EM51

For 2.5mm… 5.5mm stroke, 2VG/3VG Seat Valves

Application
Operation of seat valves in heating- cooling and air conditioning plants.

Design features
- Nominal stroke range 2.5…5.5mm.
- 3-position or 0…10V d.c. control signal.
- The stroke is adapted automatically to the valve and is over-load-proof.
- Direct assembly with union nut to the neck of the valve (no tools required).
- Manual operation by using a standard 5mm hexagonal key.
- The actuator is short-circuit-proof and protected against polarity reversal.
- Plug-in cable for supply voltage and control signal.

Technical Data
Operating voltage	See "Types and operating data"
Frequency	50/60 Hz
Power consumption	6 watt
Control signal (EM51.024)	0…10V d.c. 0.1mA
Actuating force	400N
Manual Operation	5.5mm Hexagonal Key
Running Time	Approx.121s(22s per mm)
Cable Length	140cm
Protection Degree	IP30
Permissble Ambient Condition	
- Operation	0…50 °C
- Storage	-10…80 °C
- Humidity	To EN 60730-1
Weight	360g

Ordering information
When ordering, please give quantity, designation and type code.
Example: 1pc, 3-position valve actuator, 24V.
EM51.024

Types and operating data

Types	Function	Operating voltage	Accessories
EM51.3230	3-position	86…264V a.c.	Plug-in cable
EM51.324	3-position	24V a.c. ±20%	Plug-in cable
EM51.024	0…10V d.c.	24V a.c. ±20%	Plug-in cable

Note: For information on seat valves, refer to technical data sheet, TAC/2VG.

Accessories
EM34   1.4m plug-in cable for replacement

1st Issue	3/04	Page 1	TAC/EM51

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Approvals

$C \epsilon$ Conformity to
- EMC directive   89/336/EEC,93/68/EEC
- Low voltage directive 73/23/EEC

Connection diagram

EM51.3230

Y1	1	RED	Control voltage, spindle extending
Y2	2	BLACK	Control voltage, spindle retracting
N	3	Y/G	Neutral

EM51.324

Y1	1	RED	Control voltage, spindle extending (24V a.c.)
Y2	2	BLACK	Control voltage, spindle retracting (24V a.c.)
G	3	Y/G	Neutral

EM51.024

Y	1	RED	Control signal 0...10V d.c.
G	2	BLACK	System phase (24V a.c.)
G0	3	Y/G	System neutral
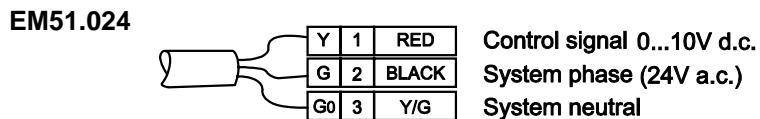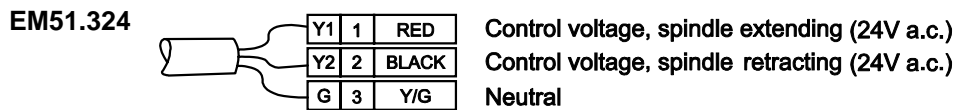
Dimensions - Dimension in mm

92
75.5
60
PF3/4"

| 1st Issue | 3/04 | Page 2 | TAC/EM51 |

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