

BK10 Series Static Wet Hydraulic Brake

BK10 series static wet hydraulic brake is suitable for lower speed application of scissors type aerial work platform and agricultural machinery and others with wheel mounting.
The feature:

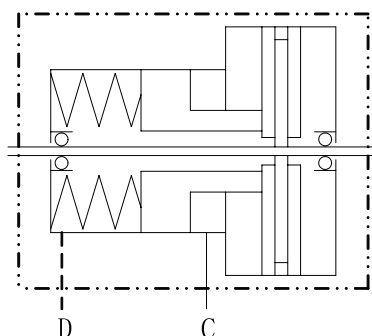
- * The output shaft adopts the same heavy duty roller bearing in front and behind, which is bigger ability on radial load.
- * It adopts optimized disc brake piece and spring load, for reliable braking and good endurance.
- * Optimizing piston and loading mechanism, to provide the minimum dimension of wheel connection method.
- * With double braking release port, in order to discharge the braking cylinder gas or external brake fluid.
- * Big braking torque, suitable for static braking.



Main Specification

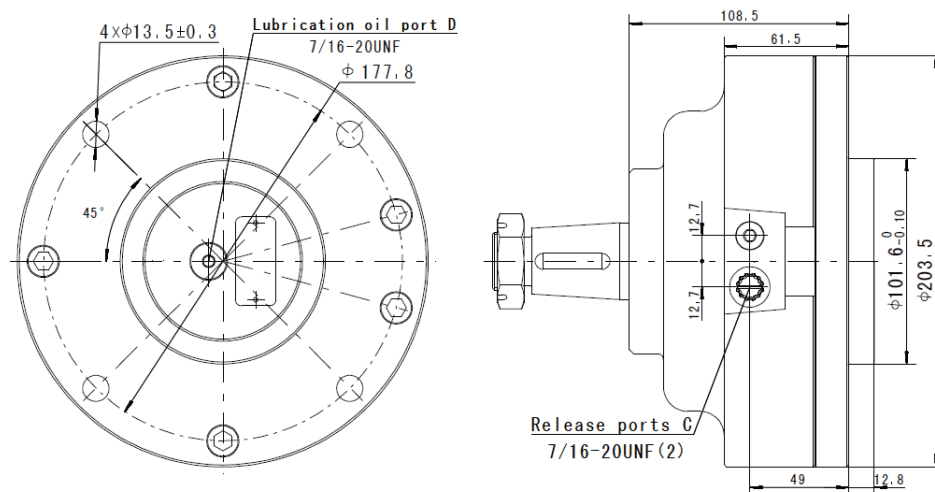
Item	BK10-1	BK10-2
Min. Static Torque [Nm]	1150	1700
Release Pressure [MPa]	2.8	
Max. Release Pressure [MPa]	21	
Max. Speed [rpm]	300	
Release Volume [cm ³]	12	
Oil Volume [cm ³]	140~160	
Max. Pressure of Lubrication oil port [MPa]	0.05	
Weight [kg]	17.6	19.5

Hydraulic systems



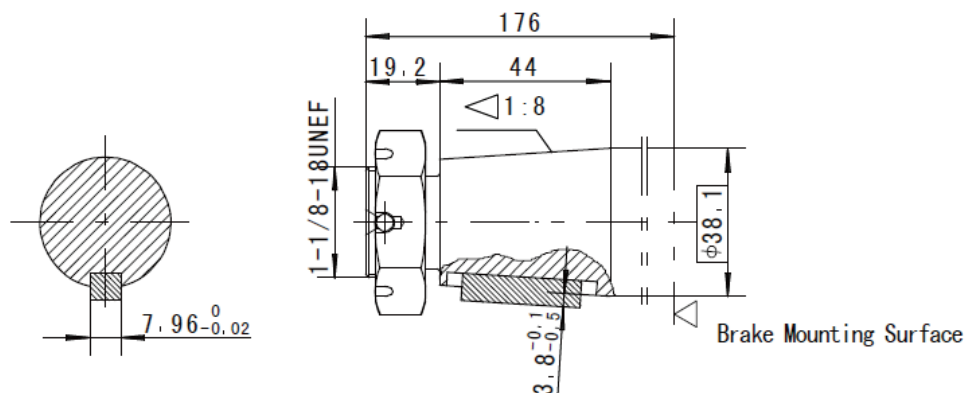
BK10-1 DIMENSIONS AND MOUNTING DATA

S1 Flange and Pilot and Brake Pors



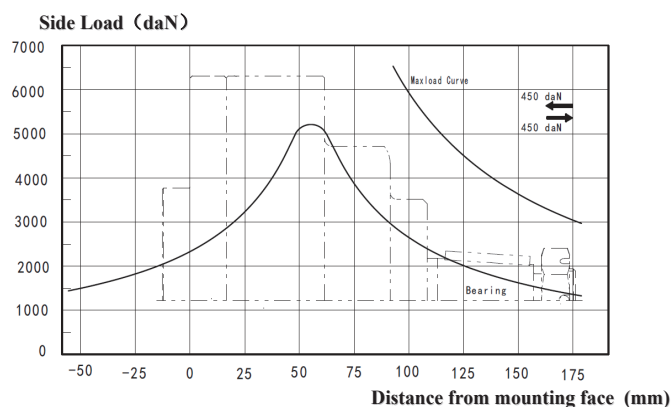
BK10-1 DIMENSIONS OF SHAFT EXTENTSIONS

T31 φ38.1 Cone-shaft 1:8



BK10-1 Mounting Flange Radial Forces

BK10-1 Mounting Flange Radial Forces



Bearing load multiplication factor table

RPM	50	100	200	300	400	500	600	700	800
FACTOR	1.23	1	0.81	0.72	0.66	0.62	0.58	0.56	0.54

Order Information

1 2 3 4 5 6 7 8

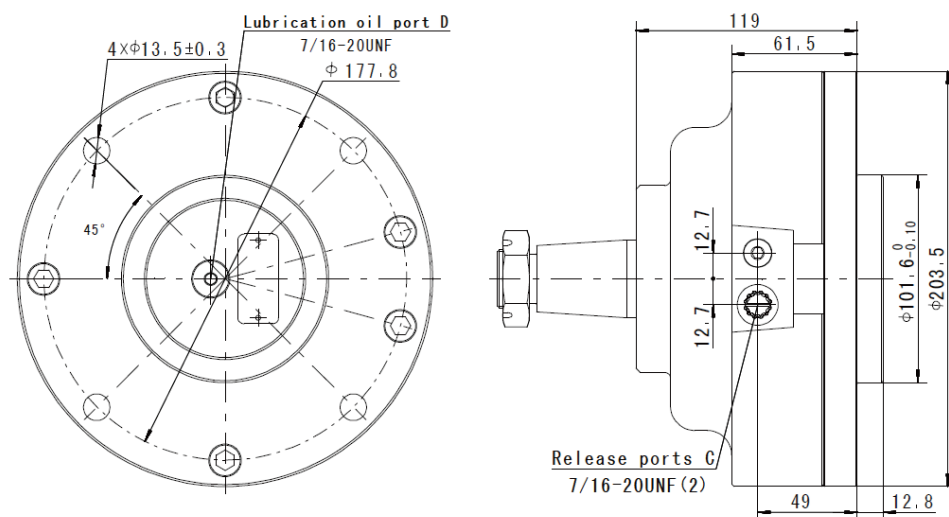
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Pos.1	2	3	4	5	6	7	8
Code	Brake Torque	Output shaft	Flange and Pilot and Brake Pors	Lubrication Port	Paint	Design Code	Nut Code
1	1150	T31 Ø38.1 Cone-Shaft 1:8. Parallel key 7.96x6.5x28.8	S1 Round Flange 4x Ø13.5, Ø177.8, Pilot Ø101.6x12.8, Brake Pors 7/16-20UNF	Omit 7/16-20UNF	B S 00 Omit Black Sliver Grey grey No paint Plaint (Black)	Omit 003	Omit N-Type thick Nut

Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction, output shaft, Flange and Pilot and Brake Pors, Lubrication Port etc.. If the specification is not in the table or you have specific requirements, please contact us.

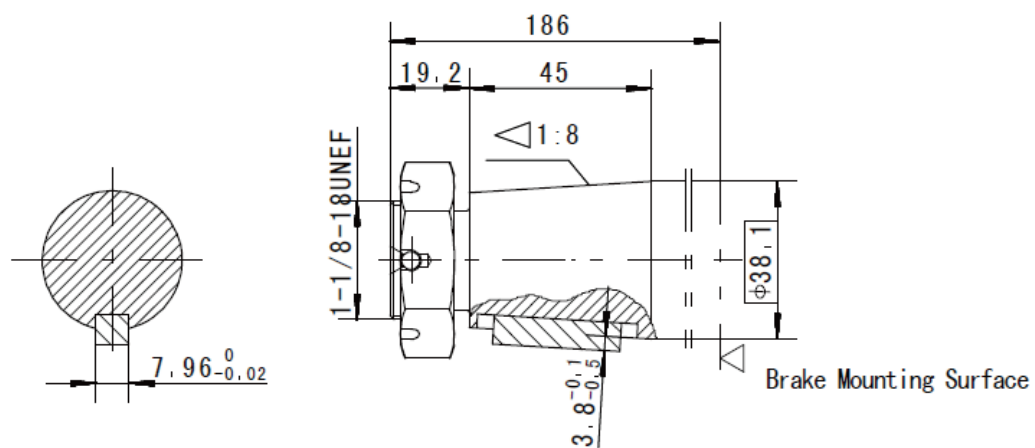
BK10-2 DIMENSIONS AND MOUNTING DATA

S1 Flange and Pilot and Brake Pors



BK10-2 DIMENSIONS OF SHAFT EXTENTSIONS

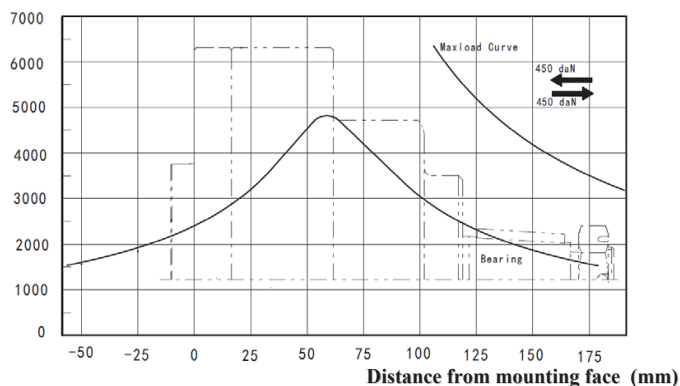
T31 $\phi 38.1$ Cone-shaft 1:8



BK10-2 Mounting Flange Radial Forces

BK10-2 Mounting Flange Radial Forces

Side Load (daN)



The bearing curve represents allowable bearing loads for an L_{10} bearing life at 12×10^6 revolutions.

The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

Bearing load multiplication factor table

RPM	50	100	200	300	400	500	600	700	800
FACTOR	1.23	1	0.81	0.72	0.66	0.62	0.58	0.56	0.54

Order Information

1 2 3 4 5 6 7 8

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Pos.1	2	3	4	5	6	7	8
Code	Brake Torque	Output shaft	Flange and Pilot and Brake Pors	Lubrication Port	Paint	Design Code	Nut Code
2	1700	T31 Ø38.1 Cone-Shaft 1:8. Parallel key 7.96x6.5x28.8	S1 Round Flange 4x Ø13.5, Ø177.8, Pilot Ø101.6x12.8, Brake Pors 7/16-20UNF	Omit 7/16-20UNF	B S 00 Omit Black Sliver Grey grey No paint Plaint (Black)	Omit 003	Omit N-Type thick Nut

Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction, output shaft, Flange and Pilot and Brake Pors, Lubrication Port etc.. If the specification is not in the table or you have specific requirements, please contact us.