502 VALVE WITH SA 05 ELECTRIC ACTUATOR

CHARACTERISTICS

The 502+UMA3.5 is a 2-way brass ball valve dedicated to the automatic shut-off of non-corrosive common fluids: water, air, hydrocarbons, etc. It is a full bore ball valve. With EC and the French ACS certification, it is suitable for drinking water applications. The ISO 5211 pad allows a direct mounting of the SA actuator. It is perfectly suitable for an indoor or outdoor industrial use.

AVAILABLE ITEMS

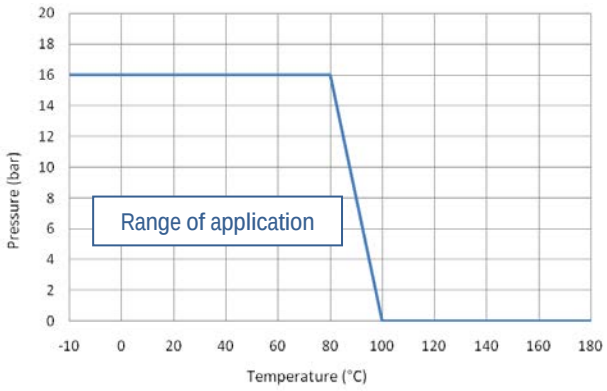
CW 617N brass body
Size ¼'' to 4''
BSP threaded connections
Voltage: 24 V DC, 24 V AC and 230 V AC

IP 67

1/2'' to 4''

LIMITS OF USE

Max. allowable pressure (PS)	16 bar
Min./max. allowable temperature (TS)	-10 °C / +100 °C
Room temperature	-20 °C / +70 °C
Service	S2 – 70%





DIRECTIVES AND DEVELOPMENT STANDARDS APPLICABLE

	Standard	Notified bodies		Standard
97/23/EC Pressure Equipment Directive	¼'' to 1" : excluded		French Sanitary Compliance Certificate (ACS)	1/4''-3/8'': excluded
	1" ¼ to 2" : article 3 § 3			1" ¼ to 2" : 08 ACC LY 073
	2" ½ to 4'' : category II	PASCAL #1115		2" ½ to 4'' : 08 ACC LY 075
Shell design	EN 12516-4		Actuator attachments	ISO 5211
Alloy grade	EN 12240		Valve testing	EN 12266

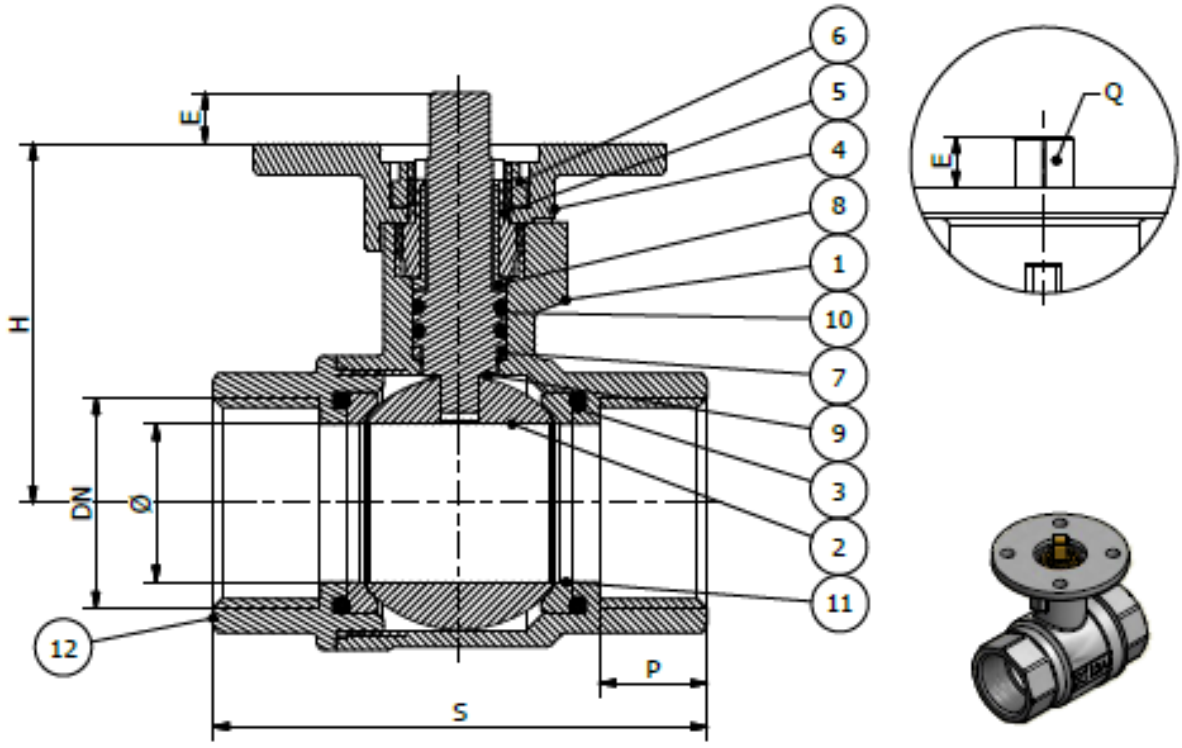
The following data is for information purpose only and may be subject to alteration without prior notice

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CONSTRUCTION

#	Item	Material	#	Item	Material
1	Body	Nickel-plated CW 617N brass	**7**	Anti-friction ring	PTFE
2	Ball	Chromium-plated CW 617 brass	**8**	Anti-friction sleeve	PTFE
3	O-ring (DN 2'' ½ to 4'')	NBR	**9**	Stem	CW 614N brass
4	Actuator pad	Nickel-plated CW 617N brass	**10**	O-ring	NBR / FKM
5	Nut	CW 614N brass	**11**	Seat	PTFE
6	Nut	CW 614N brass	**12**	End	Nickel-plated CW 617N brass



DIMENSIONS (mm)

DN	¼"	3/8"	½"	¾"	1"	1" ¼	1" ½	2"	2" ½	3"	4"
Ø	10	10	15	20	25	32	39	48	64	78	100
S	50	60	56	68	78	90	100	115	141	159	196
P	10	11	14	16	17	18	19	21	25	25	30
H	33	34	48	52	56	68	73	79	92	102	127
E	9	9	8	8	8	10	10	10	12	12	17
Q	9	9	11	11	11	11	11	11	14	14	17
ISO	F03	F03	F03-F05	F03-F05	F03-F05	F05	F05	F05	F05	F05	F07

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ELECTRIC ACTUATION WITH SA

Suggested standard SA actuation under the following conditions:
- Electric actuator with an IP 67 epoxy coated aluminium enclosure and steel gears
- A minimum 1.3 safety factor compared with the valve nominal torque rating,
- A maximum pressure differential up/downstream of 10 bar (=ΔP)

Direct mounting of the electric actuator

DN	Actuator	Power	Intensity 230 V AC	Intensity 24 V AC/DC	Operating time*	Standard equipment of the actuator
¼''	SA05	6 W	28 mA	1.8 mA	17 s	2 adjustable limit switches 2 dry auxiliary switches 2 W anti-condensation heater Actuator thermal cut-out Manual override by key Backlit position indicator Electrical connection: 2 gland packs. M20x1.5
3/8''	SA05	6 W	28 mA	1.8 mA	17 s	
½ ''	SA05	6 W	28 mA	1.8 mA	17 s	
¾ ''	SA05	6 W	28 mA	1.8 mA	17 s	
1''	SA05	6 W	28 mA	1.8 mA	17 s	
1'' ¼	SA05	6 W	28 mA	1.8 mA	17 s	
1'' ½	SA05	6 W	28 mA	1.8 mA	17 s	
2''	SA05	6 W	28 mA	1.8 mA	17 s	

* Unloaded operating time given for information purpose only. May vary depending on the medium

For any other working conditions, please contact us.

ACTUATION OPTION

There are many different options, please contact our commercial department.

1	2	3
SA05S: Slow closing electric actuator 70 s	SA05PCU: Regulation actuator 4-20 mA or 0-10 V	SA05RBP: Safety actuator with an integrated battery emergency shutdown
		
4	SAPUI electric actuator with feedback potentiometer	
5	100 mm stem extension for pipe insulation (see 500HC model)	
6	Electric actuator sized for a maximum pressure differential up/downstream over 10 bar (=ΔP)	
7	NA electric actuator with a declutchable manual override by handwheel	

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