

Air unit

Mounting bracket series

CHELIC



How to order

M - 30 - E

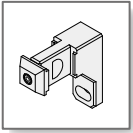
- Body size
- 15-A series
- 30-B series
- 60-C series
- Modular
- F-F Modular
- D-D Modular
- E-E Modular
- DT-DT Modular

Modular type

Modular type Body Size	F Modular	D Modular	E Modular	DT Modular
-15 For A Series	Multi series Multi series ⇒ □ ⇐ M-15F	Multi series Multi series ⇒ □ ⇐ M-15D	Multi series Multi series ⇒ □ ⇐ M-15E	Multi series Multi series ⇒ □ ⇐ M-15DT
-30 For B Series	⇒ □ ⇐ M-30F	⇒ □ ⇐ M-30D	⇒ □ ⇐ M-30E	⇒ □ ⇐ M-30DT
-60 For C Series	⇒ □ ⇐ M-60F	⇒ □ ⇐ M-60D	⇒ □ ⇐ M-60D	⇒ □ ⇐ M-60DT

Mounting bracket for modular F. R. L. Unit

Model		Bracket type	Remark	Model		Bracket type	Remark
Filter	AF-150	M-15C	option	FR.L Combination	AFC-150	M-15E	standard
	AF-200				AFC-200		
	BF-200				BFC-200		
	BF-300	BFC-300			M-30E		
	CF-400	CFC-400					
	CF-600	CFC-600					
Regulator	AR-150	M-30B	standard	FR/DT/L Combination	AFDTC-150	M-15DT	
	AR-200				AFDTC-200		
	BR-200				BFDTC-200		
	BR-300	BFDTC-300					
	CR-400	CFDTC-400					
	CR-600	CFDTC-600			M-60DT		
Lubricator	AL-150	M-15C	option	FL. Filter/Lubricator Combination		AFL-150	M-15E
	AL-200					AFL-200	
	BL-200				BFL-200	M-30E	
	BL-300	BFL-300					
	CL-400	CFL-400					
	CL-600	CFL-600			M-60D		
Filter regulator	AFR-150	M-15B	standard	F/DT/L Combination		AFDTL-150	M-15DT
	AFR-200					AFDTL-200	
	BFR-200				BFDTL-200	M-30DT	
	BFR-300	BFDTL-300					
	CFR-400	CFDTL-400					
	CFR-600	CFDTL-600			M-60DT		
Drip leg drain	BDV-200	M-30C	option	RL Regulator Lubricator		ARL-150	M-15E
	BDV-300					ARL-200	
	CDV-400				BRL-200	M-30E	
	CDV-600	BRL-300					
		CRL-400			M-60D		
F.R.L Combination	AC-150	M-15D	standard	R/DT/L Combination		ARDTL-150	M-15DT
	AC-200				ARDTL-200		
	BC-200	M-30D			BRDTL-200	M-30DT	
	BC-300				BRDTL-300		
	CC-400				CRDTL-400		M-60DT
	CC-600	CC-600			CRDTL-600		



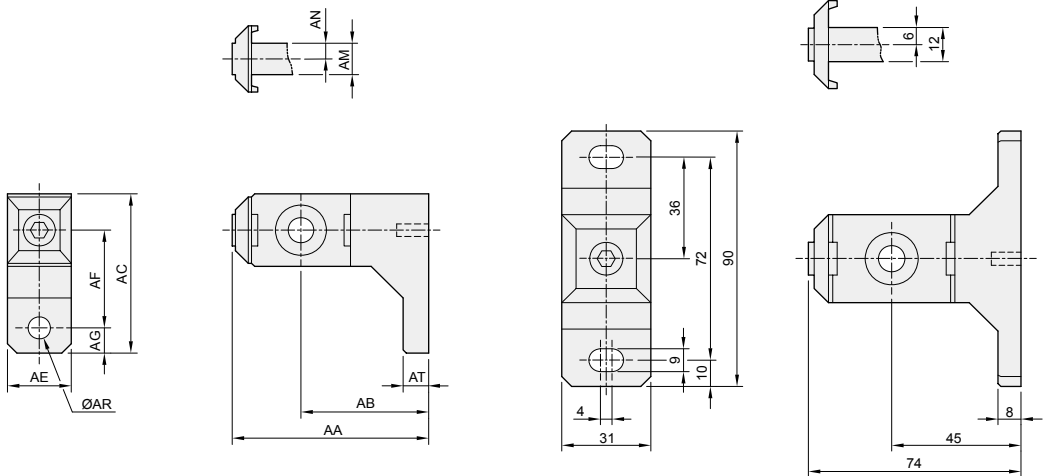
Air unit

Mounting bracket series - External dimensions

CHELIC

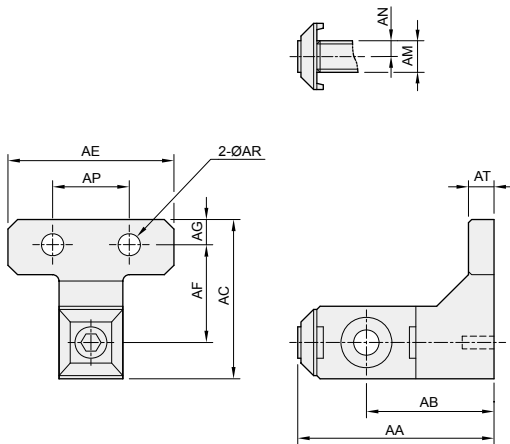
● M-15D , 30D Modular Dimensions

● M-60D Modular Dimensions

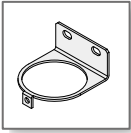


Model \ Size	AA	AB	AC	AE	AF	AG	AM	AN	AR	AT
M-15D	50.5	32	49	17.5	31	8	8	4	Ø 7	6
M-30D	61.5	40	49	20	31	8	10	5	Ø 7	8

● M-15E , 30E Modular Dimensions



Model \ Size	AA	AB	AC	AE	AF	AG	AM	AN	AP	AR	AT
M-15E	49.5	32	49	26	31.5	7.5	8	4	12	Ø 7	6
M-30E	60.3	40	51	39.8	31	8	10	5	20	Ø 7	8.2

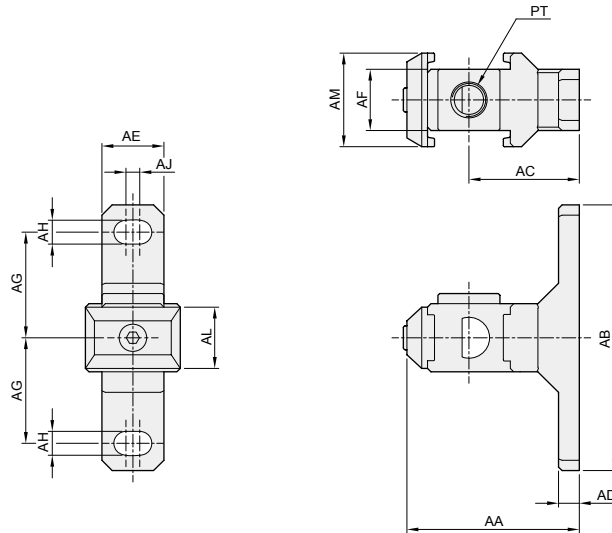


Air unit

Mounting bracket series - External dimensions

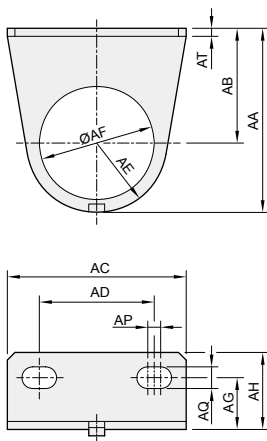
CHELIC

◉ M-15DT,M-30DT,M-60DT Modular Dimensions

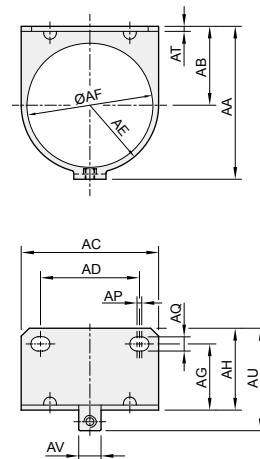


Model	Size	PT	AA	AB	AC	AD	AE	AF	AG	AH	AJ	AL	AM
M-15DT		PT 1/8"	51	78	32	6	18	18	31	7	4	18	27.5
		PT 1/4"											
M-30DT		PT 1/8"	61	79	40	8	20	20	31.5	7	-	22	30
		PT 1/4"											
M-60DT		PT 1/4"	77.5	92	47	8	31	25	36	9	4	34	43.9
		PT 3/8"											

◉ M-30B,M-60B Modular Dimensions

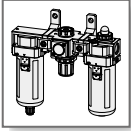


◉ M-15C,M-30C,M-60C Modular Dimensions



Size	AA	AB	AC	AD	AE	AF	AG	AH	AP	AQ	AT
M-30B	58	38.75	54	39.5	R19.2	Ø30.5	16.5	23	2.5	7	2.3
M-60B	73	45.5	70	45	R27.5	Ø45	20.5	30.5	5	9	3.2

Size	AA	AB	AC	AD	AE	AF	AG	AH	AP	AQ	AT	AV	AU
M-15C	55	30	46	30	R23	Ø40.5	28	34	2	6.5	2	10	41
M-30C	78.3	40	72	40	R36	Ø64.5	27	35	4	8	2.3	12	47
M-60C	97	50.4	86	62	R43	Ø78.7	42	52	3	9	3.2	14	65



Trouble shooting

Air filter and Pressure reduction valve failure and remedy

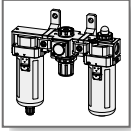
CHELIC

(1) Air filter

Defect	Cause	Check	Countermeasure
Not work	Without air supply.	Check if there is air supply in the piping line before the air inlet.	Check if the piping line of air supply is disconnected or the valve of air supply does not be opened.
	Filter blocked up by lube oil contamination.	Filter has not used for long time and solidified because of the accumulated lube oil contamination.	Disassemble filter and clear it with soap water or change filter.
Insufficient pressure	Filter blocked up by lube oil contamination.	Check filter	Disassemble filter and clear it with soap water or change filter.
Manual drain failed	Drain hole on the bottom of the plastic bowl blocked up.	Check drain hole.	Stop air supplying to remove the pressure in plastic bowl. Then fully open drain rotator and shoot compressed air into plastic bowl from drain hole with air gun (1~2 kgf/cm ²). Then disassemble plastic bowl and clean it.
	Drain broken.	Check drain hole.	Fully close drain and then if drain keeps leaking, drain has to be disassembled to fix.
	No pressure.	Check if there is air supply or not.	Keep the pressure in the bowl at 1~2 kgf/cm ² and then open drain.
Auto drain failed	Auto drain failed.	Check air supply and ball.	Disassemble plastic bowl and clean auto drain by rinsing out blocks from drain hole with water. Then assemble the plastic bowl back.
	Fail to stop draining.	Check air supply and ball.	Disassemble plastic bowl and shock it for several times to home guide pin. If it does not work, try to clean auto drain by last way.

(2) Pressure reduction valve

Defect	Cause	Check	Countermeasure
Unstable air flow after adjustment	Too small secondary pressure piping.	Enlarge the pipe diameter and try.	Enlarge piping or the size of machine used intermediate.
	Too small primary pressure piping or block by dust.	Measure primary side pressure. Disassemble and check.	Enlarge orifice of piping or joints , remove dust.
	Low pressure source.	Measure primary side pressure. Disassemble and check.	Increase pressure source.
Not sensitive pressure drop	Damaged diaphragm (or broken piston oil seal).	Large amount of air leak from air supply port.	Disassemble and repair.
Not smooth secondary flow	Foreign object in valve seat or O-ring damage.	Large amount of air leak from air supply port.	Disassemble and repair.
Reducer valve fail to open	Broken regulating spring poor air supply valve.	Feel slight when turning the regulating spring.	Disassemble and repair.
Always air leak from supply port	Poor air supply valve.	Block the secondary side port and block the air supply port to confirm.	Disassemble and repair.
	Damaged diaphragm (or broken piston oil seal).	Block the secondary side port and block the air supply port to confirm.	Disassemble and repair.
Leak and can not be adjusted	Incorrect assembly directions.	Check if primary side pressure is assembled on "IN" direction in the body.	Interchange assembly on the inlet and outlet



故障情形排除

給油器及油霧分離器故障情形與排除

CHELIC

(3) Lubricator

Defect	Cause	Check	Countermeasure
Lubricant in plastic bowl not decrease	Adjuster not work well	While air is being supplying, fix the adjuster and check the drip in the oil sight glass.	Correct the adjuster.
	Less flow of air	Check consumption of air	Choose suitable lubricator
	Too large size of lubricator	Check the flow of air and the way of lubrication	Choose suitable lubricator
	Too sticky lubricant		Choose suitable lubricant
Too much consumption of air	Adjuster not work well	Large amount of air leak from air supply port.	Correct the adjuster.
Lubricant not be sent to machine	Too low position of lubricator	Check the exhaust of oil mist from outlet by hand.	<ol style="list-style-type: none"> 1.Remove lubricator close to machine. 2.Set up lubricator at higher position. 3.Choose micro mist lubricator. 4.Set up another lubricator. ◦

(4) MIST SEPARATOR

Defect	Cause	Check	Countermeasure
Insufficient flow	Without air supply.	Check if there is air supply in the piping line before the air inlet.	Check if the piping line of air supply is disconnected or the valve of air supply does not be opened.
	Filter blocked up by lube oil contamination.	Filter has not used for long time and solidified because of the accumulated lube oil contamination.	Disassemble filter and clear it with soap water or change filter.
Filter not well	Filter blocked up by lube oil contamination.	Check filter	Disassemble filter and clear it with soap water or change filter.
Manual drain failed	Drain hole on the bottom of the plastic bowl blocked up.	Check drain hole.	Stop air supplying to remove the pressure in plastic bowl. Then fully open drain rotator and shoot compressed air into plastic bowl from drain hole with air gun (1~2 kgf/cm ²). Then disassemble plastic bowl and clean it.
	Drain broken.	Check drain hole.	Fully close drain and then if drain keeps leaking, drain has to be disassembled to fix.
	No pressure.	Check if there is air supply or not.	Keep the pressure in the bowl at 1~2 kgf/cm ² and then open drain.
Auto drain failed	Auto drain failed.	Check air supply and ball.	Disassemble plastic bowl and clean auto drain by rinsing out blocks from drain hole with water. Then assemble the plastic bowl back.
	Fail to stop draining.	Check air supply and ball.	Disassemble plastic bowl and shock it for several times to home guide pin. If it does not work, try to clean auto drain by last way.
Clear sight glass	Too much lube oil contamination.	Too much lubricant accumulated in the pipe.	Disassemble bowl to clean up with water and then clean up with non-volatile solvent, such as alcohol.