



15 mm

Pilot Valve

15 mm Pilot Valve

The 15 mm pilot valve has been designed and developed by Amisco as a logical evolution of the traditional product range manufactured for the pneumatic application.

The 15 mm solenoid valve is designed for those applications, more and more common on the actual market, where besides high performances in terms of pressure and flow, minimum dimension, very low power consumption and high reliability even at high cycling rates are specified.

This system is designed for use with air.

The solenoid valve is composed by an encapsulated coil joined to a plastic valve body made by PPS. The assembly is not detachable.

Please contact Amisco for use with other media.







All the 15mm pilot valves feature:

- heat resistant bobbin moulded with 30% glass filled polyester (PBT)
- class H 200°C copper wire according to IEC 60317-13
- encapsulation with high quality specially designed glass filled polyamide (PA6.6)
- stainless steel guiding tube
- plunger and core made by a magnetic stainless steel specially designed for solenoid applications.

The pilot assembly is designed for more than 50 million cycles.

The valve is normally equipped with FKM seals and monostable manual override, and it can be delivered with a specially designed seal and screws for its assembling on the main valve units.

The coil is designed and manufactured according to EN 60335 and VDE 0580 and it's suitable for industrial ambient conditions. For use in different ambients with high humidity, take contact with Amisco. Copper and plastic materials used are UL-Listed.

The electrical part of the pilot can be manufactured and marked UL for Electrical Insulation System (EIS) "E200N", designated by Amisco as AMIF - UL file E343908.

Pilot valve can be supplied and marked EAC for use in Russian Market.

More details about UL and EAC certification can be given on customer request.

Different electrical connections are available. The configuration of the valve unit can be with the pneumatic ports on the same side of the electrical connections or on the opposite side.

Pneumatic connections are located in the valve body.

The Amisco 15mm pilot valve is suitable for the use of subbases or the assembly in batteries, for common pressure and exhaust location.

More technical specifications are reported in the following pages.

TECHNICAL DATA

Pilot Valve technical data

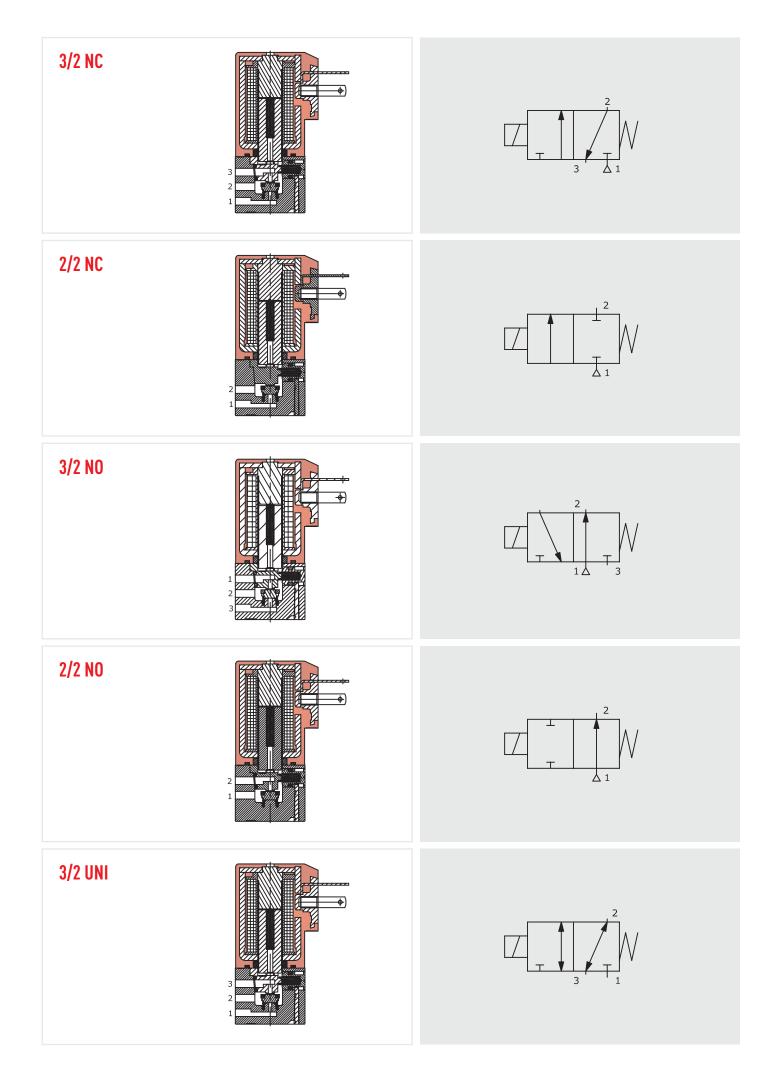
Valve function	3/2 NC - 3/2 NO - 2/2 NC - 2/2 NO - 3/2 UNI		
Media	air accordingly ISO 8573-1 class 3-4-3		
Lubrification	not necessary		
Temperature	ambient -10°C to + 50°C (-30°C FKM low temperature)		
	fluid -10°C to + 50°C		
Orifice size	0,8 to 1,5 mm		
Pressure	0 ÷ 16 bar		
Response time	5 - 15 ms		
Max cycling time	2000 cpm		
Life time expectancy	50 million cycles		
Manual override	monostable - bistable - no override		
Assembly	in any position		
Fixing	n°2 screws M3 x 18		

Coil technical data

Duty Cycle	ED 100%			
Power	1 to 2,5 W (DC) 3 VA (AC)			
Voltage	12 - 24 V DC 24 - 115 - 230 VAC (other voltages on request)			
Voltage variation	± 10%			
Insulation Class	F			
Degrees of protection	IP 65 (according to EN 60529) with connector assembled with suitable seal			
	IP 67 Flying Leads and M12 version			
Electrical connection	Amp 2,8 x 0,5 - DIN C - Flying Leads - M12			
Coil construction	according to EN 60335 and VDE 0580			

Materials

Valve body	PPS		
Seals	NBR - FKM - FKM Low temperature		
Cores	stainless steel		
Springs	stainless steel		
Coil	PA 6.6 glass reinforced		
Copper wire	class H 200°C IEC 60317 13		



TECHNICAL SPECIFICATIONS

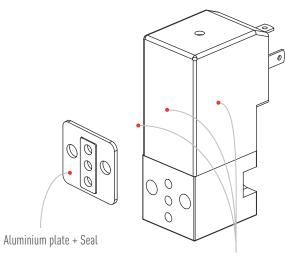
Valve		Orifice	Orifice	KV Flow rate		Pressure		Power	
Types	Function	mm (Port 1)	mm (Port 3)	factor	nr NL/min (Port 1→2)	b	ar	W	VA
		(PUILI)	נרטונסן		6 bar ∆p 1 bar	MIN	MAX	DC	AC
А	3/2 NC	0,8	1,0	0,28	18	0	8	1	3
В	3/2 NC	1,1	1,5	0,42	28	0	10	2,5	3
С	3/2 NC	1,5	1,5	0,55	36	0	6	2,5	3
D	2/2 NC	0,8	-	0,28	18	0	8	1	3
E	2/2 NC	1,1	-	0,42	28	0	10	2,5	3
F	2/2 NC	1,5	-	0,55	36	0	6	2,5	3
G	3/2 NO	1,0	1,1	0,36	23	0	7	2,5	3
Η	3/2 NO	1,5	1,5	0,55	36	0	3,5	2,5	3
	2/2 NO	1,0	-	0,40	26	0	10	1	3
J	2/2 NO	1,5	-	0,55	36	0	10	2,5	3
K	3/2 NC	0,8	1,0	0,28	18	0	16	2,5	3
Ν	3/2 NC	1,1	1,5	0,42	28	2	7,5	1	-
Q	3/2 UNI	0,8	1,0	0,28 / 0,36	18 / 23	0	10	2,5	3

Other specification upon customer request.

Valves with recessed seal

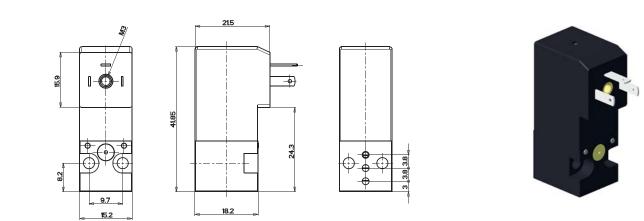


Valves with external seal



Alternative possibilities for CUSTOMER LOGO

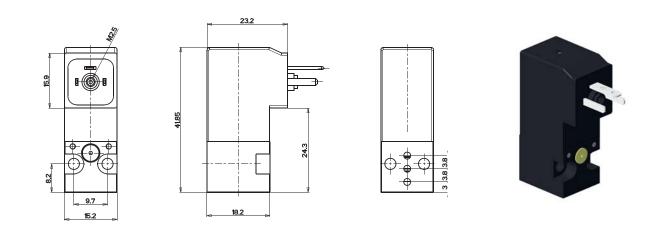
M3 Torque 0.4 ÷ 0.6 Nm



DIN C

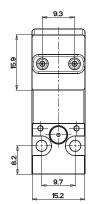
M2.5 Torque 0.4 ÷ 0.6 Nm

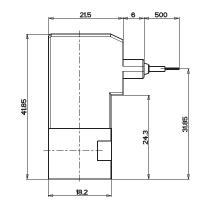
PART NUMBER 15D1...

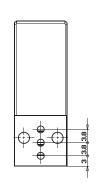


Flying Leads

Standard flying leads awg 24

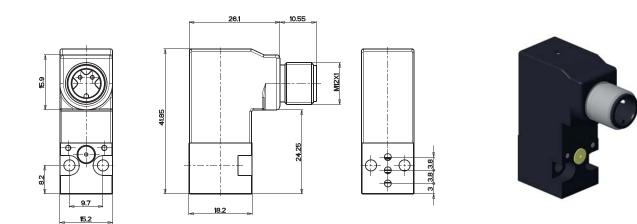




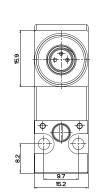


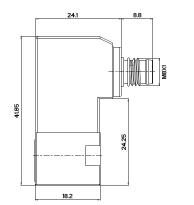


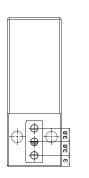
PART NUMBER 15C1...



PART NUMBER 15M8...



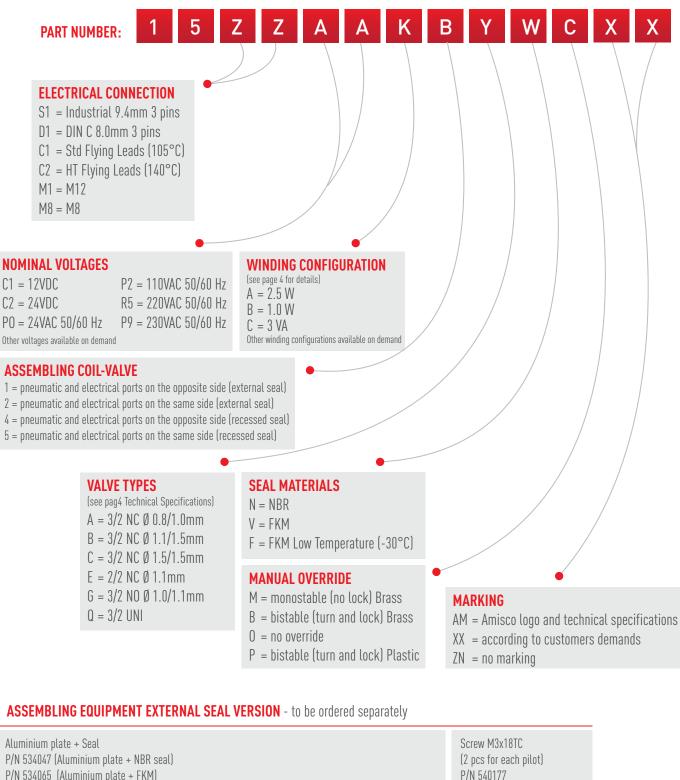




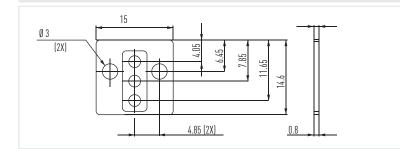


M8

15 mm PILOT VALVE CODING SPECIFICATION



P/N 534065 (Aluminium plate + FKM) P/N 534076 (Aluminium plate + FKM Low temperature seal)



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Torque: 0.4 ÷ 0.6 Nm

Certifications



In accordance with SERCONS INTERNATIONAL Russian Certification Authority in Europe

> the company: AMISCO S.p.A. Via Piaggio 70, Paderno Dugnano (MI), 20037 ITALY

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fulfills the necessary requirements to be certified according to EAC regulations.

Valid until: 22.05.2023

Certificate Number 20101224-E	110 December 23
Issued to:	AMISCO SPA
	VIA PIAGGIO 70 20037 PADERNO DUGNANO MI ITALY
This is to certify that representative samples of	SYSTEMS, ELECTRICAL INSULATION Class 155(F) insulation system, designated AMIF.
	Have been investigated by Underwriters Laboratories Inc. $\overset{\textcircled{\ensuremath{\mathbb{R}}}}{}(UL)$ or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1446 ,STANDARD FOR SYSTEMS OF INSULATING MATERIALS - GENERAL,Edition 6
Additional Information:	See UL On-Line Certification Directory at www.UL.com for additional information.
Recognition and Follow-Up Se The UL Recognized Component Ma product designation as specified um supplementary means of identifying Component Mark:	the UL Recognized Component Mark should be considered as being covered by UL's rvice. at, generally consists of the manufacturer's identification and catalog number, model number or other der "Mathung" for the particular Recognition as published in the appropriate UL Directory. As a directory of the state of the
	Look for the UL Recognized Component Mark on the product
William R. Carney Director, North American Co Underwriters Laboratories Inc.	ertification Programs



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