CIM 690
MODULERENDE KULEVENTIL

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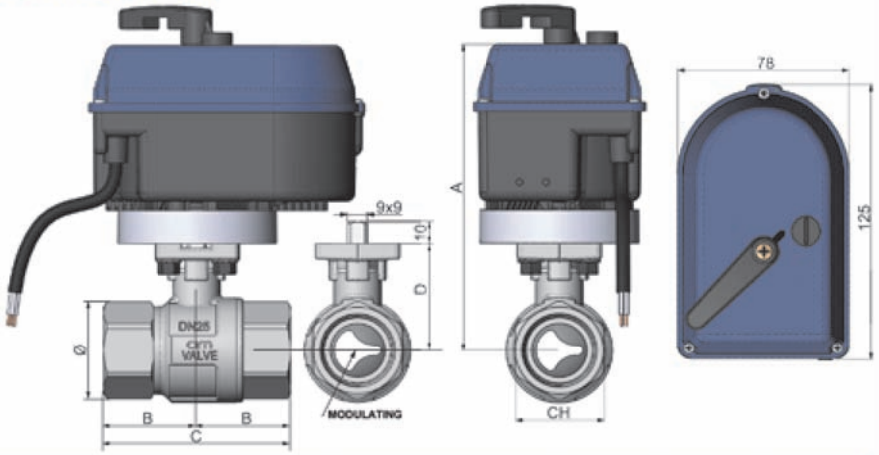
UNI MOD

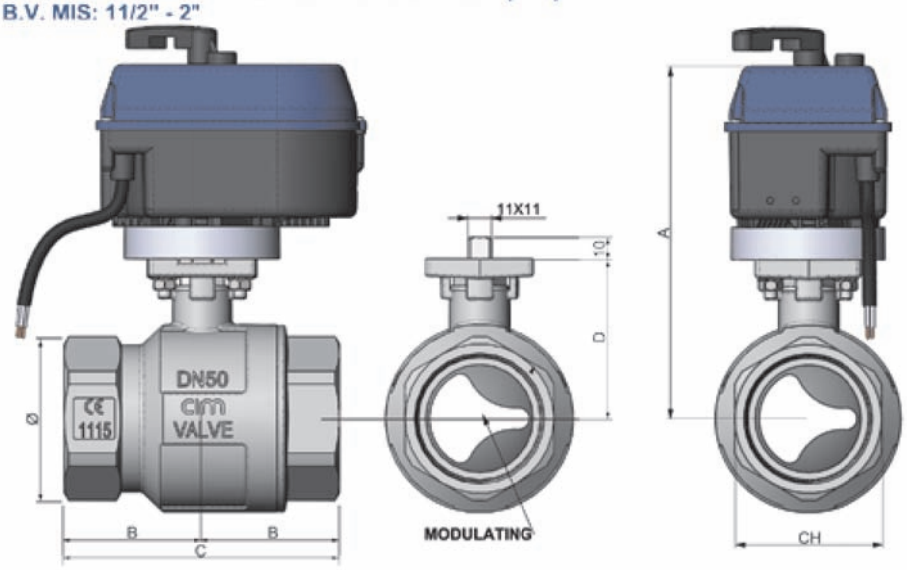
Dimensions:

TYPE: UNI MOD with ISO ball valve CIM 690 (F03)
B.V. MIS: 1/2"-3/4"-1"-11/4"



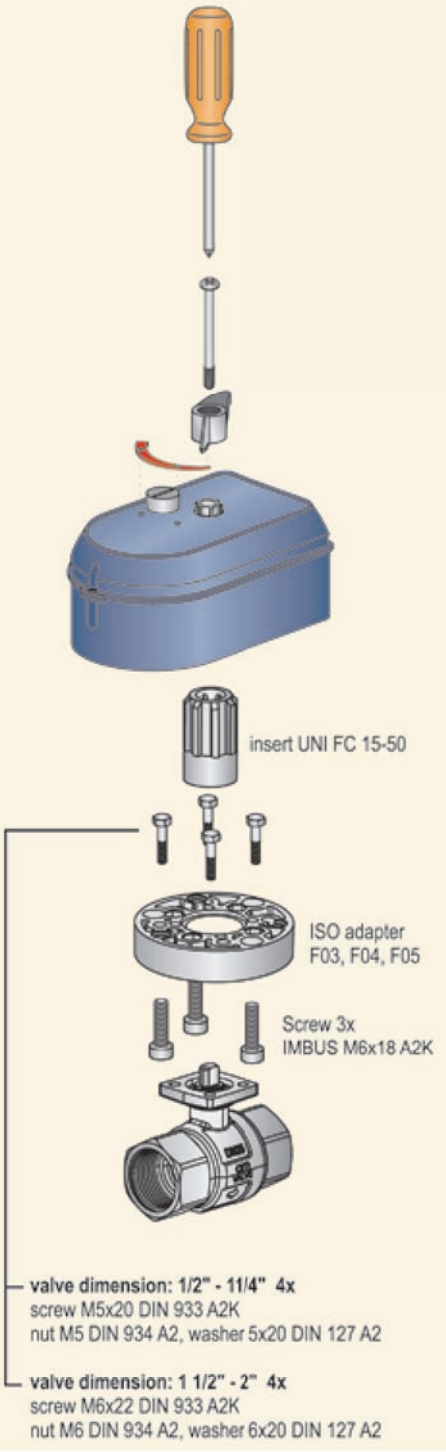
Valve type		A	B	C	D	CH	Ø
CIM 690	1/2"	130	31,60	63,20	41,0	25	30
	3/4"	134	34,95	70,05	44,5	31	39
	1"	138	42,50	85,00	48,5	40	48
	1 1/4"	146	47,20	94,55	56,5	49	57

TYPE: UNI MOD with ISO ball valve CIM 690 (F05)
B.V. MIS: 11/2" - 2"



Valve type		A	B	C	D	CH	Ø
CIM 690	1 1/2"	156,9	54	108,0	67,3	55	71
	2"	164,1	63,6	127,4	74,5	69	87

Assembly

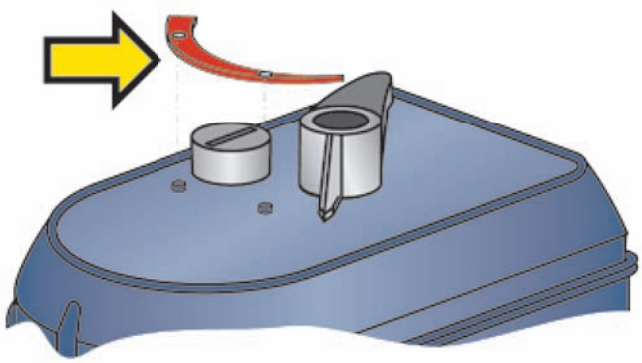


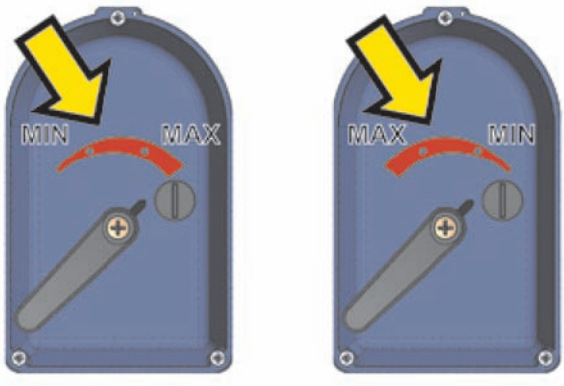
valve dimension: 1/2" - 11/4" 4x
screw M5x20 DIN 933 A2K
nut M5 DIN 934 A2, washer 5x20 DIN 127 A2

valve dimension: 1 1/2" - 2" 4x
screw M6x22 DIN 933 A2K
nut M6 DIN 934 A2, washer 6x20 DIN 127 A2

Position indication on the valve's cover

Set the red indicator according actuator mounting position



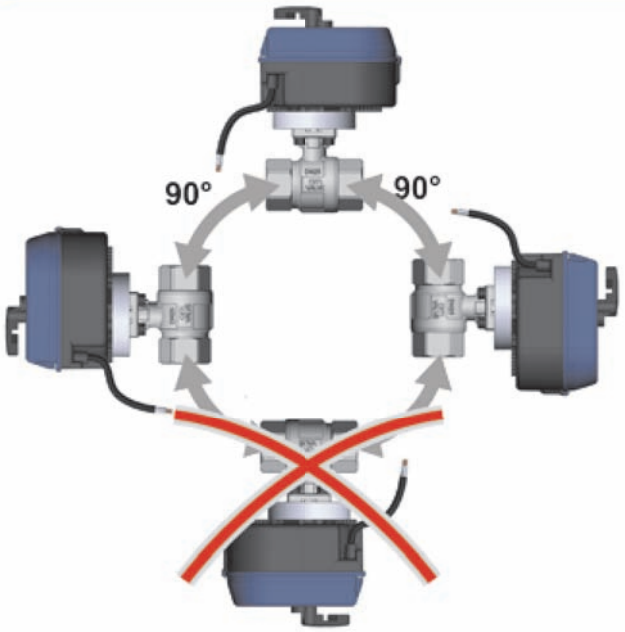


UNI MOD

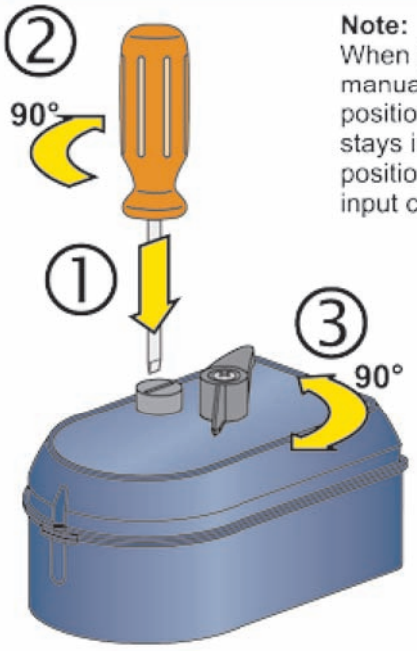
Technical data

UNI MOD Electrical data	Nominal voltage	24VAC, 50Hz, + 10%/-15%
	Control signal	voltage: 0..10VDC current: 0..20mA, 4..20mA
	Power comsumption - in operation	6VA
	Connection cable	lenght 2m
	Type of control	modulating
Functional data	Nominal torque (at nominal voltage)	max 12Nm
	Rotation time	73s/90°
	Manual override	Gearing latch disengaged with button
	Position indication	mechanical, handle position on the cover
	Instalation position	all position exept actuator upside down
Safety	Protection class	II ⧈
	Degree of protection	IP44 (IEC 60529 (2001-02))
	EMC low-voltage directive	CE in accordance with 89/336/EEC
		CE in accordance with 73/23/EEC
	Ambient temperature	0..+50°C (by working cycle 50/25s)
	Non-operating temperature	-20°...+80°C
	Maintance	Maintance-free
	Weight	Approx. 480g (without valve)
ISO ball valve with modulating insert 1/2"-11/4"-> F03, 9x9 11/2", 2"-> F05, 11x11	Valve's body, stem	CW617N nickel pltd
	Ball	CW617N chrome pltd
	Modulating insert	Rayton R-4-200BL
	Ball gaskets	PTFE
	Medium temperature	0..110°C
	Max. working pressure	16bar
	Medium	water, non-agresive medium, air

Instalation position



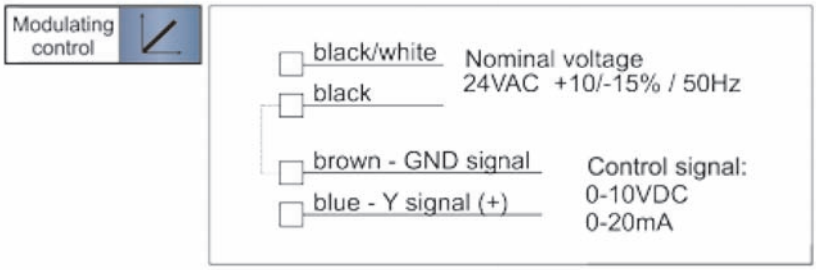
Manual override



Note:
When is button for manual operation in position MAN, actuator stays in temporary position irrespective of input control signal.

UNI MOD

Electrical connection



WARNING!
Black and brown wire are inside actuator connected.

DIP switches for choosing actuator parameter

-The actuator is controlled with standard modulating signal of DC 0..10V (factory default) and moves to the position defined by control signal. That allows actuator to be controlled with microprocessor controllers with modulating output. With DIP switches inside actuator is possible to choose control signal (voltage, current), rotation direction, signal range and resolution and opening curve characteristic

Table 1

DIP	OFF	ON	Note
1	voltage	current	control signal type selection
2	Direct	inverse	Exchange direction
3-5	Look table 2	Control signal range and signal resolution selection	
6-7	Look table 3	Curve selection	
8	Self calibrating	Self calibrating	on position change

Table 2

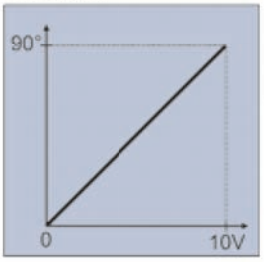
Control signal range and signal resolution selection	DIP switches		
	5	4	3
1. 0,16..9,84 V 80 mV	OFF	OFF	OFF
2. 2..9,84 V 80 mV	OFF	OFF	ON
3. 0,16..4,88 V 40 mV	OFF	ON	OFF
4. 5,12..9,84 V 40 mV	OFF	ON	ON
5. 2,16..5,84 V 40 mV	ON	OFF	OFF
6. 6,16..9,84 V 40 mV	ON	OFF	ON
7. 0,16..10 V 40 mV	ON	ON	OFF
8. 0..10 V 10 mV	ON	ON	ON

Table 3

Curve selection	DIP switches	
	7	6
0. Curve	OFF	OFF
1. Curve	OFF	ON
2. Curve	ON	OFF
3. Curve	ON	ON

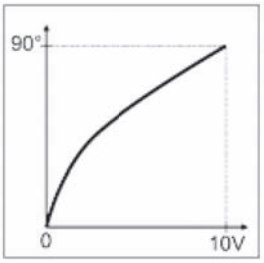
Factory default:

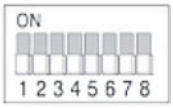
1. Curve: 1



1 Voltage control signal
2 Inverse control signal
3,4,5 0-10VDC, 80mV
6,7 Curve 1

2. Curve: 0





1 Voltage control signal
2 Direct control signal
3,4,5 0-10VDC, 80mV
6,7 Curve 0

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