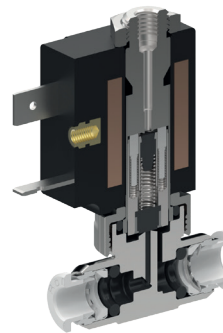


2/2- and 3/2-Way Solenoid Valves Type EAV Series 700



Solenoid valve series with familiar constructional design, however with significantly improved magnetic circuit. On the lower part of the guid tube a magnetic nipple is welded on, which reduces the magnetic resistance of the circuit.

This improvement enables among other things the use of solenoid valves with significantly reduced power consumption and thus lowers the self-heating of the system.

A further feature of this series is the especially strong and corrosion-resistant construction.

Solenoid coils with four graduated performance classes enable convenient adjustment to various requirements, with respect to nominal width, diameters, operating pressure, power consumption, Type of current or permitted self-heating.

Application

- Unbeatable price-performance ratio
- Individual product developments
- Extremely high material strength
- NSF certified
- Flexibility in design
- Lightweight
- Smallest dimensions
- Highest product quality
- Fail-safe and durable

CHARACTERISTICS

GENERAL

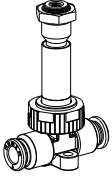
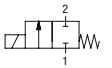
Constructional design	Seat valve, rubber seals			
Product name	2/2-way solenoid valve		3/2-way solenoid valve	
Actuation	electric, direct-acting			
Product type	EAV-7...-A..	EAV-7...-B..	EAV-7...-C..	EAV-7...-D..
Function	“A” normally closed (closing with flow)	“B” normally open (closing against current)	“C” normally closed with “1”, “2” to “3” discharged (closing against current)	“D” in 0 position “1” to “2” open “3” closed (closing against current)
Nominal diameter	DN 1.2 to DN 3	DN 1.2 to DN 1.8		
Connection	ELSA push-in connection for tube/pipe 6			
Ambient temperature	0 °C to +60 °C			
Medium temperature	0 °C to +120 °C			
Medium viscosity	up to approx. 20 mm²/s			
Valve body material	1.4404 (AISI 316L)			
Other inner component material	Stainless steel			
Seal material	FKM (Fluor-Rubber) (others on request)			
Mounting method	2 M4 tapped holes in valve body or using rigid pipework			
Mounting position	optional, preferably upright			
Approval	NSF/ANSI 169			
PNEUMATIC - HYDRAULIC				
Nominal pressure	According to Type table. The numerical value of the nominal pressure PN signifies the permitted excess operating pressure OP in bar at 60 °C ambient temperature and 60 °C medium temperature. Insofar as two values are given, the first value refers to solenoid coils with highest electrical power consumption, the second value to that with lowest power consumption.			
Pressure range	Technical vacuum up to permitted operating pressure OP. For exceptions which refer to minimum permitted operating pressure see table.			
Flow rate	Kv-value and QNn-value according to Type table			
Medium	gaseous or liquid			
Response time	opening time: 7 - 20 ms closing time: 12 - 20 ms			
Electrical	see solenoid coils			

2/2-Way Solenoid Valve - Type EAV Series 700

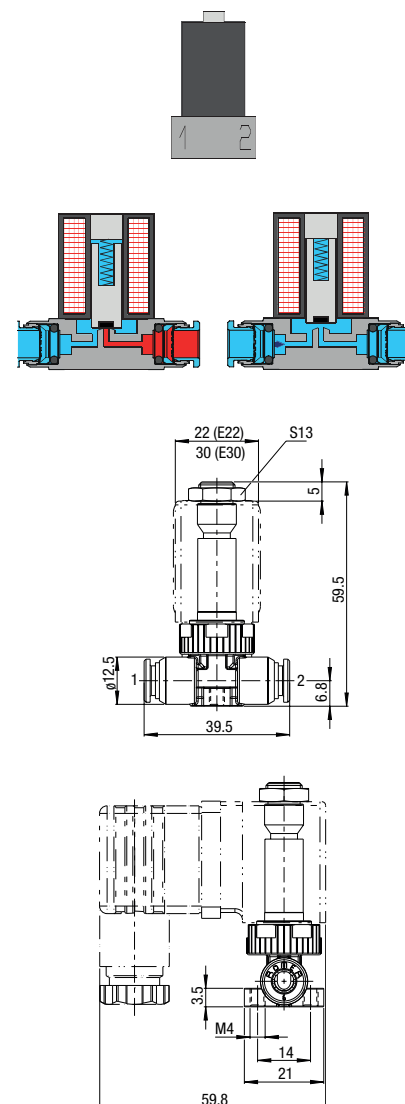
Price group **51**

“A” normally closed
(closing with flow)

Stainless
Steel

Version	DN	Kv-value water [m³/h]	QnN- value air [l/min]	For tube D	PN	Sealing material	Type	Order number	Price
 	1.2	0.05	50	6	20/12.5	FKM	EAV-713X4M-A12-6FFK-00	686300	o. r.
	1.5	0.06	68	6	20/6	FKM	EAV-713X4M-A15-6FFK-00	686301	o. r.
	2	0.12	145	6	16/4	FKM	EAV-713X4M-A20-6FFK-00	686302	o. r.
	3	0.21	210	6	10/2	FKM	EAV-713X4M-A30-6FFK-00	686303	o. r.

Illustration



Permitted Operating Pressure for 2/2-Way Solenoid Valve - Type EAV Series 700

“A” normally closed
(closing with flow)

DN	Type	PN	Combinable solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C														
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 			DC 			DC 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			100 %U _N Medium temperature		
							60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-713X4M-A12..	20/12,5	E22...L.	-	-	2.5	-	-	-	-	-	-	15	10	9	8	6	4	9	9	7
			E22...M.	-	-	5	-	-	-	-	-	-	30	25	20	20	18	15	25	22	20
			E22...H.	-	-	8	-	-	-	-	-	-	40	35	20	30	25	20	38	32	28
			E30...P.	-	-	8	-	-	-	-	-	-	40	35	20	40	35	30	40	35	30
1.5	EAV-713X4M-A15..	20/6	E22...L.	-	-	2.5	-	-	-	-	-	-	7	5	4	4	3	2	6	5	4
			E22...M.	-	-	5	-	-	-	-	-	-	18	16	14	12	10	8	16	14	13
			E22...H.	-	-	8	-	-	-	-	-	-	25	20	18	17	13	10	20	18	15
			E30...P.	-	-	8	-	-	-	-	-	-	35	30	20	28	25	21	30	28	26
2	EAV-713X4M-A20..	16/4	E22...L.	-	-	2.5	-	-	-	-	-	-	4	3	2.5	2.5	1.5	1	3	2.5	2
			E22...M.	-	-	5	-	-	-	-	-	-	11	8	7	6	5	4.5	8	7	6
			E22...H.	-	-	8	-	-	-	-	-	-	16	14	11	10	8	7	12	10	8
			E30...P.	-	-	8	-	-	-	-	-	-	18	15	13	17	15	14	20	18	16
3	EAV-713X4M-A30..	10/2	E22...L.	-	-	2.5	-	-	-	-	-	-	2	1.5	1.2	1.2	0.9	0.7	1.8	1.4	0.8
			E22...M.	-	-	5	-	-	-	-	-	-	3.5	3	2.8	2.5	2	1.5	3	2.5	2
			E22...H.	-	-	8	-	-	-	-	-	-	9	7	6	5	4	3	6	5	4
			E30...P.	-	-	8	-	-	-	-	-	-	10	9	7	9	7	6	10	9	8

2/2-Way Solenoid Valve - Type EAV Series 700

Price group **51**

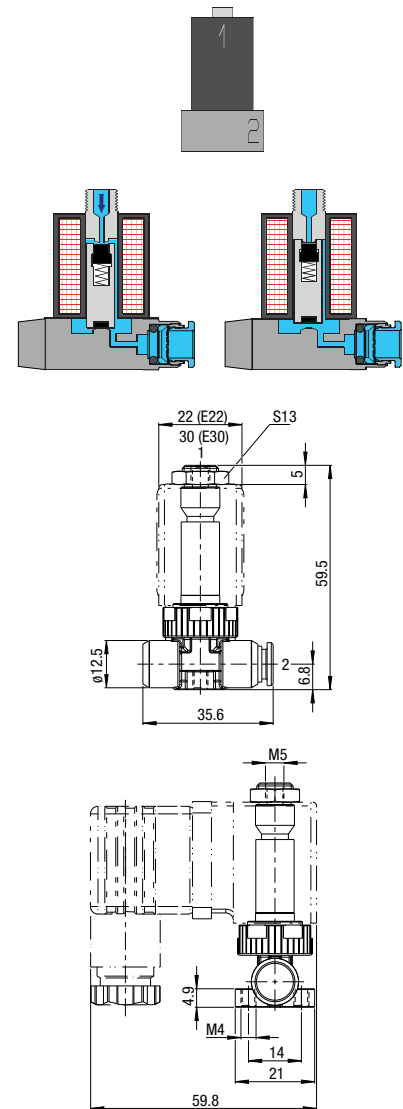
"B" normally open
(closing against current)

Permitted operating
pressure table below

**Stainless
Steel**

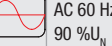
Version	DN	Kv-value water [m³/h]	Q _{Nn} - value air [l/min]	For tube D	PN	Sealing material	Type	Order number	Price
 	1.2	0.05	48	6	16	FKM	EAV-713X4M-B12-6FFK-00	686335	o. r.
	1.5	0.06	65	6	10	FKM	EAV-713X4M-B15-6FFK-00	686336	o. r.
	1.8	0.1	110	6	8	FKM	EAV-713X4M-B18-6FFK-00	686337	o. r.

Illustration



Permitted Excess Operating Pressure OP for 2/2-Way Solenoid Valve - Type EAV Series 700

"B" normally open
(closing against current)

DN	Type	PN	Combinable solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C														
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 			DC 			DC 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			100 %U _N Medium temperature		
							60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-713-B12..	16	E22...M.	-	-	5	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30...P.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
1.5	EAV-713-B15..	10	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	9	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
2	EAV-713-B18..	8	E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	7	7	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8

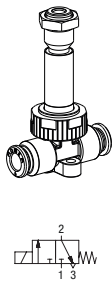
3/2-Way Solenoid Valve - Type EAV Series 700

Price group **51**

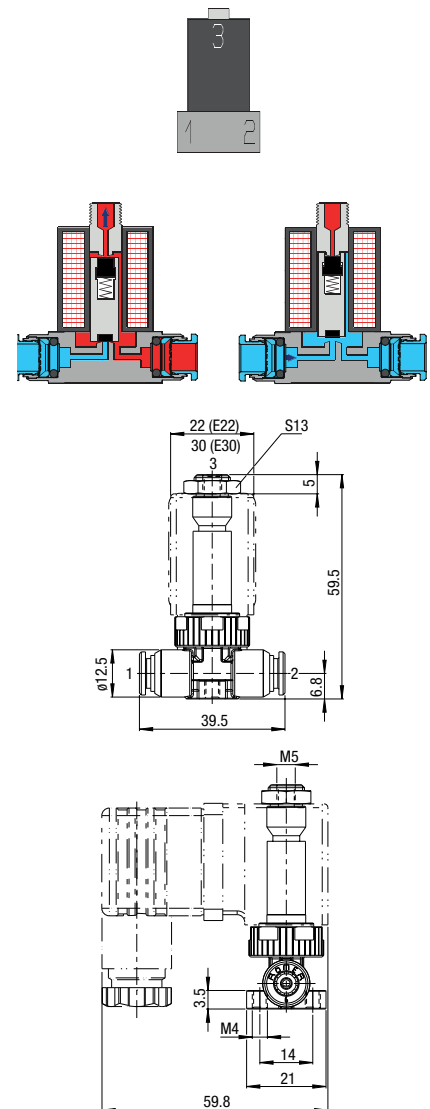
"C" normally closed with "1", "2" to "3" discharged (closing against current)



Stainless Steel

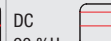
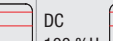
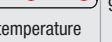
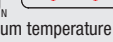
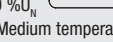
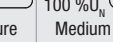
Version	DN	Kv-value Water [m³/h]	Q _{Nn} - value air [l/min]	For tube D	PN	Sealing material	Type	Order number	Price
	1.2	1 > 2 0,05 2 > 3 0,06	1 > 2 50 2 > 3 65	6	12,5	FKM	EAV-713X4M-C12-6FFK-00	686321	o. r.
	1.5	1 > 2 0,06 2 > 3 0,10	1 > 2 68 2 > 3 115	6	10	FKM	EAV-713X4M-C15-6FFK-00	686322	o. r.
	2	1 > 2 0,09 2 > 3 0,08	1 > 2 124 2 > 3 110	6	6	FKM	EAV-713X4M-C20-6FFK-00	686323	o. r.
	3	1 > 2 0,1 2 > 3 0,08	1 > 2 165 2 > 3 110	6	4	FKM	EAV-713X4M-C30-6FFK-00	686324	o. r.

Illustration



Permitted Operating Pressure for 3/2-Way Solenoid Valve - Type EAV Series 700

"C" normally closed with "1", "2" to "3" discharged (closing against current)

DN	Type	PN	Combinable solenoid coils			Permitted operating pressure [bar] at ambient temperature +60 °C															
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 			DC 			DC 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N 			90 %U _N 			90 %U _N 			90 %U _N 			100 %U _N 		
							60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-713X4M-C12..	12.5	E22...M.	-	-	5	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E22...H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30...P.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
1.5	EAV-713X4M-C15..	10	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
2.0	EAV-713X4M-C20..	6	E22...M.	-	-	5	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6
			E22...H.	-	-	8	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6
			E30...P.	-	-	8	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6
3.0	EAV-713X4M-C30..	4	E22...M.	-	-	5	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4
			E22...H.	-	-	8	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4
			E30...P.	-	-	8	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4

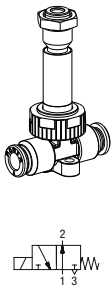
3/2-Way Solenoid Valve Type EAV Series 700

Price group **51**

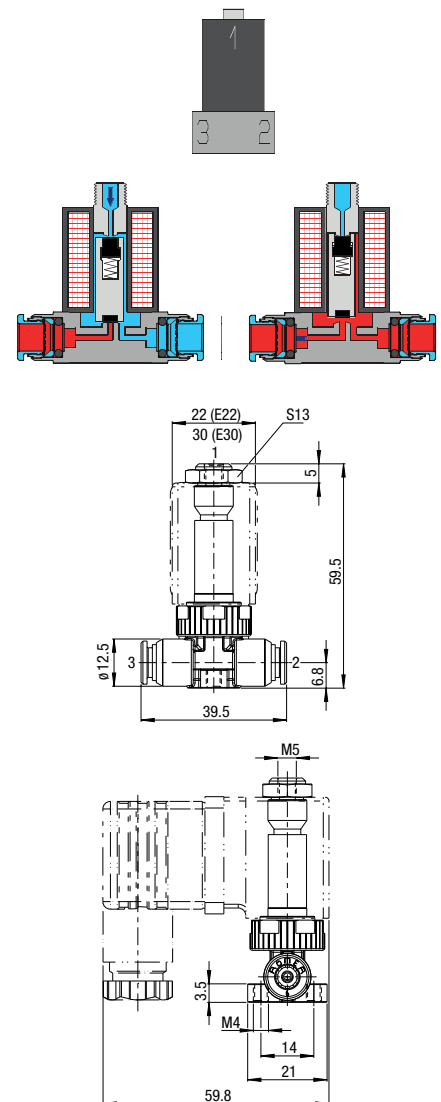
"D" in 0 position "1" to "2" open, "3" closed (closing against current)

Permitted operating pressure Table below


Stainless Steel

Version	DN	Kv-value water [m³/h]	Q _{Nn} -value air [l/min]	For tube D	PN	Sealing material	Type	Order number	Price
	1.2	1 > 2 0,05 2 > 3 0,06	1 > 2 48 2 > 3 68	6	16	FKM	EAV-713X4M-D12-6FFK-00	686357	o. r.
	1.5	1 > 2 0,06 2 > 3 0,11	1 > 2 68 2 > 3 125	6	10	FKM	EAV-713X4M-D15-6FFK-00	686358	o. r.
	1.8	1 > 2 0,10 2 > 3 0,11	1 > 2 115 2 > 3 125	6	8	FKM	EAV-713X4M-D18-6FFK-00	686359	o. r.

Illustration

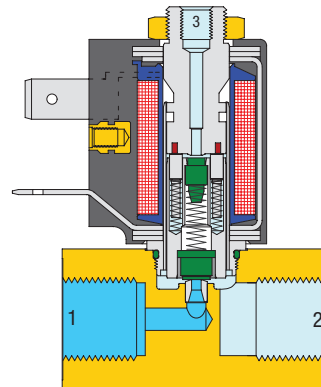
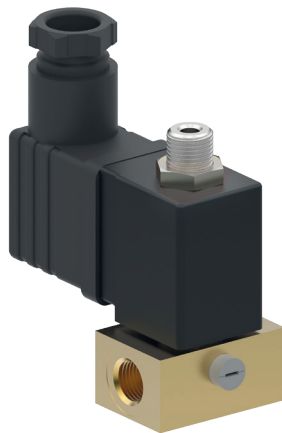


Permitted Operating Pressure for 3/2-Way Solenoid Valve - Type EAV Series 700

"D" in 0 position "1" to "2" open, "3" closed (closing against current)

DN	Type	PN	Combinable solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C														
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 			DC 			DC 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			100 %U _N Medium temperature		
				60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-713-D12..	16	E22...M.	-	-	5	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30...P.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
1.5	EAV-713-D15..	10	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	9	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
1.8	EAV-713-D18..	8	E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	7	7	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8

2/2- and 3/2-Way Solenoid Valves Type EAV Series 200



Solenoid valve series with familiar constructional design, however with significantly improved magnetic circuit.

On the lower part of the guide tube a magnetic nipple is welded on, which reduces the magnetic resistance of the circuit.

This improvement enables among other things the use of solenoid valves with significantly reduced power consumption and thus lowers the self-heating of the system.

A further feature of this series is the especially strong and corrosion-resistant construction. Solenoid coils with four graduated performance classes enable convenient adjustment to various requirements, with respect to nominal width, diameters, operating pressure, power consumption, Type of current or permitted self-heating.

CHARACTERISTICS

GENERAL

Constructional design	Seat valve, rubber seals			
Product name	2/2-way solenoid valve		3/2-way solenoid valve	
Actuation	electric, direct-acting, resting manual override optional			
Product type	EAV-2..-A..	EAV-2..-B..	EAV-2..-C..	EAV-2..-D..
Function	“A” normally closed (closing with flow)	“B” normally open (closing against current)	“C” normally closed with “1”, “2” to “3” discharged (closing against current)	“D” in 0 position “1” to “2” open, “3” closed (closing against current)
Nominal diameter	DN 1.2 to DN 2.2	DN 1.2 to DN 1.8		
Connection	M 5 or pipe thread (ISO 228) G 1/8 to G 1/4			
Ambient temperature	-20 °C to +60 °C (others on request)			
Medium temperature	with NBR: -10 °C to +90 °C for FKM: -10 °C to +130 °C (for exceptions see table)			
Medium viscosity	up to approx. 20 mm²/s			
Valve body material	Brass			
Manual override	PPE (Polyphenylene ether)			
Seat nozzle material	Stainless steel			
Other inner component material	Stainless steel and non-ferrous metal. DC non-ferrous metal-free version			
Seal material	NBR (Nitrile rubber) or FKM (Fluoride rubber) (others on request)			
Mounting method	2 M3 tapped holes in valve body or using rigid pipework			
Mounting position	optional, preferably upright			
PNEUMATIC - HYDRAULIC				
Nominal pressure	According to Type table. The numerical value of the nominal pressure PN signifies the permitted excess operating pressure OP in bar at 60 °C ambient temperature and 60 °C medium temperature. Insofar as two values are given, the first value refers to solenoid coils with highest electrical power consumption, the second value to that with lowest power consumption.			
Pressure range	Technical vacuum up to permitted operating pressure OP. For exceptions which refer to minimum permitted operating pressure see table.			
Flow rate	Kv-value and QNn-value according to Type table			
Medium	gaseous or liquid Sealing material NBR: e.g. compressed air, water, hydraulic fluids, neutral gases Sealing material FKM: e.g. solvents, hot water, hot air			
Response time	opening time: 7 - 20 ms closing time: 12 - 20 ms			
Electrical	see solenoid coils			

2/2-Way Solenoid Valve - Type EAV Series 200

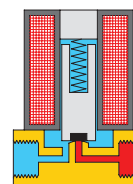
Price group **51**

"A" normally closed NC

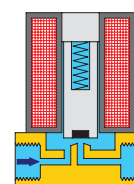
Brass

Version	DN	Kv-value water [m³/h]	Q _N -value air [l/min]	G	PN	Sealing material	Type	Order number	Price
without manual override for all AC and DC coils	1.2	0.05	50	M5	40/16	NBR	EAV-211-A12-M05BK-00	605001	o. r.
	1.2	0.05	50	M5	40/16	FKM	EAV-211-A12-M05FK-00	605002	o. r.
	1.2	0.05	50	G 1/8	40/16	NBR	EAV-211-A12-1/8BK-00	605003	o. r.
	1.2	0.05	50	G 1/8	40/16	FKM	EAV-211-A12-1/8FK-00	605004	o. r.
	1.5	0.06	68	M5	32/6	NBR	EAV-211-A15-M05BK-00	605007	o. r.
	1.5	0.06	68	M5	32/6	FKM	EAV-211-A15-M05FK-00	605008	o. r.
	1.5	0.06	68	G 1/8	32/6	NBR	EAV-211-A15-1/8BK-00	605009	o. r.
	1.5	0.06	68	G 1/8	32/6	FKM	EAV-211-A15-1/8FK-00	605010	o. r.
	1.8	0.11	125	M5	32/6	NBR	EAV-211-A18-M05BK-00	605013	o. r.
	1.8	0.11	125	M5	32/6	FKM	EAV-211-A18-M05FK-00	605014	o. r.
	1.8	0.11	125	G 1/8	32/6	NBR	EAV-211-A18-1/8BK-00	605015	o. r.
	1.8	0.11	125	G 1/8	32/6	FKM	EAV-211-A18-1/8FK-00	605016	o. r.
	2	0.12	145	M5	25/4	NBR	EAV-211-A20-M05BK-00	605019	o. r.
	2	0.12	145	M5	25/4	FKM	EAV-211-A20-M05FK-00	605020	o. r.
	2	0.12	145	G 1/8	25/4	NBR	EAV-211-A20-1/8BK-00	605021	o. r.
	2	0.12	145	G 1/8	25/4	FKM	EAV-211-A20-1/8FK-00	605022	o. r.
	2	0.12	145	G 1/4	25/4	NBR	EAV-211-A20-1/4BK-00	605023	o. r.
	2	0.12	145	G 1/4	25/4	FKM	EAV-211-A20-1/4FK-00	605024	o. r.
	2.2	0.13	165	M5	16/3	NBR	EAV-211-A22-M05BK-00	605025	o. r.
	2.2	0.13	165	M5	16/3	FKM	EAV-211-A22-M05FK-00	605026	o. r.
	2.2	0.13	165	G 1/8	16/3	NBR	EAV-211-A22-1/8BK-00	605027	o. r.
	2.2	0.13	165	G 1/8	16/3	FKM	EAV-211-A22-1/8FK-00	605028	o. r.
	2.2	0.13	165	G 1/4	16/3	NBR	EAV-211-A22-1/4BK-00	605029	o. r.
	2.2	0.13	165	G 1/4	16/3	FKM	EAV-211-A22-1/4FK-00	605030	o. r.
without manual override for all DC coils	3	0.21	210	G 1/8	10/2	NBR	EAV-211-A30-1/8BK-00	605031	o. r.
	3	0.21	210	G 1/8	10/2	FKM	EAV-211-A30-1/8FK-00	605032	o. r.
	3	0.21	210	G 1/4	10/2	NBR	EAV-211-A30-1/4BK-00	605033	o. r.
	3	0.21	210	G 1/4	10/2	FKM	EAV-211-A30-1/4FK-00	605034	o. r.
	1.2	0.05	50	M5	40/12.5	NBR	EAV-213-A12-M05BK-00	605051	o. r.
	1.2	0.05	50	M5	40/12.5	FKM	EAV-213-A12-M05FK-00	605052	o. r.
	1.2	0.05	50	G 1/8	40/12.5	NBR	EAV-213-A12-1/8BK-00	605053	o. r.
	1.2	0.05	50	G 1/8	40/12.5	FKM	EAV-213-A12-1/8FK-00	605054	o. r.
	1.5	0.06	68	M5	32/6	NBR	EAV-213-A15-M05BK-00	605057	o. r.
	1.5	0.06	68	M5	32/6	FKM	EAV-213-A15-M05FK-00	605058	o. r.
	1.5	0.06	68	G 1/8	32/6	NBR	EAV-213-A15-1/8BK-00	605059	o. r.
	1.5	0.06	68	G 1/8	32/6	FKM	EAV-213-A15-1/8FK-00	605060	o. r.
	1.8	0.11	125	M5	25/5	NBR	EAV-213-A18-M05BK-00	605063	o. r.
	1.8	0.11	125	M5	25/5	FKM	EAV-213-A18-M05FK-00	605064	o. r.
	1.8	0.11	125	G 1/8	25/5	NBR	EAV-213-A18-1/8BK-00	605065	o. r.
	1.8	0.11	125	G 1/8	25/5	FKM	EAV-213-A18-1/8FK-00	605066	o. r.
	2	0.12	145	M5	16/4	NBR	EAV-213-A20-M05BK-00	605069	o. r.
	2	0.12	145	M5	16/4	FKM	EAV-213-A20-M05FK-00	605070	o. r.
	2	0.12	145	G 1/8	16/4	NBR	EAV-213-A20-1/8BK-00	605071	o. r.
	2	0.12	145	G 1/8	16/4	FKM	EAV-213-A20-1/8FK-00	605072	o. r.
	2	0.12	145	G 1/4	16/4	NBR	EAV-213-A20-1/4BK-00	605073	o. r.
	2	0.12	145	G 1/4	16/4	FKM	EAV-213-A20-1/4FK-00	605074	o. r.
	2.2	0.13	165	M5	16/3	NBR	EAV-213-A22-M05BK-00	605075	o. r.
	2.2	0.13	165	M5	16/3	FKM	EAV-213-A22-M05FK-00	605076	o. r.
	2.2	0.13	165	G 1/8	16/3	NBR	EAV-213-A22-1/8BK-00	605077	o. r.
	2.2	0.13	165	G 1/8	16/3	FKM	EAV-213-A22-1/8FK-00	605078	o. r.
	2.2	0.13	165	G 1/4	16/3	NBR	EAV-213-A22-1/4BK-00	605079	o. r.
	2.2	0.13	165	G 1/4	16/3	FKM	EAV-213-A22-1/4FK-00	605080	o. r.
with manual override for all AC and DC coils	3	0.21	210	G 1/8	10/2	NBR	EAV-213-A30-1/8BK-00	605081	o. r.
	3	0.21	210	G 1/8	10/2	FKM	EAV-213-A30-1/8FK-00	605082	o. r.
	3	0.21	210	G 1/4	10/2	NBR	EAV-213-A30-1/4BK-00	605083	o. r.
	3	0.21	210	G 1/4	10/2	FKM	EAV-213-A30-1/4FK-00	605084	o. r.
	1.5	0.06	68	M5	12.5/6	NBR	EAV-221-A15-M05BK-00	605207	o. r.
	1.5	0.06	68	M5	12.5/6	FKM	EAV-221-A15-M05FK-00	605208	o. r.
	1.5	0.06	68	G 1/8	12.5/6	NBR	EAV-221-A15-1/8BK-00	605209	o. r.
	1.5	0.06	68	G 1/8	12.5/6	FKM	EAV-221-A15-1/8FK-00	605210	o. r.
	2	0.12	145	G 1/8	12.5/4	NBR	EAV-221-A20-1/8BK-00	605221	o. r.
	2	0.12	145	G 1/8	12.5/4	FKM	EAV-221-A20-1/8FK-00	605222	o. r.
	2	0.12	145	G 1/4	12.5/4	NBR	EAV-221-A20-1/4BK-00	605223	o. r.
	2	0.12	145	G 1/4	12.5/4	FKM	EAV-221-A20-1/4FK-00	605224	o. r.
with manual override for all AC and DC coils	3	0.21	210	G 1/8	10/2	NBR	EAV-221-A30-1/8BK-00	605231	o. r.
	3	0.21	210	G 1/8	10/2	FKM	EAV-221-A30-1/8FK-00	605232	o. r.
	3	0.21	210	G 1/4	10/2	NBR	EAV-221-A30-1/4BK-00	605233	o. r.
	3	0.21	210	G 1/4	10/2	FKM	EAV-221-A30-1/4FK-00	605234	o. r.

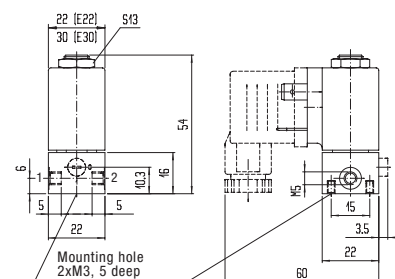
Illustration



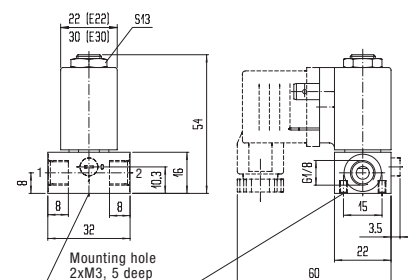
Normal position



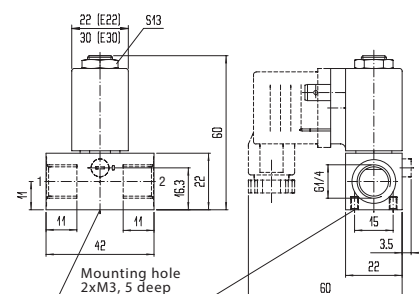
Operational position



Version with M5 Ports



Version with G 1/8 Port



Version with G 1/4 Port

Permitted Operating Pressure for 2/2-Way Solenoid Valve - Type EAV Series 200

"A" normally closed NC

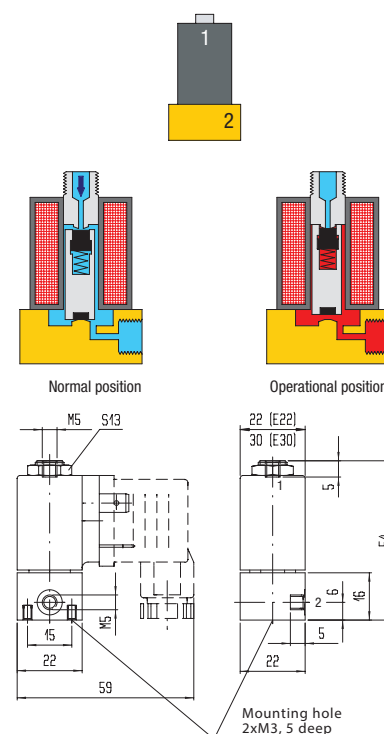
DN	Type	PN	Combinable solenoid coils			Permitted operating pressure [bar] at ambient temperature +60 °C															
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]															
							60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-211-A12..	40/16	E22...L.	3.5	on req.	2.5	16	13	12	16	13	12	15	10	9	8	6	4	9	8	7
			E22...M.	5.5	5	5	40	35	30	40	35	30	30	25	20	20	18	15	23	21	20
			E22...H.	-	-	8	-	-	-	-	-	-	40	35	30	30	25	20	38	32	28
			E30...P.	12	10.5	8	40	35	30	40	35	30	40	35	30	40	35	30	40	35	30
	EAV-213-A12..	40/12.5	E22...L.	-	-	2.5	-	-	-	-	-	-	15	10	9	8	6	4	9	9	7
			E22...M.	-	-	5	-	-	-	-	-	-	30	25	20	20	18	15	25	22	20
			E22...H.	-	-	8	-	-	-	-	-	-	40	35	30	30	25	20	38	32	28
			E30...P.	-	-	8	-	-	-	-	-	-	40	35	30	40	35	30	40	35	30
1.5	EAV-211-A15..	32/6	E22...L.	3.5	on req.	2.5	7	on req.	on req.	7	on req.	on req.	6	5	4	4	3	2	6	5	4
			E22...M.	5.5	5	5	28	26	24	28	26	24	18	16	14	12	10	8	15	13	12
			E22...H.	-	-	8	-	-	-	-	-	-	25	20	18	17	13	10	20	18	16
			E30...P.	12	10.5	8	35	32	28	28	25	20	32	28	22	28	25	21	30	28	26
	EAV-213-A15..	32/6	E22...L.	-	-	2.5	-	-	-	-	-	-	7	5	4	4	3	2	6	5	4
			E22...M.	-	-	5	-	-	-	-	-	-	18	16	14	12	10	8	16	14	13
			E22...H.	-	-	8	-	-	-	-	-	-	25	20	18	17	13	10	20	18	15
			E30...P.	-	-	8	-	-	-	-	-	-	35	30	25	28	25	21	30	28	26
	EAV-221-A15..	12.5/6	E22...L.	3.5	on req.	2.5	7	*	*	7	*	*	6	*	*	4	*	*	6	*	*
			E22...M.	5.5	5	5	12.5	*	*	12.5	*	*	12.5	*	*	12	*	*	12.5	*	*
			E22...H.	-	-	8	-	*	*	-	*	*	12.5	*	*	12.5	*	*	12.5	*	*
			E30...P.	12	10.5	8	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*
1.8	EAV-211-A18..	32/6	E22...L.	3.5	on req.	2.5	6	on req.	on req.	6	on req.	on req.	5	4	3	3.5	2	1.5	5	4	3
			E22...M.	5.5	5	5	20	19	18	20	18	17	12	10	8	8	7	6	12	10	9
			E22...H.	-	-	8	-	-	-	-	-	-	19	17	14	13	10	8	16	14	10
			E30...P.	12	10.5	8	30	25	22	20	18	16	24	22	18	23	21	18	25	23	22
	EAV-213-A18..	25/5	E22...L.	-	-	2.5	-	-	-	-	-	-	5	4	3	3.5	2	1.5	5	4	3
			E22...M.	-	-	5	-	-	-	-	-	-	12	10	8	8	7	6	12	10	9
			E22...H.	-	-	8	-	-	-	-	-	-	19	17	14	13	10	8	15	14	10
			E30...P.	-	-	8	-	-	-	-	-	-	28	25	21	20	18	15	24	22	18
	EAV-211-A20..	16/4	E22...L.	3.5	on req.	2.5	4	on req.	on req.	4	on req.	on req.	4	3	2.5	2.5	1.5	1.1	3	2.5	2
			E22...M.	5.5	5	5	15	14	13	15	14	13	11	8	7	6	5	4.5	8	7	6
			E22...H.	-	-	8	-	-	-	-	-	-	16	14	11	9	8	7	12	10	8
			E30...P.	12	10.5	8	25	23	20	17	14	11	17	14	12	17	15	14	20	18	16
	EAV-213-A20..	16/4	E22...L.	-	-	2.5	-	-	-	-	-	-	4	3	2.5	2.5	1.5	1	3	2.5	2
			E22...M.	-	-	5	-	-	-	-	-	-	11	8	7	6	5	4.5	8	7	6
			E22...H.	-	-	8	-	-	-	-	-	-	16	14	11	10	8	7	12	10	8
			E30...P.	-	-	8	-	-	-	-	-	-	18	15	13	17	15	14	20	18	16
	EAV-221-A20..	12.5/4	E22...L.	3.5	on req.	2.5	4	*	*	4	*	*	4	*	*	2.5	*	*	3	*	*
			E22...M.	5.5	5	5	12.5	*	*	12.5	*	*	11	*	*	6	*	*	8	*	*
			E22...H.	-	-	8	-	*	*	-	*	*	12.5	*	*	9	*	*	12	*	*
			E30...P.	12	10.5	8	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*
2.2	EAV-211-A22..	16/3	E22...L.	3.5	on req.	2.5	3.5	3	2.5	3.5	on req.	on req.	3	2.5	2	1.5	1	0.8	2.5	2	1
			E22...M.	5.5	5	5	14	13	12	14	13	12	4	3.5	3	3	2.5	2	3.5	3	2.5
			E22...H.	-	-	8	-	-	-	-	-	-	13	11	8	7	5	4	9	7.5	6
			E30...P.	12	10.5	8	16	14	13	16	14	13	16	13	11	13	12	11	16	14	12
	EAV-213-A22..	16/3	E22...L.	-	-	2.5	-	-	-	-	-	-	3	2.5	2	1.5	1	0.8	2	1.5	1
			E22...M.	-	-	5	-	-	-	-	-	-	4	3.5	3	3	2.5	2	3.5	3	2.5
			E22...H.	-	-	8	-	-	-	-	-	-	13	11	8	7	5.5	4	9	7	6
			E30...P.	-	-	8	-	-	-	-	-	-	16	13	11	13	12	11	16	14	12
	EAV-211-A30..	10/2	E22...L.	3.5	on req.	2.5	2	on req.	on req.	2	on req.	on req.	2	1.5	1.2	1.2	0.8	0.6	2.1	1.5	0.8
			E22...M.	5.5	5	5	8	7	6	8	7	6	3.5	3	2.8	2.5	2	1.5	3	2.5	2
			E22...H.	-	-	8	-	-	-	-	-	-	9	7	6	5	4	3	6	5	4
			E30...P.	12	10.5	8	12	9	7	11	8	7	11	9	7	9	7	6	10	9	8
	EAV-213-A30..	10/2	E22...L.	-	-	2.5	-	-	-	-	-	-	2	1.5	1.2	1.2	0.9	0.7	1.8	1.4	0.8
			E22...M.	-	-	5	-	-	-	-	-	-	3.5	3	2.8	2.5	2	1.5	3	2.5	2
			E22...H.	-	-	8	-	-	-	-	-	-	9	7	6	5	4	3	6	5	4
			E30...P.	-	-	8	-	-	-	-	-	-	11	9	7	9	7	6	10	9	8
	EAV-221-A30..	10/2	E22...L.	3.5	on req.	2.5	2	*	*	2	*	*	2	*	*	1.2	*	*	2	*	*
			E22...M.	5.5	5	5	8	*	*	8	*	*	3.5	*	*	2.5	*	*	2.5	*	*
			E22...H.	-	-	8	-	*	*	-	*	*	9	*	*	5	*	*	6	*	*
			E30...P.	12	10.5	8	12	*	*	11	*	*	11	*	*	9	*	*	10	*	*

* Solenoid valves with manual override can only be used at medium temperatures up to max. 60 °C.

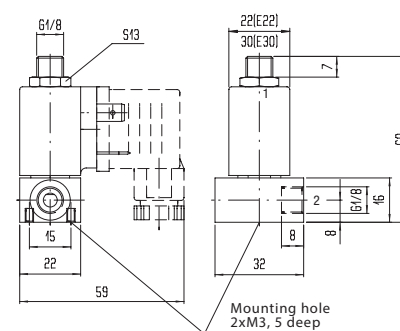
2/2-Way Solenoid Valve - Type EAV Series 200

Price group	51	"B" normally open	Permitted operating pressure table below	Brass					
Version	DN	Kv-value water [m³/h]	Qn-value air [l/min]	G	PN	Sealing material	Type	Order number	Price
without manual override for AC and DC not for L-coils	1.2	0.05	48	M5	16	NBR	EAV-211-B12-M05B-00	605401	o. r.
	1.2	0.05	48	M5	16	FKM	EAV-211-B12-M05F-00	605402	o. r.
	1.2	0.05	48	G 1/8	16	NBR	EAV-211-B12-1/8B-00	605403	o. r.
	1.2	0.05	48	G 1/8	16	FKM	EAV-211-B12-1/8F-00	605404	o. r.
	1.5	0.06	65	M5	10	NBR	EAV-211-B15-M05B-00	605407	o. r.
	1.5	0.06	65	M5	10	FKM	EAV-211-B15-M05F-00	605408	o. r.
	1.5	0.06	65	G 1/8	10	NBR	EAV-211-B15-1/8B-00	605409	o. r.
	1.5	0.06	65	G 1/8	10	FKM	EAV-211-B15-1/8F-00	605410	o. r.
	1.8	0.1	110	M5	8	NBR	EAV-211-B18-M05B-00	605413	o. r.
	1.8	0.1	110	M5	8	FKM	EAV-211-B18-M05F-00	605414	o. r.
	1.8	0.1	110	G 1/8	8	NBR	EAV-211-B18-1/8B-00	605415	o. r.
	1.8	0.1	110	G 1/8	8	FKM	EAV-211-B18-1/8F-00	605416	o. r.
without manual override for DC not for L-coils	1.2	0.05	48	M5	16	NBR	EAV-213-B12-M05B-00	605426	o. r.
	1.2	0.05	48	M5	16	FKM	EAV-213-B12-M05F-00	605427	o. r.
	1.2	0.05	48	G 1/8	16	NBR	EAV-213-B12-1/8B-00	605428	o. r.
	1.2	0.05	48	G 1/8	16	FKM	EAV-213-B12-1/8F-00	605429	o. r.
	1.5	0.06	65	M5	10	NBR	EAV-213-B15-M05B-00	605432	o. r.
	1.5	0.06	65	M5	10	FKM	EAV-213-B15-M05F-00	605433	o. r.
	1.5	0.06	65	G 1/8	10	NBR	EAV-213-B15-1/8B-00	605434	o. r.
	1.5	0.06	65	G 1/8	10	FKM	EAV-213-B15-1/8F-00	605435	o. r.
	1.8	0.1	110	M5	8	NBR	EAV-213-B18-M05B-00	605438	o. r.
	1.8	0.1	110	M5	8	FKM	EAV-213-B18-M05F-00	605439	o. r.
	1.8	0.1	110	G 1/8	8	NBR	EAV-213-B18-1/8B-00	605440	o. r.
	1.8	0.1	110	G 1/8	8	FKM	EAV-213-B18-1/8F-00	605441	o. r.

Illustration



Version with M 5 Ports



Version with G 1/8 Ports

Permitted Excess Operating Pressure OP for 2/2-Way Solenoid Valve - Type EAV Series 200

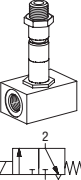
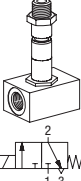
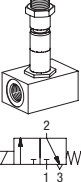
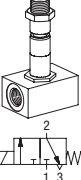
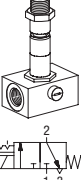
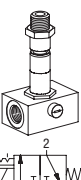
DN	Type	PN	Combinable solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C															
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 			DC 			DC 			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			100 %U _N Medium temperature			
				60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
1.2	EAV-211-B12..	16	E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	14	13	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	EAV-213-B12..	16	E22...M.	-	-	5	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
1.5	EAV-211-B15..	10	E22...M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10
			E30...P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	EAV-213-B15..	10	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	9	10	10	10	
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10
1.8	EAV-211-B18..	8	E22...M.	5.5	5	5	8	8	8	8	8	8	8	8	8	7	7	8	8	8	8	
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8
			E30...P.	12	10.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	EAV-213-B18..	8	E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	7	7	8	8	8	8	
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8
			E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8

3/2-Way Solenoid Valve - Type EAV Series 200

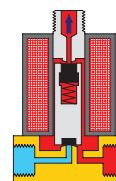
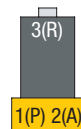
Price group **51**

“C” in 0-position “1” closed, “2” after “3” discharged

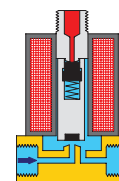
Brass

Version	DN	Kv-value Water [m³/h]	Qn-value air [l/min]	G	PN	Sealing material	Type	Order number	Price
without manual override for AC and DC not for L-coils 	1.2	1 > 2 0.05	1 > 2 50	M 5	12.5	NBR	EAV-211-C12-M05B-00	606001	o. r.
				M 5	12.5	FKM	EAV-211-C12-M05F-00	606002	o. r.
		2 > 3 0.06	2 > 3 65	G 1/8	12.5	NBR	EAV-211-C12- 1/8B-00	606003	o. r.
				G 1/8	12.5	FKM	EAV-211-C12- 1/8F-00	606004	o. r.
	1.5	1 > 2 0.06	1 > 2 68	M 5	10	NBR	EAV-211-C15-M05B-00	606007	o. r.
				M 5	10	FKM	EAV-211-C15-M05F-00	606008	o. r.
		2 > 3 0.10	2 > 3 115	G 1/8	10	NBR	EAV-211-C15-1/8B-00	606009	o. r.
				G 1/8	10	FKM	EAV-211-C15- 1/8F-00	606010	o. r.
without manual override for all AC and DC coils 	1.2	1 > 2 0.05	1 > 2 50	M 5	10	NBR	EAV-215-C12-M05B-00	606051	o. r.
				M 5	10	FKM	EAV-215-C12-M05F-00	606052	o. r.
		2 > 3 0.06	2 > 3 65	G 1/8	10	NBR	EAV-215-C12-1/8B-00	606053	o. r.
				G 1/8	10	FKM	EAV-215-C12-1/8F-00	606054	o. r.
	1.5	1 > 2 0.06	1 > 2 68	M 5	8	NBR	EAV-215-C15-M05B-00	606057	o. r.
				M 5	8	FKM	EAV-215-C15-M05F-00	606058	o. r.
		2 > 3 0.10	2 > 3 115	G 1/8	8	NBR	EAV-215-C15-1/8B-00	606059	o. r.
				G 1/8	8	FKM	EAV-215-C15-1/8F-00	606060	o. r.
without manual override for DC not for L-coils 	1.2	1 > 2 0.05	1 > 2 50	M 5	12.5	NBR	EAV-213-C12-M05B-00	606026	o. r.
				M 5	12.5	FKM	EAV-213-C12-M05F-00	606027	o. r.
		2 > 3 0.06	2 > 3 65	G 1/8	12.5	NBR	EAV-213-C12-1/8B-00	606028	o. r.
				G 1/8	12.5	FKM	EAV-213-C12-1/8F-00	606029	o. r.
	1.5	1 > 2 0.06	1 > 2 68	M 5	10	NBR	EAV-213-C15-M05B-00	606032	o. r.
				M 5	10	FKM	EAV-213-C15-M05F-00	606033	o. r.
		2 > 3 0.10	2 > 3 115	G 1/8	10	NBR	EAV-213-C15-1/8B-00	606034	o. r.
				G 1/8	10	FKM	EAV-213-C15-1/8F-00	606035	o. r.
without manual override for all DC coils 	1.2	1 > 2 0.05	1 > 2 50	M 5	10	NBR	EAV-217-C12-M05B-00	606076	o. r.
				M 5	10	FKM	EAV-217-C12-M05F-00	606077	o. r.
		2 > 3 0.06	2 > 3 65	G 1/8	10	NBR	EAV-217-C12- 1/8B-00	606078	o. r.
				G 1/8	10	FKM	EAV-217-C12- 1/8F-00	606079	o. r.
	1.5	1 > 2 0.06	1 > 2 68	M 5	10	NBR	EAV-217-C15-M05B-00	606082	o. r.
				M 5	8	FKM	EAV-217-C15-M05F-00	606083	o. r.
		2 > 3 0.10	2 > 3 115	G 1/8	8	NBR	EAV-217-C15-1/8B-00	606084	o. r.
				G 1/8	8	FKM	EAV-217-C15-1/8F-00	606085	o. r.
with manual override for AC and DC not for L-coils 	1.2	1 > 2 0.05	1 > 2 50	M 5	12.5	NBR	EAV-221-C12-M05B-00	606151	o. r.
				M 5	12.5	FKM	EAV-221-C12-M05F-00	606152	o. r.
		2 > 3 0.06	2 > 3 65	G 1/8	12.5	NBR	EAV-221-C12-1/8B-00	606153	o. r.
				G 1/8	12.5	FKM	EAV-221-C12-1/8F-00	606154	o. r.
	1.5	1 > 2 0.06	1 > 2 68	M 5	10	NBR	EAV-221-C15-M05B-00	606157	o. r.
				M 5	10	FKM	EAV-221-C15-M05F-00	606158	o. r.
		2 > 3 0.10	2 > 3 115	G 1/8	10	NBR	EAV-221-C15-1/8B-00	606159	o. r.
				G 1/8	10	FKM	EAV-221-C15-1/8F-00	606160	o. r.
with manual override for all AC and DC coils 	1.2	1 > 2 0.05	1 > 2 50	M 5	10	NBR	EAV-225-C12-M05B-00	606201	o. r.
				M 5	10	FKM	EAV-225-C12-M05F-00	606202	o. r.
		2 > 3 0.06	2 > 3 65	G 1/8	10	NBR	EAV-225-C12-1/8B-00	606203	o. r.
				G 1/8	10	FKM	EAV-225-C12-1/8F-00	606204	o. r.
	1.5	1 > 2 0.06	1 > 2 68	M 5	8	NBR	EAV-225-C15-M05B-00	606207	o. r.
				M 5	8	FKM	EAV-225-C15-M05F-00	606208	o. r.
		2 > 3 0.10	2 > 3 115	G 1/8	8	NBR	EAV-225-C15-1/8B-00	606209	o. r.
				G 1/8	8	FKM	EAV-225-C15-1/8F-00	606210	o. r.

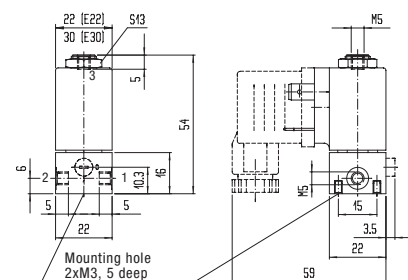
Illustration



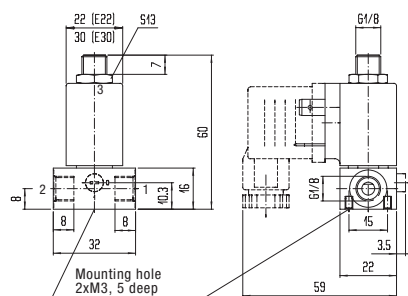
Normal position



Operational position



Version with M5 Ports



Version with G 1/8 Ports

Permitted Operating Pressure for 3/2-Way Solenoid Valve - Type EAV Series 200

"C" in 0-position "1" closed, "2" after "3" discharged

DN	Type	PN	Combinable solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C														
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-211-C12..	12.5	E22...M.	5.5	5	5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E22...H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30...P.	12	10.5	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	E22...M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
	E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10		
	E30...P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
	E22...H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5		
	E30...P.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5		
	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10		
	E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10		
	E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10		
	E22...H.	-	-	8	-	-	-	-	-	-	12.5	*	*	12.5	*	*	12.5	*	*		
	E30...P.	12	10.5	8	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*		
	E22...M.	5.5	5	5	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*		
	E22...H.	-	-	8	-	-	-	-	-	-	10	*	*	10	*	*	10	*	*		
	E30...P.	12	10.5	8	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*		
	E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10		
	E30...P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
	E22...M.	5.5	5	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
	E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8		
	E30...P.	12	10.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10		
E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10				
E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8			
E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8			
E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8			
E22...H.	-	-	8	-	-	-	-	-	-	10	*	*	10	*	*	10	*	*			
E30...P.	12	10.5	8	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*			
E22...M.	5.5	5	5	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*			
E22...H.	-	-	8	-	*	*	-	*	*	8	*	*	8	*	*	8	*	*			
E30...P.	12	10.5	8	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*			
E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8			
E30...P.	12	10.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8			
E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8			
E22...H.	-	-	8	-	*	*	-	*	*	8	*	*	8	*	*	8	*	*			
E30...P.	12	10.5	8	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*			

* Solenoid valves with manual override can only be used at medium temperatures up to max. 60 °C. ** Minimum pressure of 2 bar required

3/2-Way Solenoid Valve Type EAV Series 200

Price group **51**

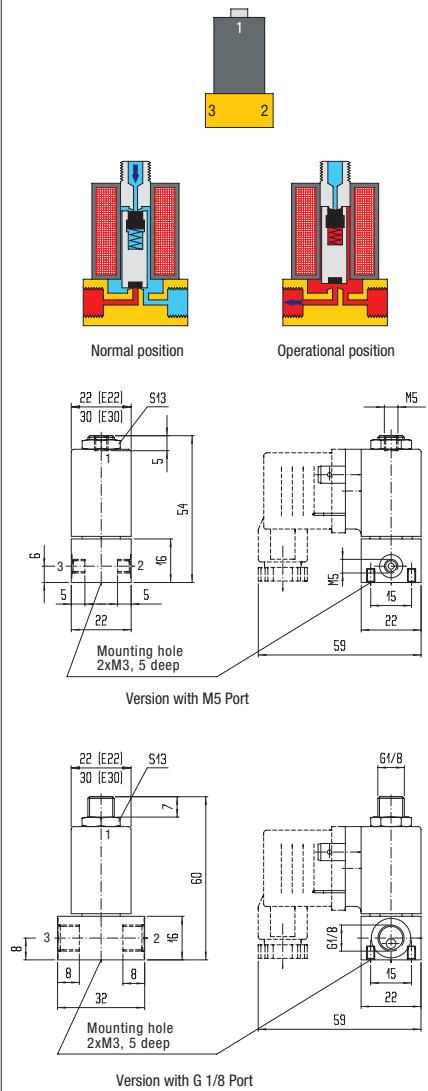
Switching mode "D" in 0 position
"1" to "2" open, "3" closed

Permitted operating
pressure Table below

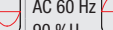
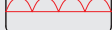
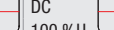
Brass

Version	DN	Kv-value water [m³/h]	Q _{Nn} -value air [l/min]	G	PN	Sealing material	Type	Order number	Price
without manual override for AC and DC not for L-coils	1.2	1 > 2 0.05 2 > 3 0.06	1 > 2 48 2 > 3 68	M5	16	NBR	EAV-211-D12-M05B-00	606301	o. r.
				M5	16	FKM	EAV-211-D12-M05F-00	606302	o. r.
				G 1/8	16	NBR	EAV-211-D12-1/8B-00	606303	o. r.
				G 1/8	16	FKM	EAV-211-D12-1/8F-00	606304	o. r.
	1.5	1 > 2 0.06 2 > 3 0.11	1 > 2 68 2 > 3 125	M5	10	NBR	EAV-211-D15-M05B-00	606307	o. r.
				M5	10	FKM	EAV-211-D15-M05F-00	606308	o. r.
				G 1/8	10	NBR	EAV-211-D15-1/8B-00	606309	o. r.
				G 1/8	10	FKM	EAV-211-D15-1/8F-00	606310	o. r.
	1.8	1 > 2 0.10 2 > 3 0.11	1 > 2 115 2 > 3 125	M5	8	NBR	EAV-211-D18-M05B-00	606313	o. r.
				M5	8	FKM	EAV-211-D18-M05F-00	606314	o. r.
				G 1/8	8	NBR	EAV-211-D18-1/8B-00	606315	o. r.
				G 1/8	8	FKM	EAV-211-D18-1/8F-00	606316	o. r.
without manual override for DC not for L-coils	1.2	1 > 2 0.05 2 > 3 0.06	1 > 2 48 2 > 3 68	M5	16	NBR	EAV-213-D12-M05B-00	606326	o. r.
				M5	16	FKM	EAV-213-D12-M05F-00	606327	o. r.
				G 1/8	16	NBR	EAV-213-D12-1/8B-00	606328	o. r.
				G 1/8	16	FKM	EAV-213-D12-1/8F-00	606329	o. r.
	1.5	1 > 2 0.06 2 > 3 0.11	1 > 2 68 2 > 3 125	M5	10	NBR	EAV-213-D15-M05B-00	606332	o. r.
				M5	10	FKM	EAV-213-D15-M05F-00	606333	o. r.
				G 1/8	10	NBR	EAV-213-D15-1/8B-00	606334	o. r.
				G 1/8	10	FKM	EAV-213-D15-1/8F-00	606335	o. r.
	1.8	1 > 2 0.10 2 > 3 0.11	1 > 2 115 2 > 3 125	M5	8	NBR	EAV-213-D18-M05B-00	606338	o. r.
				M5	8	FKM	EAV-213-D18-M05F-00	606339	o. r.
				G 1/8	8	NBR	EAV-213-D18-1/8B-00	606340	o. r.
				G 1/8	8	FKM	EAV-213-D18-1/8F-00	606341	o. r.

Illustration



Permitted Excess Operating Pressure OP for 3/2-Way Solenoid Valve - Type EAV Series 200

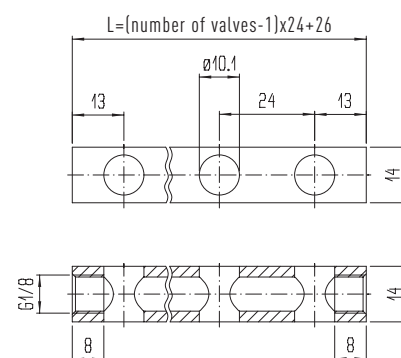
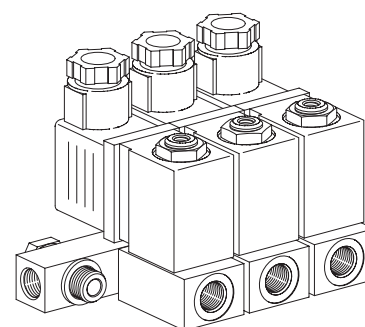
DN	Type	PN	Combinable solenoid coils			Permitted excess operating pressure OP [bar] at ambient temperature +60 °C															
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 			DC 			DC 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			90 %U _N Medium temperature			100 %U _N Medium temperature		
							60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
1.2	EAV-211-D12..	16	E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	14	13	16	16	16
			E22...H.	-	-	8	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	EAV-213-D12..	16	E22...M.	-	-	5	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30...P.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
1.5	EAV-211-D15..	10	E22...M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	9	10	10	10	
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	EAV-213-D15..	10	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	9	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
1.8	EAV-211-D18..	8	E22...M.	5.5	5	5	8	8	8	8	8	8	8	8	7	7	8	8	8	8	
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	12	10.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	EAV-213-D18..	8	E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	7	7	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8

Power Bar Type ZAV Series 100 to Solenoid Valve EAV Series 200

Price
group

51
Brass

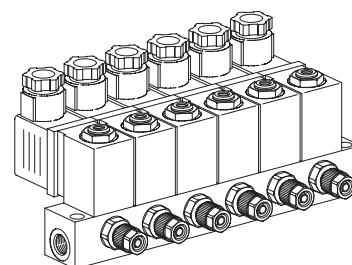
Manifold version	G	Type	order number	Price
2-fold	G 1/8	ZAV-100/02-1/8	500192	o. r.
3-fold	G 1/8	ZAV-100/03-1/8	500193	o. r.
4-fold	G 1/8	ZAV-100/04-1/8	500194	o. r.
5-fold	G 1/8	ZAV-100/05-1/8	500195	o. r.
6-fold	G 1/8	ZAV-100/06-1/8	500196	o. r.
7-fold	G 1/8	ZAV-100/07-1/8	500197	o. r.
8-fold	G 1/8	ZAV-100/08-1/8	500198	o. r.
9-fold	G 1/8	ZAV-100/09-1/8	500199	o. r.
10-fold	G 1/8	ZAV-100/10-1/8	500200	o. r.
11-fold	G 1/8	ZAV-100/11-1/8	500201	o. r.
12-fold	G 1/8	ZAV-100/12-1/8	500202	o. r.
single banjo bolt, short	G 1/8	163M-11-1/8N	304026	o. r.
Plug	G 1/8	261M-1/8	251403	o. r.
Plastic sealing ring		266N-1/8x1.5	252921	o. r.

Illustration

Example


Solenoid valve batterv EAV

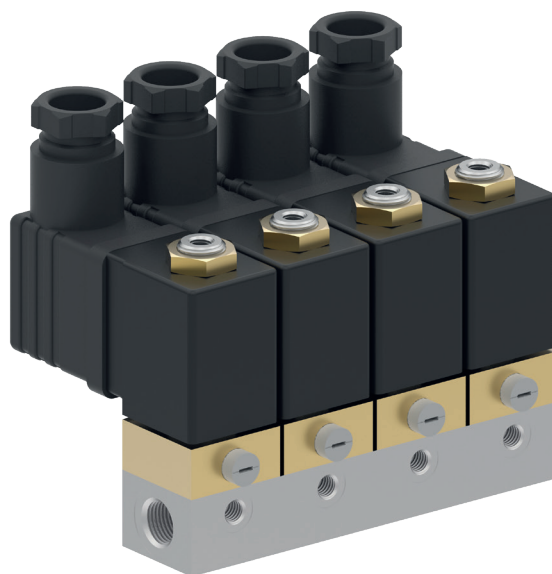
Special Solenoid Valves

AVS-Römer also manufactures special versions according to customer requirements, e.g. multiple solenoid valves

Illustration




3/2-Way Flange-Solenoid Valves Type EAV Series 300



FEATURES

GENERAL

Constructional design	Seat valve, rubber seals
Product name	3/2-way flange solenoid valve
Actuation	electrical, direct-acting
Product type	EAV-3...-C..
Function	"C" in 0 position "1" closed, "2" after "3" discharged (closing against flow)
Nominal diameter	DN 1.2 to DN 1.8
Connections	Flange according to factory standard
Ambient temperature	-20 °C to +60 °C (others on request)
Medium temperature	for NBR: -10 °C to +90 °C for FKM: -10 °C to +130 °C (for restrictions see table)
Medium viscosity	up to approx. 20 mm ² /s
Valve body material	Brass
Manual material	PPE (Polyphenylene ether)
Seat nozzle material	Stainless steel
Other internal components material	Stainless steel and non-ferrous metal. DC version with FKM seal non-ferrous metal-free
Sealing material	NBR (nitrile rubber) or FKM (fluoride rubber) (others on request)
Mounting method	by 2 through bores in the valve body
Mounting position	optional, preferably upright

PNEUMATIC - HYDRAULIC

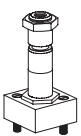
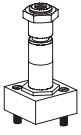
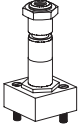
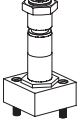
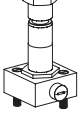
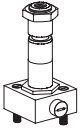
Nominal pressure	according to type table. The numerical value of the nominal pressure PN signifies the permitted excess operating pressure PB in bar at 60 °C ambient temperature and 60 °C medium temperature.
Pressure range	technical vacuum up to permitted operating pressure PB. For exceptions which refer to minimum permitted operating pressure see table.
Flow rate	Kv-value and QNn-value according to type table
Medium	gaseous or liquid media sealing material NBR: e.g. compressed air, water, hydraulic fluids, neutral gases sealing material FKM: e.g. solvents, hot water, hot air
Response time	Opening time: 7 - 20 ms, closing time: 12 - 20 ms
Electric	see under solenoid coils

3/2-Way Solenoid Valve - Type EAV Series 300

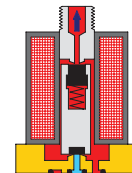
Price group **51**

“C” in 0-position “1” closed,
“2” after “3” discharged

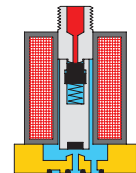
Brass

Version	DN	Kv-value water [m³/h]	Q _N -value air [l/min]	PN	Sealing material	Type	Order number	Price
 without manual override for AC and DC not for L-coil	1.2	1 > 2 0.05	1 > 2 50	12.5	NBR	EAV-311-C12-FL1B-00	609201	o. r.
		2 > 3 0.06	2 > 3 65	12.5	FKM	EAV-311-C12-FL1F-00	609202	o. r.
	1.5	1 > 2 0.06	1 > 2 68	10	NBR	EAV-311-C15-FL1B-00	609203	o. r.
		2 > 3 0.10	2 > 3 115	10	FKM	EAV-311-C15-FL1F-00	609204	o. r.
	1.8	1 > 2 0.11	1 > 2 120	8	NBR	EAV-311-C18-FL1B-00	609205	o. r.
		2 > 3 0.10	2 > 3 115	8	FKM	EAV-311-C18-FL1F-00	609206	o. r.
 without manual override for all AC and DC coils	1.2	1 > 2 0.05	1 > 2 50	10	NBR	EAV-315-C12-FL1B-00	609217	o. r.
		2 > 3 0.05	2 > 3 50	10	FKM	EAV-315-C12-FL1F-00	609218	o. r.
	1.5	1 > 2 0.06	1 > 2 68	8	NBR	EAV-315-C15-FL1B-00	609219	o. r.
		2 > 3 0.06	2 > 3 68	8	FKM	EAV-315-C15-FL1F-00	609220	o. r.
 without manual override for DC not for L-coil	1.2	1 > 2 0.05	1 > 2 50	12.5	NBR	EAV-313-C12-FL1B-00	609209	o. r.
		2 > 3 0.06	2 > 3 65	12.5	FKM	EAV-313-C12-FL1F-00	609210	o. r.
	1.5	1 > 2 0.06	1 > 2 68	10	NBR	EAV-313-C15-FL1B-00	609211	o. r.
		2 > 3 0.10	2 > 3 115	10	FKM	EAV-313-C15-FL1F-00	609212	o. r.
	1.8	1 > 2 0.11	1 > 2 120	8	NBR	EAV-313-C18-FL1B-00	609213	o. r.
		2 > 3 0.10	2 > 3 115	8	FKM	EAV-313-C18-FL1F-00	609214	o. r.
 without manual override for all DC coils	1.2	1 > 2 0.05	1 > 2 50	10	NBR	EAV-317-C12-FL1B-00	609225	o. r.
		2 > 3 0.05	2 > 3 50	10	FKM	EAV-317-C12-FL1F-00	609226	o. r.
	1.5	1 > 2 0.06	1 > 2 68	8	NBR	EAV-317-C15-FL1B-00	609227	o. r.
		2 > 3 0.06	2 > 3 68	8	FKM	EAV-317-C15-FL1F-00	609228	o. r.
 with manual override for AC and DC not for L-coil	1.2	1 > 2 0.05	1 > 2 50	12.5	NBR	EAV-321-C12-FL1B-00	609251	o. r.
		2 > 3 0.06	2 > 3 65	12.5	FKM	EAV-321-C12-FL1F-00	609252	o. r.
	1.5	1 > 2 0.06	1 > 2 68	10	NBR	EAV-321-C15-FL1B-00	609253	o. r.
		2 > 3 0.10	2 > 3 115	10	FKM	EAV-321-C15-FL1F-00	609254	o. r.
	1.8	1 > 2 0.11	1 > 2 120	8	NBR	EAV-321-C18-FL1B-00	609255	o. r.
		2 > 3 0.10	2 > 3 115	8	FKM	EAV-321-C18-FL1F-00	609256	o. r.
 with manual override for all AC and DC coils	1.2	1 > 2 0.05	1 > 2 50	10	NBR	EAV-325-C12-FL1B-00	609267	o. r.
		2 > 3 0.05	2 > 3 50	10	FKM	EAV-325-C12-FL1F-00	609268	o. r.
	1.5	1 > 2 0.06	1 > 2 68	8	NBR	EAV-325-C15-FL1B-00	609269	o. r.
		2 > 3 0.06	2 > 3 68	8	FKM	EAV-325-C15-FL1F-00	609270	o. r.

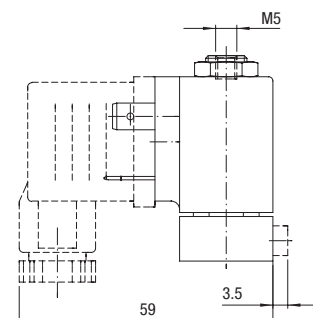
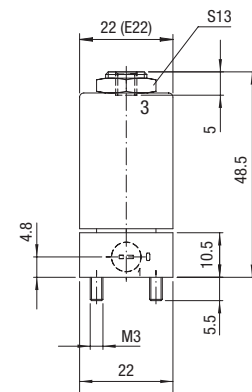
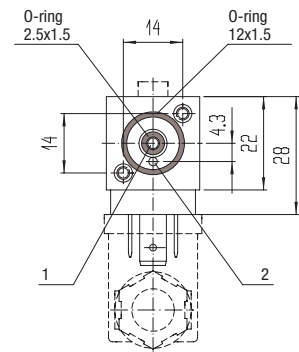
Illustration



Normal position

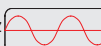


Operational position



Permitted Operating Pressure for 3/2-way Flange Solenoid Valve - Type EAV Series 300

“C” in 0-position “1” closed,
“2” after “3” discharged

DN	Type	PN	Combined solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C														
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60°C	90°C	130°C	60°C	90°C	130°C	60°C	90°C	130°C	60°C	90°C	130°C	60°C	90°C	130°C
1.2	EAV-311-C12..	12.5	E22...M.	5.5	5	5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E22...H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30...P.	12	10.5	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	EAV-315-C12..	10	E22...L.	3.5	on req.	2.5	10	-	-	10	-	-	10	10**	10**	10**	10**	10**	10	10**	10**
			E22...M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	EAV-313-C12..	12.5	E22...M.	-	-	5	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E22...H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30...P.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	EAV-317-C12..	10	E22...L.	-	-	2.5	-	-	-	-	-	-	10	10**	10**	10**	10**	10**	10	10**	10**
			E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
	EAV-321-C12..	12.5	E22...M.	5.5	5	5	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*
E22...H.			-	-	8	-	-	-	-	-	-	12.5	*	*	12.5	*	*	12.5	*	*	
E30...P.			12	10.5	8	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*	12.5	*	*	
EAV-325-C12..	10	E22...L.	3.5	on req.	2.5	10	-	-	10	-	-	10	*	*	10**	*	*	10	*	*	
		E22...M.	5.5	5	5	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*	
		E22...H.	-	-	8	-	-	-	-	-	-	10	*	*	10	*	*	10	*	*	
		E30...P.	12	10.5	8	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*	
1.5	EAV-311-C15..	10	E22...M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	EAV-315-C15..	8	E22...L.	3.5	on req.	2.5	8	8	-	-	-	-	8	8	8**	8	8**	8**	8	8**	8**
			E22...M.	5.5	5	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	12	10.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	EAV-313-C15..	10	E22...M.	-	-	5	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
	EAV-317-C15..	8	E22...L.	-	-	2.5	-	-	-	-	-	-	8	8**	8**	8**	8**	8**	8	8**	8**
			E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
	EAV-321-C15..	10	E22...M.	5.5	5	5	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*
E22...H.			-	-	8	-	-	-	-	-	-	10	*	*	10	*	*	10	*	*	
E30...P.			12	10.5	8	10	*	*	10	*	*	10	*	*	10	*	*	10	*	*	
EAV-325-C15..	8	E22...L.	3.5	on req.	2.5	8	*	*	-	-	-	8	*	*	8	*	*	8	*	*	
		E22...M.	5.5	5	5	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*	
		E22...H.	-	-	8	-	-	-	-	-	-	8	*	*	8	*	*	8	*	*	
		E30...P.	12	10.5	8	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*	
1.8	EAV-311-C18..	8	E22...M.	5.5	5	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	12	10.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	EAV-313-C18..	8	E22...M.	-	-	5	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E22...H.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
			E30...P.	-	-	8	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8
	EAV-321-C18..	8	E22...M.	5.5	5	5	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*
			E22...H.	-	-	8	-	-	-	-	-	-	8	*	*	8	*	*	8	*	*
			E30...P.	12	10.5	8	8	*	*	8	*	*	8	*	*	8	*	*	8	*	*

* Solenoid valves with manual override can only be used at medium temperatures up to max. 60 °C. ** Minimum pressure of 2 bar required

3/2-Way Solenoid Valve Battery - Type EAV Series 300

Price group	51	"C" in 0 position "1" closed, "2" after "3" discharge
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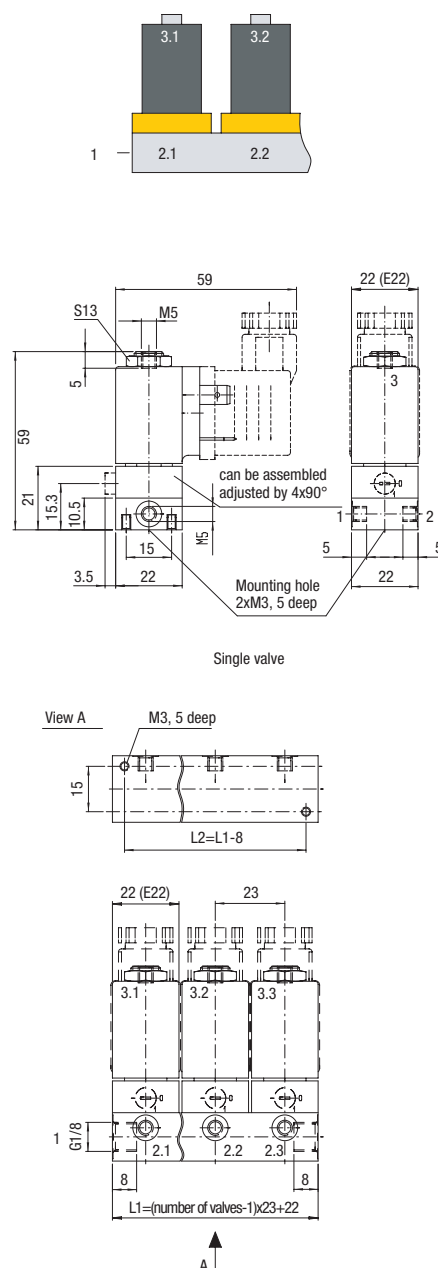
Brass

Material single manifold: Ms, multiple manifold: aluminium alloy, sealing material: NBR, solenoid valves: see type EAV series 300

Kv-value water [m³/h], QNn-value air [l/min]
see type EAV series 300

	Version	PN	Type	Order number	Price
	without manual override for AC and DC not for L-coil	10	EAV-311/01-C15-M05B	609601	0. r.
	without manual override for all AC and DC coils	8	EAV-315/01-C15-M05B	609625	0. r.
	without manual override for DC not for L-coil	10	EAV-313/01-C15-M05B	609613	0. r.
	without manual override for all DC coils	8	EAV-317/01-C15-M05B	609637	0. r.
	without manual override, for E22, AC and DC not for L-coil	10	EAV-311/02-C15-M05B	609602	0. r.
	without manual override, for all E22, AC and DC coils	8	EAV-315/02-C15-M05B	609626	0. r.
	without manual override, for all E22, DC not for L-coil	10	EAV-313/02-C15-M05B	609614	0. r.
	without manual override, for all E22, DC coils	8	EAV-317/02-C15-M05B	609638	0. r.
	without manual override, for E22, AC and DC not for L-coil	10	EAV-311/03-C15-M05B	609603	0. r.
	without manual override, for all E22, AC and DC coils	8	EAV-315/03-C15-M05B	609627	0. r.
	without manual override, for all E22, DC not for L-coil	10	EAV-313/03-C15-M05B	609615	0. r.
	without manual override, for all E22, DC coils	8	EAV-317/03-C15-M05B	609639	0. r.
	without manual override, for E22, AC and DC not for L-coil	10	EAV-311/04-C15-M05B	609604	0. r.
	without manual override, for all E22, AC and DC coils	8	EAV-315/04-C15-M05B	609628	0. r.
	without manual override, for all E22, DC not for L-coil	10	EAV-313/04-C15-M05B	609616	0. r.
	without manual override, for all E22, DC coils	8	EAV-317/04-C15-M05B	609640	0. r.
	without manual override, for E22, AC and DC not for L-coil	10	EAV-311/05-C15-M05B	609605	0. r.
	without manual override, for all E22, AC and DC coils	8	EAV-315/05-C15-M05B	609629	0. r.
	without manual override, for all E22, DC not for L-coil	10	EAV-313/05-C15-M05B	609617	0. r.
	without manual override, for all E22, DC coils	8	EAV-317/05-C15-M05B	609641	0. r.
	without manual override, for E22, AC and DC not for L-coil	10	EAV-311/06-C15-M05B	609606	0. r.
	without manual override, for all E22, AC and DC coils	8	EAV-315/06-C15-M05B	609630	0. r.
	without manual override, for all E22, DC not for L-coil	10	EAV-313/06-C15-M05B	609618	0. r.
	without manual override, for all E22, DC coils	8	EAV-317/06-C15-M05B	609642	0. r.
	with manual override for AC and DC not for L-coil	10	EAV-321/01-C15-M05B	609651	0. r.
	with manual override for all AC and DC coils	8	EAV-325/01-C15-M05B	609675	0. r.
	with manual override, for E22, AC and DC not for L-coil	10	EAV-321/02-C15-M05B	609652	0. r.
	with manual override, for all E22, AC and DC coils	8	EAV-325/02-C15-M05B	609676	0. r.
	with manual override, for E22, AC and DC not for L-coil	10	EAV-321/03-C15-M05B	609653	0. r.
	with manual override, for all E22, AC and DC coils	8	EAV-325/03-C15-M05B	609677	0. r.
	with manual override, for E22, AC and DC not for L-coil	10	EAV-321/04-C15-M05B	609654	0. r.
	with manual override, for all E22, AC and DC coils	8	EAV-325/04-C15-M05B	609678	0. r.
	with manual override, for E22, AC and DC not for L-coil	10	EAV-321/05-C15-M05B	609655	0. r.
	with manual override, for all E22, AC and DC coils	8	EAV-325/05-C15-M05B	609679	0. r.
	with manual override, for E22, AC and DC not for L-coil	10	EAV-321/06-C15-M05B	609656	0. r.
	with manual override, for all E22, AC and DC coils	8	EAV-325/06-C15-M05B	609680	0. r.

Illustration



2-fold valve to 6-fold valve

Permitted Operating Pressure for 3/2-Way Solenoid Valve Battery - Type EAV Series 300

"C" in 0 position "1" closed,
"2" after "3" discharge

DN	Type	PN	Combined solenoid coils				Permitted operating pressure [bar] at ambient temperature +60 °C									
			Type	Nominal power P ₂₀			AC 50 Hz 		AC 60 Hz 		DC 		DC 		DC 	
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature		90 %U _N Medium temperature		90 %U _N Medium temperature		90 %U _N Medium temperature		100 %U _N Medium temperature	
							60°C	90°C	60°C	90°C	60°C	90°C	60°C	90°C	60°C	90°C
1.5	EAV-311/...-C15..	10	E22...M.	5.5	5	5	10	-	10	-	10	-	10	-	10	-
			E22...H.	-	-	8	-	-	-	-	10	-	10	-	10	-
	EAV-315/...-C15..	8	E22...L.	3.5	on req.	2.5	8	-	8	-	8	8**	8	8**	8	8**
			E22...M.	5.5	5	5	8	8	8	8	8	-	8	-	-	-
			E22...H.	-	-	8	-	-	-	-	8	-	8	-	8	-
	EAV-313/...-C15..	10	E22...M.	-	-	5	-	-	-	-	10	-	10	-	10	-
			E22...H.	-	-	8	-	-	-	-	10	-	10	-	10	-
	EAV-317/...-C15..	8	E22...L.	-	-	2.5	-	-	-	-	8	8**	8	8**	8	8**
			E22...M.	-	-	5	-	-	-	-	8	-	8	-	8	-
			E22...H.	-	-	8	-	-	-	-	8	-	8	-	8	-
				E22...M.	5.5	5	5	10	-	10	-	10	-	10	-	10
	EAV-321/...-C15..	10	E22...H.	-	-	8	-	-	-	-	10	-	10	-	10	-
			E22...L.	3.5	on req.	2.5	8	*	8	*	8	*	8**	*	8**	*
EAV-325/...-C15..	8	E22...M.	5.5	5	5	8	-	8	*	8	-	8	-	8	-	
		E22...H.	-	-	8	-	-	-	-	8	-	8	-	8	-	

* Solenoid valves with manual override can only be used at medium temperatures up to max. 60 °C.

** Minimum pressure of 2 bar required

Collector Manifold for Solenoid Valve - Type EAV Type ZAV Series 300

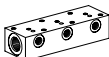
Price group **51**

Alu blank

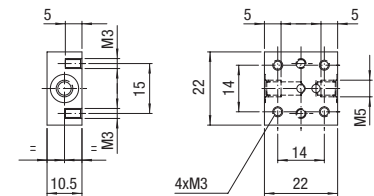
Solenoid valves type EAV series 300 can be assembled on the single and collector manifold. Single manifold made of Ms, multiple manifold made of aluminium alloy.

The collector manifold can however only be equipped with solenoid coils type E22. The permitted highest medium temperature is generally limited as follows:

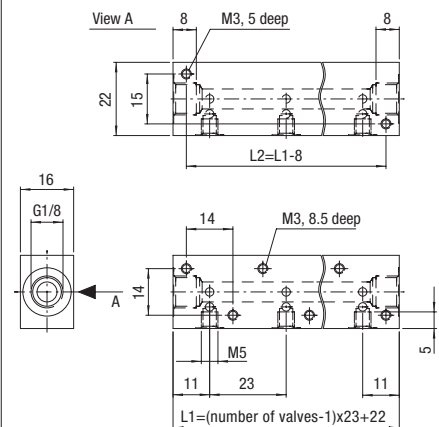
solenoid coils E22-...L. 90 °C
solenoid coils E22-...M. and E22-...H. 60 °C

Manifold	G	Type	Order number	Price
 single manifold	M 5	ZAV-310-M05U	500269	a. A.
 collector manifold 2-fold	pressure inlet "P": G 1/8 Outlet "A": M5	ZAV-310/02-M05A	500302	a. A.
 collector manifold 3-fold	pressure inlet "P": G 1/8 Outlet "A": M5	ZAV-310/03-M05A	500303	a. A.
 collector manifold 4-fold	pressure inlet "P": G 1/8 Outlet "A": M5	ZAV-310/04-M05A	500304	a. A.
 collector manifold 5-fold	pressure inlet "P": G 1/8 Outlet "A": M5	ZAV-310/05-M05A	500305	a. A.
 collector manifold 6-fold	pressure inlet "P": G 1/8 Outlet "A": M5	ZAV-310/06-M05A	500306	a. A.

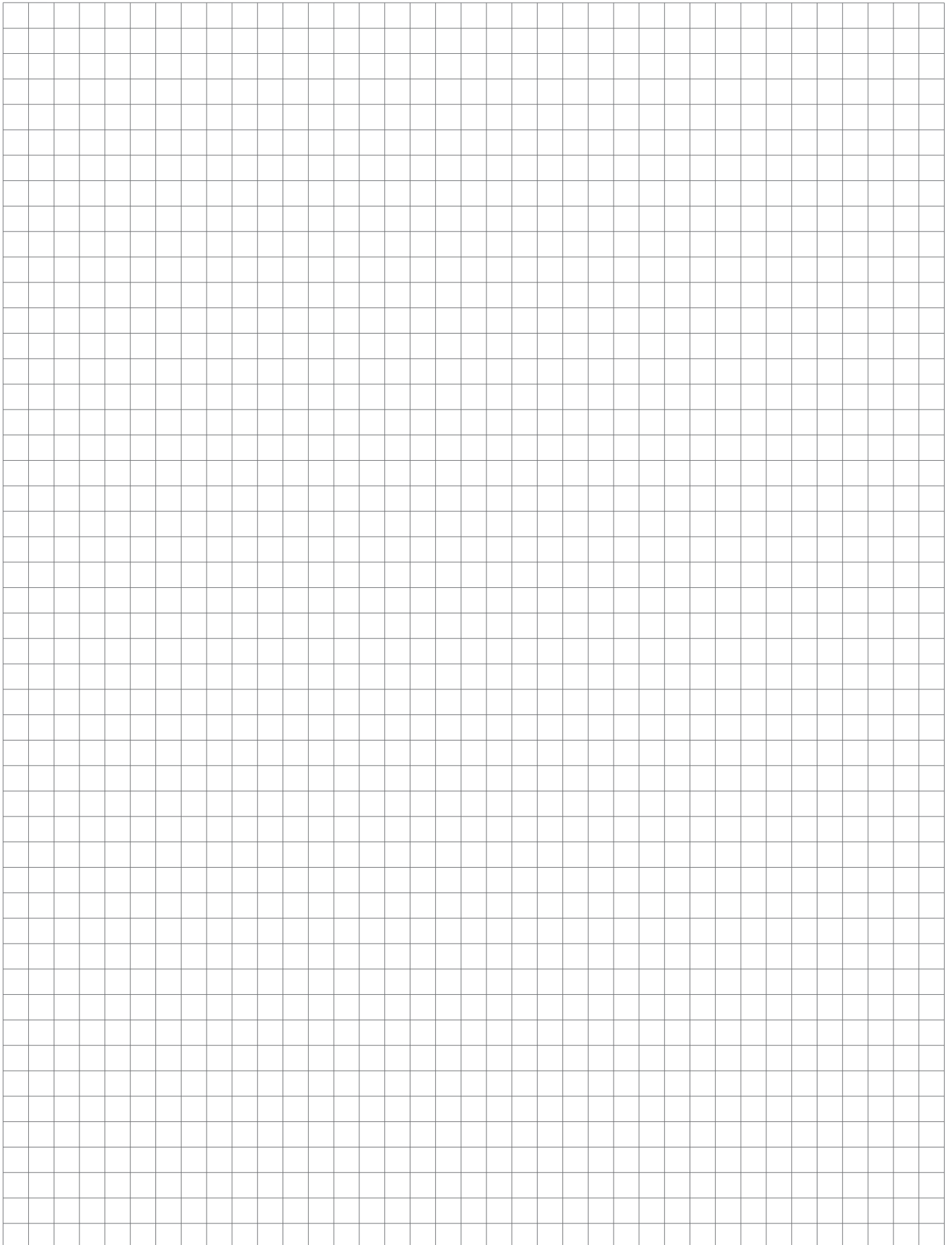
Illustration



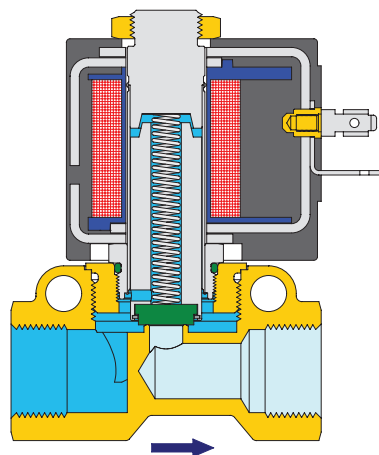
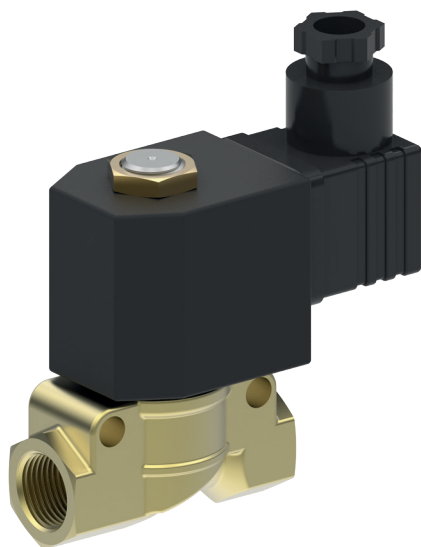
Single plate



Collector plate



2/2-Way Solenoid Valves Type EBV Series 100



Direct-acting DC solenoid valve with traditional constructional design, however with significantly improved magnetic circuit.

CHARACTERISTICS

GENERAL

Constructional design	Seat valve, elastomer seals	
Product name	2/2-way solenoid valve	
Actuation	electric, direct-acting,	
Product type	EBV-1.3-A..	EBV-153-A..
Function	"A" normally closed (closing with flow)	
Nominal diameter	DN 3, DN 4 or DN 6	
Port size	G 1/4	G 3/8
Ambient temperature	-20 °C to +60 °C (others on request)	
Medium temperature	for NBR: -10 °C to +90 °C for FKM -10 °C to +130 °C (others on request)	
Medium viscosity	up to approx. 20 mm²/s	
Valve body material	Brass	
Other internal component material	Stainless steel	
Seal material	NBR (Perbunan) or FKM (fluoride rubber)	
Solenoid housing material	plastic-moulded	
Mounting method	2 M3 tapped holes in valve body or using rigid pipework	2 mounting holes in valve body or using rigid pipework
Mounting position	optional, preferably upright	

PNEUMATIC - HYDRAULIC

Nominal pressure	up to PN 16
Pressure range	technical vacuum up to excess pressure corresponding to PN
Flow rate	Kv-value and QNn-value according to type table
Medium	gaseous or liquid media sealing material NBR: e.g. compressed air, water, hydraulic fluids, neutral gases sealing material FKM: e.g. solvents, hot water, hot air
Response time	Opening time: approx. 40 ms, closing time: approx. 60 ms

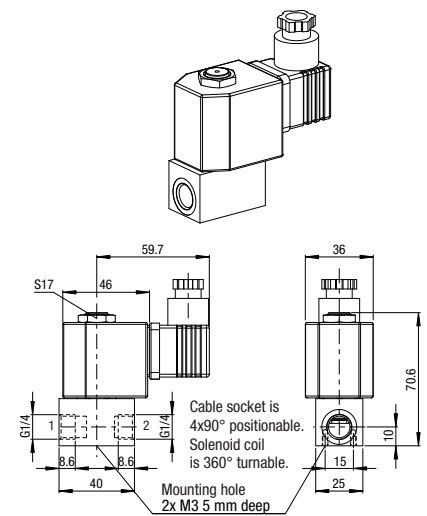
ELECTRIC

Nominal voltage	12 or 24 V DC (other DC on request)
Voltage tolerance	±10 %
Nominal power P ₂₀	16 W
Duty cycle	100 %
Protection class	IP 65 (wiring box properly assembled)

2/2-Way Solenoid Valve - Direct-acting - Type EBV Series 100

Price group	55	Port size G 1/4	Function "A" normally closed				Brass			
Version	DN	Kv-value water [m³/h]	Q _{Nn} - value air [l/min]	G	PN	Sealing material	Voltage / current	Type	Order number	Price
Solenoid valve with Solenoid coil E36 including cable socket ESG-182 Pg 9	3	0.28	285	G 1/4	16	NBR	12 V DC	EBV-113-A30-1/4B-012/=-S9	627303	o. r.
	3	0.28	285	G 1/4	16	FKM	12 V DC	EBV-113-A30-1/4F-012/=-S9	627304	o. r.
	4	0.5	520	G 1/4	10	NBR	12 V DC	EBV-113-A40-1/4B-012/=-S9	627305	o. r.
	4	0.5	520	G 1/4	10	FKM	12 V DC	EBV-113-A40-1/4F-012/=-S9	627306	o. r.
	6	0.8	850	G 1/4	5	NBR	12 V DC	EBV-113-A60-1/4B-012/=-S9	627307	o. r.
	6	0.8	850	G 1/4	5	FKM	12 V DC	EBV-113-A60-1/4F-012/=-S9	627308	o. r.
	3	0.28	285	G 1/4	16	NBR	24 V DC	EBV-113-A30-1/4B-024/=-S9	627313	o. r.
	3	0.28	285	G 1/4	16	FKM	24 V DC	EBV-113-A30-1/4F-024/=-S9	627314	o. r.
	4	0.5	520	G 1/4	10	NBR	24 V DC	EBV-113-A40-1/4B-024/=-S9	627315	o. r.
	4	0.5	520	G 1/4	10	FKM	24 V DC	EBV-113-A40-1/4F-024/=-S9	627316	o. r.
	6	0.8	850	G 1/4	5	NBR	24 V DC	EBV-113-A60-1/4B-024/=-S9	627317	o. r.
	6	0.8	850	G 1/4	5	FKM	24 V DC	EBV-113-A60-1/4F-024/=-S9	627318	o. r.

Illustration



2/2-Way Solenoid Valve - Direct-acting - Type EBV Series 100

Price group	55	Port size G 3/8	Function "A" normally closed				Brass			
Version	DN	Kv-value water [m³/h]	Q _{Nn} - value air [l/min]	G	PN	Sealing material	Voltage / current	Type	Order number	Price
Solenoid valve with Solenoid coil E36 including cable socket ESG-182 Pg 9	3	0.28	285	G 3/8	16	NBR	12 V DC	EBV-153-A30-3/8B-012/=-S9	627321	o. r.
	3	0.28	285	G 3/8	16	FKM	12 V DC	EBV-153-A30-3/8F-012/=-S9	627322	o. r.
	4	0.5	520	G 3/8	10	NBR	12 V DC	EBV-153-A40-3/8B-012/=-S9	627323	o. r.
	4	0.5	520	G 3/8	10	FKM	12 V DC	EBV-153-A40-3/8F-012/=-S9	627324	o. r.
	6	0.8	850	G 3/8	5	NBR	12 V DC	EBV-153-A60-3/8B-012/=-S9	627325	o. r.
	6	0.8	850	G 3/8	5	FKM	12 V DC	EBV-153-A60-3/8F-012/=-S9	627326	o. r.
	3	0.28	285	G 3/8	16	NBR	24 V DC	EBV-153-A30-3/8B-024/=-S9	627331	o. r.
	3	0.28	285	G 3/8	16	FKM	24 V DC	EBV-153-A30-3/8F-024/=-S9	627332	o. r.
	4	0.5	520	G 3/8	10	NBR	24 V DC	EBV-153-A40-3/8B-024/=-S9	627333	o. r.
	4	0.5	520	G 3/8	10	FKM	24 V DC	EBV-153-A40-3/8F-024/=-S9	627334	o. r.
	6	0.8	850	G 3/8	5	NBR	24 V DC	EBV-153-A60-3/8B-024/=-S9	627335	o. r.
	6	0.8	850	G 3/8	5	FKM	24 V DC	EBV-153-A60-3/8F-024/=-S9	627336	o. r.

Illustration

