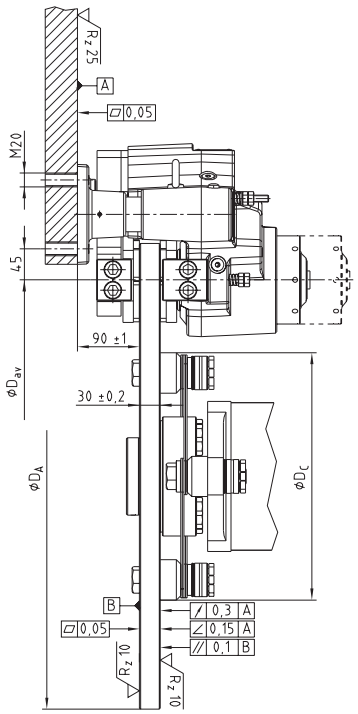


Calculation of brake disk

up to $ØD_A$ = 1000 mm	from $ØD_A$ = 1000 mm to $ØD_A$ = 1800 mm	from $ØD_A$ = 1800 mm
$D_{C\ max.} = D_A - 305$	$D_{C\ max.} = D_A - 295$	$D_{C\ max.} = D_A - 285$
$D_{av} = D_A - 130$	$D_{av} = D_A - 120$	$D_{av} = D_A - 110$

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