# **SOLENOID VALVES 750 SERIES • 3/3**

750 Series 3/3 presents a small-sized single body with four utilities, assuming, according to the different models, the following configurations:

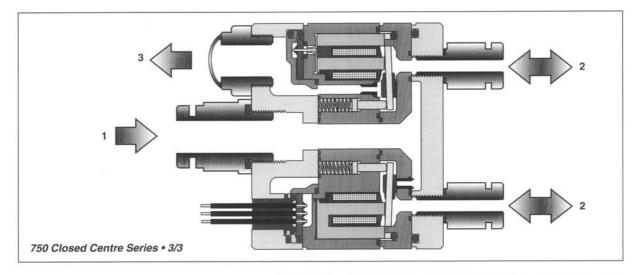
- NC outlet NO air drain port (function code: 'C' Exhaust center)
  This configuration allows feeding separately four pneumatic rooms and their corresponding automatic air drain port in absence of electric control.
- NC outlet NC air drain port (function code: 'D' Closed center)
  This configuration allows separately feeding four pneumatic rooms and maintaining the pressure level in absence of electric control.
- Outlet NO NC air drain port (function code 'A' Pressure center)
  This configuration allows separately feeding four pneumatic rooms and assures the continuous supply (feeding) in electric control absence.

In the present model, all the innovations offered by Matrix technology, this combines special dynamic performance to the simplicity and reliability of manufacture, are present. Response times are of millisecond range, while operation life is over 500 million cycles.

With a speed-up kind control, dynamic characteristics are even more improved. Standard 24 VDC control solenoid valves have a response time lower than 5 ms in opening and than 2 ms in closing, with a maximum operation frequency 200 Hz. Speed-up control solenoid valves have a response time lower than 2 ms both in opening and in closing, with a maximum operation frequency of 300 Hz.

Besides high-speed characteristics, 750 Series solenoid valves offer flow rate values up to 100  $\ell$ /minute (ANR) for every single outlet, with feeding pressure from 0 to 4 bar.

For 750 closed centres series, a lot of accessories is available, such as IP 52 or IP 56 connectors, manifolds with different positions and speed-up driver boards.



#### **Advantages**

- · Compact dimension.
- · Short response times.
- · Insensitivity both to frequency work and to vibrations.
- · Low absorbed power.
- · Precision, repetitiveness and flexibility.
- · Long operating life.

#### **Applications**

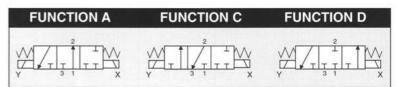
- · Process and precision instrumentation.
- · Biomedical equipment.
- · Pressure-therapy systems.
- · Positioning systems.

#### **Materials**

- · Body in PPS.
- Flanges in Al.
- Seals in NBR (shutters in HNBR if required).



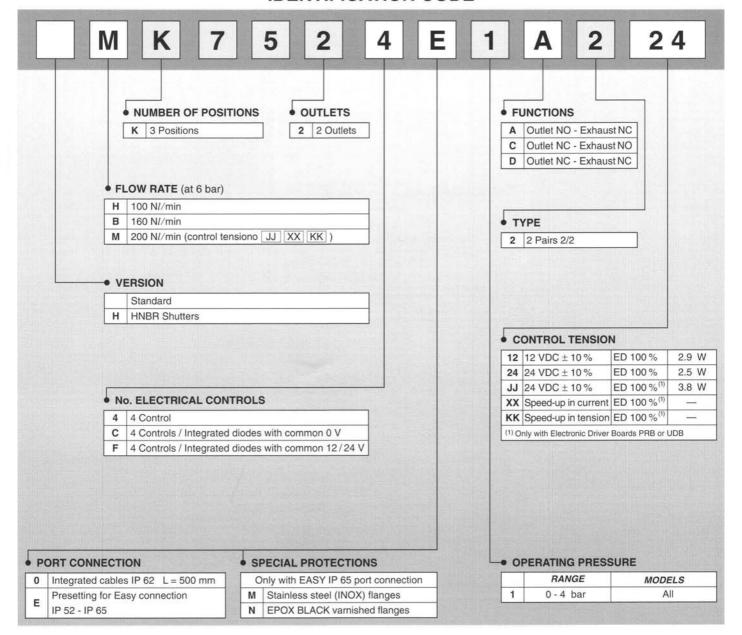
CONTROL:	DIRECT	PFM	PNM	PWM

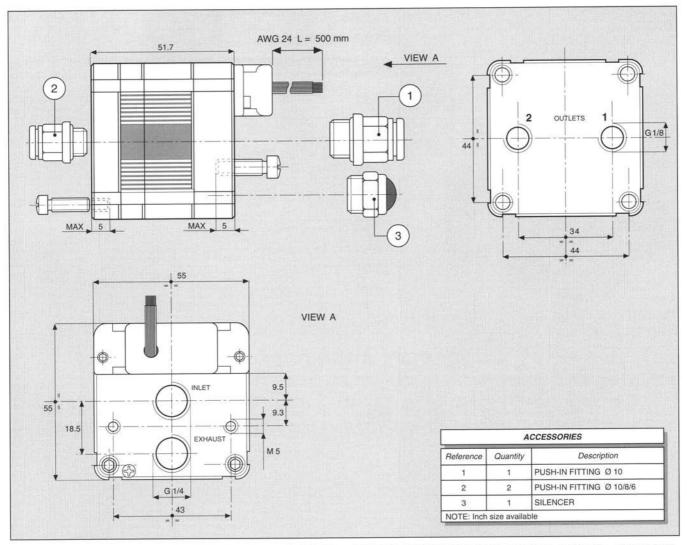


### **GENERAL CHARACTERISTICS**

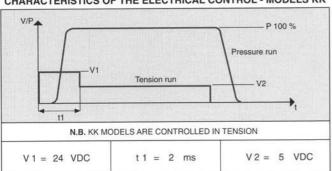
FLUID	Non-lubricated di	ry air, neutral ga	ases (-10 + 50°C)
FILTRATION RATING	Min 40 micron		
TEMPERATURE	- 10 + 50°C (Sta	ndard version)	
RESPONSE TIME IN OPENING	12 / 24 < 7 ms	JJ < 5 ms	XX/KK < 2 ms
RESPONSE TIME IN CLOSING	12 / 24 < 3 ms	JJ < 2 ms	XX/KK < 2 ms
MAXIMUM FREQUENCY	100 Hz	200 Hz	300 Hz
WEIGHT	340 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles	S	
IP RATING	IP 52 - IP 62 - IP 65		

## IDENTIFICATION CODE

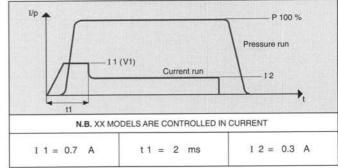


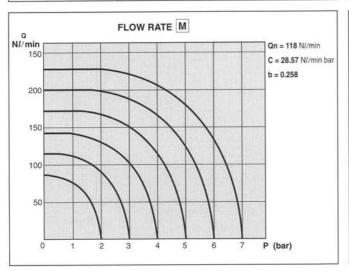


## CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



# CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX





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

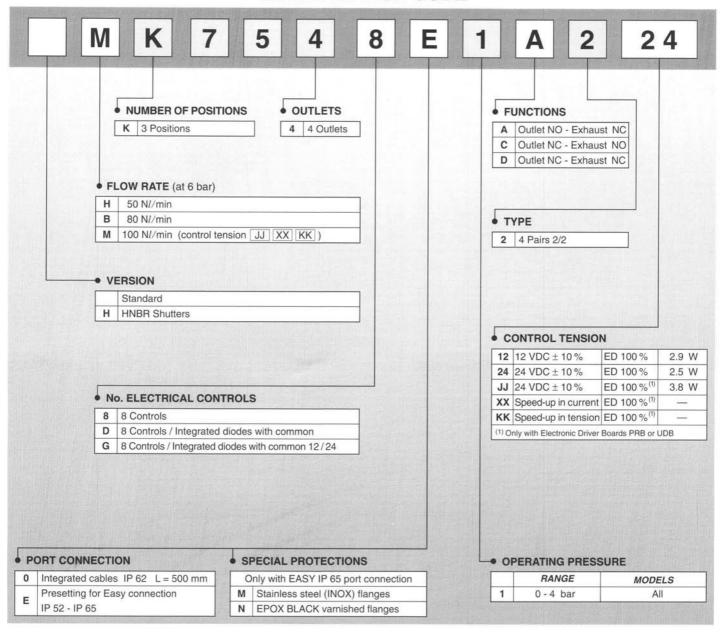


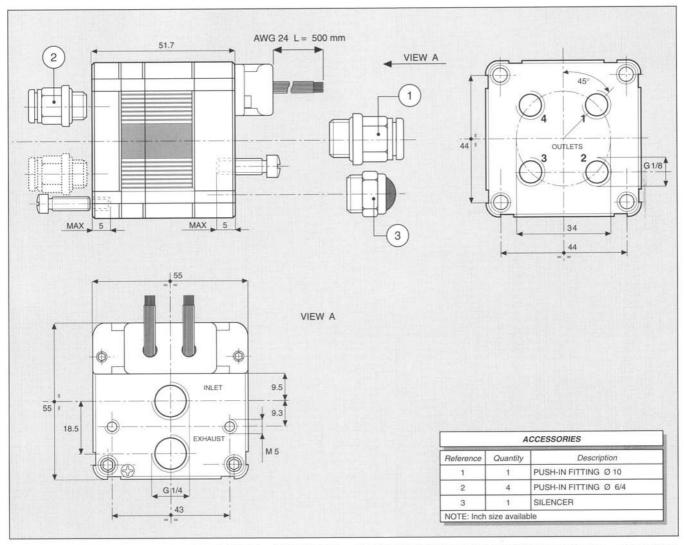


### **GENERAL CHARACTERISTICS**

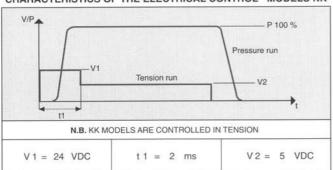
FLUID	Non-lubricated d	ry air, neutral ga	ases (-10 + 50°C)
FILTRATION RATING	Min 40 micron		
TEMPERATURE	- 10 + 50°C (Sta	ndard version)	
RESPONSE TIME IN OPENING	12 / 24 < 7 ms	JJ < 5 ms	XX/KK < 2 ms
RESPONSE TIME IN CLOSING	12 / 24 < 3 ms	JJ < 2 ms	XX / KK < 2 ms
MAXIMUM FREQUENCY	100 Hz	200 Hz	300 Hz
WEIGHT	340 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles	3	
IP RATING	IP 52 - IP 62 - IP 65		

## IDENTIFICATION CODE

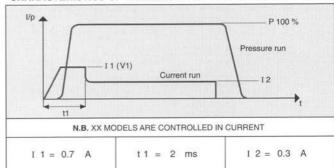


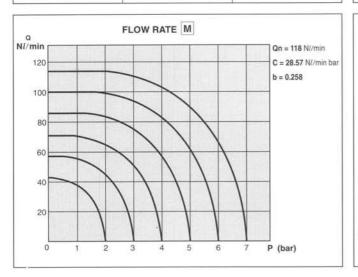


### CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



# CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX





ELECTRICAL PORT	CONNECTION
	a control c

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