

Automatic drain DT3000-W/DT4000-W Series

Lightweight and compact automatic drain discharger. Compatible compressor: 0.75 kW to 75 kW





Specifications

F.R.L.

F.R.

F (Filtr)

R (Reg)

L (Lub) Drain Separ

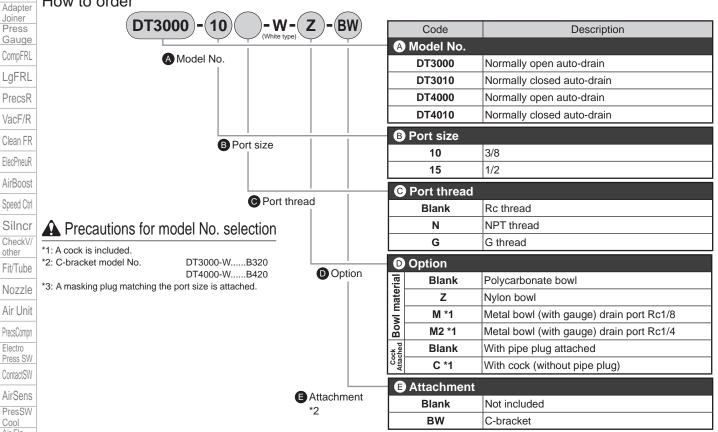
Mech

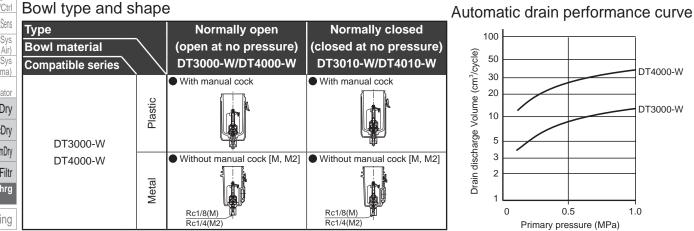
Outdrs FRL

SW Item	DT3000-W	DT4000-W	DT3010-W	DT4010-W				
oress _{alve} Type	Normally	Normally open (*1)		Normally closed				
Start Working fluid	Drain contained in the compressed air (water or oil)							
CBac- Proof pressure MPa	1Pa 1.5 (≈220 psi, 15 bar)							
Working pressure range MPa	0.1 (≈15 psi, 1 bar) to 1 (≈150 psi, 10 bar) 0.15 (≈22 psi, 1.5 bar) to 1 (≈150 psi, 10 b							
operating ambient temperature range of		5 (41°F) to 60 (140°F)						
rohR Port size Rc,NPT,G	3/8, 1/2							
Drain outlet	Barbed nipp	Barbed nipple (soft nylon tube of ø5.7 to ø6 bore size can be connected directly)						
🥡 Weight kg	0.3	0.45	0.3	0.45				
FRL *1: If capacity of the air compresso	*1. If capacity of the air compressor used is less than 0.75 kW (0.09 m ³ /min or less air supply rate), use the NC							

*1: If capacity of the air compressor used is less than 0.75 kW (0.09 m3/min or less air supply rate), use the NC.







ElecPneuR AirBoost Speed Ctrl Silncr CheckV other Fit/Tube Nozzle Air Unit PrecsCompn Electro Press SW ContactSW AirSens PresSW Cool Air Flo Sens/Ctrl WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) Gas generator RefrDry DesicDry HiPolymDry MainFiltr Dischrg etc Ending

1908

CKD

DT3000-W/DT4000-W Series

Internal structure and parts list

F.R.L. F.R.

F (Filtr)

R (Reg)

L (Lub)

Drain

Separ

Res press

exh valve

SlowStart

remove Filt

Oil-ProhR

Press Fl

PTFE FR Outdrs FRL

Adapter

Joiner Press Gauge CompFRL LgFRL PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV/ other

Fit/Tube

Nozzle

Air Unit

PrecsCompn

ContactSW

AirSens

PresSW Cool Air Flo Sens/Ctrl

Gas

Electro Press SW

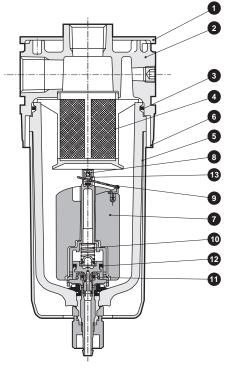
Film Resist FR

Med

Mech Press SW

Internal structure and parts list

 Normally open (open at no pressure) DT3000-W/DT4000-W



When pressure is not applied inside the bowl, the **()** spring pushes down the @ valve, keeping it away from the @ stem packing. When 0.1 MPa or higher pressure is applied inside the bowl, the pressure applied to the @ valve becomes larger than the force of the @ spring and pushes up the Ø valve, sealing it with the Ø stem packing.

When drain accumulates in the bowl, the Ø float moves up and the (9) float level arm pushes up the (8) orifice spring.

Then the (B) orifice spring snaps open the (B) orifice seat assembly and leads the compressed air into the upper chamber of the (2) valve, making it pressurized. When the @ valve is pushed down apart from the **()** stem packing, drain is discharged to air. After drain is discharged, the ${\color{black} 0}$ float moves down and the ${\color{black} 0}$ float level arm closes the (3) orifice seat assembly. The compressed air that has kept the upper chamber of the @ valve pressurized passes through the orifice of the (2) valve to be discharged to air. Then the pressure applied to the @ valve from below becomes larger than the force of the **()** spring and pushes up the **()** valve, sealing it with the **()** stem packing.

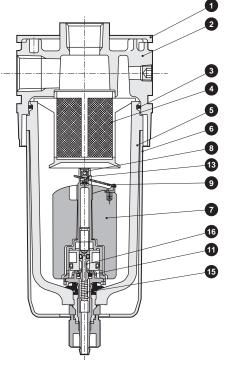
When pressure is not applied inside the bowl, the () spring pushes up the () valve, keeping it sealed with the () stem packing. When 0.15 MPa or higher pressure is applied inside the bowl and drain accumulates, the 7 float moves up and the 9 float level arm pushes up the (B) orifice spring.

Then the (B) orifice spring snaps open the (B) orifice seat assembly and leads the compressed air into the upper chamber of the (valve, making it pressurized. When the () valve is pushed down apart from the (1) stem packing, drain is discharged to air. After drain is discharged, the 7 float moves down and the 9 float level arm closes the 3 orifice seat assembly. The compressed air

that has kept the upper chamber of the (6) valve pressurized passes through the orifice of the () valve to be discharged to air. Then the force of the () spring pushes up the () valve from below, sealing it with the 1 stem packing.

No	10	Dort nome	Material	Model No.				RefrDr
	10 .	Part name		DT3000-W	DT3010-W	DT4000-W	DT4010-W	Relibi
	1	Plate cover	ABS resin	-	-	-	-	DesicDr
	2	Body	Aluminum alloy die-casting	-	-	-	-	HiPolymDr
	3	O-ring	Special nitrile rubber	F3000-ORING	F3000-ORING	F4000-ORING	F4000-ORING	MainFilt
	4	Screen	Polyacetal resin, polyester	DT3000-SCREEN	DT3000-SCREEN	DT4000-SCREEN	DT4000-SCREEN	Dischro
	5	Bowl assembly (including O-ring)	-	DT3000-W-BOWL	DT3010-W-BOWL	DT4000-W-BOWL	DT4010-W-BOWL	etc
	6	Bowl guard	Polyamide resin, steel	DT3000-W-BOWL-GUARD	DT3000-W-BOWL-GUARD	DT4000-W-BOWL-GUARD	DT4000-W-BOWL-GUARD	Endin

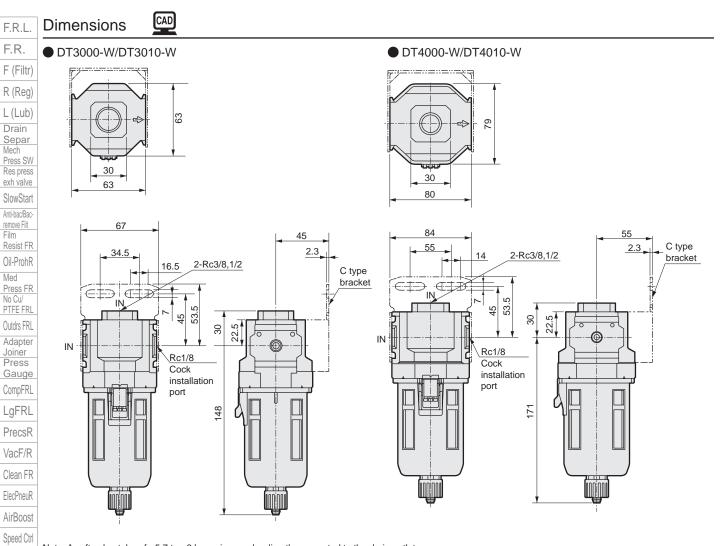
 Normally closed (closed at no pressure) DT3010-W/DT4010-W



WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) generato Dry Dry nDry Filtr ra Ending

1909

DT3000-W/DT4000-W Series



Note: A soft nylon tube of ø5.7 to ø6 bore size can be directly connected to the drain outlet. Note: Keep 60 mm and over space below the bowl for maintenance.

Metal bowl specifications

Option [M, M2]

Silncr

CheckV/ other Fit/Tube

Nozzle

Air Unit PrecsCompn

Electro

Press SW

ContactSW

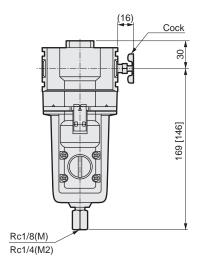
AirSens PresSW Cool Air Flo

Sens/Ctrl WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma) Gas generator RefrDry

DesicDry

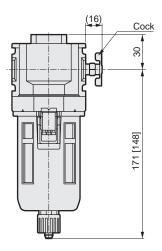
MainFiltr Dischrg etc



HiPolymDry Note: Dimensions shown in [] are for DT3000-W.

Cock specifications

Option [C]



Note: Dimensions shown in [] are for DT3000-W.

Ending