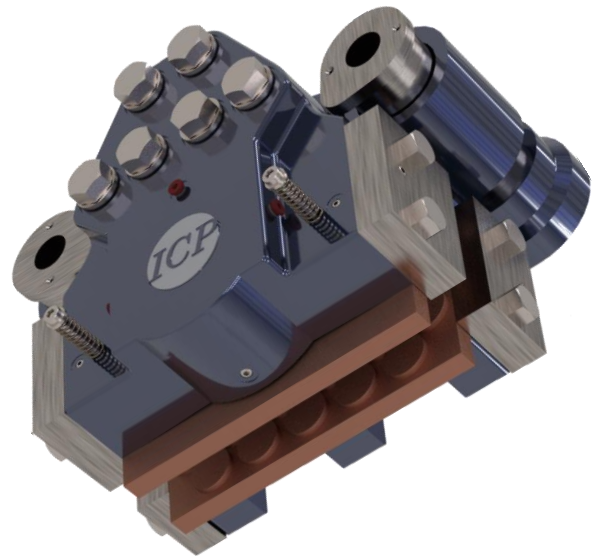
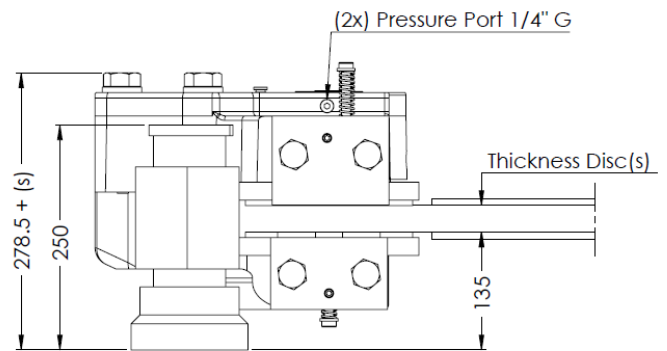
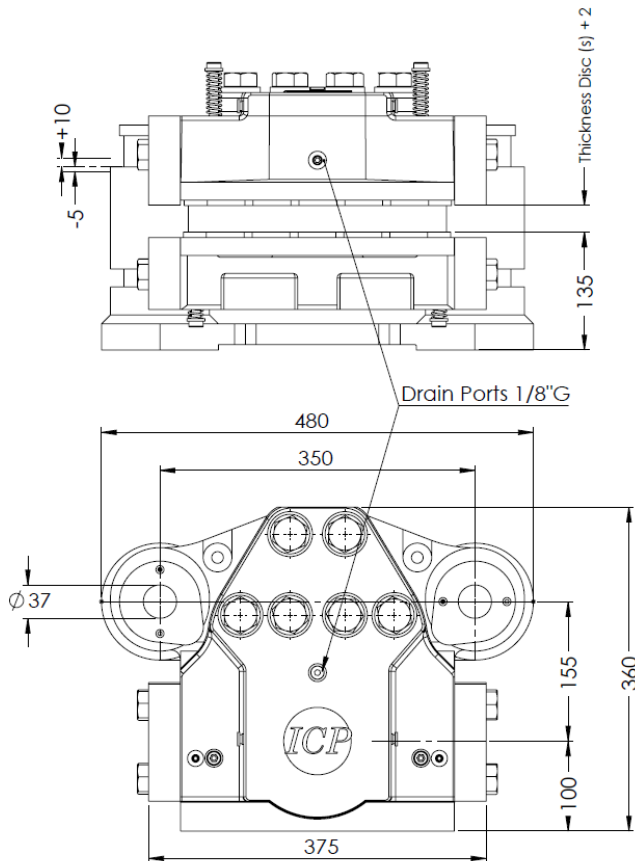


BRAKE TYPE HAB-1-120 FB

HYDRAULIC APPLIED BRAKE / RETRACTED SPRINGS / FLOATING CALIPER



Description

HAB-1-120 FB is a hydraulic applied brake with pad release springs suitable for dynamic or static applications.

HAB-1-120 FB is compact in design with single floating caliper. Useful for applications where space is limited. Can be installed in horizontal or vertical orientation.

Main features

- Hydraulic applied brake.
- Compact and robust design.
- Easy maintenance.
- Sinter material for high-speed applications.
- Lining air gap ensured by retracting springs.
- Detachable retainers allow easy lining replacing.
- Dual piston design.
- Long service life.
- Protection C4-H, according ISO 12944-2
- Reactive humidity $\leq 70\%$
- Suitable for low temperature applications.

BRAKE TYPE HAB-1-120 FB

HYDRAULIC APPLIED BRAKE / RETRACTED SPRINGS / FLOATING CALIPER

Max. Braking Force (N)	56500
Operating pressure (Mpa or N/mm ²)	12.5
Piston Area (mm ²)	11310
Pad area (32 Sintered buttons)(mm ²)	29000
Max. wear of pad (organic)(mm)	7
Friction coefficient (μ)	0.4
Max working pressure (Mpa or N/mm ²)	14
Total piston area: each caliper half (mm ²)	11310
Volume for each caliper at 1 mm stroke (mm ³)	11310
Max. Clamping Force (N)	141000
Brake Disc thickness (mm)	20 - 40
Brake Disc Diameter (mm)	>500
Pressure connection/port	1/4" G BSP
Drain connection/port	1/8" G BSP
Floating range on guide pins	-5mm/+10mm
Operating temperature (°C)	-25 to +75

Assembly with the Rotor Brake:

$$\text{Brake Torque} = \mu \times \text{Clamping Force} \times R' (\text{N} * \text{mm})$$

$$R' = \text{Effective radius} = R - d (\text{mm})$$

