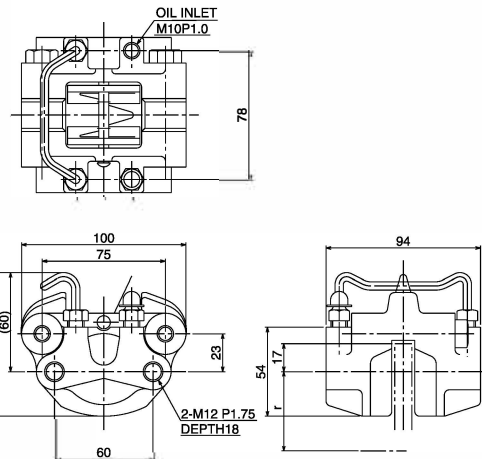
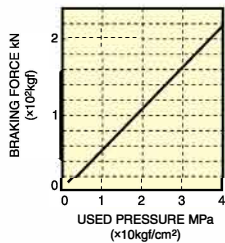


DB-2008



● CHARACTERISTIC CURVE



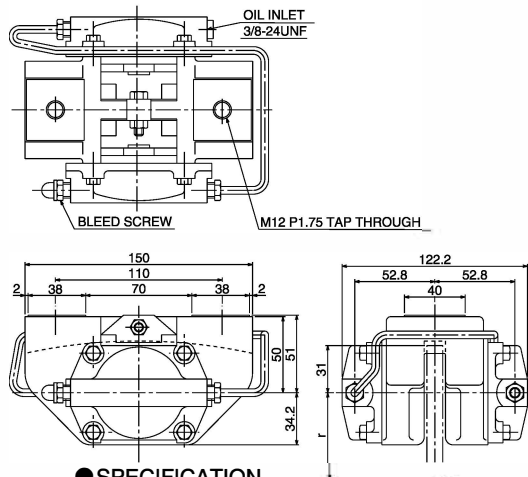
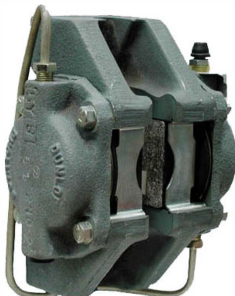
• COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

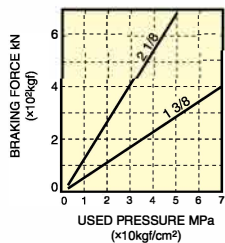
	DB-2008
• MODEL TYPE	DB-2008
• SIZE OF CYLINDER	33.96
• AREA OF CYLINDER (cm ²)	9.05
• USABLE DISC DIA (mm)	φ150~300
• DISC THICKNESS (mm)	10.4
• EFFECTIVE RADIUS OF BRAKING (m)	$r = \frac{1}{1000} \left(\frac{\text{DISC DIA}}{2} - 17 \right)$
• PAD MODEL TYPE	DB-0405-K※※※
• WEAR ALLOWANCE OF PAD (mm)	5
• MAX.WORKING OIL PRESSURE (MPa)	4 (40kgf/cm ²)
• REQUIRED OIL VOLUME (cc)	0.5
• WEIGHT (kg)	2
• TORQUE CALCULATION (BRAKING FORCE=kN)	$T \text{ (kN}\cdot\text{m)} = \text{kN} \times r$

Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.

DB-2021B



● CHARACTERISTIC CURVE



• COEFFICIENT OF DYNAMIC FRICTION 0.3

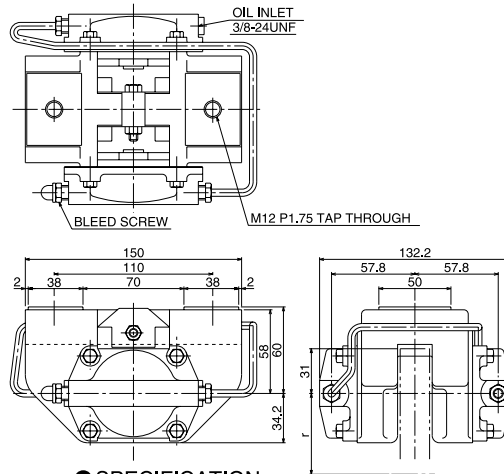
● SPECIFICATION

	DB-2021B	
• MODEL TYPE	1 3/8	2 1/8
• SIZE OF CYLINDER	9.57	22.88
• AREA OF CYLINDER (cm ²)	φ222~700	
• USABLE DISC DIA (mm)	10.4	
• DISC THICKNESS (mm)	$r = \frac{1}{1000} \left(\frac{\text{DISC DIA}}{2} - 31 \right)$	
• EFFECTIVE RADIUS OF BRAKING (m)	10	
• PAD MODEL TYPE	DB-0400-K※※※	
• WEAR ALLOWANCE OF PAD (mm)	7 (70kgf/cm ²)	5 (50kgf/cm ²)
• MAX.WORKING OIL PRESSURE (MPa)	1	2.5
• REQUIRED OIL VOLUME (cc)	4.2	4.4
• WEIGHT (kg)	$T \text{ (kN}\cdot\text{m)} = \text{kN} \times r$	
• TORQUE CALCULATION (BRAKING FORCE=kN)	Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.	

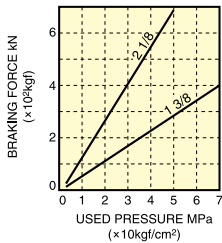
Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.

• Dimensions and specifications might be changed for improvement without notice.

DB-2021S



● CHARACTERISTIC CURVE



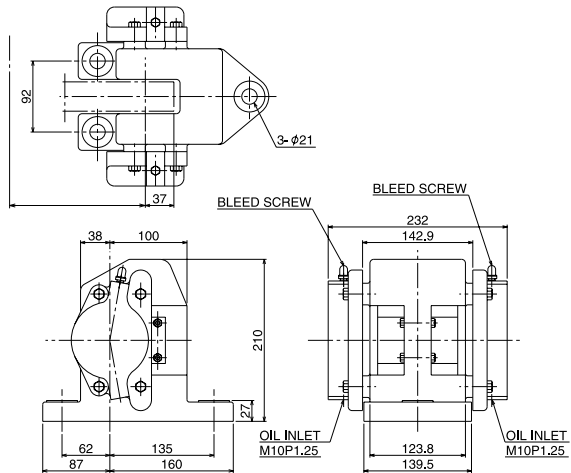
· COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

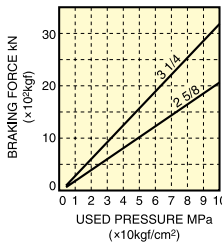
	DB-2021S	
· MODEL TYPE	DB-2021S	
· SIZE OF CYLINDER	1 3/8	2 1/8
· AREA OF CYLINDER (cm ²)	9.57	22.88
· USABLE DISC DIA (mm)	φ222~∞	
· DISC THICKNESS (mm)	20	
· EFFECTIVE RADIUS OF BRAKING (m)	$r = \frac{1}{1000} \left(\frac{\text{DISC DIA}}{2} - 31 \right)$	
· PAD MODEL TYPE	DB-0400-K ※※※	
· WEAR ALLOWANCE OF PAD (mm)	10	
· MAX. WORKING OIL PRESSURE (MPa)	7 (70kgf/cm ²)	5 (50kgf/cm ²)
· REQUIRED OIL VOLUME (cc)	1	2.5
· WEIGHT (kg)	5	5.3
· TORQUE CALCULATION (BRAKING FORCE=kN)	T (kN-m) = kN × r	

Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.

DB-2051



● CHARACTERISTIC CURVE



· COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

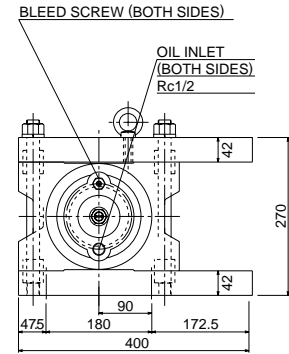
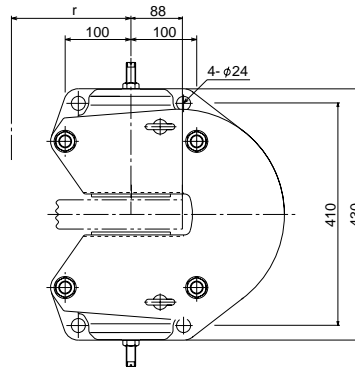
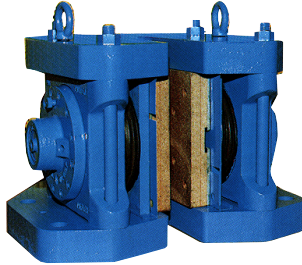
	DB-2051	
· MODEL TYPE	DB-2051	
· SIZE OF CYLINDER	2 5/8	3 1/4
· AREA OF CYLINDER (cm ²)	34.89	53.49
· USABLE DISC DIA (mm)	φ380~∞	
· DISC THICKNESS (mm)	38	
· EFFECTIVE RADIUS OF BRAKING (m)	$r = \frac{1}{1000} \left(\frac{\text{DISC DIA}}{2} - 37 \right)$	
· PAD MODEL TYPE	DB-0401-K ※※※	
· WEAR ALLOWANCE OF PAD (mm)	18	
· MAX. WORKING OIL PRESSURE (MPa)	10 (100kgf/cm ²)	
· REQUIRED OIL VOLUME (cc)	7	10
· WEIGHT (kg)	24	
· TORQUE CALCULATION (BRAKING FORCE=kN)	T (kN-m) = kN × r	

Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.

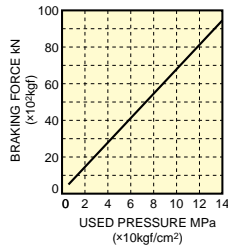
Hydraulic Disc Brake

[Hydraulic Applied Spring Release]

DB-3045Y



● CHARACTERISTIC CURVE



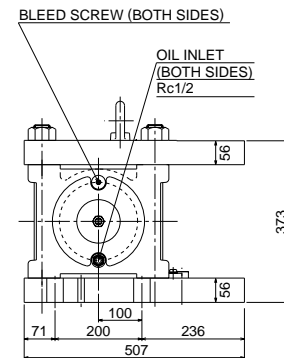
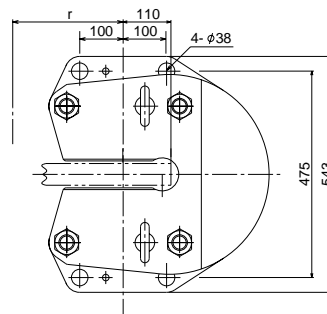
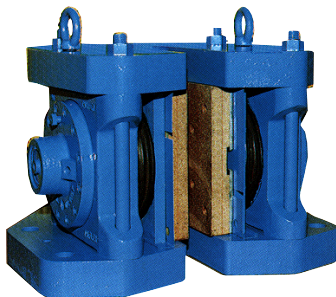
· COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

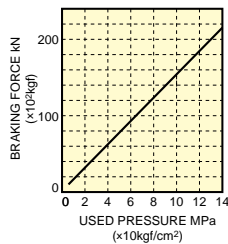
· MODEL TYPE	DB-3045Y
· AREA OF CYLINDER (cm ²)	113
· USABLE DISC DIA (mm)	φ800-∞
· DISC THICKNESS (mm)	50
· EFFECTIVE RADIUS OF BRAKING (m)	$r = \frac{1}{1000} \left(\frac{\text{DISC DIA}}{2} - 88 \right)$
· PAD MODEL TYPE	DB-0455-K04※
· WEAR ALLOWANCE OF PAD (mm)	20
· MAX.WORKING OIL PRESSURE (MPa)	14 (140kgf/cm ²)
· REQUIRED OIL VOLUME (cc)	115
· WEIGHT (kg)	140
· TORQUE CALCULATION (BRAKING FORCE=kN)	$T \text{ (kN·m)} = kN \times r$

Oil to be used: Mineral Oil (Turbine Oil)

DB-3060Y



● CHARACTERISTIC CURVE



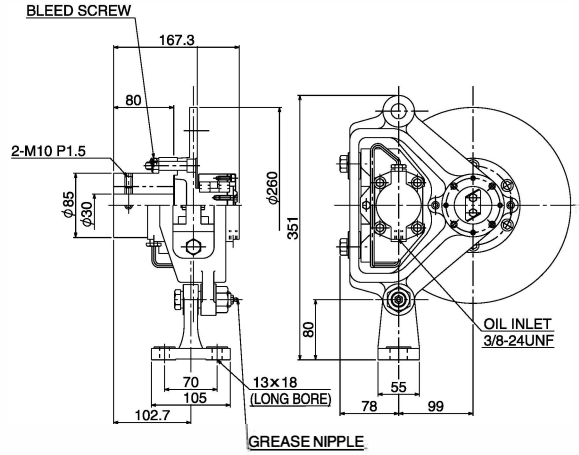
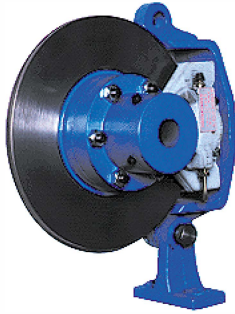
· COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

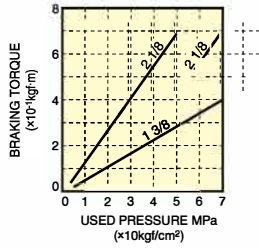
· MODEL TYPE	DB-3060Y
· AREA OF CYLINDER (cm ²)	255
· USABLE DISC DIA (mm)	φ800-∞
· DISC THICKNESS (mm)	50
· EFFECTIVE RADIUS OF BRAKING (m)	$r = \frac{1}{1000} \left(\frac{\text{DISC DIA}}{2} - 110 \right)$
· PAD MODEL TYPE	DB-0454-K04※
· WEAR ALLOWANCE OF PAD (mm)	20
· MAX.WORKING OIL PRESSURE (MPa)	14 (140kgf/cm ²)
· REQUIRE OIL VOLUME (cc)	200
· WEIGHT (kg)	290
· TORQUE CALCULATION (BRAKING FORCE=kN)	$T \text{ (kN·m)} = kN \times r$

Oil to be used: Mineral Oil (Turbine Oil)

DB PAC-20



● CHARACTERISTIC CURVE



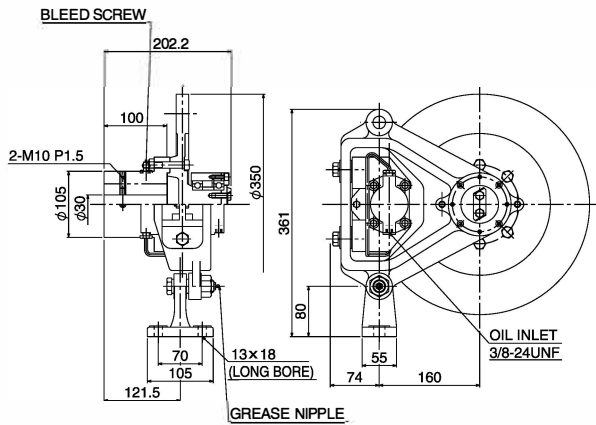
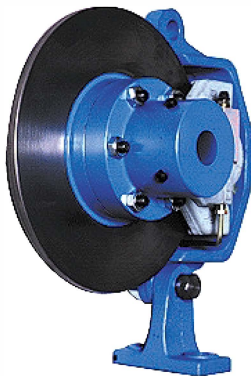
• COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

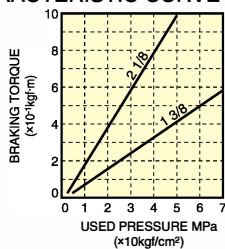
	DB PAC-20	
• MODEL TYPE	1 3/8	2 1/8
• SIZE OF CYLINDER		
• AREA OF CYLINDER (cm ²)	9.57	22.88
• USABLE DISC DIA (mm)	φ 260	
• DISC THICKNESS (mm)	10.4	
• PAD MODEL TYPE	DB-0400	
• WEAR ALLOWANCE OF PAD (mm)	10	
• MAX. WORKING OIL PRESSURE (MPa)	7 (70kgf/cm ²)	5 (50kgf/cm ²)
• REQUIRED OIL VOLUME (cc)	1	2.5
• WEIGHT (kg)	22	

Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.

DB PAC-30



● CHARACTERISTIC CURVE



• COEFFICIENT OF DYNAMIC FRICTION 0.3

● SPECIFICATION

	DB PAC-30	
• MODEL TYPE	1 3/8	2 1/8
• SIZE OF CYLINDER		
• AREA OF CYLINDER (cm ²)	9.57	22.88
• USABLE DISC DIA (mm)	φ 350	
• DISC THICKNESS (mm)	20	
• PAD MODEL TYPE	DB-0400	
• WEAR ALLOWANCE OF PAD (mm)	10	
• MAX. WORKING OIL PRESSURE (MPa)	7 (70kgf/cm ²)	5 (50kgf/cm ²)
• REQUIRED OIL VOLUME (cc)	1	2.5
• WEIGHT (kg)	40	

Oil to be used: Use Brake Oil (Vegetable Oil). Also Brake for Mineral Oil are Available.