

Hydraulic Related Equipment Air-Hydro Booster

Made to Order

Converts air pressure to hydraulic pressure for high pressure hydraulic cylinder actuation.

- Generates 3.5 to 14 MPa hydraulic pressure with 0.5 MPa air pressure.
- No hydraulic pump is required. High hydraulic pressure can easily be obtained.
- Hydraulic pressure can be steplessly controlled by only adjusting the air pressure using the regulator.
- There is no trouble due to temperature rise even under the condition of continuous pressurization.
- You can select from two types of pressurization methods (direct type and pre-load type) according to the application.

Applications

- For lifting work pieces
- For automatic clamping devices
- Hydraulic pressure source for low profile hydraulic cylinders

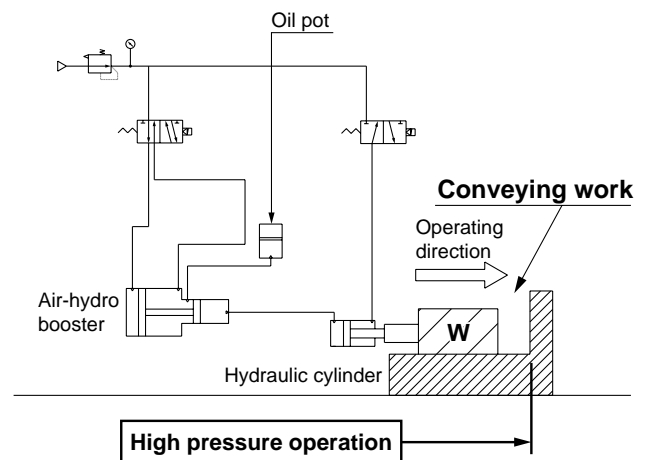


Pressurization Methods

There are two types of air-hydro boosters: direct type and pre-load type.

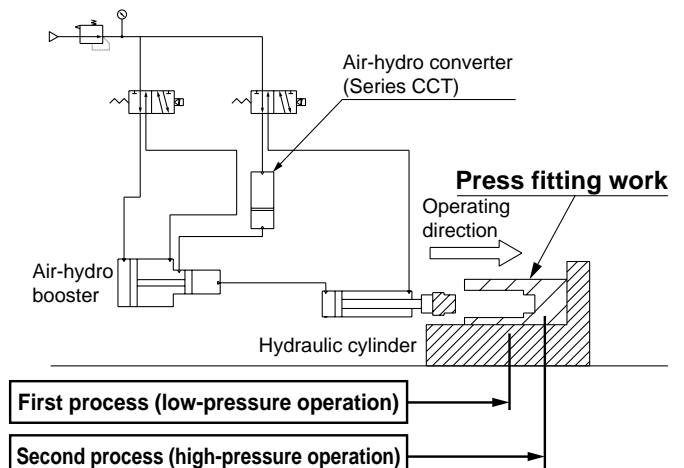
1 Direct Type

This is suitable when high power is required over the entire stroke, such as moving a work piece in a short distance.



2 Pre-load Type

This is suitable when pressurizing a work piece after moving it in position using a hydraulic cylinder. The pre-load type requires an air-hydro converter (Series CCT).



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Related Equipment

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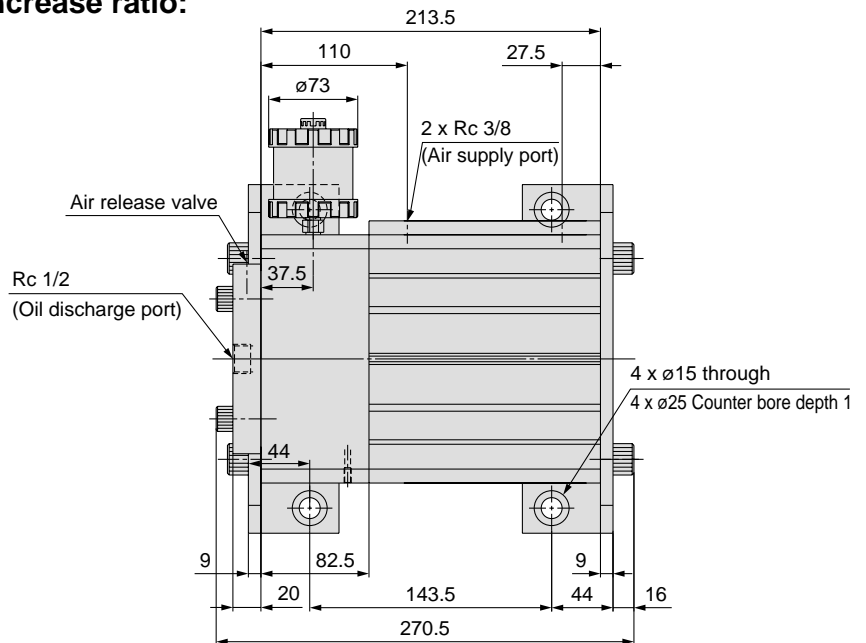
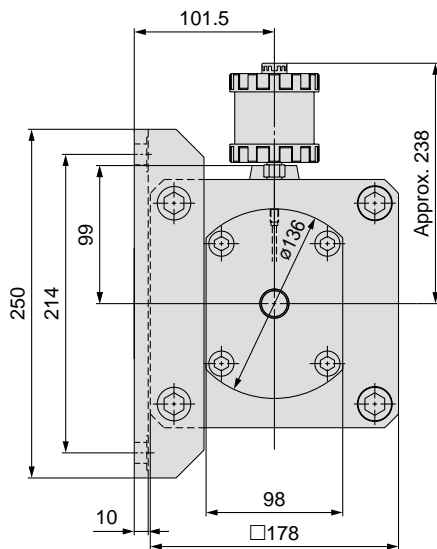
Hydraulic Related Equipment / Air-Hydro Booster

Specifications

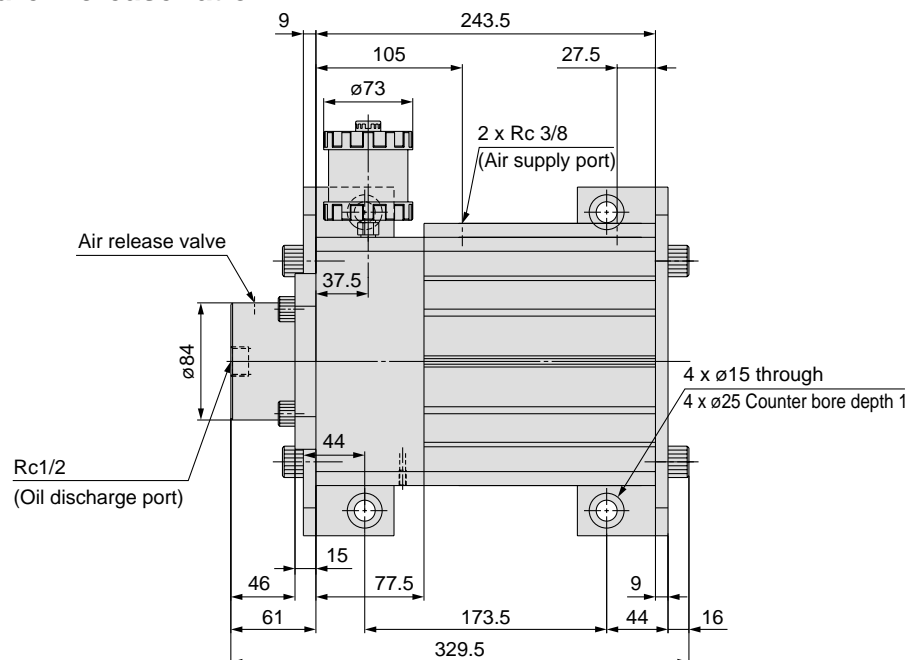
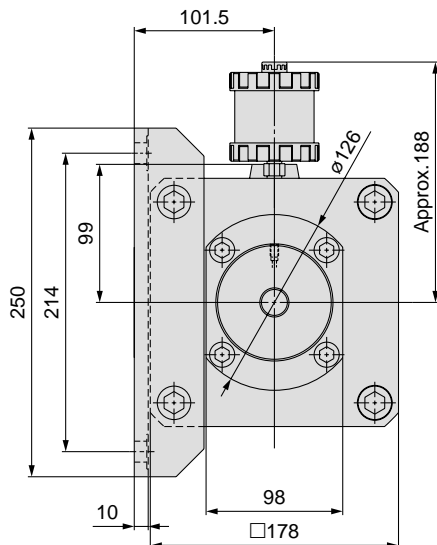
Part number	CQ2L160-DCG5643G-17	CQ2L160-DCG5644G-101	CQ2L100-Z4195-60	CQ2L140-DCG5645G-17	CQ2F100-Z4239-60	CQ2LH160-DCG864AG-105	CQ2LH160-20-DCI9145I
Air pressure cylinder diameter	ø160	ø160	ø100	ø140	ø100	ø160	ø160
Pressure increase ratio	1 : 7	1 : 10	1 : 13	1 : 15	1 : 16	1 : 25	1 : 32.6
Amount of discharged oil	17 cm ³	101 cm ³	60 cm ³	17 cm ³	60 cm ³	105 cm ³	20 cm ³
Maximum working pressure (air pressure)	1.0 MPa				0.87 MPa	0.56 MPa	0.43 MPa
Generated hydraulic pressure (with 0.5 MPa air pressure)	3.5 MPa	5.0 MPa	6.5 MPa	7.5 MPa	8.0 MPa	12.5 MPa	14 MPa
Fluid	Air						
	Turbine oil class 1 (ISO VG32)						
Ambient and fluid temperature	5 to 60°C						
Oil pot	With oil pot	With oil pot	With oil pot	With oil pot	Without oil pot	Without oil pot	With oil pot

Dimensions

CQ2L160-DCG5643G-17 (pressure increase ratio: 1 to 7) / Wall mount type



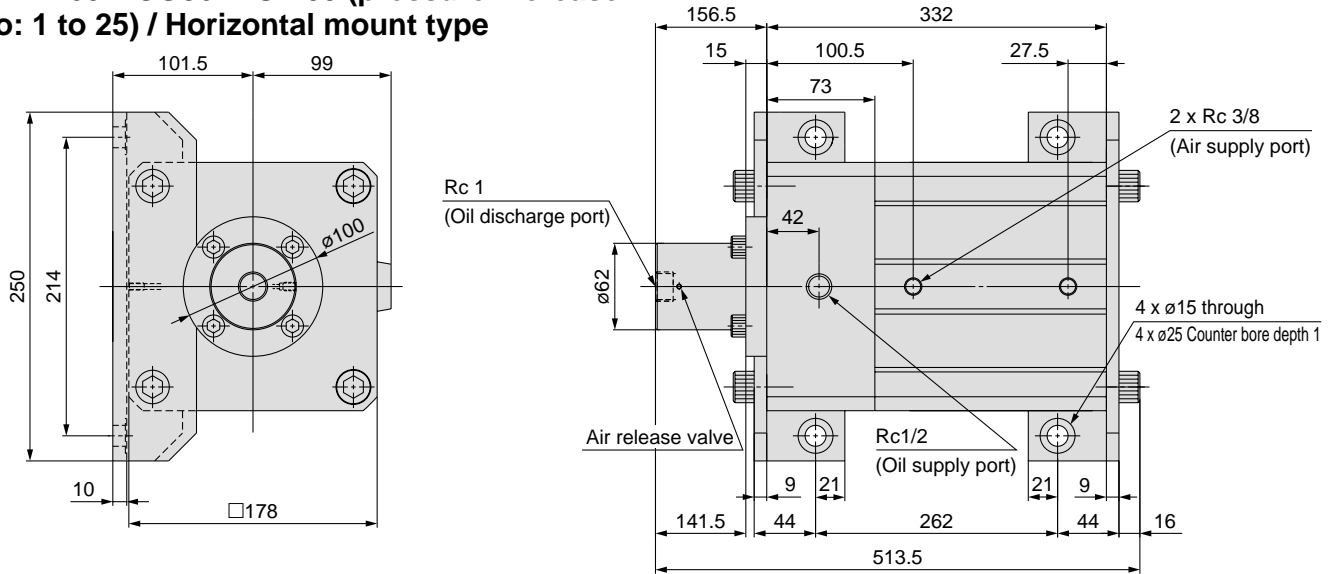
CQ2L160-DCG5644G-101 (pressure increase ratio: 1 to 10) / Wall mount type



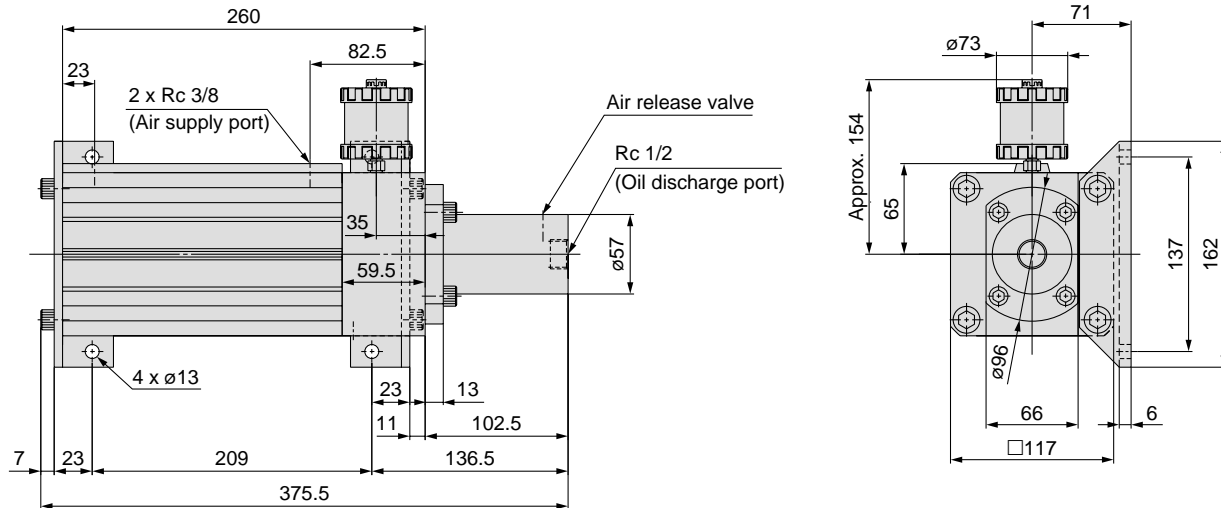
Hydraulic Related Equipment / Air-Hydro Booster

Dimensions

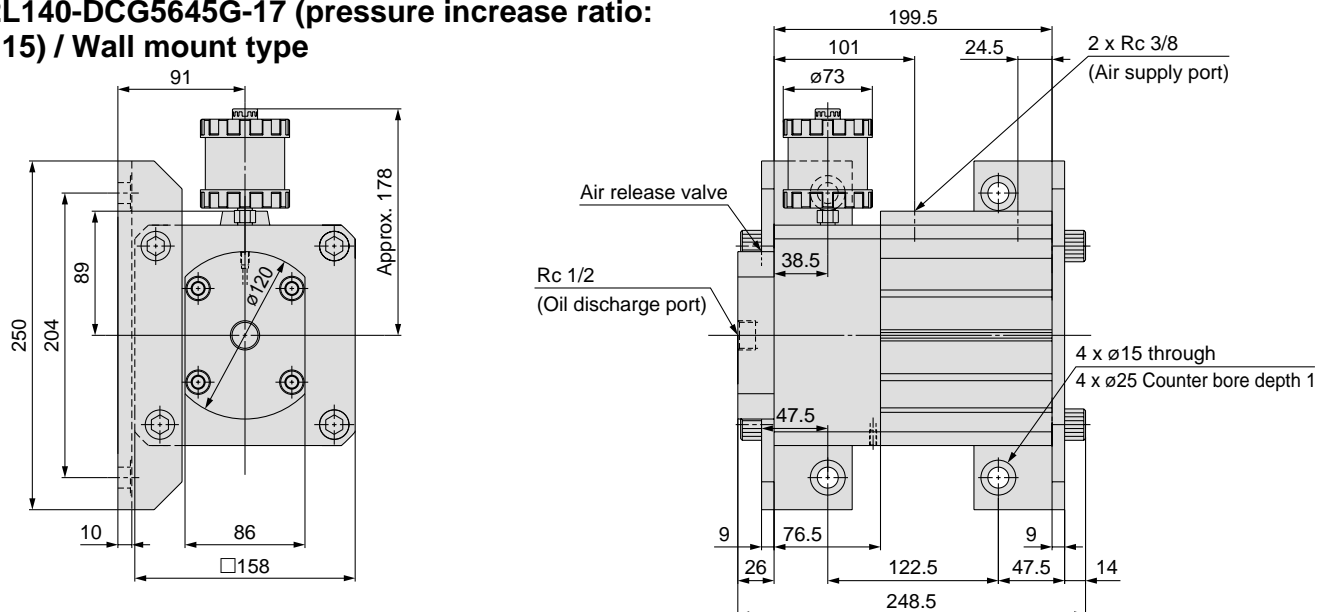
CQ2LH160-DCG864AG-105 (pressure increase ratio: 1 to 25) / Horizontal mount type



CQ2L100-Z4195-60 (pressure increase ratio: 1 to 13) / Wall mount type



CQ2L140-DCG5645G-17 (pressure increase ratio: 1 to 15) / Wall mount type



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Hydraulic Related Equipment

Air-Hydro Unit CC

Refer to Best Pneumatics No. 2 for details.



Air-hydro unit



Converter

Type	Series	Nominal diameter (mm)
Air-hydro unit	CC	63, 100, 160
Converter	CCT	40, 63, 100, 160
Valve unit	CCV	—
Features	<ul style="list-style-type: none"> By converting air pressure into hydraulic pressure, functions that are the same as those of a hydraulic unit can be obtained while using pneumatic equipment. 	

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