850 Series



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



SOLENOID VALVES 850 SERIES • 2/2

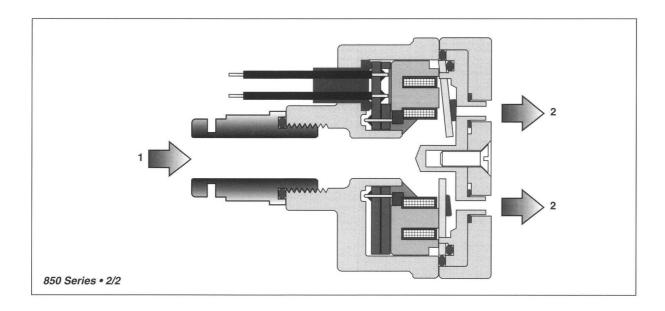
Pneumatic solenoid valves of 850 Series are of the 2/2 NC type.

Their modularity represents the innovation in this Series. Nine independent shutters with common pneumatic feed and with either separate outlets or assembled outlets in order to increment the flow rate. The response time, in milliseconds, is independent from the flow rate value, and its operative life is over 500 millions cycles.

The Series is fit for step change the flow rate (till nine steps in single outlet version), transforming a simple 2/2 into a solenoid valve, having a proportional flow rate and absolute repeatability. Besides, by combining different control techniques (for example, PWN and PNM) the flow rate may vary in linearity. Due to the availability of controls of speed-up type, dynamic features are even more improved.

Consequently, the response time for standard solenoid valves with 24 VDC control results below 5 ms in opening and below 2 ms in closing, while the maximum operating frequency is 200 Hz. The response time for solenoid valve with speed-up control, both in opening and in closing, is below 1 ms, with a maximum operating frequency of 500 Hz.

Besides high speed features, solenoid valves of 850 Series present flow rate values to 1620 ℓ /minute (ANR), with a supply pressure from 2 to 8 bar.



Advantages

- · Compact dimension.
- · High duct diameter and flow rate.
- · Short response times.
- Insensitivity to frequency work and to vibration.
- · Low absorbed power.
- · Precision, repetitiveness and flexibility.
- · Long operating life.

Application

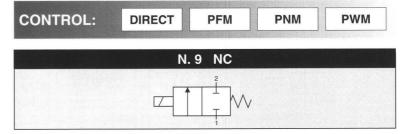
- Pressure and flow rate control devices.
- · Positioning systems.
- · Selection systems.
- · Metering systems.
- · Biomedical sector.
- · Actuator speed control.

Materials

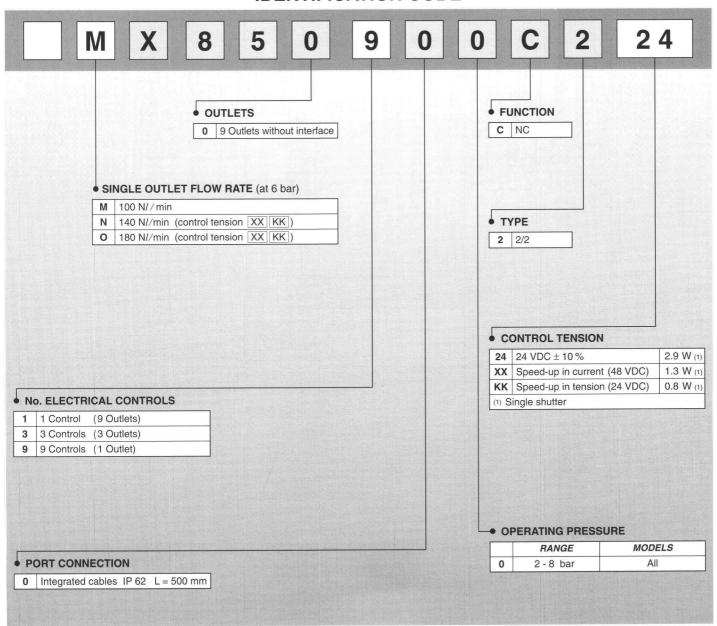
- · Body and flanges in Al.
- · Seals in NBR.

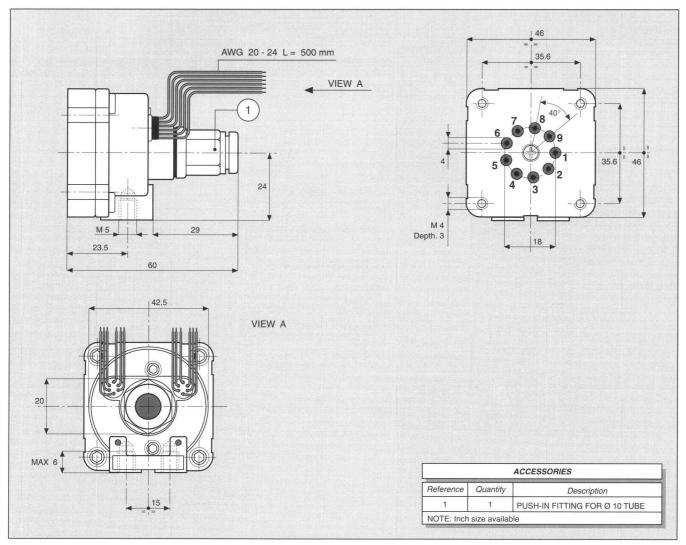


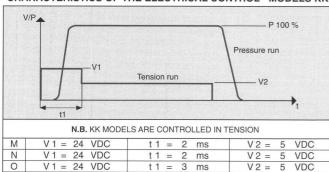


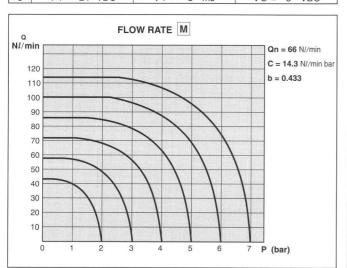


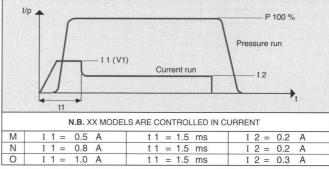
FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C)	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard)	version)
RESPONSE TIME IN OPENING	24 < 5 ms	XX/KK < 1 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX / KK < 1 ms
MAXIMUM FREQUENCY	200 Hz	500 Hz
WEIGHT	160 g	
PRODUCT LIFE EXPECTANCY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





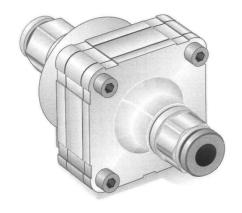


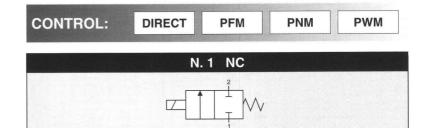




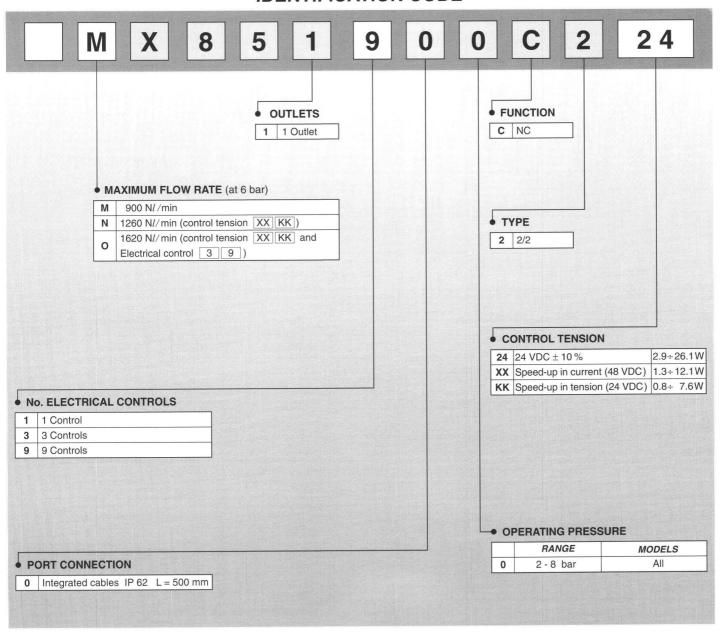
ELEC	ELECTRICAL PORT CONNECTION		
COLOUR	1 CONTROL	3 CONTROLS	9 CONTROLS
BLACK	COMMON	COMMON	COMMON
BROWN	_	1-2-9	1
RED	1 → 9	3 - 4 - 5	2
ORANGE		6 - 7 - 8	3
YELLOW	_	_	4
GREEN	-	_	5
BLUE	_	_	6
VIOLET		_	7
GREY		_	8
WHITE	_	_	9

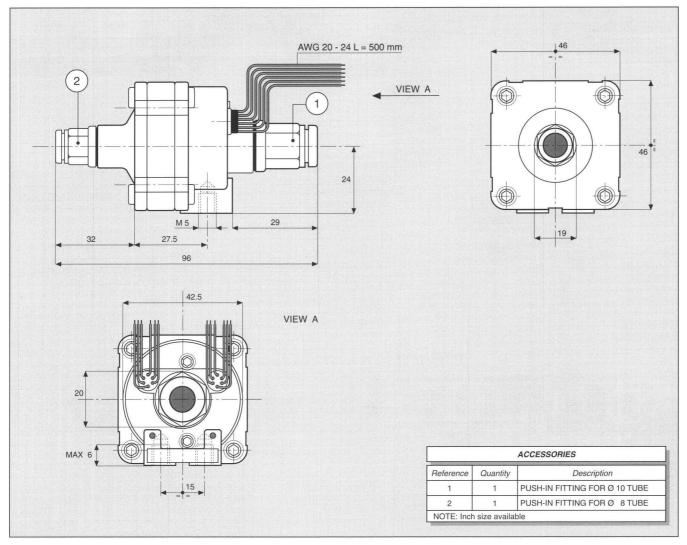


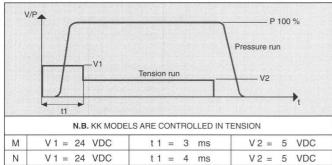


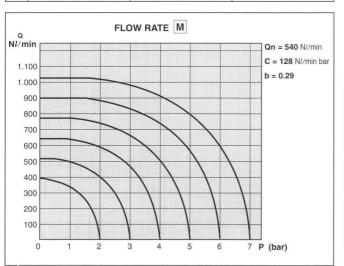


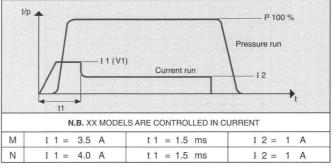
FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C)	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard	version)
RESPONSE TIME IN OPENING	24 < 5 ms	XX/KK < 1 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX/KK < 1 ms
MAXIMUM FREQUENCY	200 Hz	500 Hz
WEIGHT	260 g	
PRODUCT LIFE EXPECTANCY	≥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





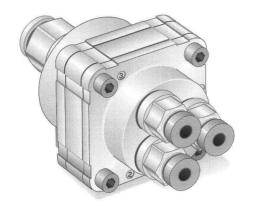


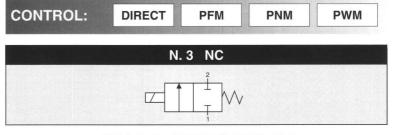




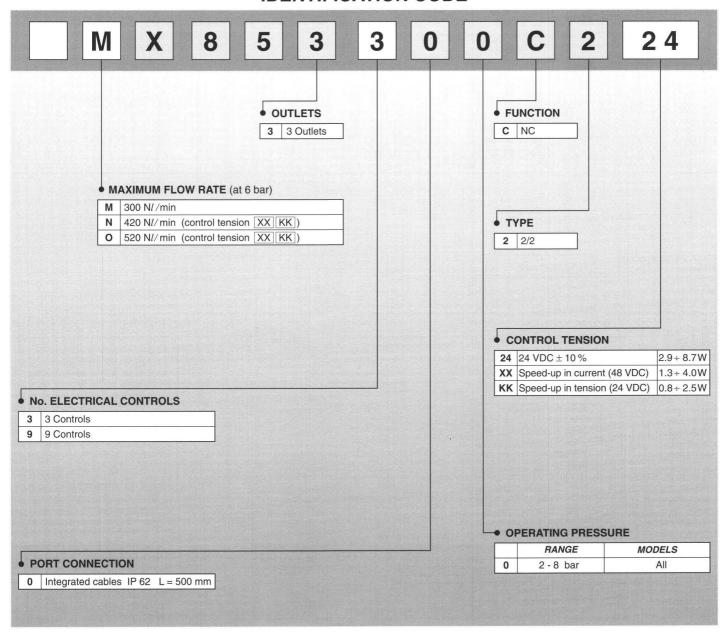
ELEC.	ELECTRICAL PORT CONNECTION		
COLOUR	1 CONTROL	3 CONTROLS	9 CONTROLS
BLACK	COMMON	COMMON	COMMON
BROWN		1 - 2 - 9	1
RED	1 → 9	3 - 4 - 5	2
ORANGE	_	6-7-8	3
YELLOW	_	_	4
GREEN		-	5
BLUE		_	6
VIOLET		_	7
GREY	_	_	8
WHITE	_	_	9

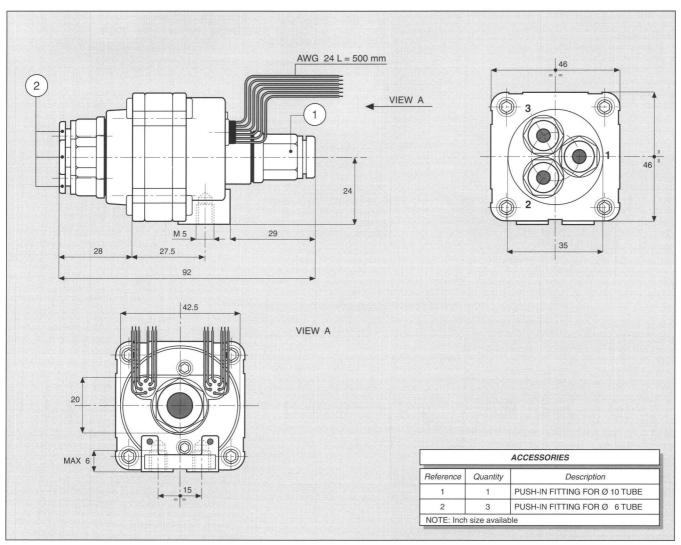


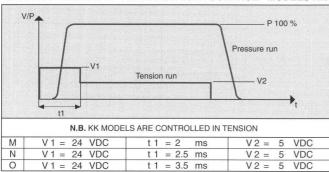


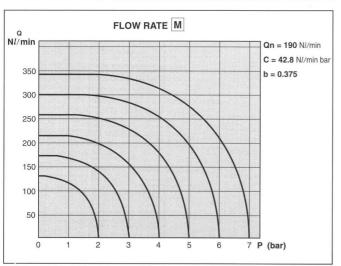


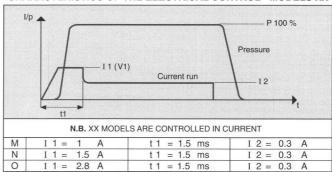
FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C)	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard)	version)
RESPONSE TIME IN OPENING	24 < 5 ms	XX / KK < 1 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX / KK < 1 ms
MAXIMUM FREQUENCY	200 Hz	500 Hz
WEIGHT	250 g	
PRODUCT LIFE EXPECTANCY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







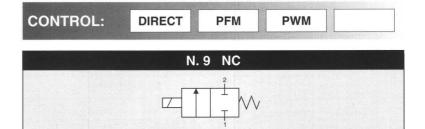




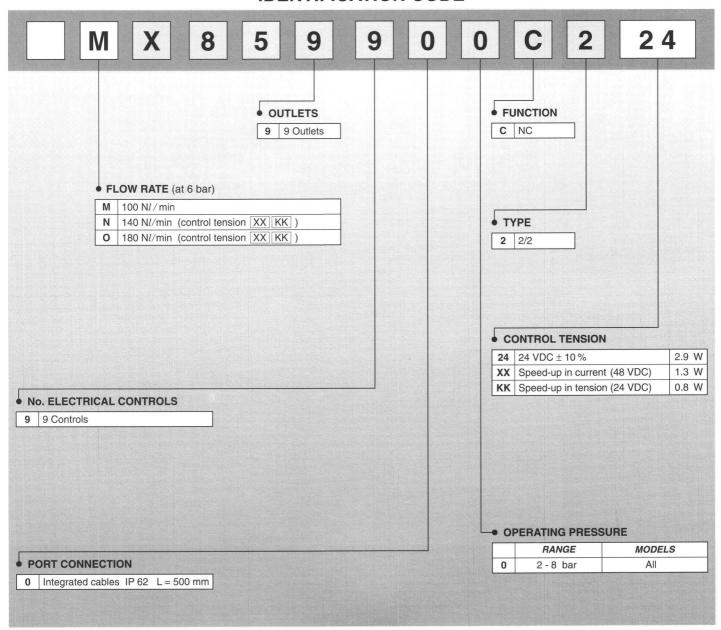
COLOUR	3 CONTROLS	9 CONTROLS (OUTLET)
BLACK	COMMON	COMMON
BROWN	1	1(1)
RED	2	2(1)
ORANGE	3	3(2)
YELLOW	_	4(2)
GREEN	_	5(2)
BLUE	_	6(3)
VIOLET	_	7(3)
GREY	_	8(3)
WHITE		9(1)

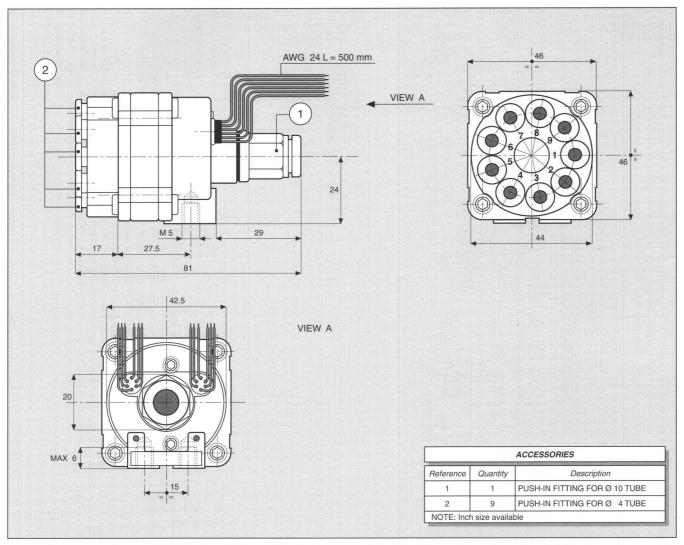


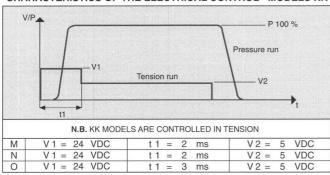


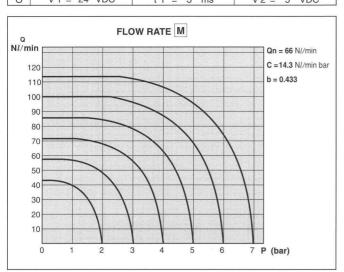


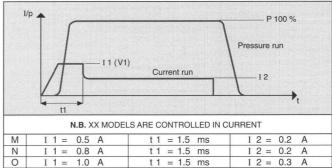
FLUID	Non-lubricated dry air, n	eutral gases (-10 + 50°C)
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard)	version)
RESPONSE TIME IN OPENING	24 < 5 ms	XX/KK < 1 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX/KK < 1 ms
MAXIMUM FREQUENCY	200 Hz	500 Hz
WEIGHT	210 g	
PRODUCT LIFE EXPECTANCY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











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