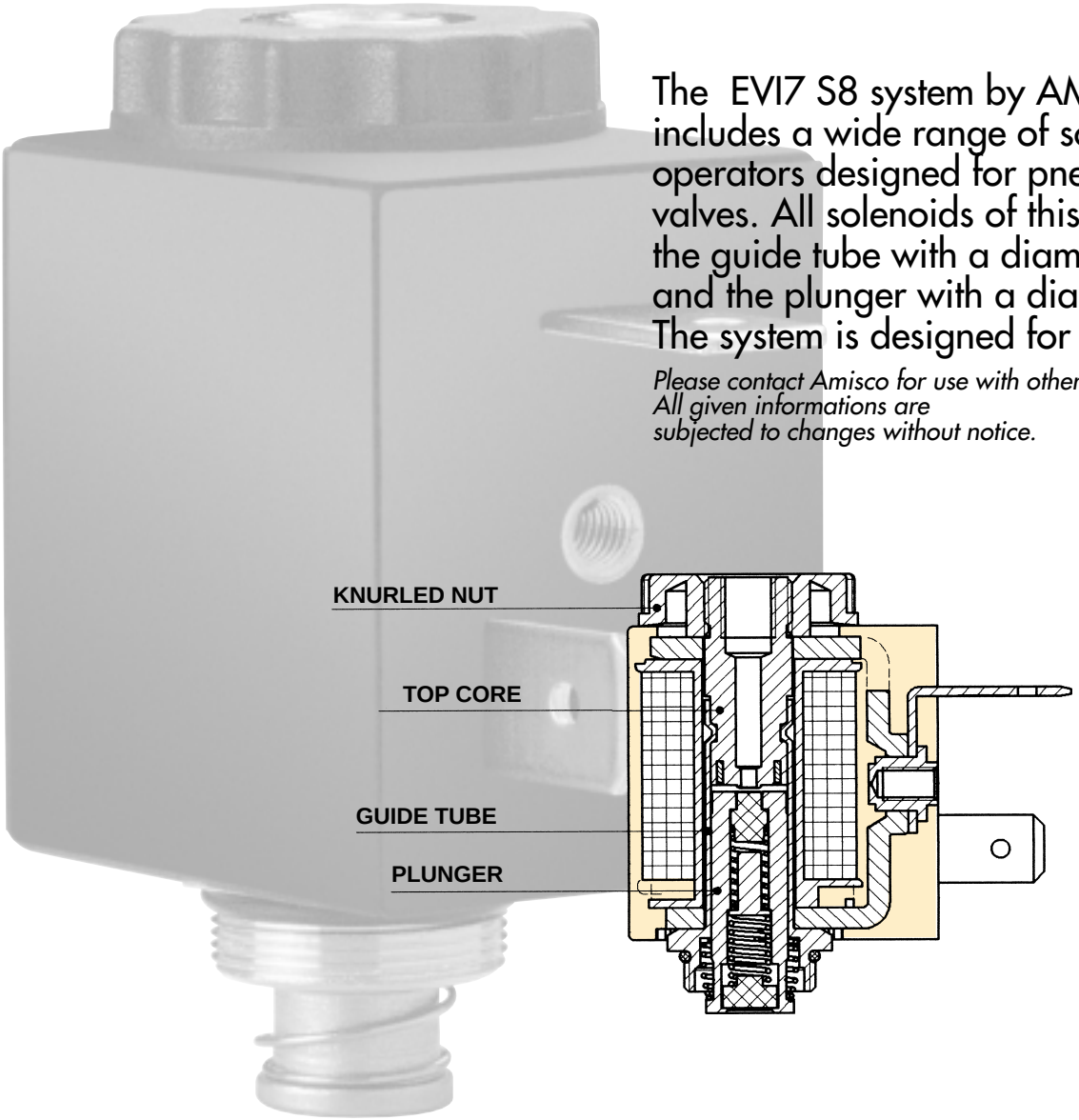
The EVI7 S8 system by AMISCO includes a wide range of solenoid operators designed for pneumatic valves. All solenoids of this system have the guide tube with a diameter of 8 mm and the plunger with a diameter of 7 mm. The system is designed for use with air.

Please contact Amisco for use with other media.
All given informations are subjected to changes without notice.



COIL

The coil is available in different sizes.
Types, power and other characteristics are described in the following pages.
All coils feature:

- heat resistant bobbin moulded with 30% glass filled thermoplastic polyester material
- class H wire 200°C according to IEC 317-8
- built-in magnetic yoke made by low carbon iron
- encapsulation with high quality specially designed glass filled nylon.

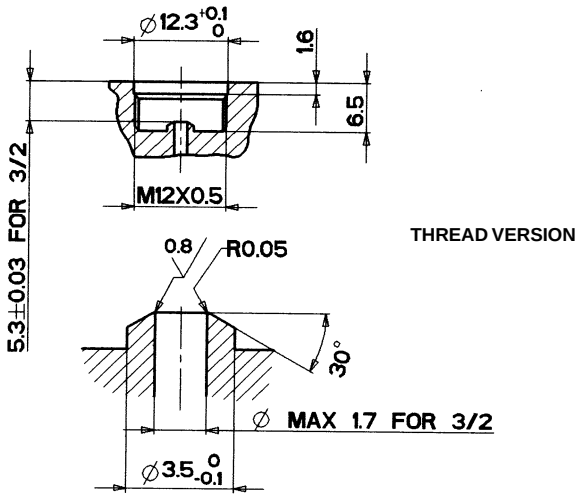
The use of other materials is possible upon special agreements. All coils are rated to class F and to IP 65 (with connector). The coil is designed and constructed in accordance to EN 60204.1 and VDE 0580 and it is suitable for industrial ambient conditions. For use in special ambients with high humidity, please, take contact with Amisco.

ARMATURE ASSY

Plunger and core are made by a magnetic stainless steel specially designed for solenoid applications.
The guide tube is made with brass (stainless steel is possible upon special agreement). The plunger is normally equipped with NBR rubber seals. Other materials like Viton are available upon request. The armature assembly is designed for more than 10^6 cycles.

COMPLETE OPERATOR

The coil is fastened to the plungerguide tube by means of a knurled nut for ease of change over without interrupting the pneumatic circuit.
The armature assy is fixed to the valve body by means of a M12x0.5 thread.
The suggested interface dimensions of the valve body are shown below.
Any change to the prescribed dimensions can effect the performances of the solenoid operator.



THREAD VERSION

SOLENOID SYSTEMS
for 3/2 way normally closed and normally open valves

Electrical termination	Code			Characteristics								
				DC			AC (50 Hz)			AC (60 Hz)		
Coil EVI 7/8												
Terminals AMP 6.3x0.8 width 11 mm	0708S...	Rated power DC	W	2	3.5	5.5						
		Inrush power AC	VA				5.3	7.5	10	4.5	6.5	8.5
		Rated power AC	VA				3.5	5	6.5	3	4.5	5.5
		Coil temperature rise	°C	22	35	60	35	45	65	30	45	57
		Copper temperature rise	°C	30	48	76	42	56	80	35	53	67
Coil EVI 30/8												
Terminal DIN 43650A (bottom ground)	3008D...	Rated power DC	W	1.5	2.5	4						
		Inrush power AC	VA				3.8	5.5	7.5	3.2	4.5	6.5
		Rated power AC	VA				2	3	4	1.7	2.5	3.5
		Coil temperature rise	°C	12	20	35	18	25	35	15	22	30
		Copper temperature rise	°C	18	30	48	18	25	35	15	22	30
Armature S8												
3/2 way NC Thread	08F.....	Inlet orifice Ø	mm	0.8	1.1	1.3	0.8	1.1	1.3	0.8	1.1	1.3
		Exhaust orifice Ø	mm	1.2	1.4	1.4	1.2	1.4	1.4	1.2	1.4	1.4
		Working pressure	bar	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10
3/2 way NO Thread	08F.....	Inlet orifice Ø	mm	1.2	1.4	1.4	1.2	1.4	1.4	1.2	1.4	1.4
		Working pressure	bar	0-6	0-7	0-10	0-6	0-7	0-10	0-6	0-7	0-10

Notes:

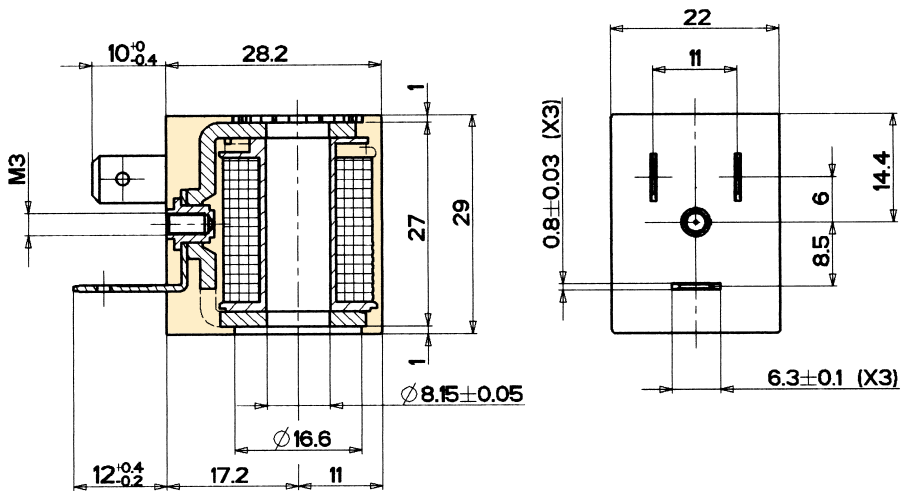
Voltage tolerance: ± 10%
Temperature range: –20°C ÷ +50°C
Duty cycle: 100%

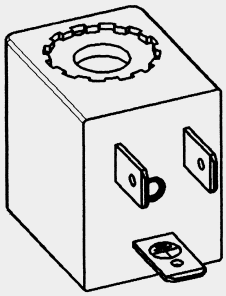
Standard voltages: 24 - 110 - 230 VAC
12 - 24 VDC

Other voltages on request

For different orifice sizes and pressures contact AMISCO

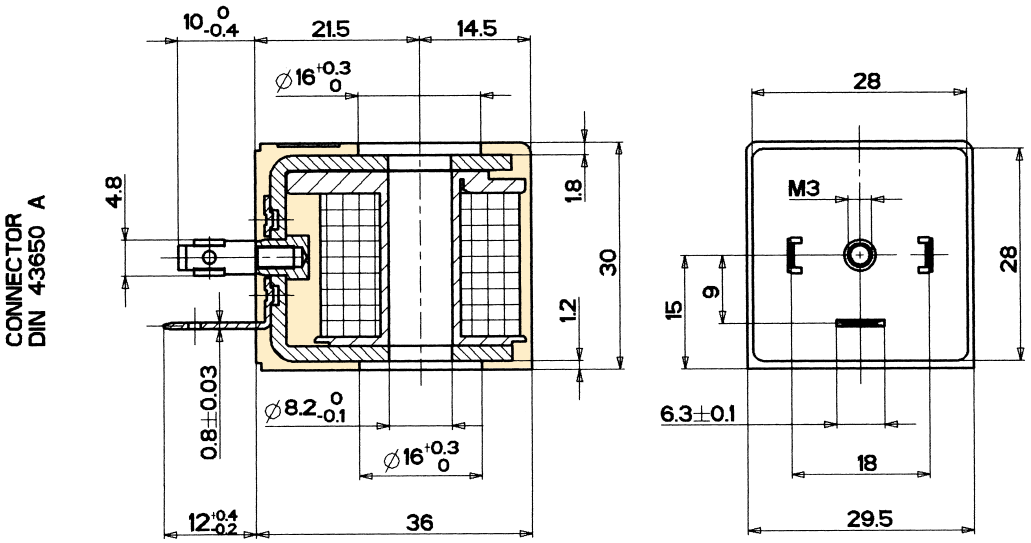
EVI 7/8

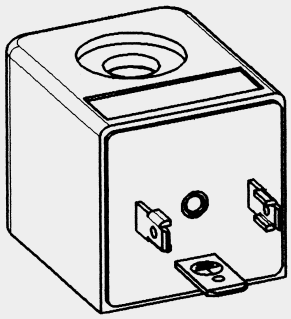




EVI 30/8

CONNECTOR
DIN 43650 A





COIL CODING SPECIFICATION

X	X	9	9	Y	K	5	5	5	4	4	A	Z

TYPE
07 = EVI 7
30 = EVI 30

COIL BORING
08 = 8 mm

ELECTRICAL CONNECTION
S = AMP 6,3x0,8
D= DIN 43650 A

SUPPLY CURRENT
A= Alternating current (A.C.)
D= Direct current (D.C.)
R = Rectified alternating current

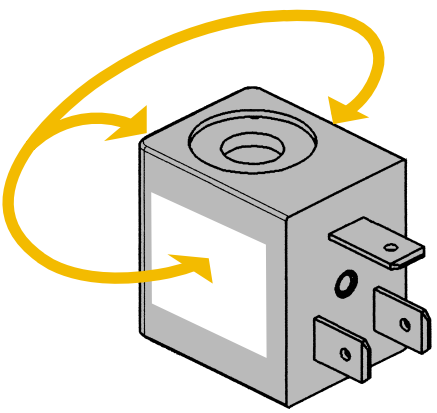
NOMINAL VOLTAGE
Example: 024 = 24V
220 = 220 V

WINDING CODE
To be communicated by AMISCO

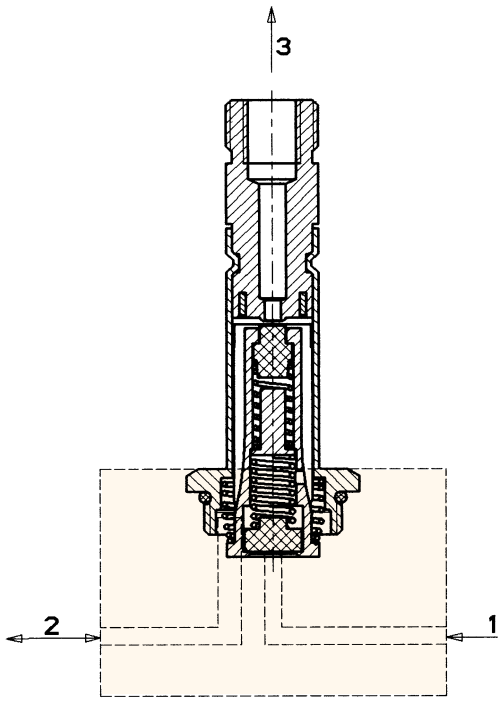
SPECIAL FEATURES
Z = Standard
M= Different moulding material
C = Different colour

MARKING
N= Standard
T = Customer specifications
B = No Marking

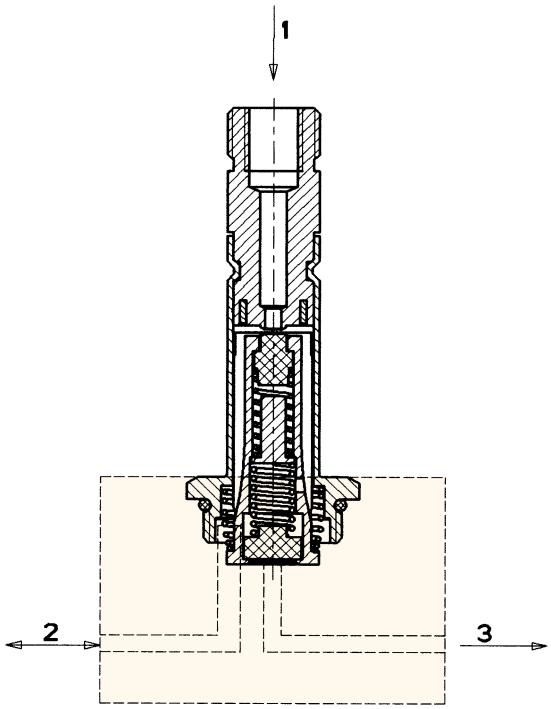
Alternative possibilities
for CUSTOMER LOGO



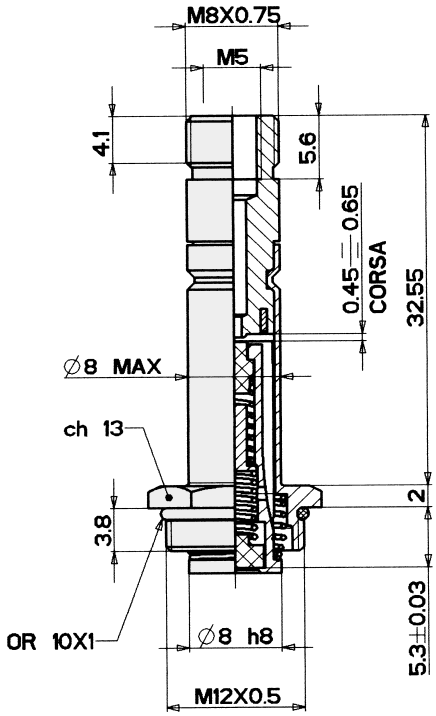
EXAMPLES OF MAIN APPLICATIONS



3/2 NC



3/2 NO



3/2 OPERATOR

OPERATOR CODING SPECIFICATIONS

X	X	X	A	A	A	A	A	R	9	C	Z	K

TYPE
08F = Thread

DRAWING NUMBER
02711 = SP 271/1

SUPPLY CURRENT
A = Alternating current
D = Direct current

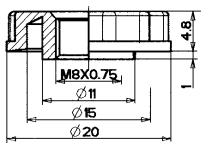
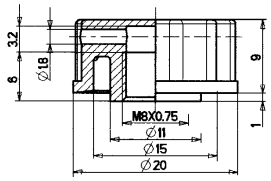
FUNCTION
3 = 3/2 way

FUNCTION
C = Normally closed
O = Normally open

SEALS
B = Low temperature NBR
E = EPDM - V = Viton
N = NBR - C = Neoprene

FASTENING SYSTEM
N = Without fastening system. Fastening nuts to be ordered separately as below.

FASTENING NUTS (Note: tightening torque max 0.6 Nm)

Plastic knurled nut	Cod. 540238	
Plastic knurled nut for protected exhaust	Cod. 540270	
Aluminium knurled nut Weavy washer Ø 8 DIN 137 type A	Cod. 540201 Cod. 535019