

Air Hydraulic Booster

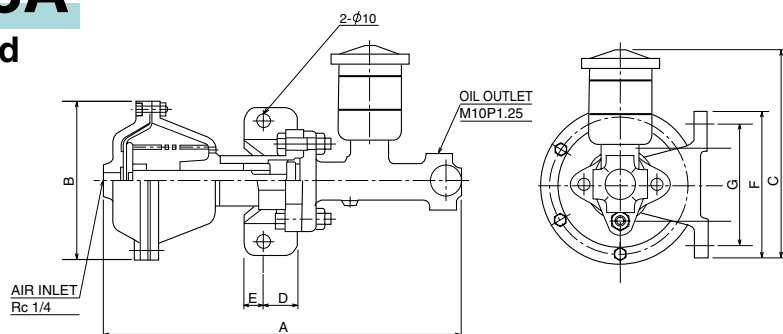
Increased hydraulic pressure can be obtained by supplying air, and control of disc brake is easily operated by ON-OFF of air.

DB-3223A - 3233A

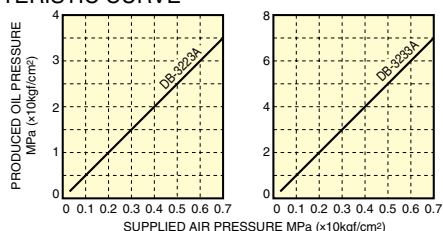
Air Applied Spring Released



DB-3233A



● CHARACTERISTIC CURVE



· Stand Type is also available.

● DIMENSION LIST

Model Type	A	B	C	D	E	F	G	Discharge Oil Volume (cc)
DB-3223A	262	84	166	30	15	110	90	5
DB-3233A	269	118	166	30	15	110	90	5

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

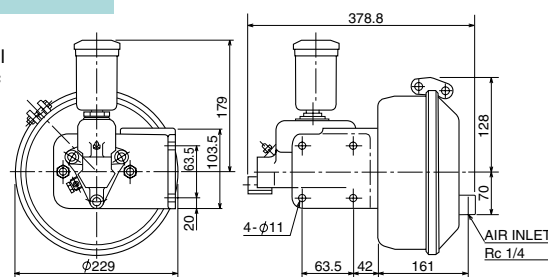
DB-3246A - 3256A - 2277A

Air Applied Spring Released

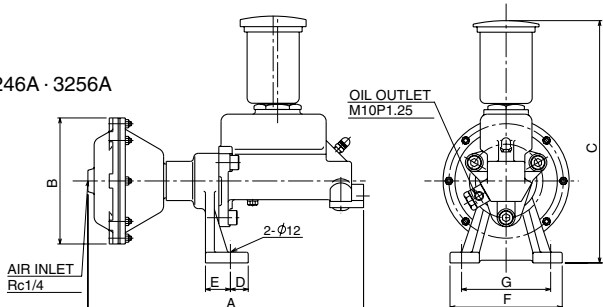


DB-3246A

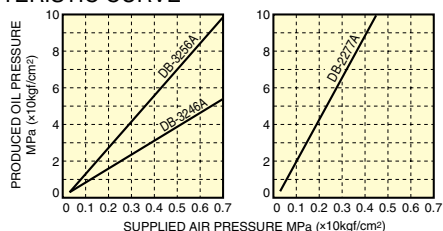
● DB-2277A
Discharge Oil
Volume 28cc



● DB-3246A - 3256A



● CHARACTERISTIC CURVE



● DIMENSION LIST

Model Type	A	B	C	D	E	F	G	Discharge Oil Volume (cc)
DB-3246A	308.5	141.5	272	20	28	125	100	19.4
DB-3256A	322.7	176.5	272	20	28	125	100	19.4

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.

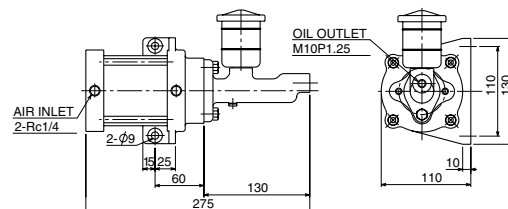
DB-2334

Air Hydraulic Booster (Double Action Type)



● SPECIFICATION

· USABLE FLUID	BRAKE FLUIDS (FOR CAR)
· MASTER CYLINDER	3/4B×35ST (DB-2204S/01)
· AIR CYLINDER	φ80×36ST
· BOOST RATIO	17.5
· MAX AIR PRESSURE (MPa)	0.7



Oil to be used: Use Brake Oil (Vegetable Oil).

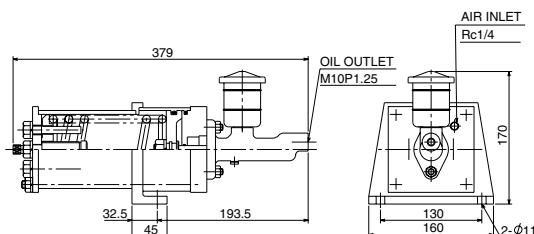
DB-5244AF

Spring Applied Pneumatic Release

High oil pressure can be obtained by built-in spring. And oil pressure can be removed by supplying air. This is the safety booster which is able to operate braking for longer braking time and when oil pressure is lowered.

● SPECIFICATION

· USABLE FLUID	BRAKE FLUIDS (FOR CAR)
· MASTER CYLINDER	3/4B×35ST (DB-2204S/01)
· AIR CYLINDER	φ100×35ST
· PRODUCED AIR PRESSURE (MPa)	3~7
· RELEASED AIR PRESSURE (MPa)	0.2~0.4



Oil to be used: Use Brake Oil (Vegetable Oil).

DB-2413·2415 Manual Operate Power Unit

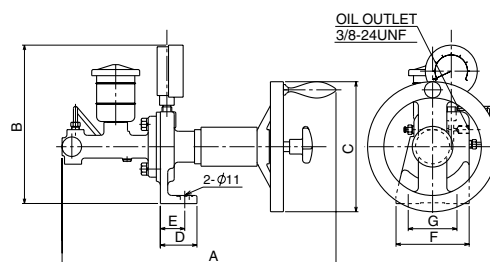
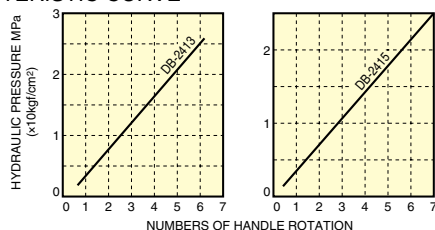
[Power Unit Manual Operate]

High oil pressure can be obtained through built-in spring by rotating handle. Braking force of long time for tention brake and of delicacy can be acquired.



DB-2413

● CHARACTERISTIC CURVE



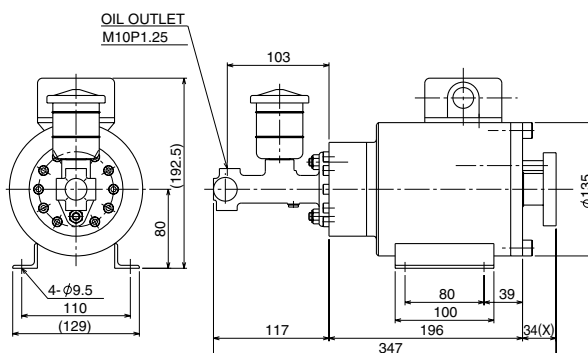
● DIMENSION LIST

Model Type	A	B	C	D	E	F	G	Discharge Oil Volume (cc)
DB-2413	337	195	160	45	30	90	60	5
DB-2415	413	265	160	40	25	100	75	12

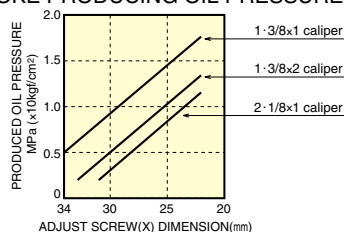
Oil to be used: Use Brake Oil (Vegetable Oil). Also Brakes for Mineral Oil are Available.

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

DB-4133EF



●STROKE PRODUCING OIL PRESSURE LIST

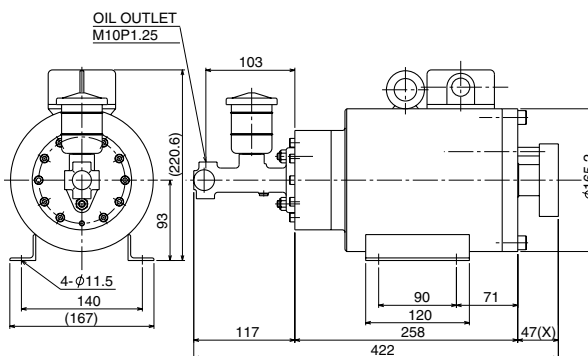


●SPECIFICATION

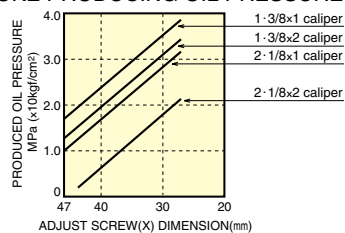
MODEL TYPE	DB-4133EF
DISCHARGE OIL VOLUME (cc)	3
DASH SUPPLY VOLTAGE (V)	DC150~210
KEEP SUPPLY VOLTAGE (V)	DC20~31
POWER CONSUMPTION (W)	17 (CONDUCTION CONTINUOUSLY AT DC31V)
DUTY RATE	360 C/H · 50%ED OR CONTINUOUSLY KEEPING DUTY RATE
SUITABLE POWER SUPPLY BOX	AP-2403 *
WEIGHT (kg)	15.5

Oil to be used: Use Brake Oil (Vegetable).
*For detail refer page 32.

DB-4143EF



●STROKE PRODUCING OIL PRESSURE LIST



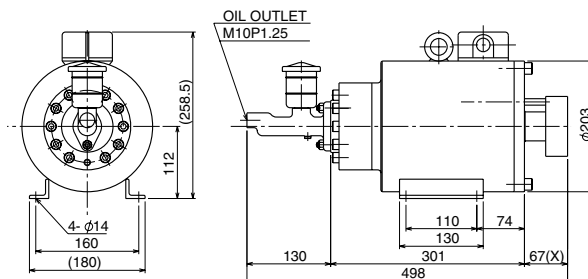
●SPECIFICATION

MODEL TYPE	DB-4143EF
DISCHARGE OIL VOLUME (cc)	5
DASH SUPPLY VOLTAGE (V)	DC150~210
KEEP SUPPLY VOLTAGE (V)	DC20~31
POWER CONSUMPTION (W)	22 (CONDUCTION CONTINUOUSLY AT DC31V)
DUTY RATE	360 C/H · 50%ED OR CONTINUOUSLY KEEPING DUTY RATE
SUITABLE POWER SUPPLY BOX	AP-2403 *
WEIGHT (kg)	33

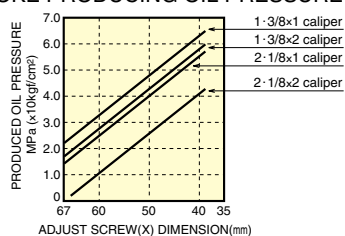
Oil to be used: Use Brake Oil (Vegetable).
*For detail refer page 32.

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

DB-4154EF



● STROKE PRODUCING OIL PRESSURE LIST



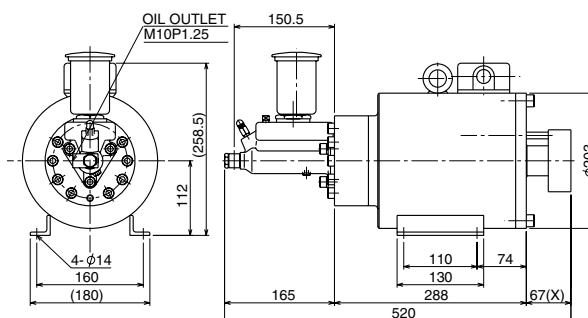
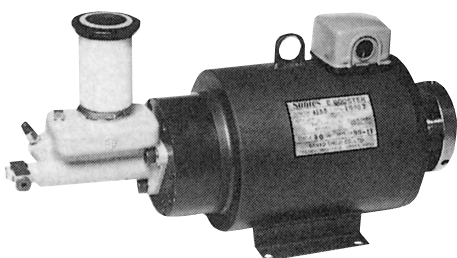
● SPECIFICATION

MODEL TYPE	DB-4154EF
DISCHARGE OIL VOLUME (cc)	7
DASH SUPPLY VOLTAGE (V)	DC150~210
KEEP SUPPLY VOLTAGE (V)	DC20~31
POWER CONSUMPTION (W)	37 (CONDUCTION CONTINUOUSLY AT DC31V)
DUTY RATE	360 C/H-50%ED OR CONTINUOUSLY KEEPING DUTY RATE
SUITABLE POWER SUPPLY BOX	AP-2403 *
WEIGHT (kg)	53.5

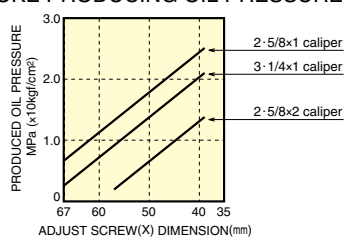
Oil to be used: Use Brake Oil (Vegetable).
*For detail refer page 32.

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DB-4155EF



● STROKE PRODUCING OIL PRESSURE LIST



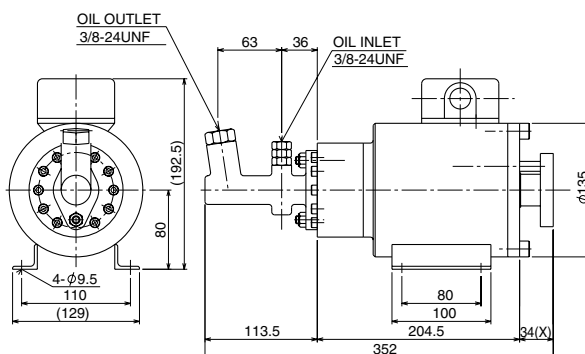
● SPECIFICATION

MODEL TYPE	DB-4155EF
DISCHARGE OIL VOLUME (cc)	12
DASH SUPPLY VOLTAGE (V)	DC150~210
KEEP SUPPLY VOLTAGE (V)	DC20~31
POWER CONSUMPTION (W)	37 (CONDUCTION CONTINUOUSLY AT DC31V)
DUTY RATE	360 C/H-50%ED OR CONTINUOUSLY KEEPING DUTY RATE
SUITABLE POWER SUPPLY BOX	AP-2403 *
WEIGHT (kg)	56

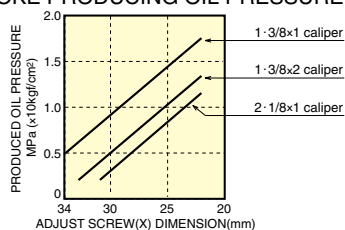
Oil to be used: Use Brake Oil (Vegetable).
*For detail refer page 32.

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

DB-4134EFT



●STROKE PRODUCING OIL PRESSURE LIST

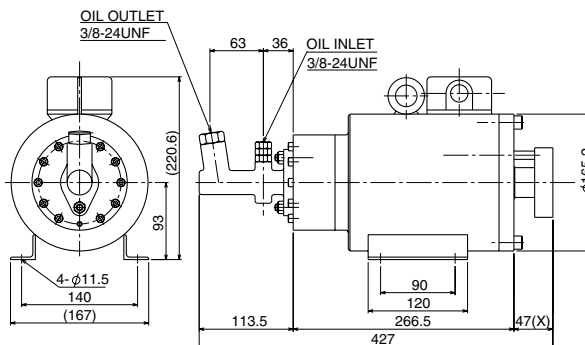


●SPECIFICATION

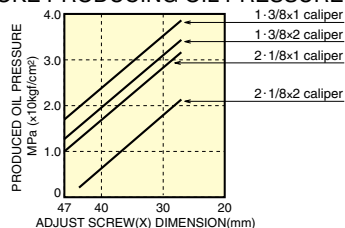
• MODEL TYPE	DB-4134EFT
• DISCHARGE OIL VOLUME (cc)	3
• DASH SUPPLY VOLTAGE (V)	DC150-210
• KEEP SUPPLY VOLTAGE (V)	DC20-31
• POWER CONSUMPTION (W)	17 (CONDUCTION CONTINUOUSLY AT DC31V)
• DUTY RATE	360 C/H-50%ED OR CONTINUOUSLY KEEPING DUTY RATE
• SUITABLE POWER SUPPLY BOX	AP-2403 *
• WEIGHT (kg)	15.5

Oil to be used: Use Brake Oil (Vegetable).
*For detail refer page 32.

DB-4144EFT



●STROKE PRODUCING OIL PRESSURE LIST

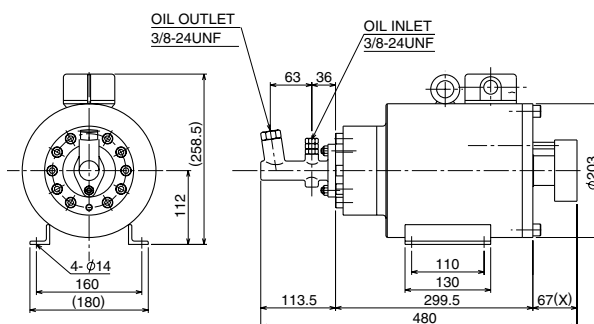


●SPECIFICATION

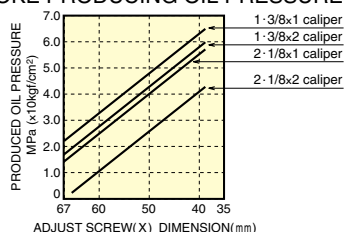
• MODEL TYPE	DB-4144EFT
• DISCHARGE OIL VOLUME (cc)	5
• DASH SUPPLY VOLTAGE (V)	DC150-210
• KEEP SUPPLY VOLTAGE (V)	DC20-31
• POWER CONSUMPTION (W)	22 (CONDUCTION CONTINUOUSLY AT DC31V)
• DUTY RATE	360 C/H-50%ED OR CONTINUOUSLY KEEPING DUTY RATE
• SUITABLE POWER SUPPLY BOX	AP-2403 *
• WEIGHT (kg)	33

Oil to be used: Use Brake Oil (Vegetable Oil).
*For detail refer page 32.

DB-4154EFT



● STROKE PRODUCING OIL PRESSURE LIST

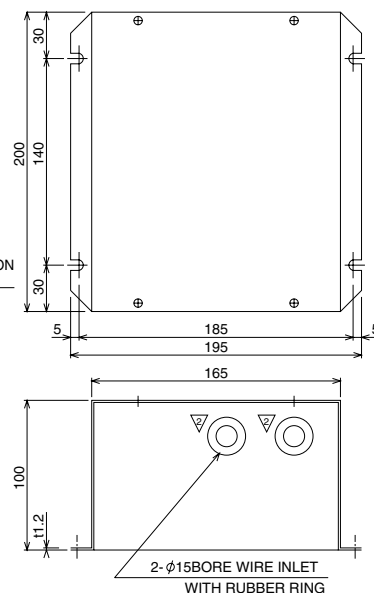
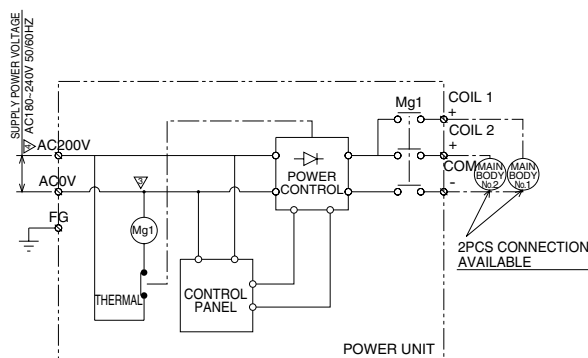


● SPECIFICATION

MODEL TYPE	DB-4154EFT
DISCHARGE OIL VOLUME (cc)	7
DASH SUPPLY VOLTAGE (V)	DC150-210
KEEP SUPPLY VOLTAGE (V)	DC20-31
POWER CONSUMPTION (W)	37 (CONDUCTION CONTINUOUSLY AT DC31V)
DUTY RATE	360 C/H-50%ED OR CONTINUOUSLY KEEPING DUTY RATE
SUITABLE POWER SUPPLY BOX	AP-2403 *
WEIGHT (kg)	53.5

Oil to be used: Use Brake Oil (Vegetable).
*For detail refer page 32.

Power Supply Box



● SPECIFICATION

MODEL TYPE	AP-2403
SUPPLY POWER VOLTAGE (V)	AC180-240 50/60Hz
DASH SUPPLY VOLTAGE (V)	DC150-210
KEEP SUPPLY VOLTAGE (V)	DC20-31
MAX. RATE (A)	17 (AT DASH-IN WITH SUPPLY POWER VOLTAGE AC-240V WHEN 2 PCS CONNECTED)
DUTY RATE	1800/h
WEIGHT (kg)	4

*Consult for Power Supply source except AC200/220V.

*Poor noise environment of power supply source may lead to wrong operation and/or damage. Please consult.

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