



ZDQ2 SERIES HYDRAULIC BRAKE

Introduction

ZDQ2 series brake is one kind of hydraulic wet disc brake. The brake force is caused by the spring, and hydraulic pressure releases the brake force. Features as follows:

- * ZDQ2 series adopts the special friction disc and high strength spring design: long life endurance, low noise, high braking reliability.
- * with 4 Drain port design, the brake can be used in different applications.
- * compact structure, easy mounting.
- * it can be used preferentially together with VNKP, VNKR series hydraulic motor.

Application

ZDQ2 series hydraulic brake stays in braking condition since delivery out of the factory. During normal operation, there exists the braking force in the brake disc, only if the pressure of hydraulic system, that the brake links , is lower than the pressure required by the release of brake, the spring force shall keep the brake in braking condition.

ZDQ2 series hydraulic brake is widely used in heavy duty machinery, such as engineering machinery, cranes, off-highway machinery vehicles, construction machinery, material handling machinery, agricultural machinery, mining, sanitation machinery, timber industries. They are also used in winches and in hydrostatic drive systems for automatization engines.

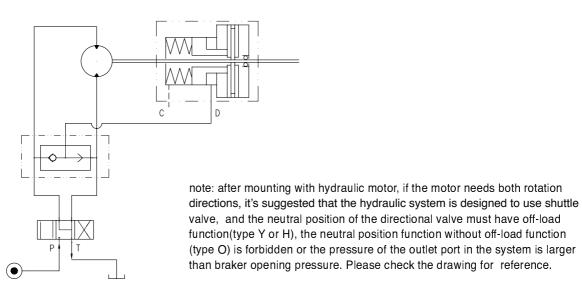
Special Note: such kind of brake is only used in static parking brake. Dynamic braking is not recommended.

Intruction Manual

In order to make the ZDQ2 series brake work under the best situation, we recommend the normal requirements as follows:

- 1.Assembly: 1st of all , we have to mount the brake $\,$ ZDQ2 with $\,$ hydraulic motor, and then fill the brake with lubrication oil through the drain port, and then mount with other parts.
- 2.Fluid type:Mineral based-HM(GB/T763.2-87) (ISO6743/4) or HLP(DIN51524).
- 3. Temperature range: normal -20 -90 the best optimal situation 20 -60
- 4. Viscosity range: 20 75mm²/s; the best optimal situation 42 74mm²/s at 40.
- 5. Filtration: nominal filtration of 25 micron, ISO code 20/16.
- 6.Maintenance: changed after the first 50 100h then after every 500 1000h.

Typical Applications Drawing









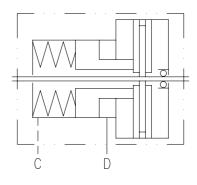




ZDQ2 MOUNTING DATA

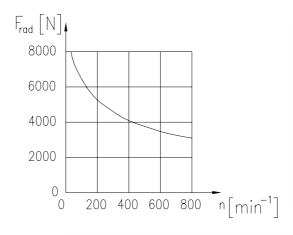
Specification Data

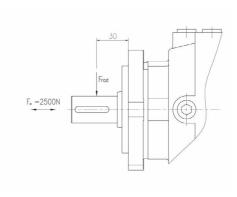
Item	ZDQ2-1		ZDQ2-2
Min. static Torque [Nm]	200~230	410~450	
Min. Opening Pressure [MPa]		1.7~2.3	
Max. Opening Pressure [MPa]			
Min.oil quantity for brake releasing[cm³]			
Oil volume [cm³]		50~120	
Max. pressure in drain space [MPa]		0.05	
Weight [kg]	Ç	9,5	



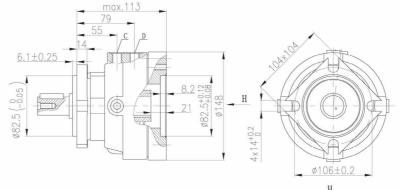
symble drawing

Load Curve

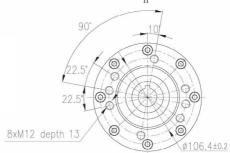




Mounting Data Model ZDQ2-1



- C Drain port -G1/4, 9mm depth; Infuse port in the housing D Brake release port -G1/4, 9mm depth







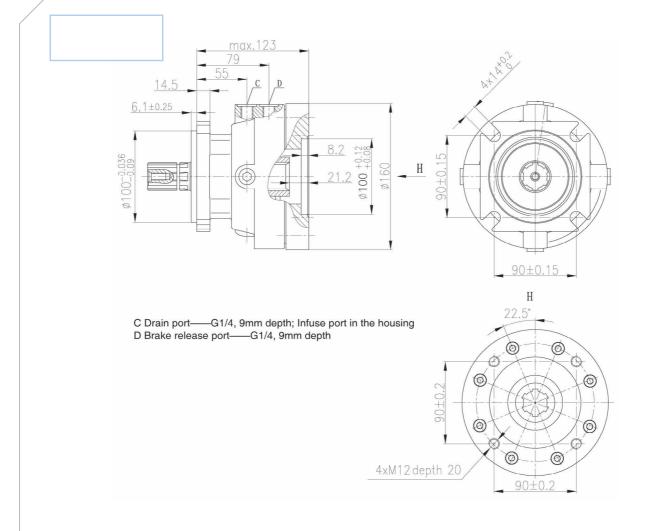


^{*}Static torque is obtained at working pressure 0 MPa





ZDQ2-2 DIMENSIONS AND MOUNTING DATA





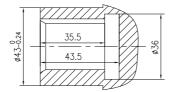


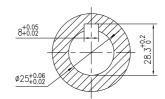
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HYDRAULIC MOTORS

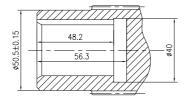
INPUT & OUTPUT SHAFT DATA / INPUT SHAFT HOLES

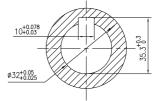
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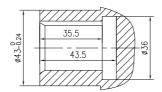


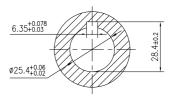
В



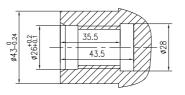


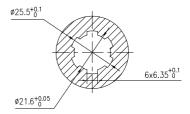
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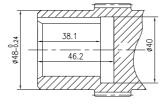


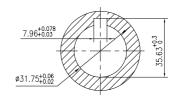
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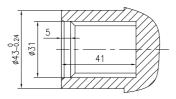


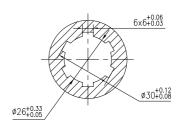
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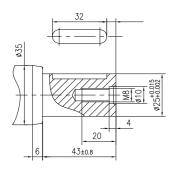


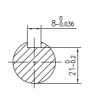




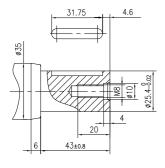
OUTPUT SHAFT EXTENSIONS

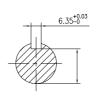
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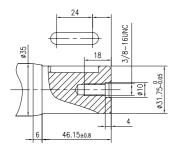


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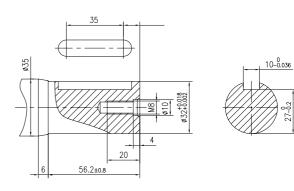


G

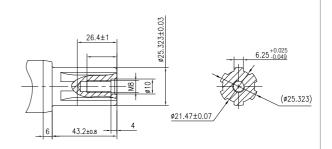




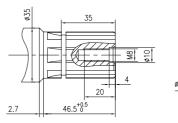
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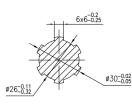


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ZDQ ORDER INFORMATION

7	Unusually function	omit						
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9	Paint	No Paint Blue Black Sliver Grey						
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5	Output shaft extensions	A ShaftФ25, Parallel key 8×7×32	Shaft d32, Parallel key 10×8×45	ShafФ25.4, Parallel Key6.35×6.35×31.75	Shaf025.4, splined key SAE 6B	ShaftФ31.75, Parallel Key7.96×7.96×31.75	Shaft Splined 6-30x26x6	Shaft Splined 6-30x26x8
		⋖	ш	O	ш	g	z	7
4	Input Shaft holes	Shaft holes Ф25, Parallel key 8×7×32	Shaft holes Ф32, Parallel key 10x8x45	Shaft holes Ф25.4, Parallel key 6.35×6.35×31.75	Shaft holes Φ25.4, splined key SAE 6B	Shaft holes Ф31.75, Parallel key 7.96×7.96×31.75	Shaft holes Splined 6-30x26x6	430 Shaft holes Splined 6-30x26x8
		210 430 430						
က	Torque	Torque200230Nm Torque410450Nm					Torque410450Nm	
2	s Structure code.	- 2						
Pos.1	Series code	7						

9

ZDQ

Note: When the table is used, pls fill the code with right rows in the table and give us, which the code information is consist of construction, torque, input Shaft holes, output Shaft extensions, Paint . If the specification is not in the table or you have specific requirements, please contact us.





