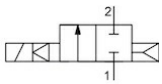
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2/2-Way solenoid valve - combined-operated Series 21HT





de-energized closed

Design type	2/2-way solenoid valve with diaphragm seal, combined-operated, normally closed
Connection	G3/8"...G1" according to ISO228/1
Materials	Body Brass, Internal parts Brass and Stainless steel similar 1.4104, Seals NBR or FKM
Application range	gaseous and liquid media that do not attack the materials used
Viscosity	max. 12mm^2/s (cst) or rather 2°E
Switching time	depending on operating pressure and medium
Medium temperature	depending on the sealing material and Solenoid coil
Ambient temperature	see table "Solenoid coil"
Mounting type	Installation in rigid piping system
Mounting position	preferably with upright electrical part

Electrical data:

Coil type	Type BDA, Connector width 32mm (Standard coil) Type BDV, Connector width 32mm (Coil for humid environment) Type GDH/GDV, Connector width 32mm (Coil for higher pressures, Coil for humid environment)
Electrical connection	connector according to EN175301-803 form A (see separate data sheet)
Voltage type	AC and DC voltage
Standard voltage	230V/50-60Hz, 24V/50-60Hz, 24VDC
Special voltages	12...400V/50Hz or 60Hz, 12...220VDC
Permissible voltage fluctuation	AC +10%/-15%, DC +10%/-5%
Power consumption	see table "Power consumption of the solenoid coils"
Duty cycle	100% Duty cycle (continuous operation)
Degree of protection	IP65 according to EN 60529 with correctly mounted device connector (protection against dust ingress and water jets)
Application note	When ordering, please specify voltage and type of current. We always recommend installing a strainer upstream to prevent malfunctions in the event of contamination of the medium. These valves can also be used for rough vacuum.
Special version	ATEX II 3G nA IIC T3 Gc / II 3D tc IIIC T200°C Dc IP65

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Type code

	21HT	3	K0	Y	110	-	BDA	-	230V/50-60Hz
	G3/8"	3							
	G1/2"	4							
	G3/4"	5							
Connection	G1"	6							
Seal	NBR			Y					
	FKM			V					
Nominal size	11mm				110				
	16mm				160				
	25mm				250				
Coil	BDA Standard coil - Approval CE						BDA		
	BDV Coil for humid environment - Approval CE-CSA-UL-VDE						BDP		
	GDV Coil for higher pressures - Coil for humid environment - Approval CE-CSA-UL-VDE						GDV		
	GDH Coil for higher pressures - Coil for humid environment - Approval CE						GDH		
Voltage	230V/50-60Hz								230V/50-60Hz
	24V/50-60Hz								24V/50-60Hz
	24VDC								24VDC
	12...380V/50Hz								12-380V/50Hz
	12...380V/60Hz								12-380V/60Hz
	12...220VDC								12-220VDC

Applications of the individual sealing materials

Material	Medium temperature	Application examples
NBR	-10...90°C	Air, Water, neutral gases and liquids
FKM	-10...140°C	Oils, Gasoline, Diesel

Solenoid coil

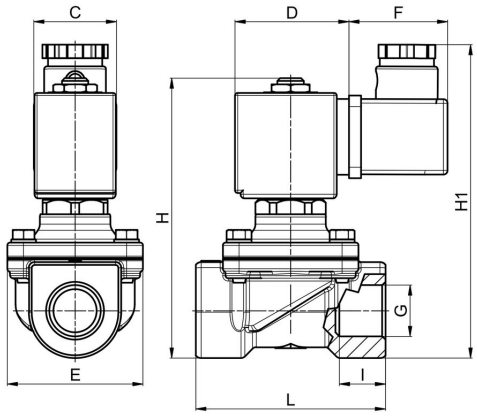
Type	Degree of protection	Insert	Ambient temperature	Approvals
BDA	IP65	Medium temperature up to max. 120°C	-10...+40°C	CE
BDV	IP65	Medium temperature up to max. 160°C, high humidity	-20...+60°C	CE-CSA-UL-VDE
GDH	IP65	Medium temperature up to max. 180°C, high humidity	-20...+40°C	CE
GDV.....S	IP65	Medium temperature up to max. 180°C, high humidity	-20...+60°C	CE
GDV.....Y	IP65	Medium temperature up to max. 180°C, high humidity	-20...+60°C	CE-CSA-UL-VDE

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Power consumption of the solenoid coils

Voltage	Tightening torque (Alternating current) VA	Holding force (Alternating current) VA	Holding force (Direct current) operating temperature W	Type
12VDC	-	-	8	BDA08012CS
24V/50-60Hz	25	14,5	-	BDA08024DS
24VDC	-	-	8	BDA08024CS
42V/50Hz	25	14,5	-	BDA08042AS
48V/50Hz	25	14,5	-	BDA08048AS
110VDC	-	-	8	BDA08110CS
110V/50-60Hz	25	14,5	-	BDA08110DS
220-230V/50-60Hz	25	14,5	-	BDA08223DS
380V/50-60Hz	25	14,5	-	BDA08380DS
24VDC	-	-	11	BDV08024CY
24V/50-60Hz	25	17	-	BDV08024DY
110V/50Hz 120V/60Hz	25	15	-	BDV080110AY
230V/50Hz 240V/60Hz	25	16	-	BDV08230AY
12VDC	-	-	14	GDH14012CS
48VDC	-	-	14	GDH14048CS
24VDC	-	-	14	GDV14024CY
24V/50-60Hz	43	26	-	GDV14024DY
220VDC	-	-	14	GDV14220CS
230V/50Hz 240V/60Hz	43	27	-	GDV14230AY
110V/50Hz 120V/60Hz	43	23	-	GDV14110AY

Dimensions



Connection G	Nominal size DN[mm]	Pressure range [bar] AC	Pressure range [bar] DC	C	D	E	F	H	H1	I	L	Kv value [m^3/h Water]	Weight [approx. kg]	Coil	Type
G3/8"	11	0...14	0...5	30	42	50	36	89	102	12	56	1,2	0,45	BD.	21HT3K0.110
G3/8"	11	0...14	0...14	52	55	50	36	89	102	12	56	1,2	0,75	GD.	21HT3K0.110
G1/2"	16	0...14	0...2,5	30	42	50	36	100	113	14	70	2,4	0,66	BD.	21HT4K0.160
G1/2"	16	0...14	0...14	52	55	50	36	100	113	14	70	2,4	0,96	GD.	21HT4K0.160
G3/4"	16	0...14	0...1,5	30	42	50	36	100	113	16	70	2,4	0,66	BD.	21HT5K0.160
G3/4"	16	0...14	0...14	52	55	50	36	100	113	16	70	2,4	0,96	GD.	21HT5K0.160
G1"	25	0...8	-	30	42	65	36	112	125	18	104	7,2	0,90	BD.	21HT6K0.250
G1"	25	0...14	0...6	52	55	65	36	112	125	18	104	7,2	1,20	GD.	21HT6K0.250

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