890 Series



High Performance compact solenoid multi-valve | 2/2 NC PNEUMATIC DIVISION





890 Series

High Performance Solenoid Multi-Valve 2/2 - NC

Developed to satisfy the increasing needs of size reduction and performances optimization for important and technologically evolved industrial sectors such as textile, sorting and packaging, the new 890 Series offers high level technical characteristics and performances.

Matrix's technology applied in the 890 Series, in fact, grants extremely fast response times combined with minimum sizes, ideals for all the applications where the dimension and the actuation speed are critical factors.

Multi-shutters design modularity offers a high flexibility, both in terms of flow rate and of utilizations density, combined with the maintenance-free operating life of half a billion cycles typical of Matrix's products. These characteristics make the new 890 Series the ideal solutions even for the most demanding applications.





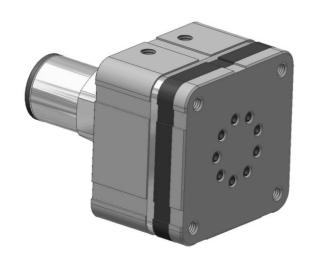
Main Features

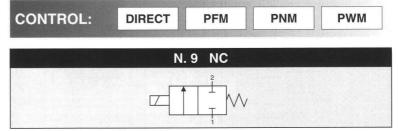
- Compact dimensions and small footprint (46x46 mm)
- Light weight (160 250 g depending on models)
- Modular architecture design (1, 3, or 9 independent outlets)
- Multi-shutters proven technology (variable flowrate for improved flexibility)
- High performances (up to 800 Hz)
- Long operating life (half a billion cycles)
- Maintenance free



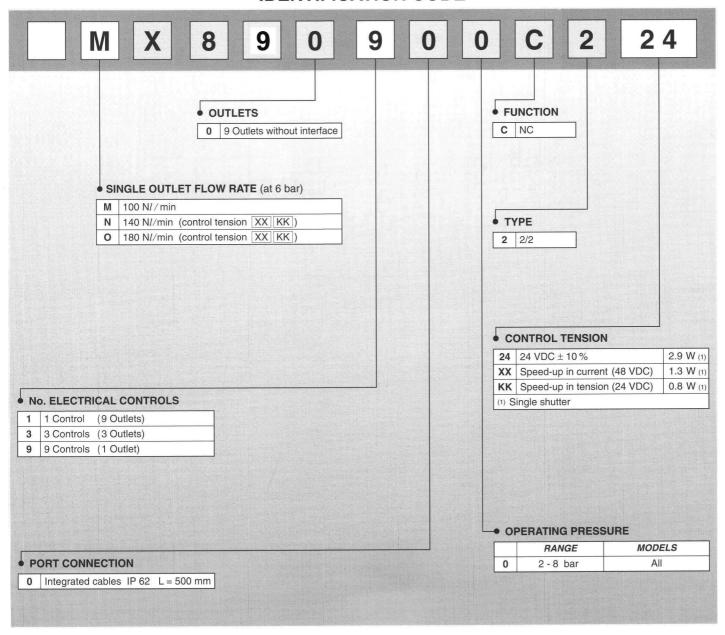




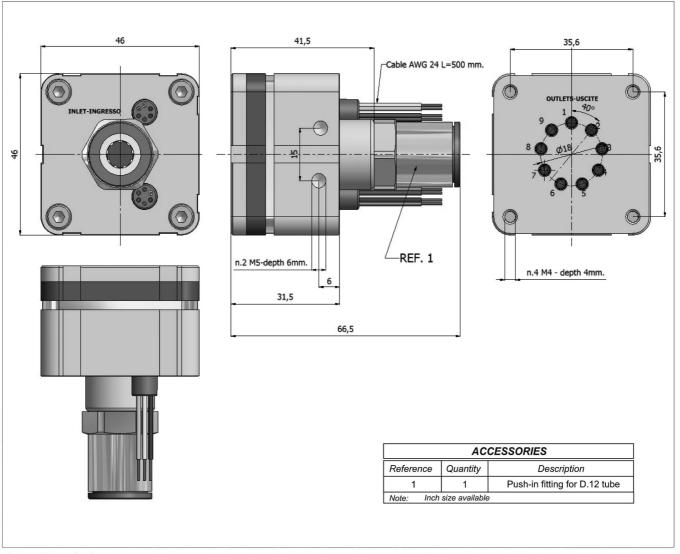




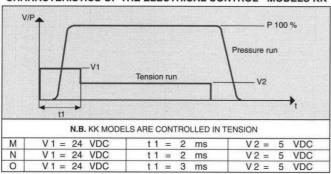
FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C		
FILTRATION RATING	Min 40 micron		
TEMPERATURE	- 10 + 50°C (Standard)	version)	
RESPONSE TIME IN OPENING	24 < 5 ms	XX / KK < 1 ms	
RESPONSE TIME IN CLOSING	24 < 2 ms	XX / KK < 1 ms	
MAXIMUM FREQUENCY	200 Hz	500 Hz	
WEIGHT	160 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 62		

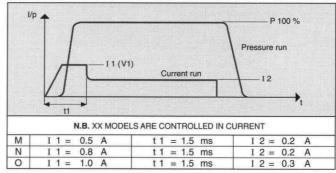






CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



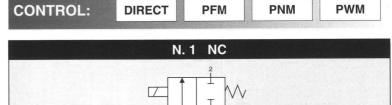


Q		FLOW RA	TE M			
NI/min					Qn	= 66 N//min
120					HIP WESTER	14.3 NI/min bar
110		\rightarrow			b =	0.433
100						
90						
80		_	1	1		
70	\rightarrow	1	1	\		
60		/	1	+		
50		1	+	++		
40	1	++	++	+		
30	+	+				
20		1 1			1	
10						
0	1 2	3 4	5	6	7 P (b	ar)

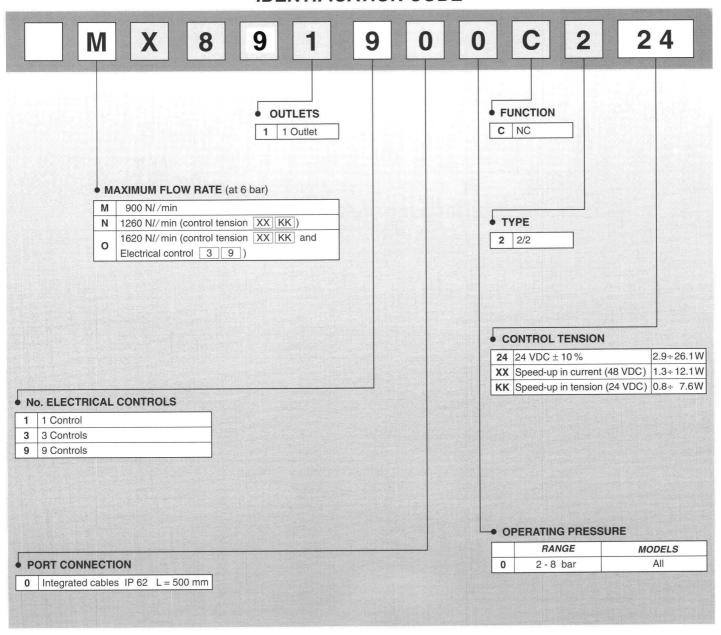
COLOUR	1 CONTROL	3 CONTROLS	9 CONTROLS
BLACK	COMMON	COMMON	COMMON
BROWN		1-2-9	1
RED	1 → 9	3-4-5	2
ORANGE	-	6-7-8	3
YELLOW		_	4
GREEN	_	_	5
BLUE	_	_	6
VIOLET	_	_	7
GREY		_	8
WHITE	_	_	9



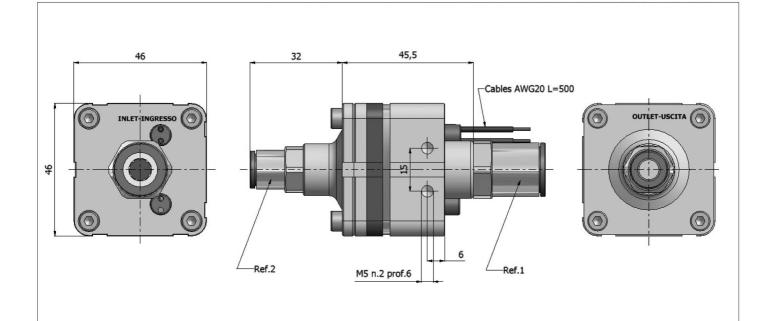




FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C		
FILTRATION RATING	Min 40 micron		
TEMPERATURE	- 10 + 50°C (Standard	version)	
RESPONSE TIME IN OPENING	24 < 5 ms	XX / KK < 1 ms	
RESPONSE TIME IN CLOSING	24 < 2 ms	XX / KK < 1 ms	
MAXIMUM FREQUENCY	200 Hz	500 Hz	
WEIGHT	260 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 62		

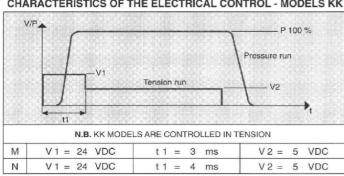


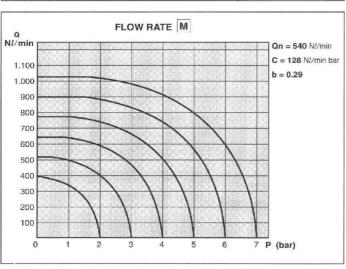


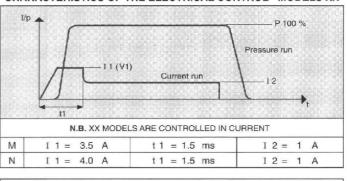


ACCESSORIES			
Reference	Quantity	Description	
1	1	Push-in fitting for D.12 tube	
2	1	Push-in fitting for D.8 tube	
Note: Inch	size available		

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



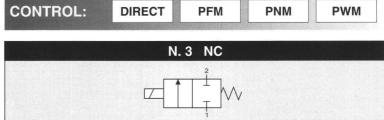




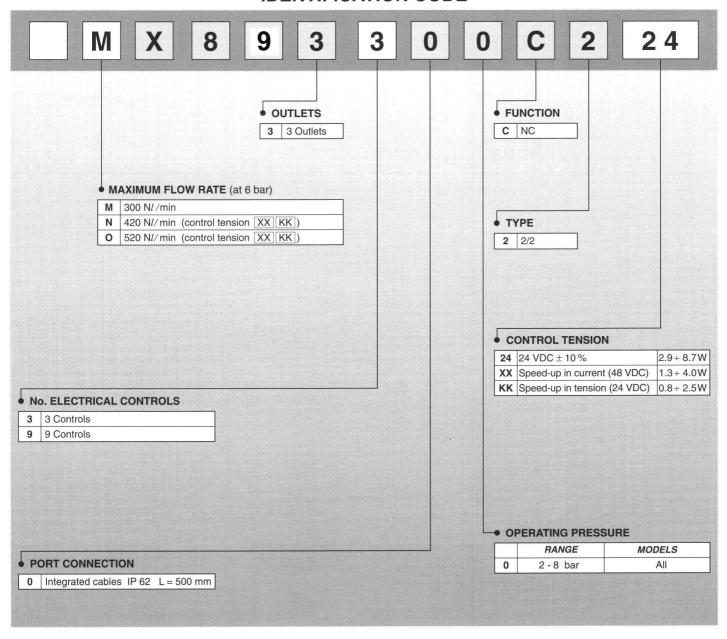
COLOUR	1 CONTROL	3 CONTROLS	9 CONTROLS
BLACK	COMMON	COMMON	COMMON
BROWN	-	1-2-9	1
RED	1 → 9	3 - 4 - 5	2
ORANGE	<u> </u>	6-7-8	3
YELLOW		_	4
GREEN	<u> </u>	_	5
BLUE		_	6
VIOLET	_	_	7
GREY	10° 9	-	8
WHITE	-	_	9



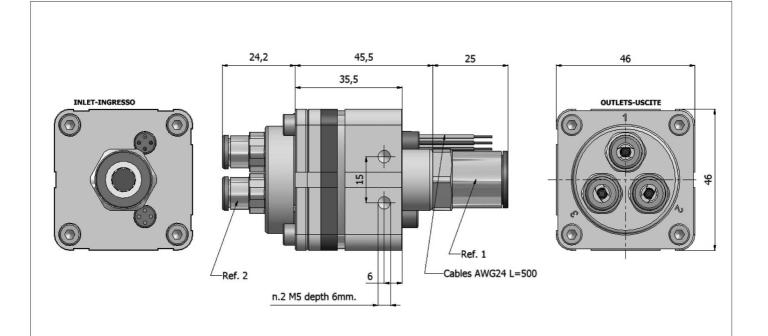




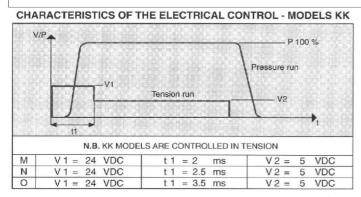
FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard version)	
RESPONSE TIME IN OPENING	24 < 5 ms	XX/KK < 1 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX/KK < 1 ms
MAXIMUM FREQUENCY	200 Hz	500 Hz
WEIGHT	250 g	
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles	
IP RATING	IP 62	



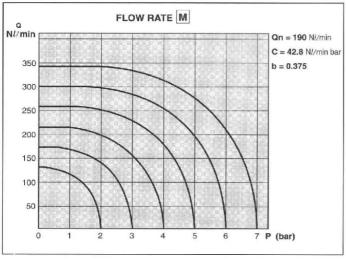




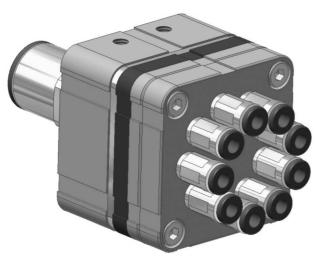
ACCESSORIES			
Reference	Quantity	Description	
1	1	Push-in fitting for D.12 tube	
2	1	Push-in fitting for D.6 tube	

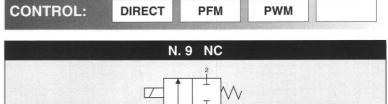


P 100 % Pressure N.B. XX MODELS ARE CONTROLLED IN CURRENT M I 1 = 1 A t 1 = 1.5 ms I 2 = 0.3 A N I 1 = 1.5 A t 1 = 1.5 ms I 2 = 0.3 A O I 1 = 2.8 A t 1 = 1.5 ms I 2 = 0.3 A

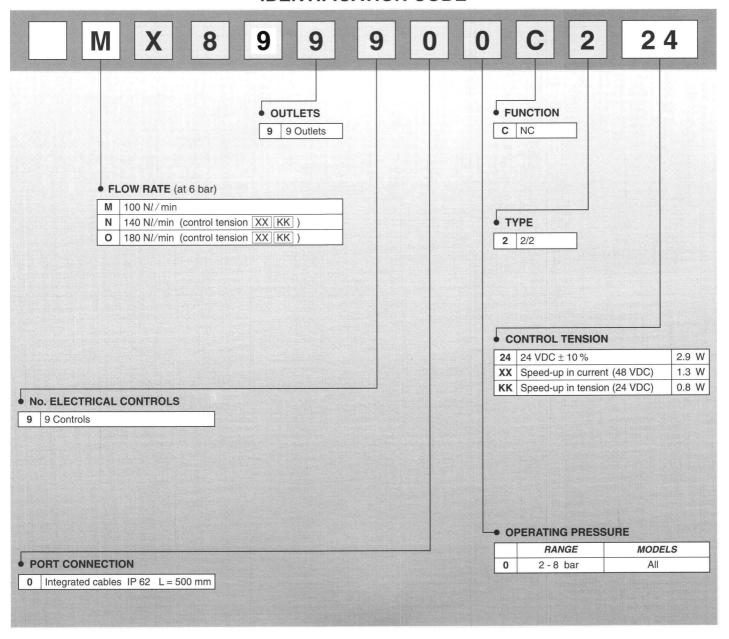


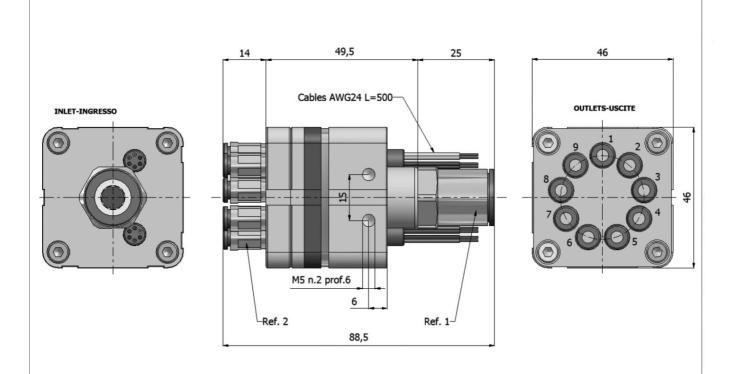
COLOUR	3 CONTROLS	9 CONTROLS (OUTLET)
BLACK	COMMON	COMMON
BROWN	1	1(1)
RED	2	2(1)
ORANGE	3	3(2)
YELLOW		4(2)
GREEN		5(2)
BLUE		6(3)
VIOLET	_	7(3)
GREY		8(3)
WHITE		9(1)





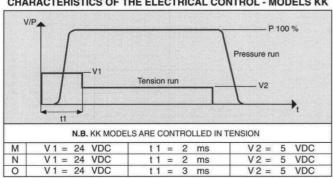
FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C		
FILTRATION RATING	Min 40 micron		
TEMPERATURE	- 10 + 50°C (Standard	version)	
RESPONSE TIME IN OPENING	24 < 5 ms	XX/KK < 1 ms	
RESPONSE TIME IN CLOSING	24 < 2 ms	XX/KK < 1 ms	
MAXIMUM FREQUENCY	200 Hz	500 Hz	
WEIGHT	210 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 62		

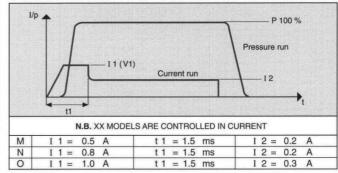


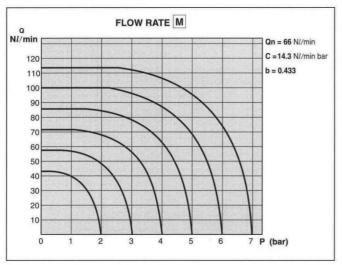


ACCESSORIES			
Reference	Quantity	Description	
1	1	Push-in fitting for D.12 tube	
2	1	Push-in fitting for D.4 tube	
Note: Inch	size available		

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK







COLOUR	9 CONTROLS
BLACK	COMMON
BROWN	1
RED	2
ORANGE	3
YELLOW	4
GREEN	5
BLUE	6
VIOLET	7
GREY	8
WHITE	9