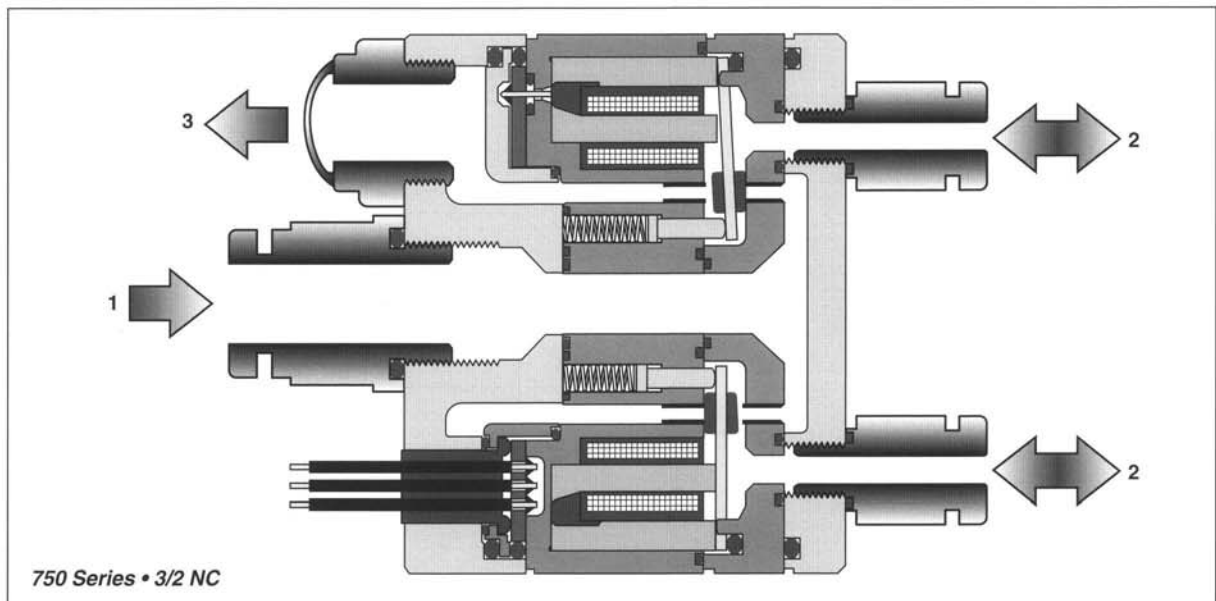


SOLENOID VALVES 750 SERIES • 2/2 • 3/2

750 Series 2/2 and 2/3 encloses in a single body eight shutters in NC or NO configuration. The series modularity allows to have at disposal a single outlet or 2, 4, 8 independent outlets. All innovations offered by Matrix technology are present. Said characteristics couple manufacturing simplicity and ability of dynamic high-performances. Response times are of millisecond range, while operation life is over 500 million cycles. The Series includes the Vacuum versions designed for uses with vacuum technique. Due to the facility to be speed-up controlled, dynamic characteristics are even more improved: standard solenoid valves equipped with 24 VDC control present response times lower than 5 ms in opening and 2 ms in closing, with a maximum operation frequency 200 Hz. On the contrary, solenoid valves equipped with speed-up control present a response time both in opening and closing lower than 2 ms, with a maximum operation frequency 300 Hz.

Besides high-speed characteristics, solenoid valves 720 Series offer flow rate value to 100ℓ/minute (ANR), with supply pressure from 0 to 8 bar.

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



Advantages

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

Applications

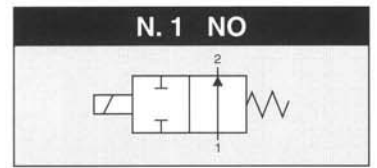
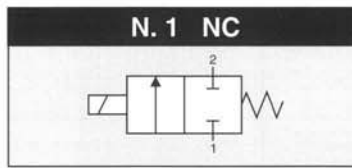
- Process and precision instrumentation.
- Pressure and flow rate control devices.
- Positioning systems.
- Pilot system.
- Selection systems.
- Metering systems.
- Biomedical and measure sector.

Materials

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



CONTROL: **DIRECT** **PFM** **PNM** **PWM**



GENERAL CHARACTERISTICS

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	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	380 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 52 - IP 62 - IP 65		

IDENTIFICATION CODE

	H	X	7	5	1	1	0	2	C	2	24
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OUTLETS

1	1 Outlet
---	----------

FLOW RATE (at 6 bar)

H	420 Nl/min
B	600 Nl/min
M	700 Nl/min (control tension JJ XX KK)

VERSION

	Standard
H	HNBR Shutters

No. ELECTRICAL CONTROLS

1	1 Control
2	2 Controls
4	4 Controls
8	8 Controls
C	4 Controls / Integrated diodes with common 0 V
D	8 Controls / Integrated diodes with common 0 V
F	4 Controls / Integrated diodes with common 12/24 V
G	8 Controls / Integrated diodes with common 12/24 V

PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection Easy IP 52 - IP 65 (only 4 and 8 controls)

SPECIAL PROTECTIONS

	Only with EASY IP 65 port connection
M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

FUNCTION

A	NO
C	NC

TYPE

2	2/2
---	-----

CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	1.4 ± 11.6W
24	24 VDC ± 10 %	ED 100 %	1.2 ± 10.0W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	1.9 ± 15.2W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

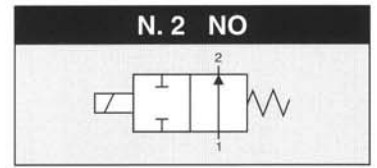
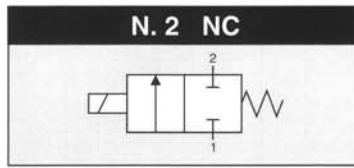
(1) Only with Electronic Driver Boards PRB or UDB

OPERATING PRESSURE

	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



CONTROL: **DIRECT** **PFM** **PNM** **PWM**



GENERAL CHARACTERISTICS

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	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	330 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 52 - IP 62 - IP 65		

IDENTIFICATION CODE

	H	X	7	5	2	2	0	2	C	2	24
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OUTLETS

2	2 Outlets
---	-----------

FLOW RATE (at 6 bar)

H	200 Nl/min
B	310 Nl/min
M	360 Nl/min (control tension JJ XX KK)

VERSION

	Standard
H	HNBR Shutters

No. ELECTRICAL CONTROLS

2	2 Controls
4	4 Controls
8	8 Controls
C	4 Controls / Integrated diodes with common 0 V
D	8 Controls / Integrated diodes with common 0 V
F	4 Controls / Integrated diodes with common 12 / 24 V
G	8 Controls / Integrated diodes with common 12 / 24 V

PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection IP 52 - IP 65 (only 4 and 8 controls)

SPECIAL PROTECTIONS

	Only with EASY IP 65 port connection
M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

FUNCTION

A	NO
C	NC

TYPE

2	2/2
---	-----

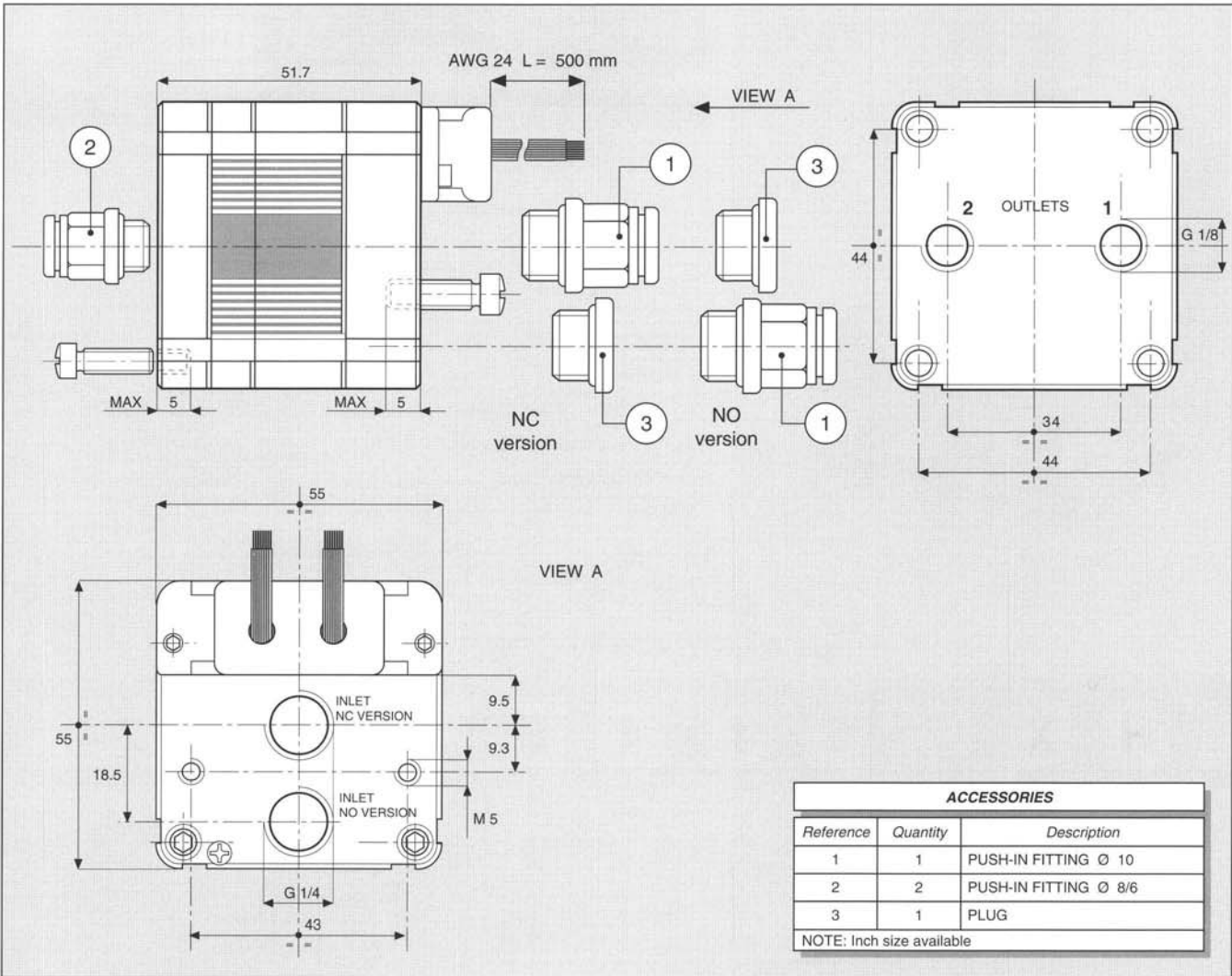
CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	1.4 ÷ 5.8 W
24	24 VDC ± 10 %	ED 100 %	1.2 ÷ 5.0 W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	1.9 ÷ 7.6 W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

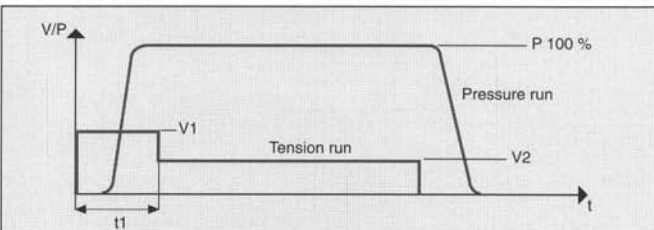
(1) Only with Electronic Driver Boards PRB or UDB

OPERATING PRESSURE

	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



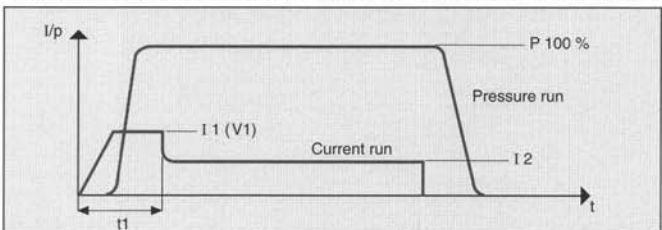
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



N.B. KK MODELS ARE CONTROLLED IN TENSION

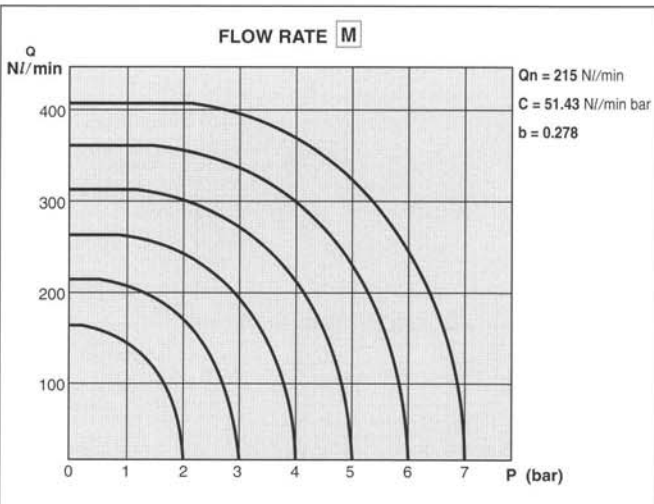
V 1 = 24 VDC t 1 = 2 ms V 2 = 5 VDC

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX



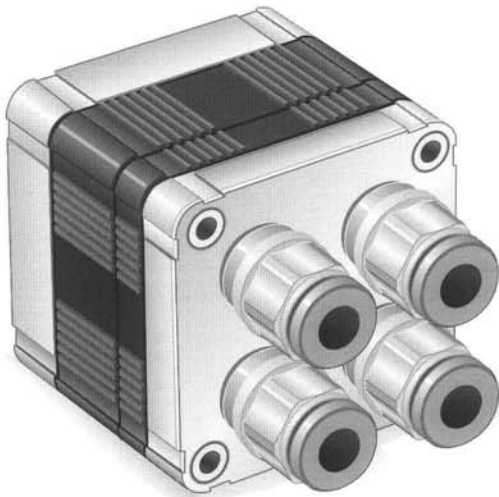
N.B. XX MODELS ARE CONTROLLED IN CURRENT

I 1 = 2.8 A t 1 = 2 ms I 2 = 1.2 A



ELECTRICAL PORT CONNECTION

COLOUR	2 CONTROLS (SINGLE CABLES)	2 CONTROLS EASY CONNECTION IP 52	4 CONTROLS (OUTLET)	8 CONTROLS (OUTLET)
BLACK	COMMON	COMMON	COMMON	COMMON
BROWN	1	1	1 (1)	1 (1)
RED	2	—	2 (1)	2 (1)
ORANGE	—	2	3 (2)	3 (1)
YELLOW	—	—	4 (2)	4 (1)
GREEN	—	—	—	5 (2)
BLUE	—	—	—	6 (2)
VIOLET	—	—	—	7 (2)
GREY	—	—	—	8 (2)



CONTROL:

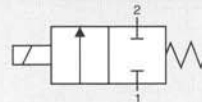
DIRECT

PFM

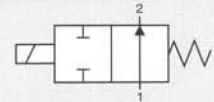
PNM

PWM

N. 4 NC



N. 4 NO



GENERAL CHARACTERISTICS

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	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		
IP RATING	IP 52 - IP 62 - IP 65		

IDENTIFICATION CODE

	H	X	7	5	4	4	E	2	C	2	24
--	---	---	---	---	---	---	---	---	---	---	----

OUTLETS

4	4 Outlets
---	-----------

FLOW RATE (at 6 bar)

H	100 Nl/min
B	160 Nl/min
M	200 Nl/min (control tension JJ XX KK)

VERSION

	Standard
H	HNBR Shutters

No. ELECTRICAL CONTROLS

4	4 Controls
8	8 Controls
C	4 Controls / Integrated diodes with common 0 V
D	8 Controls / Integrated diodes with common 0 V
F	4 Controls / Integrated diodes with common 12 / 24 V
G	8 Controls / Integrated diodes with common 12 / 24 V

PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection IP 52 - IP 65

SPECIAL PROTECTIONS

	Only with EASY IP 65 port connection
M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

FUNCTION

A	NO
C	NC

TYPE

2	2/2
---	-----

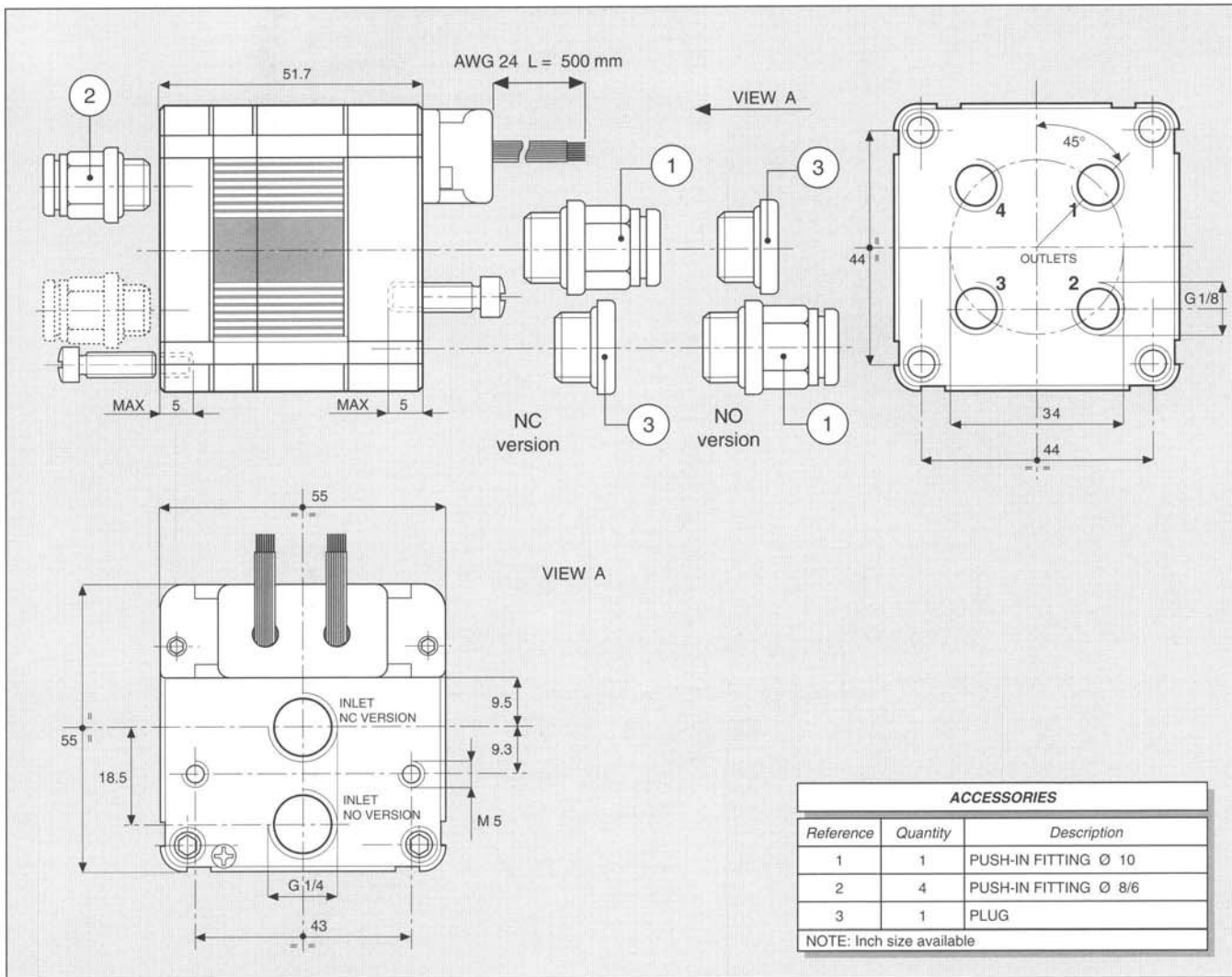
CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	1.4+2.9 W
24	24 VDC ± 10 %	ED 100 %	1.2+2.5 W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	1.9+3.8 W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

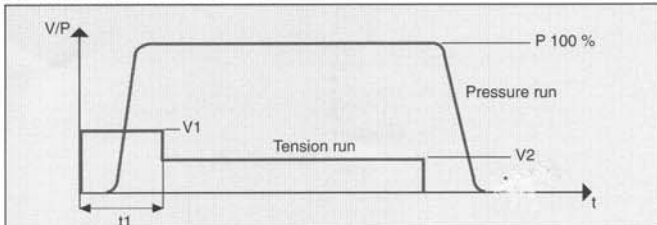
(1) Only with Electronic Driver Boards PRB or UDB

OPERATING PRESSURE

	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



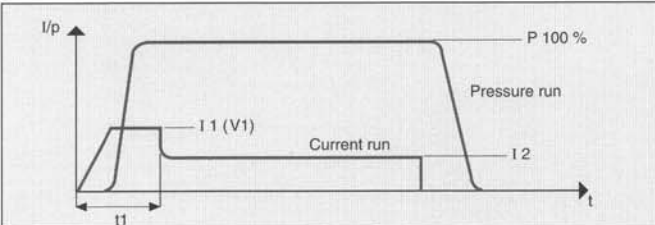
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



N.B. KK MODELS ARE CONTROLLED IN TENSION

V 1 = 24 VDC t 1 = 2 ms V 2 = 5 VDC

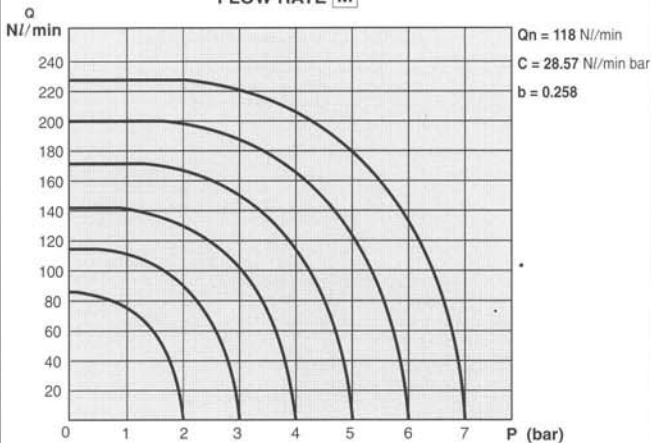
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX



N.B. XX MODELS ARE CONTROLLED IN CURRENT

I 1 = 1.4 A t 1 = 2 ms I 2 = 0.6 A

FLOW RATE M

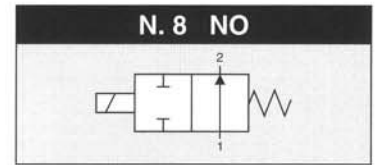
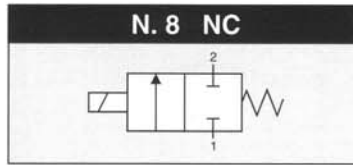


ELECTRICAL PORT CONNECTION

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



CONTROL: DIRECT PFM PWM



GENERAL CHARACTERISTICS

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	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	350 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 52 - IP 62 - IP 65		

IDENTIFICATION CODE

H X 7 5 8 8 E 2 C 2 24

• FLOW RATE (at 6 bar)

H	50 NI/min
B	80 NI/min
M	100 NI/min (control tension JJ XX KK)

• VERSION

	Standard
H	NBR Shutters

• No. ELECTRICAL CONTROLS

8	8 Controls
D	8 Controls / Integrated diodes with common 0 V
G	8 Controls / Integrated diodes with common 12/24 V

• PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection IP 52 - IP 65

• SPECIAL PROTECTIONS

	Only with EASY IP 65 port connection
M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

• OUTLETS

8	8 Outlet
---	----------

• FUNCTION

A	NO
C	NC

• TYPE

2	2/2
---	-----

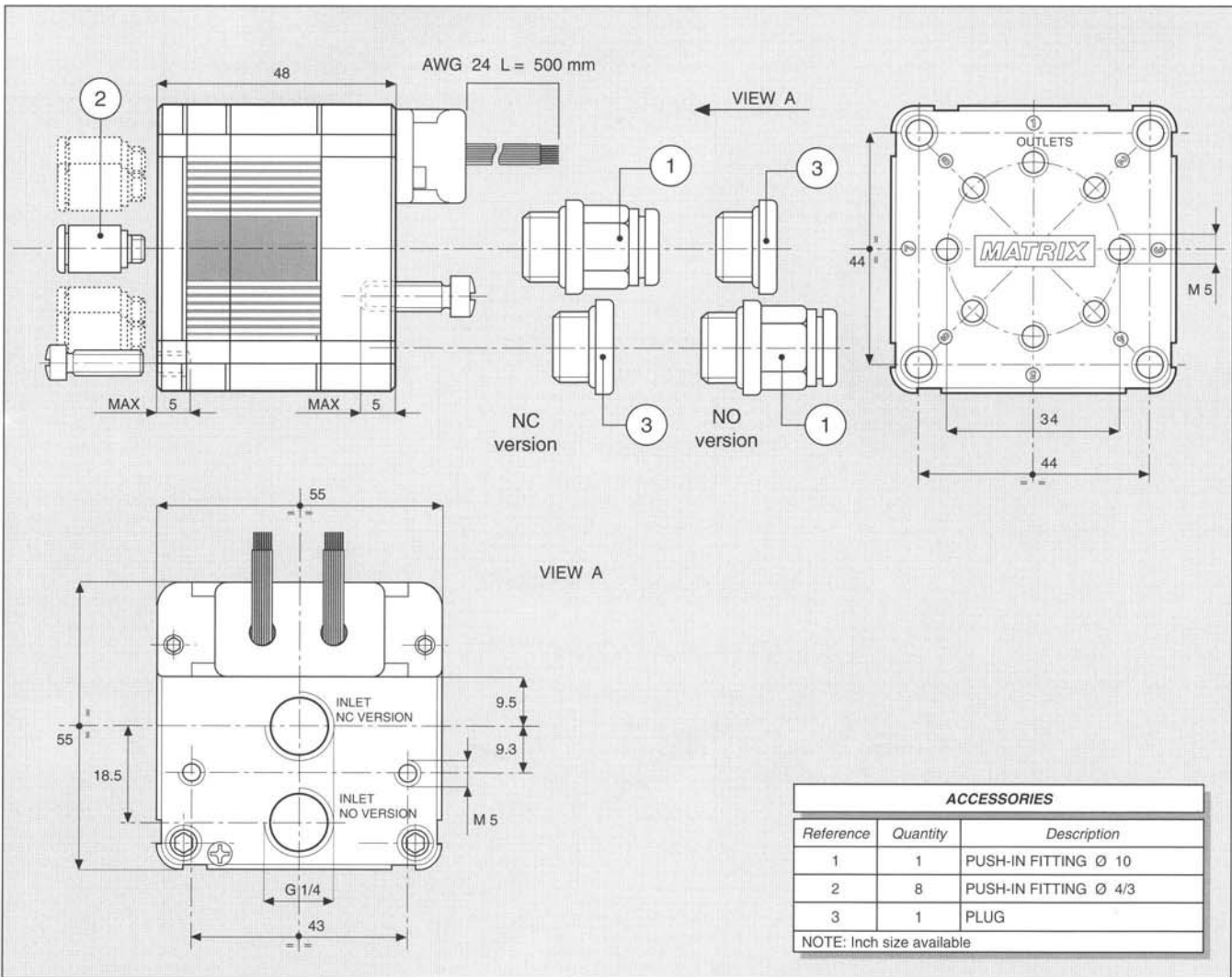
• CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	1.4 W
24	24 VDC ± 10 %	ED 100 %	1.2 W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	1.9 W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

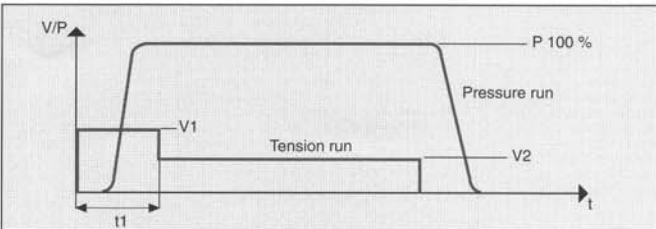
(1) Only with Electronic Driver Boards PRB or UDB

• OPERATING PRESSURE

	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



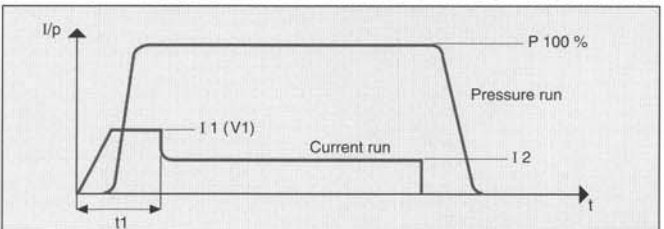
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



N.B. KK MODELS ARE CONTROLLED IN TENSION

V1 = 24 VDC t1 = 2 ms V2 = 5 VDC

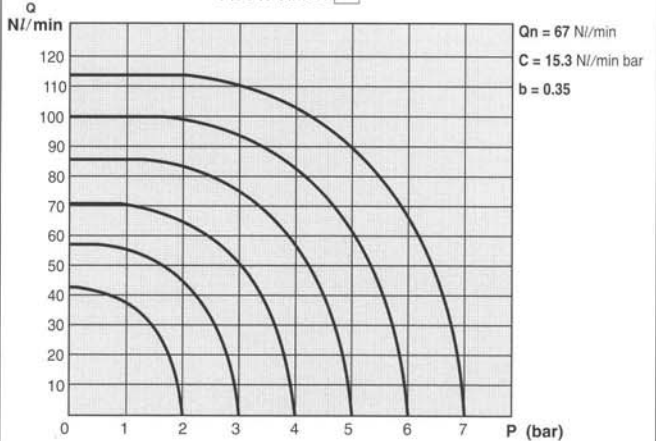
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX



N.B. XX MODELS ARE CONTROLLED IN CURRENT

I1 = 0.7 A t1 = 2 ms I2 = 0.3 A

FLOW RATE \dot{Q}

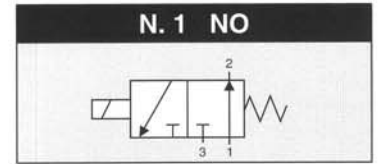
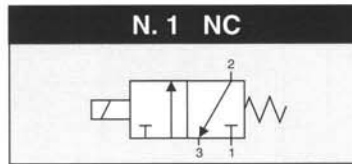


ELECTRICAL PORT CONNECTION

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



CONTROL: **DIRECT**



GENERAL CHARACTERISTICS

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	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	380 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 62		

IDENTIFICATION CODE

	H	X	7	5	1	1	0	2	C	3	24
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• FLOW RATE (at 6 bar)

H	420 Nl/min
B	600 Nl/min
M	700 Nl/min (control tension JJ XX KK)

• VERSION

	Standard
H	HNBR Shutters

• No. ELECTRICAL CONTROLS

1	1 Control
----------	-----------

• PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
----------	------------------------------------

• SPECIAL PROTECTIONS

M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

• OUTLETS

1	1 Outlet
----------	----------

• FUNCTION

A	NO
C	NC

• TYPE

3	3/2
----------	-----

• CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	11.6 W
24	24 VDC ± 10 %	ED 100 %	10.0 W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	15.2 W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

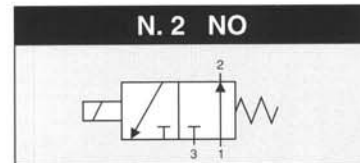
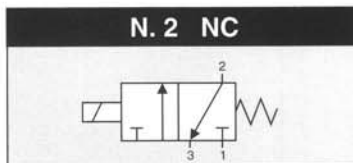
(1) Only with Electronic Driver Boards PRB or UDB

• PRESSIONE DI ESERCIZIO

	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



CONTROL: DIRECT



GENERAL CHARACTERISTICS

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	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	330 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 52 - IP 62		

IDENTIFICATION CODE

	H	X	7	5	2	2	0	2	C	3	24
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• FLOW RATE (at 6 bar)

H	200 Nl/min
B	310 Nl/min
M	360 Nl/min (control tension JJ XX KK)

• VERSION

	Standard
H	HNBR Shutters

• No. ELECTRICAL CONTROLS

2	2 Controls
---	------------

• PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection IP 52

• OUTLETS

2	2 Outlets
---	-----------

• FUNCTION

A	NO
C	NC

• TYPE

3	3/2
---	-----

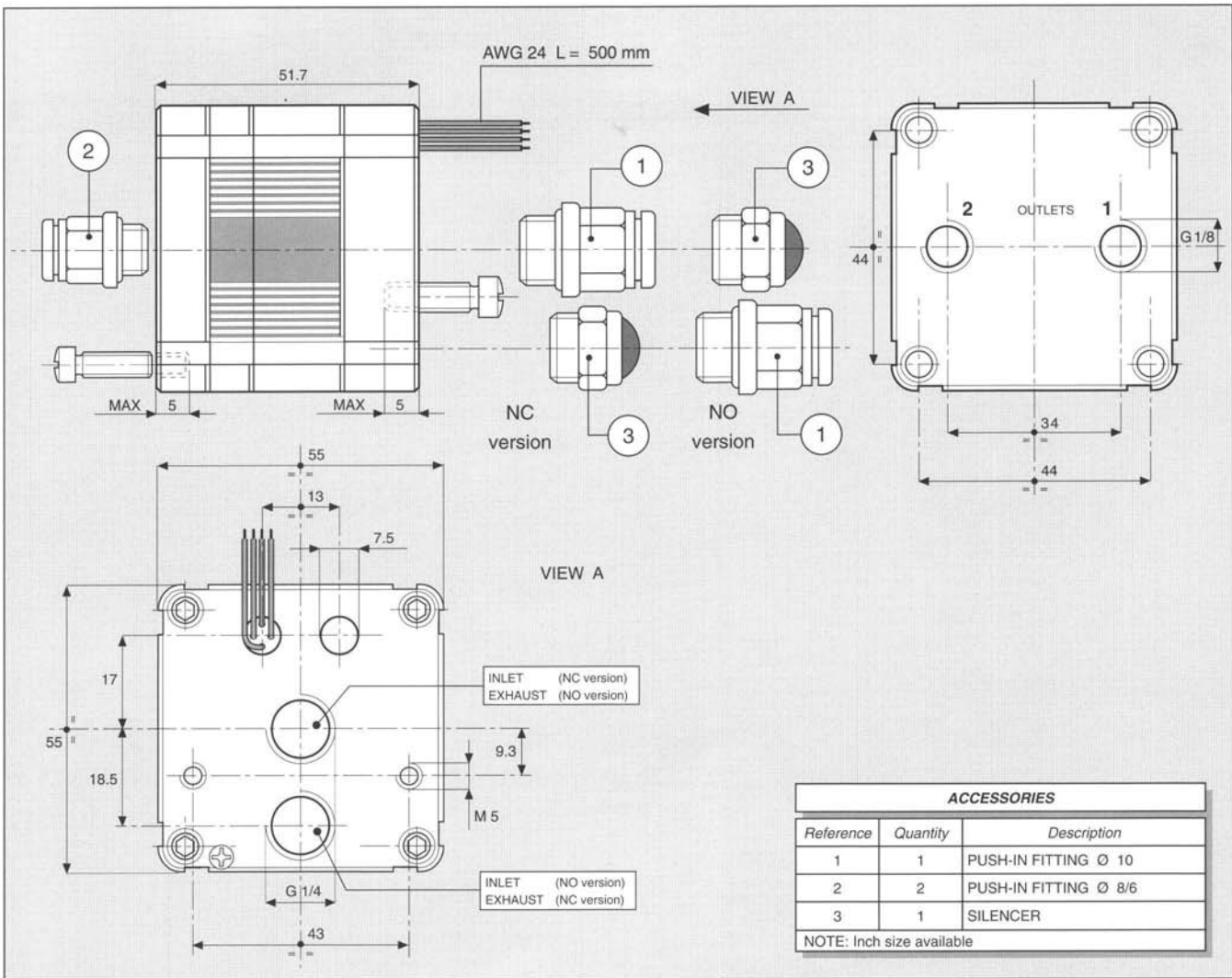
• CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	5.8 W
24	24 VDC ± 10 %	ED 100 %	5.0 W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	7.6 W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

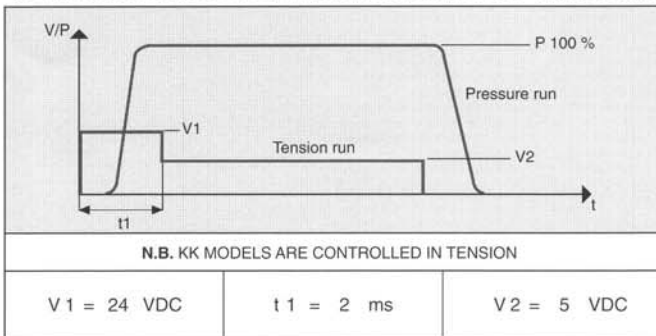
(1) Only with Electronic Driver Boards PRB or UDB

• OPERATING PRESSURE

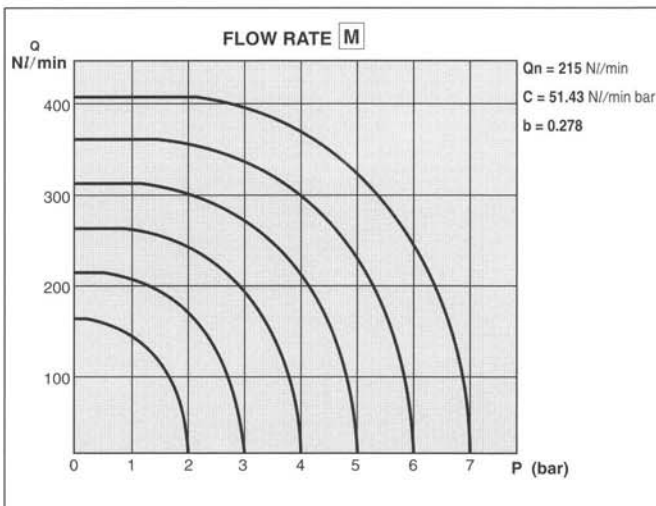
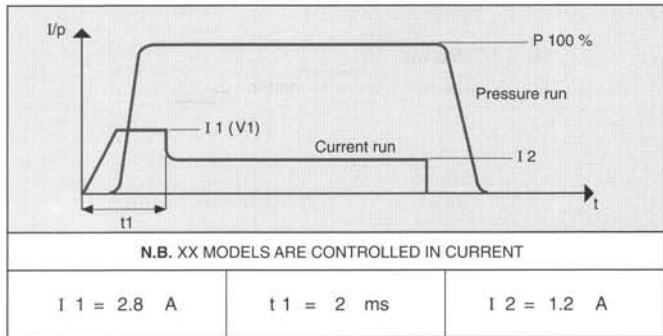
	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

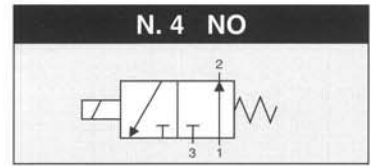
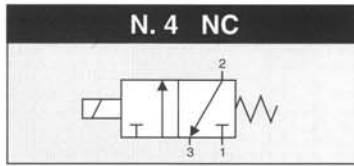


ELECTRICAL PORT CONNECTION

COLOUR	2 CONTROLS (SINGLE CABLES)	2 CONTROLS EASY CONNECTION IP 52
BLACK	COMMON	COMMON
BROWN	1	1
RED	2	—
ORANGE	—	2



CONTROL: DIRECT



GENERAL CHARACTERISTICS

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	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		
IP RATING	IP 52 - IP 62 - IP 65		

IDENTIFICATION CODE

	H	X	7	5	4	4	E	2	C	3	24
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OUTLETS

4	4 Outlet
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FLOW RATE (at 6 bar)

H	100 NI/min
B	160 NI/min
M	200 NI/min (control tension JJ XX KK)

VERSION

	Standard
H	HNBR Shutters

No. ELECTRICAL CONTROLS

4	4 Controls
C	4 Controls / Integrated diodes with common 0 V
F	4 Controls / Integrated diodes with common 12/24 V

PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection IP 52 - IP 65

SPECIAL PROTECTIONS

	Only with EASY IP 65 port connection
M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

FUNCTION

A	NO
C	NC

TYPE

3	3/2
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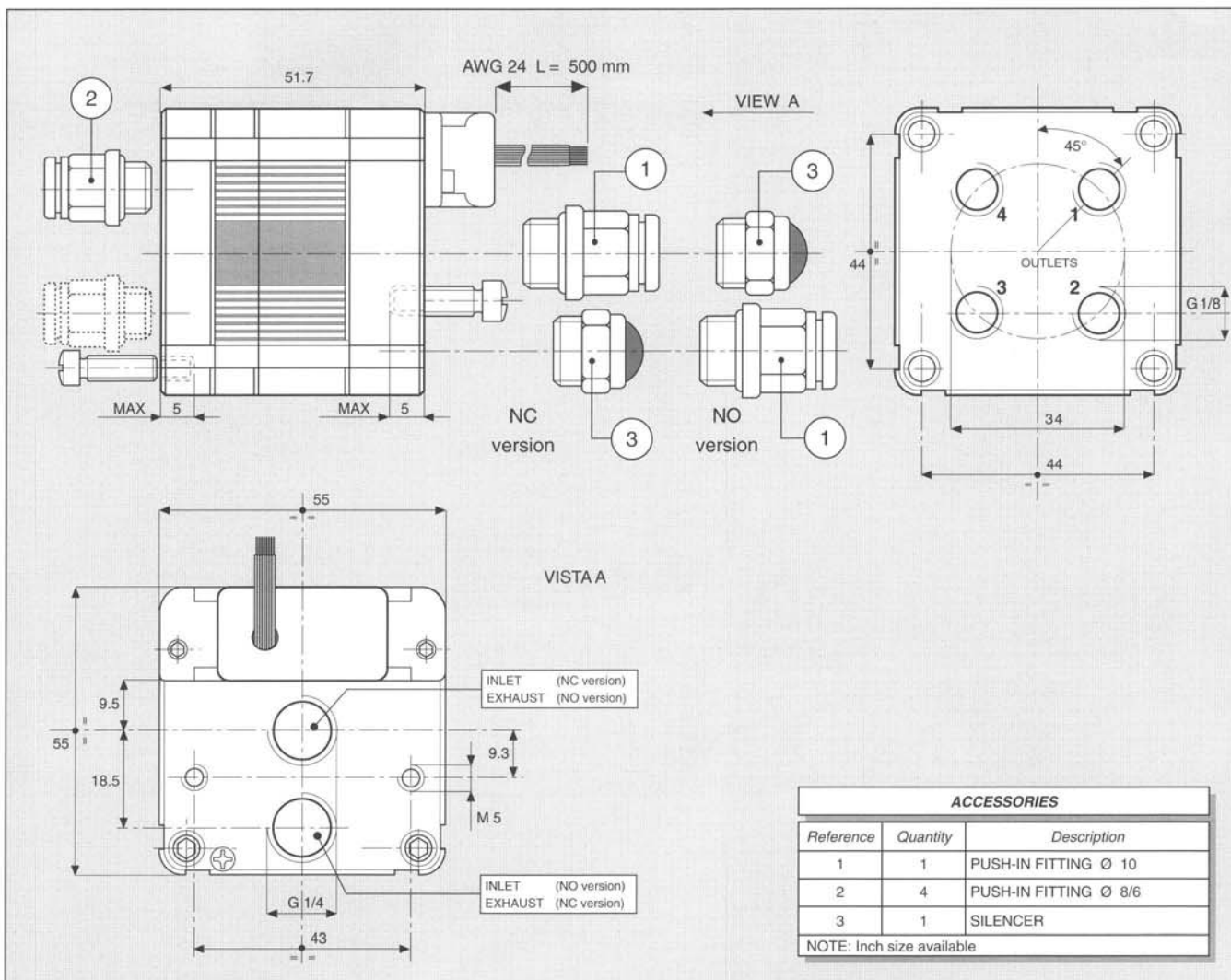
CONTROL TENSION

12	12 VDC ± 10%	ED 100%	2.9 W
24	24 VDC ± 10%	ED 100%	2.5 W
JJ	24 VDC ± 10%	ED 100% ⁽¹⁾	3.8 W
XX	Speed-up in current	ED 100% ⁽¹⁾	—
KK	Speed-up in tension	ED 100% ⁽¹⁾	—

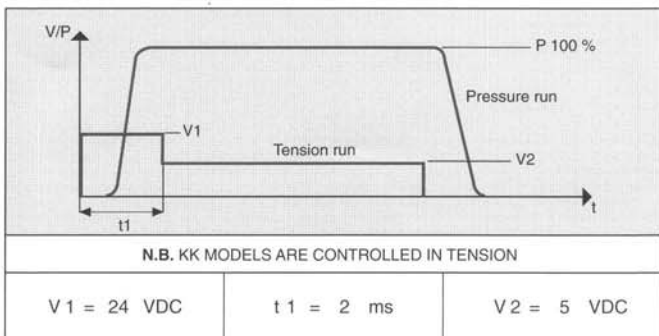
(1) Only with Electronic Driver Boards PRB or UDB

PRESSIONE DI ESERCIZIO

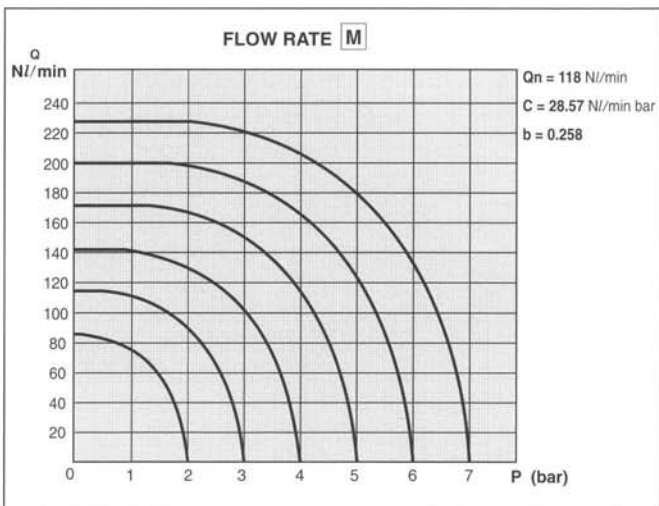
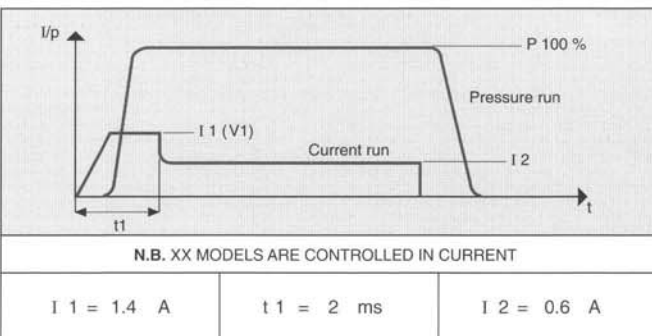
	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

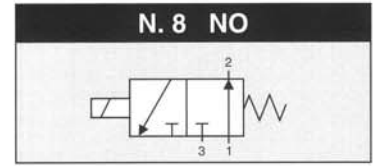
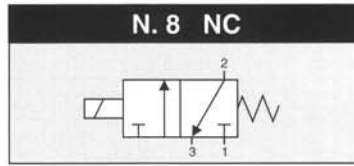


ELECTRICAL PORT CONNECTION

COLOUR	4 CONTROLS
BLACK	COMMON
BROWN	1
RED	2
ORANGE	3
YELLOW	4



CONTROL: DIRECT



GENERAL CHARACTERISTICS

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	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	350 g		
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles		
IP RATING	IP 52 - IP 62 - IP 65		

IDENTIFICATION CODE

	H	X	7	5	8	8	E	2	C	3	24
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• FLOW RATE (at 6 bar)

H	50 Nl/min
B	80 Nl/min
M	100 Nl/min (control tension JJ XX KK)

• VERSION

	Standard
H	HNBR Shutters

• No. ELECTRICAL CONTROLS

8	8 Controls
D	8 Controls / Integrated diodes with common 0 V
G	8 Controls / Integrated diodes with common 12 / 24 V

• PORT CONNECTION

0	Integrated cables IP 62 L = 500 mm
E	Presetting for Easy connection IP 52 - IP 65

• SPECIAL PROTECTIONS

	Only with EASY IP 65 port connection
M	Stainless steel (INOX) flanges
N	EPOX BLACK varnished flanges

• OUTLETS

8	8 Outlet
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• FUNCTION

A	NO
C	NC

• TYPE

3	3/2
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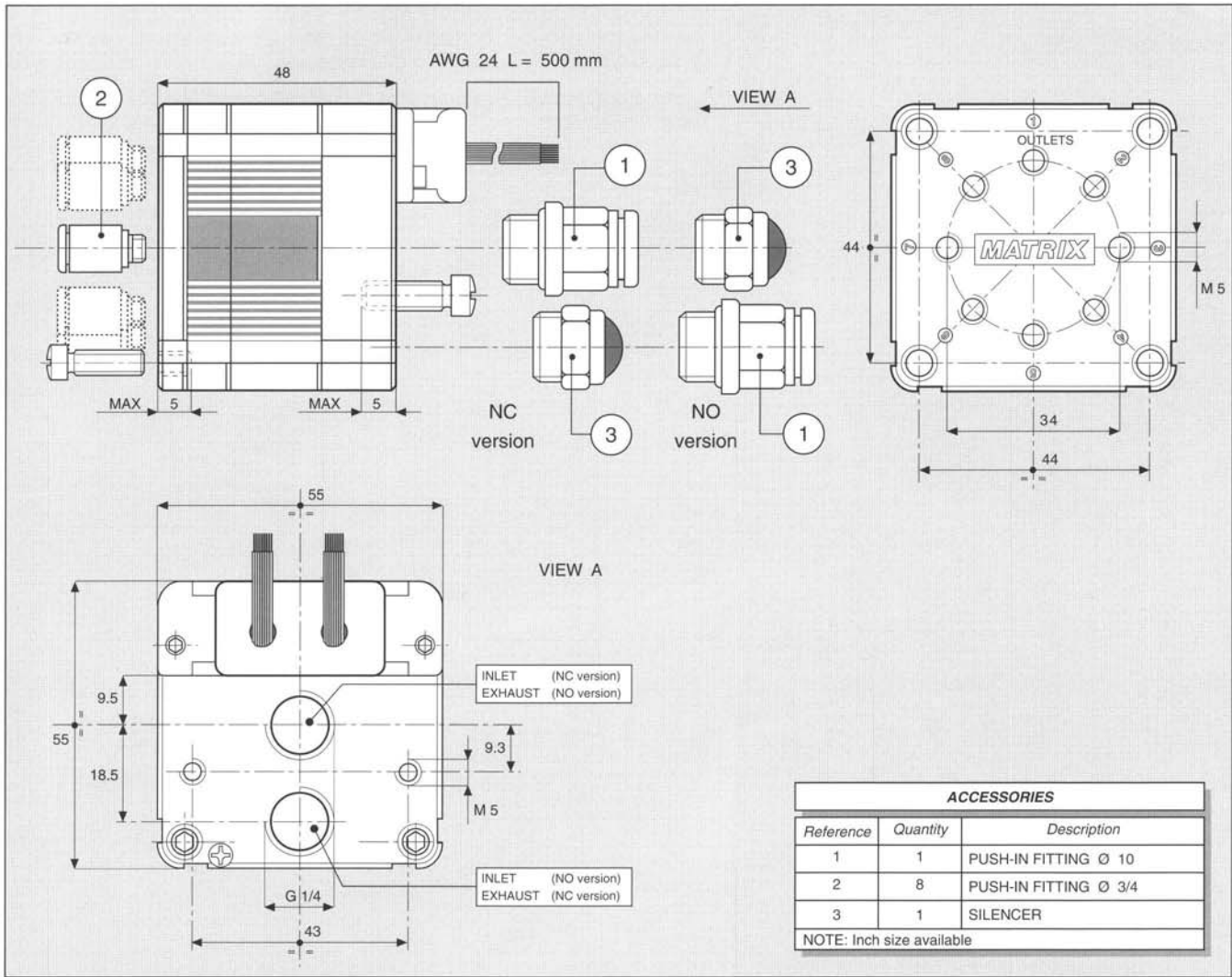
• CONTROL TENSION

12	12 VDC ± 10 %	ED 100 %	1.4 W
24	24 VDC ± 10 %	ED 100 %	1.2 W
JJ	24 VDC ± 10 %	ED 100 % ⁽¹⁾	1.9 W
XX	Speed-up in current	ED 100 % ⁽¹⁾	—
KK	Speed-up in tension	ED 100 % ⁽¹⁾	—

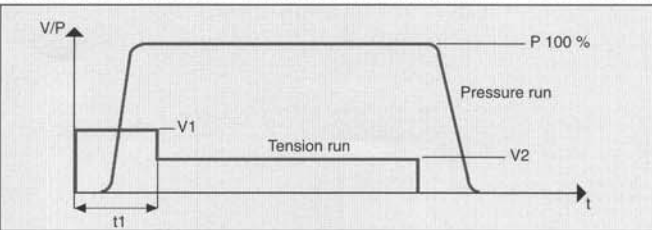
(1) Only with Electronic Driver Boards PRB or UDB

• OPERATING PRESSURE

	RANGE	MODELS
1	0 - 4 bar	All
2	4 - 8 bar	All
3	0 - 8 bar XX / KK
8	2 - 6 bar	All



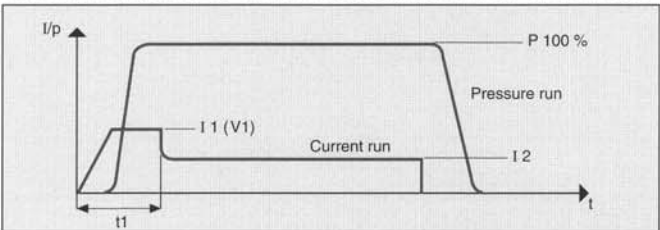
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



N.B. KK MODELS ARE CONTROLLED IN TENSION

V 1 = 24 VDC t 1 = 2 ms V 2 = 5 VDC

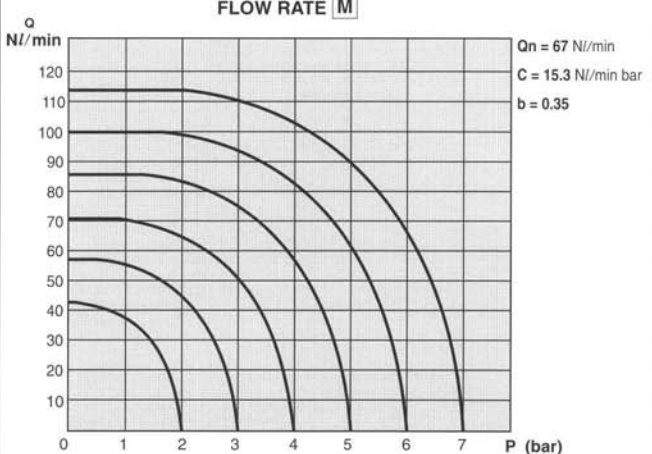
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX



N.B. XX MODELS ARE CONTROLLED IN CURRENT

I 1 = 0.7 A t 1 = 2 ms I 2 = 0.3 A

FLOW RATE \dot{Q}



ELECTRICAL PORT CONNECTION

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