

INDIRECTLY OPERATED

solenoid valves for water and steam



Find out our
key products



Solution for most applications



Easy and intuitive choice



Excellent value for money



Wide availability



Fast delivery



Features and certifications

Indirectly operated solenoid valves for fluids and compressed air, servo-assisted with diaphragm. Available in sizes from 1/4" to 2", 2/2 normally closed or normally open, in three seals versions.

Coils and connectors to be ordered separately.

Supplied as standard in compliance to Reach and RoHS directives.

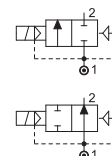


Series AEN 2/2

from page 2.120.10



Series of indirectly operated solenoid valves for fluids and compressed air, servo-assisted with diaphragm, NBR seals, for operating temperatures from -10°C up to +90°C. Available in sizes from 1/4" to 2", 2/2 normally closed or normally open. Coils and connectors to be ordered separately.

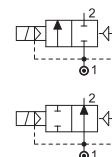


Series AEV 2/2

from page 2.120.10



Series of indirectly operated solenoid valves for fluids and compressed air, servo-assisted with diaphragm, FKM seals, for operating temperatures from -10°C up to +140°C. Available in sizes from 1/4" to 2", 2/2 normally closed or normally open. Coils and connectors to be ordered separately.

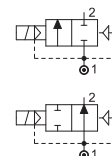


Series AEP 2/2

from page 2.120.10



Series of indirectly operated solenoid valves for fluids and compressed air, servo-assisted with diaphragm, EPDM seals, for operating temperatures up to +140°C. Available in sizes from 1/4" to 2", 2/2 normally closed or normally open. Coils and connectors to be ordered separately.



Options

Description	Symbol	Suffix
Nickel plated		N
Two positions manual override (for availability in normally open function, please contact the sales department)		M

The options, when this is possible, can be combined with each other. For options matching see the table below; For code key see from page 2.120.4

Options matching

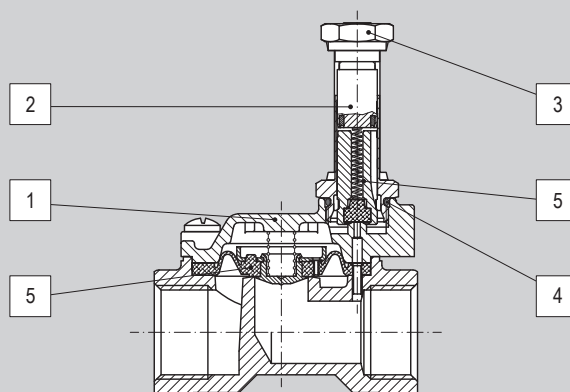
Series	Size	Function	Standard options matching	
			N	M
AEN22	1/4" ÷ 2"	2/2 N.C.	●	●
AEV22			●	●
AEP22			●	●
AEN22A	1/4" ÷ 2"	2/2 N.O.	●	● ⁽¹⁾
AEV22A			●	● ⁽¹⁾
AEP22A			●	● ⁽¹⁾

Key

● allowed matching; – not allowed matching

(1) For availability, please contact the sales department

Standard materials



Position	Description	Material		
		AEN..	AEV..	AEP..
1	Body	Brass		
2	Plunger	Brass		
3	Locking nut	Brass		
4	Seals	NBR	FKM	EPDM
5	Internal parts	Stainless Steel		

Code key

Series	Seals	Function		Port	Options	
AE	N	22		100		
AE	N = NBR seals (-10°C ÷ +90°C)	22 = 2/2		014 = 1/4"	N = Nickel-plated	M ⁽¹⁾ = Bistable manual override
	V = FKM seals (-10°C ÷ +130°C)	= Normally closed		038 = 3/8"		
	P = EPDM seals (-10°C ÷ +140°C)	A = Normally open		012 = 1/2"		
				034 = 3/4"		
				100 = 1"		
				114 = 1 1/4"		
				112 = 1 1/2"		
				200 = 2"		

How to order

Notes

Series

AE

Seals

N

Function

22

Port

100

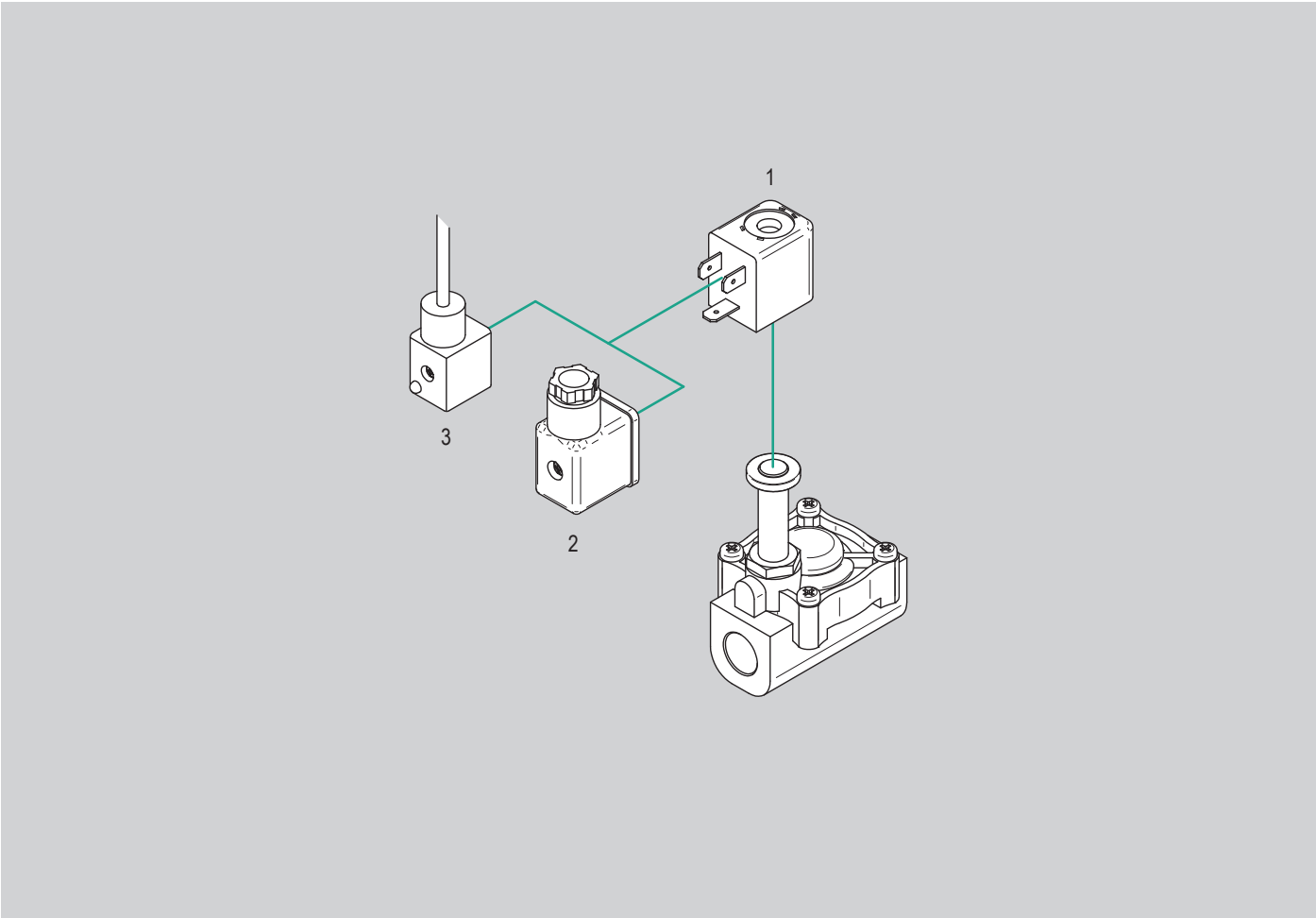
Options in the same grid are alternative to each others.

For further information on options and their matching, see page 2.120.3

Coils and connectors to be ordered separately, see page 2.120.50

(1) For availability with normally open function please contact sales department.

Accessories



2 - VALVES

N.	Item	Description	Compliance	Matching						Code key page	Data sheet page
				AEN..		AEV..		AEP..			
				1/4"÷1"	1 1/4"÷2"	1/4"÷1"	1 1/4"÷2"	1/4"÷1"	1 1/4"÷2"		
1	ASA33..	Coil	DIN 43650	●	-	●	-	●	-	2.120.50	2.315.12
	ASA32..		DIN 43650/A	-	●	-	●	-	●		2.315.13
2	A12209	Connector	VDE 0110 - 1/89	●	-	●	-	●	-		2.318.12
	A18209			-	●	-	●	-	●		2.318.14
3	A12209..K	Cabled connector	VDE 0110 - 1/89	●	-	●	-	●	-		2.318.12
	A18209..K			-	●	-	●	-	●		2.318.14

Key
● matching accessory; - not matching accessory

Indirectly operated solenoid valves for water and steam

1/4" ÷ 2", 2/2 N.C.



Main features

Version	Series	Symbol
2/2 Normally closed with NBR seals	AEN22 	
2/2 Normally closed with FKM seals	AEV22	
2/2 Normally closed with EPDM seals	AEP22	
2/2 Normally open with NBR seals	AEN22A	
2/2 Normally open with FKM seals	AEV22A	
2/2 Normally open with EPDM seals	AEP22A	



Technical data

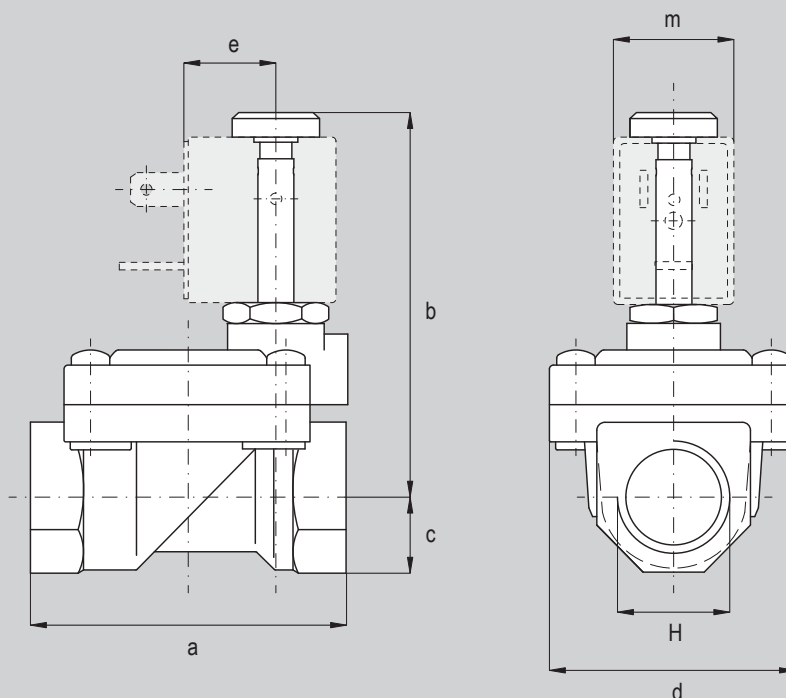
Version		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Code	AEN22 	035501 	035502 	035503 	035504 	035505 	035506	035507	035508
	AEV22	035511	035512	035513	035514	035515	035516	035517	035518
	AEP22	035521	035522	035523	035524	035525	035526	035527	035528
	AEN22A	035535	035581	035536	035558	035560	035575	035576	035574
	AEV22A	035582	035583	035519	035584	035585	035586	035587	035588
	AEP22A	035589	035590	035591	035592	035593	035594	035595	035596
Fluid		Compressed air with or without lubrication. Lubrication, if started, must be continued.							
Maximum pressure range		25 bar							
Temperature range	AEN22	-10°C ÷ +90°C							
	AEV22	-10°C ÷ +140°C							
	AEP22	-10°C ÷ +140°C							
Fluid maximum viscosity		25 cSt mm²/s							
Mounting		Preferably with coil facing upside							
Plunger		10 mm					13 mm		
Orifice		10 mm	12 mm		18 mm	25 mm	37 mm		50 mm
Flow		1,5 m³/h	2,2 m³/h	2,5 m³/h	5,5 m³/h	10,2 m³/h	18 m³/h	21 m³/h	36 m³/h
Differential pressure	Minimum	0,15 bar							
	Maximum AC / DC	15 bar			13 bar	10 bar			
Nominal power (AC)	Inrush	12 V					20 V		
	Rating	8 V					15 V		
Nominal power (DC)		6,5 Watt					10 Watt		
Coils matching*		ASA33..					ASA32..		
Connectors matching*		A122..					A182..		

*Notes

Coils and connectors to be ordered separately. For coils type ASA33 e ASA32 see from page 2.315.1. For connectors type A122 e A182 see from page 2.318.1

Standard dimensions

Type: **AEN22 - AEN22A**
AEV22 - AEV22A
AEP22 - AEP22A



Item / Code			Symbol	Port (H)	a	b	c	d	e	m	Weight (g)
AEN22	AEV22	AEP22									
035501	035511	035521		1/4"	49	65	11	32	16	22	230
035502	035512	035522		3/8"	59	70	14	45	16	22	420
035503	035513	035523		1/2"	59	70	14	45	16	22	390
035504	035514	035524		3/4"	79	76	18	55	16	22	650
035505	035515	035525		1"	96	85	20	72	16	22	1050
035506	035516	035526		1-1/4"	142	105	28	102	21	30	3000
035507	035517	035527		1-1/2"	142	105	28	102	21	30	2850
035508	035518	035528		2"	158	115	35	119	21	30	4300
Item / Code			Symbol	Port (H)	a	b	c	d	e	m	Weight (g)
AEN22A	AEV22A	AEP22A									
035535	035582	035589		1/4"	49	65	11	32	16	22	230
035581	035583	035590		3/8"	59	73	14	45	16	22	420
035536	035519	035591		1/2"	59	73	14	45	16	22	390
035558	035584	035592		3/4"	79	76	18	55	16	22	650
035560	035585	035593		1"	96	85	20	72	16	22	1050
035575	035586	035594		1-1/4"	142	105	28	102	21	30	3000
035576	035587	035595		1-1/2"	142	105	28	102	21	30	2850
035574	035588	035596		2"	158	119	35	119	21	30	4300

Coils ASA33..

	Voltage	Code	Item	Matching
	12V DC	034311	ASA3301200	1/4"÷1"
	12V AC	034312	ASA3301250	
	24V DC	034313	ASA3302400	
	24V AC	034314	ASA3302450	
	48V AC	034315	ASA3304850	
	110V AC	034316	ASA3311050	
	230V AC	034317	ASA3323050	

Coils ASA32..

	Voltage	Code	Item	Matching
	12V DC	034321	ASA3201200	1 1/4"÷3"
	12V AC	034322	ASA3201250	
	24V DC	034323	ASA3202400	
	24V AC	034324	ASA3202450	
	48V AC	034325	ASA3204850	
	110V AC	034326	ASA3211050	
	230V AC	034327	ASA3223050	

Connectors A122..*

	Code	Item	Description
	032118	A12209N	Black standard
	033521	A12209NK	Black standard cabled
	032204	A12209T1	LED+VDR transparent 24VAC-DC
	032205	A12209T2	LED+VDR transparent 115VAC-DC
	032206	A12209T3	LED+VDR transparent 230VAC-DC
	033522	A12209N1K	LED+VDR black cabled 24VAC-DC
	033523	A12209N2K	LED+VDR black cabled 115VAC-DC
	033524	A12209N3K	LED+VDR black cabled 230VAC-DC

* For coils type ASA33

Connectors A182..**

	Code	Item	Description
	032119	A18209N	Black standard
	033531	A18209NK	Black standard cabled
	032207	A18209T1	LED+VDR transparent 24VAC-DC
	032208	A18209T2	LED+VDR transparent 115VAC-DC
	032209	A18209T3	LED+VDR transparent 230VAC-DC
	033532	A18209N1K	LED+VDR black cabled 24VAC-DC
	033533	A18209N2K	LED+VDR black cabled 115VAC-DC
	033534	A18209N3K	LED+VDR black cabled 230VAC-DC

* For coils type ASA32