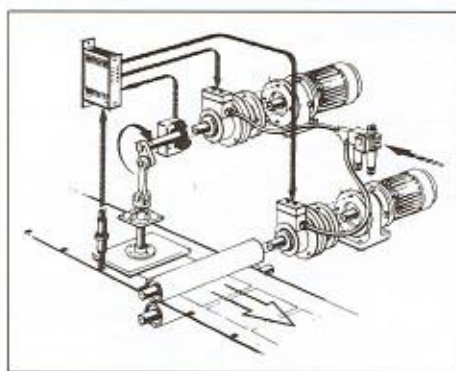




Precision Step Systems

5-2000

Introduction



Precision Step Systems provide the ideal solutions where the following facilities are required:

- High production capacity
- Greater automation
- High precision
- Reliability of operation
- Low service costs

SRA – Vacuum Operated – Precision Step Unit



Type	Code no.	Dyn. Torque (Nm)	Max. rpm	Shaft (mm)
SRA10	ND080B*022	5	1700	15
SRA15	ND080B*001	11	1200	25
SRA18	ND080B*002	21	1040	25
SRA20	ND080B*003	33	920	25
SRA23	ND080B*004	44	800	25
SRA25	ND080B*011	57	760	40
SRA30	ND080B*012	102	600	40
SRA36	ND080B*013	167	500	40

*Insert 0 or 3 for smooth or keyway shaft

Rotastep – Compressed Air Operated – Clutch/ Brake



Type	Code No.	Dyn. Torque (Nm)	Shaft (mm)**
Rota 0610	ND080H1111	3 - 9	14
Rota 0810	ND080H2111	6 - 18	19
Rota 1010	ND080H3111	12 - 36	24
Rota 1210	ND080H4111	22 - 66	28
Rota 1510	ND080H5111	40 - 120	28

Rotasteps are available with :

- Solid or hollow shafts, Foot or flange mounted.
- Wide adjustable torque range.

Note: **Other shaft sizes are available

FLA – Vacuum or Compressed Air Operated – Fast Linear Actuator



Type	Code no.	Stroke (mm)	Force (N)	Enclosure
FLA0551	ND080F0057	5	140	IP54
FLA1251	ND080F0059	12	140	IP54
FLA2051	ND080F0061	20	140	IP54
FLA2551	ND080F0058	25	140	IP54
FLA6041	ND080F0110	4	200	IP54
FLA6081	ND080F0112	8	200	IP54

The FLA is the ideal solution where the requirement is:

- Fast linear movement
- High number of cycles

**Electronic control
SRB3100**



Type	SRB 3100
Code no.	ND080B1047
Supply voltage	24 V a.c. +10/-15%
Supply frequency	50 - 60 Hz
Power consumption	35 W max.
max. cycling frequency	30 Hz
d.c. output	24 V, 100mA max.
Timer setting	7 - 400 msec
Signal source	NPN or PNP

Electronic control SRB3100 is designed for operation of linear actuators type FLA, providing the following functions:

- Control of 2 x 1 valve
- Signals for forward/backward motion from the same signal source (or two signal sources)
- Voltage supply for signal source
- Status signal (piston rod : forward/backward)
- Timer setting on return motion

**Electronic control
SRB3102**



Type	SRB 3102
Code no.	ND080B1054
Supply voltage	24 V a.c. +10/-15%
Supply frequency	50 - 60 Hz
Power consumption	40 W max.
d.c. output	24V±1V,350mA max
Max cycle frequency	
Rotastep	20 Hz
SRA 10	30 Hz
SRA 15-36	20 Hz
Signal source	NPN or PNP

Electronic control SRB3102 is designed for operation of the Rotastep and SRA units, providing the following functions:

- Start and stop from two signal sources
- Start and stop from the same signal sources
- Control of 1 x 2 or 2 x 2 valves
- D.C. output for signal source supply
- Activation on positive or negative edge of signals
- Free mode (output shafts rotate freely)
- Status signal (clutch/brake mode)
- Start/stop inhibit
- Output error signal

**Electronic control
SRB3103**



Type	SRB 3103
Code no.	ND080B1053
Supply voltage	24 V a.c. +10/-15%
Supply frequency	50 - 60 Hz
Power consumption	40 W max.
cycle frequency	15 Hz max.
Signal source	PNP or NPN
Socket code no.	ND080B2091

Electronic control SRB 3103 is designed for operation of the Rotastep clutch/brake units, providing the following functions:

- Separate level controlled start and stop input
- PNP or NPN signal selection
- For mounting on octal base (din rail mounting)

**Electronic control
SRB3110**



Type	SRB 3110
Code no.	ND080B1049
Supply voltage	100,115,200,220, 240V a.c.+10/-15%
Supply frequency	50 - 60 Hz
Power consumption	80 W max.
d.c. output	24V, 500mA max.
Max cycle frequency	
2 x 1 valve	50 Hz
2 x 2 valves	20 Hz
3 x 2 valves	13 Hz
Enclosure	IP20
Signal source	PNP or NPN

Electronic control SRB3110 is designed for operation of SRA, Rotastep or FLA, providing the following functions:

- Start and stop from the same signal source
- Start and stop from two signal sources
- Control of 1 x 2, 2 x 2, or 3 x 2 valves
- Free mode
- Activation on positive or negative edge of signals
- D.C. output for signal sources
- Status signal (brake/clutch mode)
- Manual start stop (manual/auto selection)
- Connection for overload protection and options.


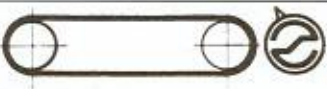
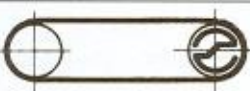
Overload protection



Type	SRB 3211
Code no.	ND080B1063

The Overload protection type SRB 3211 is used to protect the SRA, Rotastep or FLA unit from mechanical overload. The card is to be mounted inside the SRB 3110.

Options

Type	Code no.	Application	
SRB 3203	ND080B1061	Zero cross & speed compensation for sinusoidal feeding	
SRB 3233	ND080B1078	Start by counter feeding	
SRB 3234	ND080B1079	stop by counter feeding	

Option box



Type	SRB 3200
Code no.	ND080B1060
Enclosure	IP00

The option box, SRB 3200 is used together with an electronic control unit, SRB 3110 and would contain above option controls

Counter



Type	SRB 3208 - 9
Code no.	ND080B1068 - 9
Number of digits	6
Counting range	0 - 999,999
Counting frequency	100kHz max.
Supply voltage	20 - 30 V dc
Power consumption	5 W max.
Dimensions	50 x 50 x 136mm
Cabinet	black plastic

The SRB 3208 is a 6 digit, general purpose, programmable counter giving the following functions:

- programming of 2 different preset values
- 3 independent opto-isolated outputs for 2 presets and zero count
- shift of preset values during operation
- programmable scale factor and decimal points for engineering units
- one or two channel encoders can be used
- internal or external reset conditions
- gate stops counting >
- high input frequency up to 100kHz

The SRB 3209 comprises two SRB 3208 counters and an interface card mounted on a fascia. Dimensions 150 x 150 x 136mm (fixing holes 4 x 3.5 dia. on 135mm centres). This is for use with more complex applications e.g. SRB3233 & SRB3234.

Photocell



Type	SRC 1301	SRC 1501
Code no.	ND080B1203	ND080B1205
Signal (output)	NPN, open collector	NDPn, open collector
Enclosure	IP00	IP54

Photocell type SRC1301/1501. Used with external position disc type SRC 1100 to generate signal for SRB control units.

Air treatment kit



Type	SRD 10
Code no.	ND080B2010