

spirax sarco

ADV Automatic Drain Valve

Description

The Spirax Sarco Automatic Drain Valve (ADV) has been designed to remove condensate from low points in a compressed air system where automatic drainage is required. The mentioned condensate is a mixture of water, petroleum or synthetic based oil, system particulants and dirt.

Principle Features

- Adjustable "on" and "off" cycle times
- Low power consumption
- Bright LED lights indicating operational status.
- Cycle test button
- Brass body with FKM elastimers for both petroleum and synthetic based oils.
- Simple reliable construction.
- Easy serviceability with Strainer Ball Valve.

Applications

The ADV can be installed at any low point in a compressed air system where condensate forms or is collected. Applications include: after coolers, separators, receivers, compressor accumulators, large filter units, drain legs, etc.

Sizes and pipe connection

1/2" NPT inlet at strainer ball valve
1/4", 3/8" and 1/2" NPT outlet from valve body

Technical Data

Operating temperature range	Ambient temperature:	14°F (-10°C) to 122°F (50°C)
	Media temperature:	14°F (-10°C) to 266°F (130°C)
Pressure rating:	300 psig	
Voltage/ Power:	120V AC/30VA inrush, 15VA holding current	
	240V AC/30VA inrush, 15VA holding current	
Timer adjustment:	ON time:	0.5 to 10 seconds.
	OFF time:	0.5 to 45 minutes.
Electrical connection:	DIN 43650 — ISO4400 / 6952	
Coil insulation:	class F (155°C).	
Environmental protection:	IP65.	
Agency approvals:	c UR us, CE	

Product complies with:

EN50081-1: 1995EMC Generic Emissions Standards - Residential, commercial and light industry.

EN61010-1/A2: 1995 Safety requirements for electrical equipment, for measurement, control and laboratory use.

Note: This product may be affected by electro-magnetic interference in an industrial environment.

The Spirax Sarco ADV can be used with compressed air, synthetic or petroleum based oils, water and some non-corrosive gasses.



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In the interests of development and improvement of the product, we reserve the right to change the specification.*

TI-P509-06-US 6.14

ADV Automatic Drain Valve

ADV25, 38 & 50 Series (Heavy Duty)

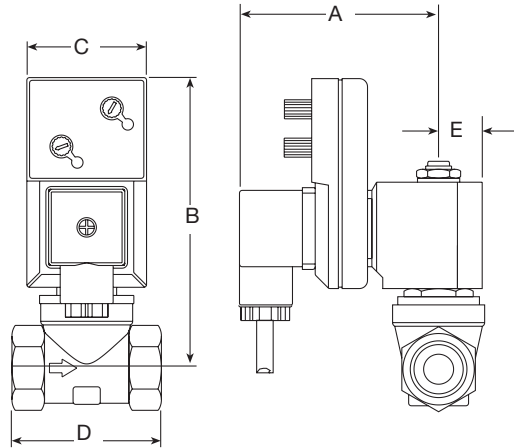
These ADV lines are of heavy duty construction and are designed to allow high flow for quick and efficient dumping of condensate. They are available in 1/4", 3/8" and 1/2" NPT pipe sizes. Construction includes brass bodies stainless steel internals and FKM seals.

Component parts

Part	Material
Coil	Thermoplastic
Timer	ABS
Valve body	Brass
Seals	FKM (not shown)
Powercord	ABS and PVC
Strainer Ball Valve	Brass and Stainless Steel

Dimensions/Weight (approx.) in. / lbs.

A	B	C	D	E	Wgt.
2.92	4.13	1.74	2.13	0.61	1.3



Cv values (approximate)

Valve size	ADV25	ADV38	ADV50
	ADV26	ADV39	ADV51
1/4"		3/8"	1/2"
Cv	1.5	1.7	1.8
Discharge-gallons (5 sec, at 90 psig)	1.2	1.3	1.4

Product Number Information

Listed below are the variations for the **Heavy Duty** 1/4", 3/8" and 1/2" ADV sizes.

ADV25	1/4"	120V AC	ADV38	3/8"	120V AC	ADV50	1/2"	120V AC
ADV26	1/4"	240V AC	ADV39	3/8"	240V AC	ADV51	1/2"	240V AC

For a system with 1/2" NPT piping, 120V ac voltage available you would select (1) **ADV50** Automatic Drain Valve (ADV)

Spare parts

The spare parts are available for only those components listed below.

Seal Kit: A replacement diaphragm assembly (D) is available for all the above sizes. Request "Diaphragm Assembly" for the ADV valve in your system.

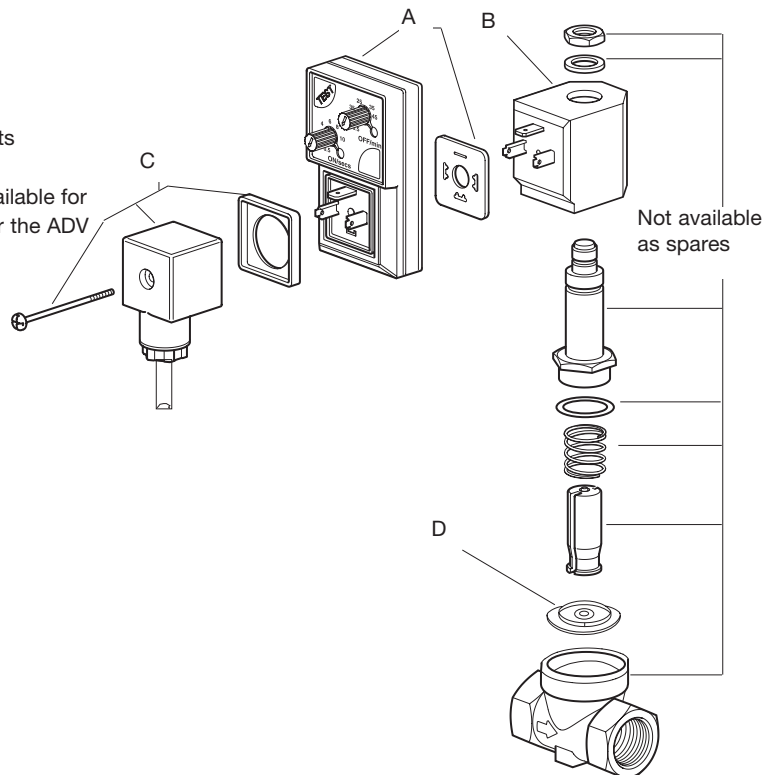
Ex.: Diaphragm Assembly for the ADV38.

Component parts available:

- Coil (B) specify voltage
- Timer (A)
- Powercord (C)

Request the specific "component" for the ADV valve in your system.

EX.: 120V Coil for the ADV51.



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ADV Automatic Drain Valve

ADV10 Series (Standard Duty)

The ADV line is of standard construction and designed to allow adequate flow from smaller systems or those producing lesser condensate. This line is available only in the 1/4" NPT pipe size. Construction includes brass body, stainless steel internals and FKM seals.

Component parts

Part	Material
Coil	Thermoplastic
Timer	ABS
Valve body	Brass
Seals	FKM
Powercord	ABS and PVC

Cv values (approximate)

Valve size	1/4"
Cv	0.1
Discharge-gallons (5 sec, at 90 psig)	0.08

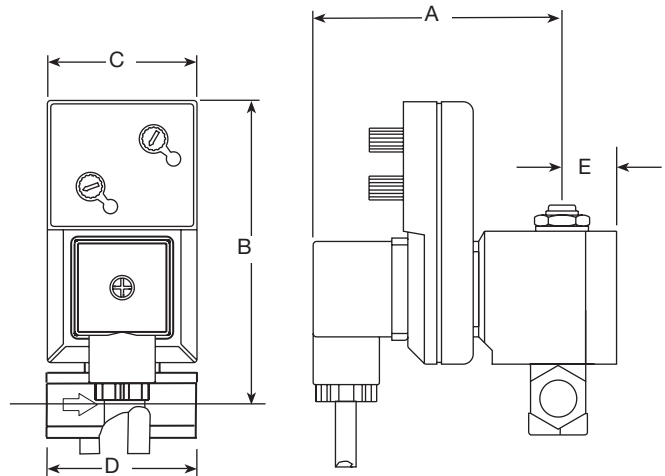
Product Number Information

Listed below are the variations for the 1/4" Standard Duty ADV's
 ADV10 1/4" 120V AC
 ADV11 1/4" 240V AC

For system with 1/4" NPT piping, 120V AC voltage available with little condensate yield you would select (1) **ADV10** Automatic Drain Valve.

Dimensions/Weight (approx.) in. / lbs.

A	B	C	D	E	Wgt.
2.92	3.55	1.74	1.50	0.61	0.85



Spare parts

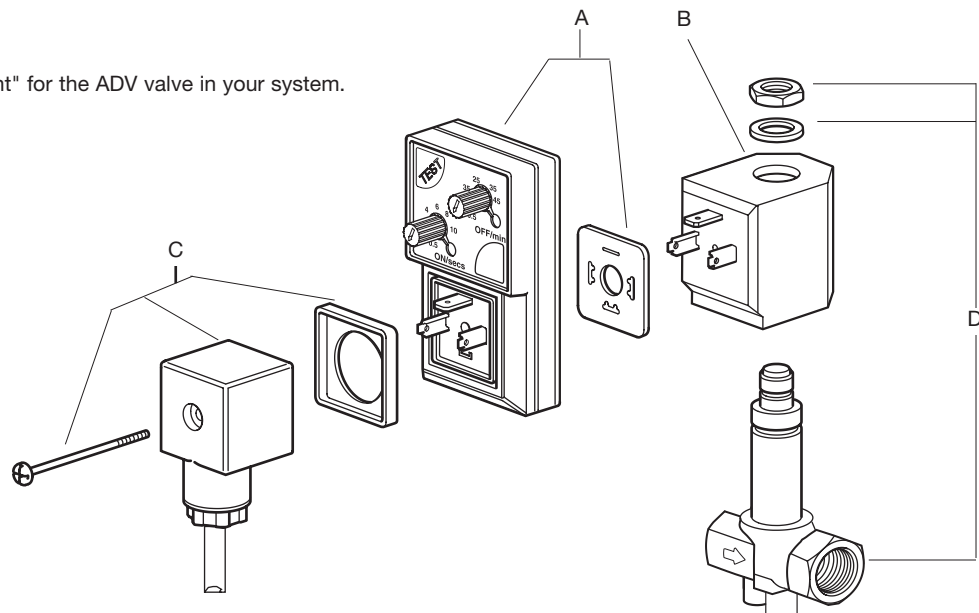
The spare parts are available for only those components listed below.

Seal kit: None, replace valve

Component parts available:

- Coil (B) specify voltage,
- Timer (A)
- Powercord (C)
- Valve (D)

Request the specific "component" for the ADV valve in your system.
 Ex.: 120V Coil for the ADV 10.



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ADV Automatic Drain Valve

Strainer Ball Valves

The Strainer Ball Valve is a very important part of your condensate drain system, because it allows the isolation of the ADV from the pressurized compressor tank as well as containing a 30 mesh stainless steel screen to collect debris that has been produced upstream. The major benefit is that it allows servicing of the ADV without removal and/or depressurizing the system. Also, the use of this device greatly

improves the life of the ADV by not allowing the system debris to enter the solenoid valve, which likely will cause damage to the moving parts and/or the main seal. It is strongly recommended that the Strainer Ball Valve be used in all ADV applications. Failure to use this device could void warranties associated with the ADV product.

Note: All Strainer Ball Valves are packed with the ADV but detached to allow ease of assembly.

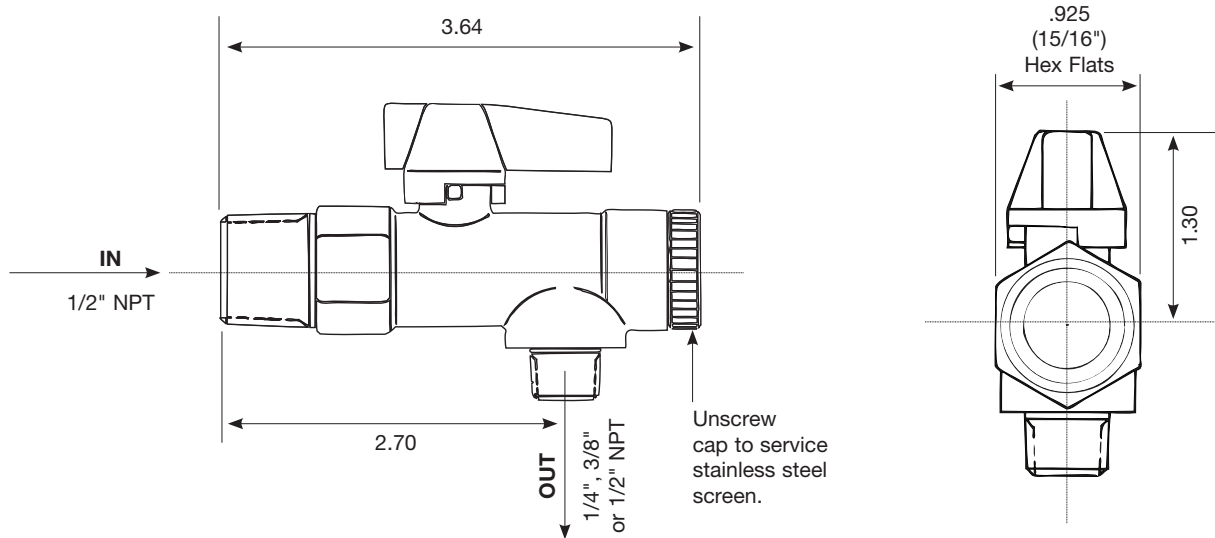
Product Number Information

Listed below are the variations for the 1/4", 3/8" and 1/2" sizes.

360/01 1/2" NPT IN x 1/4" NPT OUT
360/02 1/2" NPT IN x 3/8" NPT OUT
360/03 1/2" NPT IN x 1/2" NPT OUT

Spare parts

Screen: A stainless steel, 30 mesh screen is available in one size (package of three) for all ADV sizes. Request the "Strainer Ball Valve filter screen" for the ADV valve in your system.
Ex.: Strainer Ball Valve "filter screen" pack for the ADV25361.



Ordering Your Automatic Drain Valve

Note: All ADV packages will include the appropriate strainer ball valve.

When ordering, know the pipe connection size, available voltage and the amount of condensate that is to be drained. Also, the size of the compressor tank should be considered, as in the volume that is contained within. Listed below are the variations for the Standard 1/4" & Heavy Duty 1/4", 3/8" and 1/2" ADV sizes.

Size	ADV	SBV	Order no.	Description
1/4"	ADV10 + 360/01		ADV10361	1/4" standard flow, 120V AC ADV with Strainer Ball Valve.
	ADV11 + 360/01		ADV11361	1/4" standard flow, 240V AC ADV with Strainer Ball Valve.
1/4"	ADV25 + 360/01		ADV25361	1/4" high flow, 120V AC ADV with Strainer Ball Valve.
	ADV26 + 360/01		ADV26361	1/4" high flow, 240V AC ADV with Strainer Ball Valve.
3/8"	ADV38 + 360/02		ADV38362	3/8" high flow, 120V AC ADV with Strainer Ball Valve.
	ADV39 + 360/02		ADV39362	3/8" high flow, 240V AC ADV with Strainer Ball Valve.
1/2"	ADV50 + 360/03		ADV50363	1/2" high flow, 120V AC ADV with Strainer Ball Valve.
	ADV51 + 360/03		ADV51363	1/2" high flow, 240V AC ADV with Strainer Ball Valve.

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