

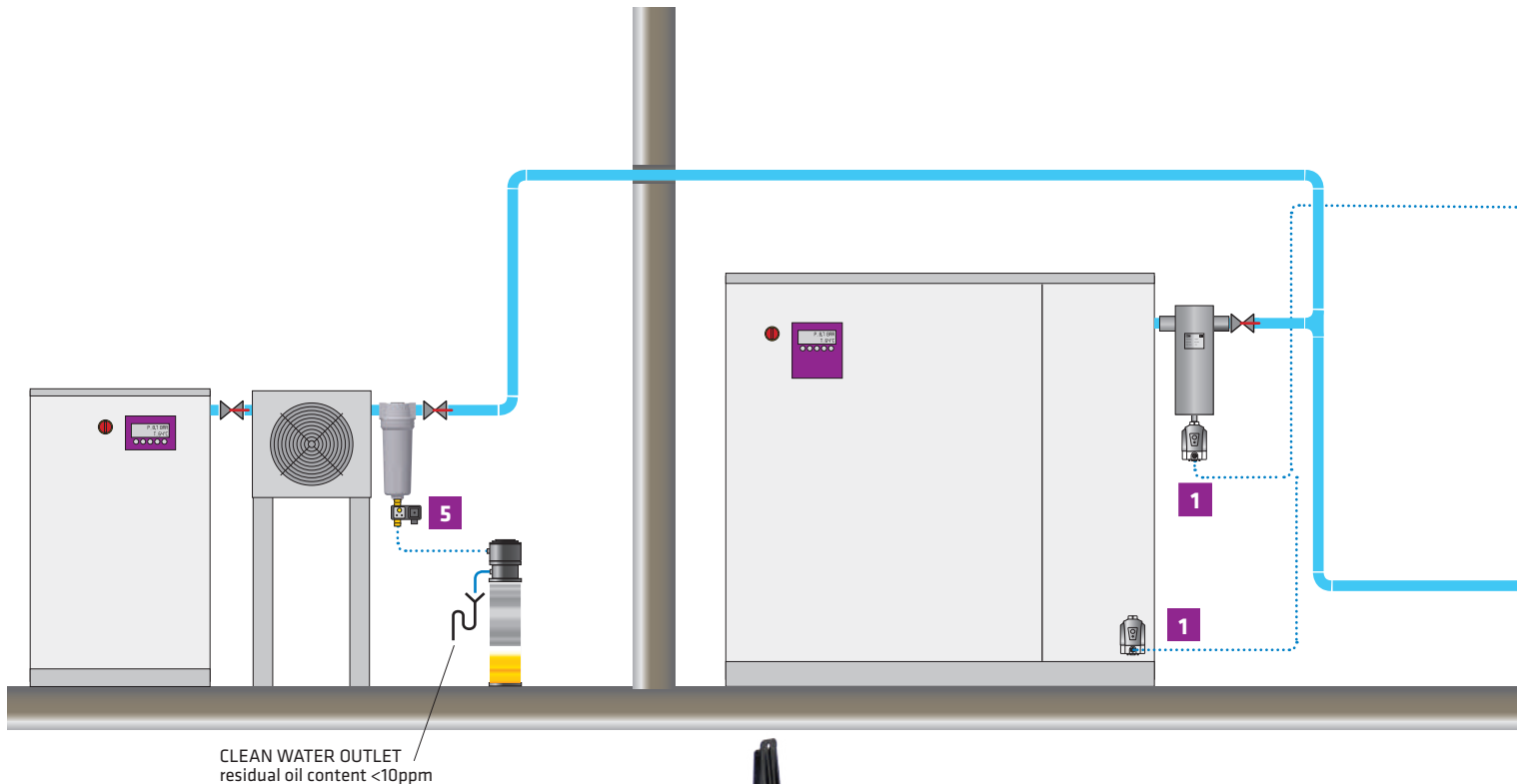
CONDENSATE DRAINS

Product overview



Condensate drain system

BASIC PRINCIPLES



1 ECD-B electronic condensate drain

The principle of operation is based on non-contacting measurement of accumulated condensate level and its draining without loss of valuable compressed air.

Condensate level is detected by sensitive electronics. ECD Series is made of robust aluminium housing and plastic cover that protects the sensitive electronics in the device against external harmful influences.



2 IED electronic condensate drain

Condensate accumulates in the bottom of filter housing. Fluid level is detected by precise capacitive level sensor. When the level is high enough condensate is being discharged from the system without any air losses.

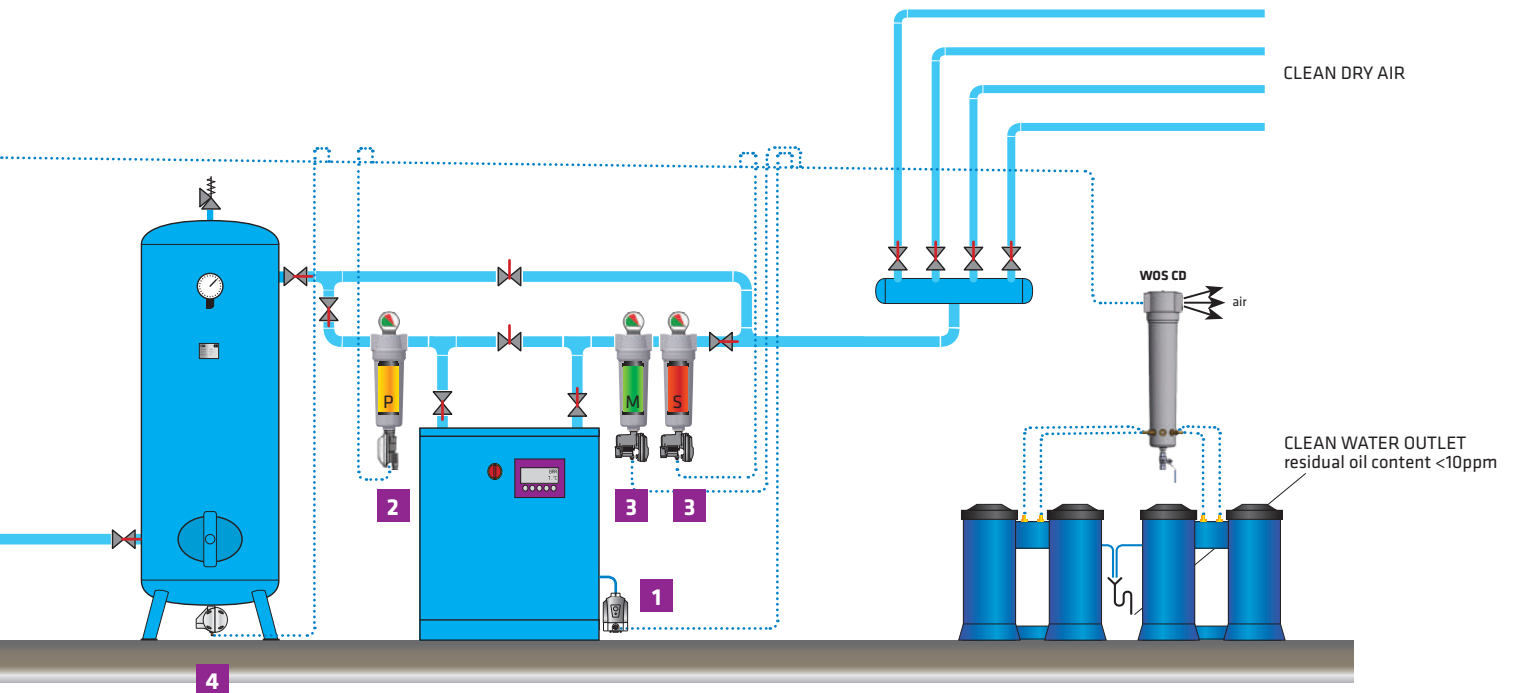
The series is designed to discharge condensed water from filter housing primarily.



3 EMD electronic condensate drain

EMD series principle of operation is based on non-contacting measurement of accumulated condensate level and its draining without loss of valuable compressed air.

Series is made of plastic, but the operating principles are the same as at ECD series.



4 **AOK20**
automatic mechanical
condensate drain

AOK 20B is designed for automatic condensate draining from filters, pressure vessels and cyclone separators. It allows draining of large condensate quantities (up to 300 l/h) and the operation up to 20bar.

Due to condensate level rising, a float in aluminium housing opens an aperture and release the condensate to drain pipe. Discharge valve automatically closes when condensate level falls and prevents the compressed air to discharge from the system.



5 **TD M**
timer controlled
condensate drain

The condensate is collected in a suitable container. The opening times of solenoid valve are controlled by electronic in plastic housing.

The valve opening time can be adjusted according to the system needs and depending on the determined quantity of condensate.

Adjustable opening times of the electromagnetic valve ensure complete draining of condensate.



6 **AOK16B**
automatic condensate drain

AOK 16B is designed primarily for installation in filters.

Its task is to automatically drain the condensate, but it also contain a manual drain, which has also the option of the automatic operation checking.

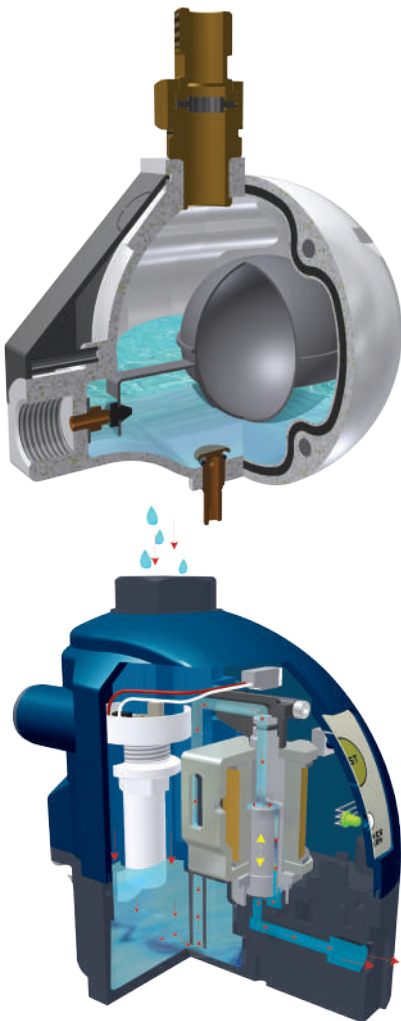
A float opens and releases the condensate from the system.

Since water moisture is a part of atmospheric air, condensate in compressed air systems can't be avoided. During the compression process, the air is heated. It cools down as it passes through hoses, valves and piping. As it approaches the ambient temperature, vapour condenses to liquid and can be removed by mechanical separation. As the air cools further, more condensate is present.

Water moisture is not the only undesirable substance. There are also other pollutants in compressed air: lubricating oil carry over from oil lubricated air compressors, atmospheric corrosive gases drawn in by the air compressor, aerosols and vapours, solid particles and rust from the piping system and pressure vessels and solid particles drawn in by the air compressor.

The first stage is to remove the major part of condensate, which contains a large amount of upper mentioned pollutants. This can be done by aftercoolers and condensate separators.

The second stage is the removal by coalescing filters, and the last stage is air drying by refrigeration or adsorption dryers. Condensate should be then removed from the compressed air system by automatic or manual condensate drains.



EMD SERIES

electronic condensate drain



operating pressure	16 bar
drain capacity	12 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air filter

EMD series is designed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. The units can be installed as external drain on any application specified. Condensate accumulates in the collecting reservoir. When the level is high enough condensate is being discharged from the system without any air losses. Fluid level is detected by precise capacitive level sensor.

Special self-cleaning direct acting valve assures reliable operation. EMD series is also equipped with operation alarm, led indicator, test button and internal strainer. Version with Service Network for diagnostics parameter setting and alarm output is also available.

	Voltage	Service network connection	Alarm output	Operating pressure range	Drain capacity
EMD 12	230 V	-	-	0-16 bar (0-232 psi)	12 l/h (0,007cfm)
EMD 12A		-	✓		
EMD 12C		✓	✓		
EMD 12	115 V	-	-	0-16 bar (0-232 psi)	12 l/h (0,007cfm)
EMD 12A		-	✓		
EMD 12C		✓	✓		
EMD 12	24 Vac	-	-	0-16 bar (0-232 psi)	12 l/h (0,007cfm)
EMD 12A		-	✓		
EMD 12A	24 Vdc	-	✓	0-8 bar	12 l/h
EMD 25	230 V	-	-	0-16 bar (0-232 psi)	25 l/h
	115 V	-	-		
EMD 75	230 V	-	-	0-16 bar (0-232 psi)	75 l/h
	115 V	-	-		

ECD-B SERIES

electronic condensate drain



operating pressure	16 bar
drain capacity	15 - 150 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air filter

ECD-B series is designed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. For any other technical gas please contact producer or your local distributor.

The units can be installed as external drain on any application specified. Condensate accumulates in the collecting reservoir and when the level is high enough condensate is being discharged from the system without any air losses. Fluid level is detected by precise capacitive level sensor.

Special self-cleaning direct acting valve assures reliable operating. ECD-B series is also equipped with operation alarm, led indicator, test button and internal strainer. ECD-B series can be used in variety of applications. For applications not listed please contact producer or your local distributor.

	Voltage	Operating pressure range	Drain capacity
ECD 15B	115 V	0-16 bar (0-232 psi)	15 l/h (0,0088 cfm)
	230 V		
ECD 40B	115 V		40 l/h (0,023 cfm)
	230 V		
ECD 90B	115 V		90 l/h (0,053 cfm)
	230 V		
ECD 150B	115 V	150 l/h (0,088 cfm)	
	230 V		

IED SERIES

electronic condensate drain



operating pressure	0-16 bar
drain capacity	8 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air filter

IED drain series is designed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. The series is designed to discharge condensed water from filter housing primarily.

Condensate accumulates in the bottom of filter housing. Fluid level is detected by precise capacitive level sensor. When the level is high enough condensate is being discharged from the system without any air losses.

IED drain series is also equipped with led indicator and test button.

	Voltage	Service network connection	Alarm output	Operating pressure range	Drain capacity
IED	230 V	-	-	0-16 bar (0-232 psi)	8 l/h (0,005cfm)
	115 V	-	✓		
IED A	230 V	-	-	0-16 bar (0-232 psi)	8 l/h (0,005cfm)
	115 V	-	✓		
IED C	230 V	✓	-	0-16 bar (0-232 psi)	8 l/h (0,005cfm)
	115 V	✓	✓		

EMD HP SERIES

high pressure electronic condensate drain



operating pressure	50 bar
drain capacity	30,4 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air dryer, air filter

EMD HP series drain have been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. The units can be installed as external drain on any application specified below. Condensate accumulates in the collecting reservoir and when the level is high enough condensate is being discharged from the system without any air losses. Fluid level is detected by precise capacitive level sensor.

EMD HP series is also equipped with operation alarm (version A), led indicator, test button and internal strainer. Version with Service Network (version C) for diagnostics and parameter setting is also available. Working hours, valve operations and other operating parameters are stored in internal memory and can be read with Service Network reader.

	Voltage	Service network connection	Alarm output	Operating pressure range	Drain capacity
EMD HP	230 V	-	-	0-50 bar (0-725 psi)	30,4 l/h (0,018cfm)
EMD HP A		-	✓		
EMD HP C		✓	✓		
EMD HP	115 V	-	-	0-50 bar (0-725 psi)	30,4 l/h (0,018cfm)
EMD HP A		-	✓		
EMD HP C		✓	✓		
EMD HP	24 Vac	-	-	0-50 bar (0-725 psi)	30,4 l/h (0,018cfm)
EMD HP A		-	✓		
EMD HP A		24 Vdc	-		

TD M SERIES

timer controlled condensate drain



operating pressure	16, 25, 50, 150 bar
drain capacity	95 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air dryer, air filter

TD M timer controlled condensate drain is designed for reliable removal of condensate or other liquid from compressed air system. For any other technical gas please contact producer or your local distributor.

Discharge intervals can be set with two adjustment knobs. TD M drain is available in several types based on operating pressure and operating medium.

TD M can be used in variety of applications. For applications not listed please contact producer or your local distributor.

	Voltage	Operating pressure range	Drain capacity	Medium	
TD16M	115 V	16 bar 232 psi	144 l/h	- Air - Water - Oil	
	230 V				
TD25M	115 V	25 bar 362 psi	113 l/h		
	230 V				
TD50M	115 V	50 bar 735 psi	74 l/h		
	230 V				
TD150M	115 V	150 bar 2175 psi	95 l/h		
	230 V				
TD16Mcr	115 V	16 bar 232 psi	204 l/h		Aggressive fluids
	230 V				

TD 400M SERIES

high pressure timer controlled condensate drain



operating pressure	400 bar
drain capacity	see specification
inlet connection	1/4"
operating temperature range	1,5 to 150 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air dryer, air filter

TD 400M timer controlled condensate drain is designed for reliable removal of condensate or other liquid from high pressure compressed air system⁽¹⁾. Discharge intervals can be set with two adjustment knobs. TD400M drain is available with a kit for easy installation which enable us to mount it in many different positions.

TD400M can be used in variety of applications. For applications not listed please contact us or your local dealer.

⁽¹⁾For any other technical gas please contact us or your local distributor.

	Voltage	Operating pressure range	Drain capacity	Medium
TD 400M 230V AC	230 V	0-400 bar 0-5800 psi	PDS	- Air - Water - Oil
TD 400M 24V DC	24 V	0-400 bar 0-5800 psi	PDS	

AOK20B SERIES

automatic mechanical condensate drain



operating pressure	20 bar
drain capacity	167 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air dryer, air filter

AOK 20 is designed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. For any other technical gas please contact producer or your local distributor. The unit can be installed as external drain on any application specified. Condensate accumulates in the aluminium reservoir and when the level is high enough condensate is discharged from the system without any air losses. Direct acting valve is operated by precise level controlled floater which assures reliable and efficient operation. Thanks to robust aluminium housing AOK 20 is suitable for heavy duty applications. AOK 20 is also equipped with separate manual drain for venting. AOK 20 can be used in variety of applications. For applications not listed please contact producer or your local distributor

Operating temperature range	1,5 - 65 °C (35-149 °F)
Operating pressure	20 bar (290 psi)
Mass	0,6 kg
Discharge capacity (at 7 bar/101 psi)	167 l/h
Inlet connection	G 1/2" (NPT option)
Outlet connection	G 1/2" (NPT option)
Dimensions A × B × C	135 × 110 × 130 mm
Medium	Condensate (air, water, oil)

AOK 20SS SERIES

automatic stainless steel condensate drain



operating pressure	20 bar
drain capacity	167 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air dryer, air filter

AOK 20SS is designed for fully automatic discharging of condensate or any other non aggressive fluid from compressed air system. For any other technical gas please contact producer or your local distributor. The unit can be installed as external drain on any application.

Condensate accumulates in the stainless steel reservoir and when the level is high enough the condensate is discharged from the system without any air loss. A direct acting valve is operated by a precise level controlled floater which assures reliable and efficient operation. Thanks to its robust stainless steel housing AOK 20SS is suitable for heavy duty applications. On the front, the AOK 20SS, is also equipped with a separate manual drain for venting.

Material	Stainless steel 1.4404
Operating temperature range	1,5 - 65 °C (35-149 °F)
Operating pressure	0-20 bar (0-290 psi)
Min. recommended operat. pressure	1,5 bar(g) (21,8 psi)
Mass	6,6 kg
Discharge capacity (at 7 bar/101 psi)	167 l/h (at 7 barg) 252 l/h (at 16 barg)
Inlet connection	G 1/2" (NPT on request)
Outlet connection	G 1/2" (NPT on request)
Medium	Condensate (air, water, oil); non aggressive

AOK 50B SERIES

automatic mechanical high pressure condensate drain



operating pressure	8-50 bar
drain capacity	167 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- air compressor (piston or screw)
- after-cooler
- cyclone condensate separator
- pressure vessel/air tank
- air dryer, air filter

AOK 50B has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. The unit can be installed as external drain on any application specified below.

Condensate accumulates in the aluminium reservoir and when the level is high enough condensate is being discharged from the system. Direct acting valve is operated by precise level controlled floater which assures reliable and efficient operation.

Thanks to light aluminium housing AOK 50B for ease mounting and is also suitable for heavy duty applications. On front side AOK50B is also equipped with separate manual drain for venting.

Material	Aluminium
Operating temperature range	1,5 - 65 °C (35-149 °F)
Operating pressure	8-50 bar (116-725 psi)
Min. recommended operat. pressure	10 bar(g) (145 psi)
Mass	2,8 kg
Discharge capacity (at 7 bar/101 psi)	145 l/h (at 50 barg)
Inlet connection	G 1/2" (NPT on request)
Outlet connection	G 1/2" (NPT on request)
Medium	Condensate (air, water, oil); non aggressive

AOK 50SS SERIES

automatic stainless steel high pressure condensate drain



operating pressure	8-50 bar
drain capacity	167 l/h
inlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- cyclone condensate separator
- air filter

AOK 50SS has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system. The unit can be installed as external drain on any application specified.

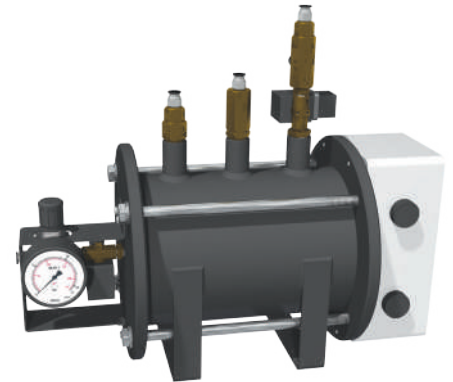
Condensate accumulates in the stainless steel reservoir and is discharged from the system when the level is high enough. A direct acting valve is operated by a precise level controlled floater which assures reliable and efficient operation.

Thanks to its robust stainless steel housing AOK 50SS is suitable for heavy duty applications. On the front, the AOK 50SS, is also equipped with a separate manual drain for venting.

Material	Stainless steel 1.4404
Operating temperature range	1,5 - 65 °C (35-149 °F)
Operating pressure	8-50 bar (116-725 psi)
Min. recommended operat. pressure	10 bar(g) (145 psi)
Mass	7,2 kg
Discharge capacity (at 7 bar/101 psi)	145 l/h (at 50 barg)
Inlet connection	G 1/2" (NPT on request)
Outlet connection	G 1/2" (NPT on request)
Medium	Condensate (air, water, oil); non aggressive

EVD SERIES

vacuum drain



operating pressure	20-2000 mbar(abs)
compressed air supply	ø8 mm
inlet/outlet connection	1/2"
operating temperature range	1,5 to 65 °C

APPLICATIONS

- vacuum systems

EDV has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from vacuum system. The unit can be installed as external drain on any application specified below.

Condensate accumulates in the aluminium reservoir and when the level is high enough condensate is being discharged from the system by the compressed air.

Material	Aluminium	
Operating temp. range	1,5 - 65 °C (35-149 °F)	
Operating pressure	20 - 2000 mbar(abs) / (0,29 - 29 psi)	
Inlet connection	G 1/2"	
Outlet connection	G 1/2"	
Compressed air supply	Push connection for tube ø8	
Air vent connection	Push connection for tube ø8	
Electric power connection	230 Vac	
Dimensions	A	465 mm
	B	240 mm
	C	390 mm
Medium	Condensate (air, water, oil); Non aggressive	

Mechanical condensate drains

AOK16B



Operat. temp. range	1,5 - 65 °C
Operating pressure	0 - 16 bar
Mass	0,04 kg
Connection	G 1/2"
Outlet connection	ø8
Dimensions H × D	90 × ø38,5 mm
Medium	Condensate

AOK16B has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system.

AOK16B is easy to install inside to the filter housing.

AOK16B can be used in variety of applications. For applications not listed please contact producer or your local distributor.

AOK16F



Operat. temp. range	1,5 - 65 °C
Operating pressure	0 - 16 bar
Mass	0,05 kg
Connection	ø 14 mm
Outlet connection	G 1/8
Dimensions H × D	85 × ø24 mm
Medium	Condensate

AOK16F has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air system.

AOK16F is easy to install inside to the filter housing.

AOK16F can be used in variety of applications. For applications not listed please contact producer or your local distributor.

MCD, MCDi



Operat. temp. range	1,5 - 65 °C
Operating pressure	20 bar
Mass	0,06 kg
Connection	G 1/2"
Material	Brass/Stainless st.
Dimensions H × D	38,2 × 24 mm
Medium	Condensate

MCD has been developed for the discharging of condensate or any other non-aggressive fluid from compressed air system. In order to prevent condensate from becoming re-entrained in the airstream we recommend controlling the condensate level in filter bowl, which requires an automatic drain trap.

MCD is easy to install on the filter housing. MCD can be used in variety of applications.

MCD-B



Operat. temp. range	1,5 - 65 °C
Operating pressure	16 bar
Mass	0,011 kg
Connection	G 1/2"
Material	PA6
Dimensions H × D	41,5 × ø24 mm
Medium	Condensate

MCD-B has been developed for manual discharging of condensate or any other non-aggressive fluid from compressed air system. MCD-B is easy to install on the filter housing. Condensate can be drained only manually.

MCD-B is closed even if the system is non-pressurized.

MCD-B can be used in variety of applications.



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