Lock without touching

The Master plate can lock onto the Tool plate with a gap between them.

Superior fail-safe locking mechanism

BL's unique lock/unlock mechanism contains a mechanical fail-safe feature which does not allow the Master and Tool plates to uncouple if the air pressure is shut off.



Master plate Attachments ·4 bolts (M4×30) 1 locating pin *Seal plate, O-ring and screws

Specifications

Main Body					
Load capacity (rated load)		196N(20kg)			
Positional repeatability		±0.015mm			
Allowable	Bending direction (Tx, Ty)	113.6N·m(1,160kgf·cm)			
dynamic moment	Twisting direction (Tz)	156.8N·m(1,600kgf·cm)			
Coupling force (with air pressure of 0.49MPa) %1		2,059N(210kgf)			
Materials	Frame	Aluminum alloy			
	Lock/unlock mechanism	Stainless steel			
Overall dimension (when coupled)		φ90×H45.4mm			
Weight	Master plate	515g			
(Main body)	Tool plate	355g			
Self-separating mechanism Required air pressure		Ball-locking mechanism			
		0.39~0.68MPa(4~7kgf/cm²)			
Allowable temty perature and humidity ranges		0~50°C、35~90%(Non-condensing)			

lypes					
Utilities	DXPA	Electrical signals	None		
		Pneumatic ports	M5×8		
	DXPB	Electrical signals	None		
		Pneumatic ports	M5×12		
	DAPA	Electrical signals Max3A DC50V Probe contact	3A×15 (D-sub connector) %2		
		Pneumatic ports	M5×8		
	DAPB	Electrical signals Max3A DC50V Probe contact	3A×15 (D-sub connector) %2		
		Pneumatic ports	M5×12		
	DBPA	Electrical signals Max3A DC50V Probe contact	3A×30 (D-sub connector) %2		
		Pneumatic ports	M5×8		

QC-20D Ordering Information

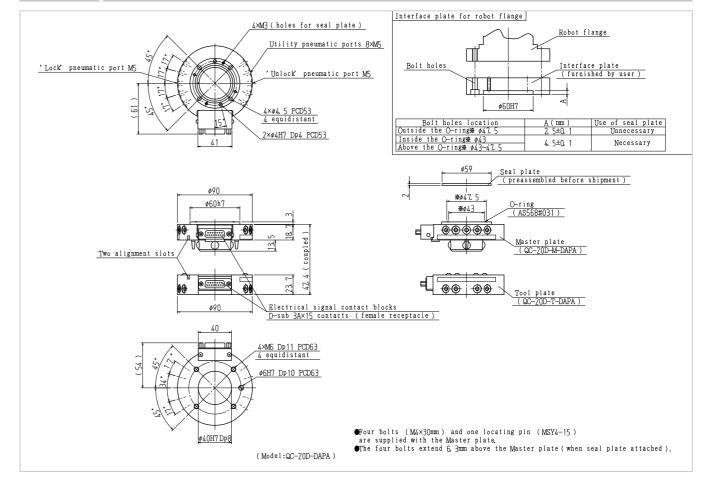
Master plate QC-20D -M-

Tool plate QC-20D - T-

DXPA	No electrical signal	Pneuma tic ports M5×8
DXPB	No electrical signal	Pneumatic ports M5×1:
DAPA	Electrical signals 3A×15 ²	Pneumatic ports M5×8
DAPB	Electrical signals 3A×15*2	Pneumatic ports M5×1:
DBPA	Electrical signals 3A×30*2	Pneumatic ports M5×8

(Note) Please order D15N-M for the master side and model D15N-T for the tool side when ordering a contact block replacement.

Main Body Dimensions



■No electrical signal



Pneumatic ports M5×8



Pneumatic ports M5×12

■Electrical signals



DAPA 3A×15 D-Sub 15 contacts (female receptacle)*2 Pneumatic ports M5×8 *The connector plug DDK, 17JE-23 150-02 (DBA) -CG, or its equivalent, is user-provided.



DAPB 3A×15 D-Sub 15 contacts (female receptacle)*2

Pneumatic ports M15×12



DBPA 3A×30 D-Sub 15 contacts (female receptacle)*2 Pneumatic ports M5×8

Please contact BL Autotec, Ltd. for detailed information on the options.

**1 Coupling force is the force to achieve specified repeatability. Coupling will be maintained until unlock pressure is applied or device is damaged. contacts male screw plug M2.6)
**2. Please provide a 17JE-23150-02(D8A)-CG plug or its equivalent (D-sub plugs are RoHS.)

ZEUS

20kg 40kg 60kg 70kg

100kg 150kg 220kg

300kg 100kg

300kg

Wire-Saving module / Contact Block
Non-contact electric signal block
A mechanical safety valve prevents
Tool plate drops