WINSTONE

INDUSTRIAL PNEUMATICS

MOTION / CONTROL / CONNECTION / HANDLING



Winstone Industrial Tech Co., Ltd.

PRODUCT CATALOGUE / R9

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Models are technical enquiry references. Provide quantity, connection standard and operating conditions. Confirm the offered model and complete configuration with our team.

Industrial manufacturing



APPLICATIONS & COMPONENTS

Components for machinery, automated assembly, packaging, conveying and plant maintenance.

Production & assembly applications



APPLICATIONS & COMPONENTS

Coordinate air preparation, valves, actuators, tubing and sensing components for equipment projects.

Cylinders & linear actuators

SC 01

Tie-rod cylinder



Model / configuration	Bore mm	Stroke mm
SC32x50	32	50
SC40x50	40	50
SC50x50	50	50
SC63x50	63	50
SC80x50	80	50
SC100x50	100	50
SC32x100	32	100
SC40x100	40	100

Double acting; 0.1-0.9 MPa; -5 to 60°C. Specify mounting and magnet options.

DNC 01

Profile cylinder



Model / configuration	Bore mm	Stroke mm
DNC32x50-PPV-A	32	50
DNC40x50-PPV-A	40	50
DNC50x50-PPV-A	50	50
DNC63x50-PPV-A	63	50
DNC80x50-PPV-A	80	50
DNC100x50-PPV-A	100	50
DNC32x100-PPV-A	32	100
DNC40x100-PPV-A	40	100

Double acting; 0.1-0.9 MPa; -5 to 60°C. Specify mounting and magnet options.

MAL 01

Lightweight mini cylinder



Model / configuration	Bore mm	Stroke mm
MAL16x50	16	50
MAL20x50	20	50
MAL25x50	25	50
MAL40x50	40	50
MAL16x100	16	100
MAL20x100	20	100
MAL25x100	25	100
MAL40x100	40	100

Double acting; 0.1-0.9 MPa; -5 to 60°C. Specify mounting and magnet options.

MA 01

Stainless mini cylinder



Model / configuration	Bore mm	Stroke mm
MA16x50	16	50
MA20x50	20	50
MA25x50	25	50
MA32x50	32	50
MA16x100	16	100
MA20x100	20	100
MA25x100	25	100
MA32x100	32	100

Double acting; 0.1-0.9 MPa; -5 to 60°C. Specify mounting and magnet options.

Cylinders & linear actuators

SDA 01

Compact cylinder



Model / configuration	Bore mm	Stroke mm
SDA20-30-SB	20	30

Double acting, magnetic piston, male rod thread; -5 to 60°C. Ask for other bore/stroke combinations.

TN 01

Twin-rod cylinder



Model / configuration	Bore mm	Stroke mm
TN10x20	10	20
TN10x50	10	50
TN16x20	16	20
TN16x50	16	50
TN20x50	20	50
TN25x50	25	50
TN32x50	32	50
TN32x100	32	100

Double acting; 0.1-0.9 MPa; -5 to 60°C; bumper cushioning.

MGP 01

Guided cylinder



Model / configuration	Bore mm	Stroke mm
MGPM12x50	12	50
MGPM16x50	16	50
MGPM20x50	20	50
MGPM25x50	25	50
MGPM32x50	32	50
MGPM40x50	40	50
MGPM50x50	50	50
MGPM63x50	63	50

Slide-bearing type; max. 1.0 MPa; -5 to 60°C. Min. 0.12 MPa for bores 12/16; 0.1 MPa for larger sizes.

CU 01

Free-mount cylinder



Model / configuration	Bore mm	Stroke mm
CU6-10D	6	10
CU10-10D	10	10
CU16-10D	16	10
CU20-10D	20	10
CU25-10D	25	10
CU32-10D	32	10
CU20-20D	20	20
CU32-20D	32	20

Standard double-acting type; max. 0.7 MPa; multi-face mounting.

Cylinders & linear actuators

CQ2
01

Through-hole compact cylinder



Model / configuration	Bore mm	Stroke mm
CQ2B12x20DM	12	20
CQ2B16x20DM	16	20
CQ2B20x20DM	20	20
CQ2B25x20DM	25	20
CQ2B32x20DM	32	20
CQ2B40x20DM	40	20
CQ2B50x20DM	50	20
CQ2B63x20DM	63	20

Double acting, male rod thread; 0.1-0.9 MPa; -5 to 60°C.

CQS
01

Small compact cylinder



Model / configuration	Bore mm	Stroke mm
CQS12x10D	12	10
CQS12x20D	12	20
CQS16x10D	16	10
CQS16x20D	16	20
CQS20x10D	20	10
CQS20x20D	20	20
CQS25x10D	25	10
CQS25x20D	25	20

Double acting; M5 port; 0.1-0.9 MPa; -5 to 60°C.

ADVU
01

Short-body compact cylinder



Base / bore	Port	Force N*
ADVU-12	M5	68
ADVU-16	M5	121
ADVU-20	M5	188
ADVU-25	M5	295
ADVU-32	G1/8	483
ADVU-40	G1/8	754
ADVU-50	G1/8	1178
ADVU-63	G1/8	1870

*Theoretical extension force at 6 bar. Add stroke, rod-end and cushioning codes to order.

CJ2
01

Mini round cylinder



Model / configuration	Bore mm	Stroke mm
CJ2B6x20D	6	20
CJ2B6x50D	6	50
CJ2B10x20D	10	20
CJ2B10x50D	10	50
CJ2B16x20D	16	20
CJ2B16x50D	16	50

Double acting; stainless barrel; M5 port; 0.1-0.7 MPa; -5 to 60°C.

Cylinders & linear actuators

RPN-01-002 01

ISO tie-rod cylinder



Reference: C96 / C96SD

Bore mm	32,40,50,63,80,100,125
Working pressure MPa	0.05-1.0
Standard stroke mm	25-800
Action	Double acting

ISO 15552 series. Select stroke, mounting and switch options in the ordering code.

RPN-01-004 01

ISO mini cylinder



Reference: MI16x40-S-CA

Bore mm	16
Stroke mm	40
Working pressure MPa	0.05-0.7
Temperature °C	-5 to 70

Magnetic piston, rear clevis, stainless barrel. ISO 6432-type series; confirm mating dimensions.

RPN-01-006 01

ISO compact cylinder



Reference: C55-Z / CD55-Z

ISO bores mm	20,25,32,40,50,63,80,100
Max pressure MPa	1.0
Stroke range mm	5-300 / 10-300
Action	Double acting

Stroke 5-300 mm for bores 20-63; 10-300 mm for 80/100. Bores 12/16 are outside ISO 21287 scope.

RPN-01-009 01

Tandem cylinder



Reference: ADNH

Bore	25 / 40 / 63 / 100 mm
Stroke	5–150 mm
Stages	2 / 3 / 4
Standard temperature	−20 to +80 °C

Compact tandem design; specify stages, stroke and rod thread.

Cylinders & linear actuators

RPN-01-010 01

Multi-position cylinder



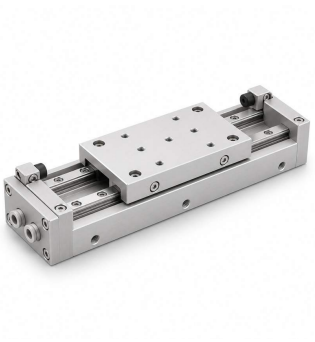
Reference: RZQ

Bore	32 / 40 / 50 / 63 mm
Full stroke	25 / 50 / 75 / 100 / 125 / 150 / 175 / 200 / 250 / 300 mm
Intermediate repeatability	±0.02 mm
Positions	3

Specify first-stage stroke and mounting separately.

RPN-02-003 01

Linear-guide air slide



Reference: MXQ-A

Bore	6 / 8 / 12 / 16 / 20 / 25 mm
Series strokes	10–150 mm
Guide	Recirculating linear guide

Double-ported type; maximum strokes by bore are 50/75/100/125/150/150 mm.

RPN-02-004 01

Cross-roller air slide



Reference: MXS25-150

Bore	25 mm
Stroke	150 mm
Port	Rc
Guide	Cross roller

Standard double-acting slide; base model supplied without auto switch.

RPN-02-005 01

Magnetically coupled rodless cylinder



Reference: CY3B

Bore	6 / 10 / 15 / 20 / 25 / 32 / 40 / 50 / 63 mm
Coupling	Magnetic
Maximum stroke examples	Ø6: 300; Ø10: 500; Ø20: 1500 mm

Closed tube with magnetically driven carriage; check load against magnetic holding force.

Cylinders & linear actuators

RPN-02-006 01

Mechanically jointed rodless cylinder



Reference: MY1B

Bore options	16 / 20 / 50 / 63 / 80 / 100 mm
Series stroke range	100–5000 mm
Basic speed	100–1000 mm/s
Cushion	Air cushion

Mechanically coupled carriage with sealing band; confirm stroke and speed by bore.

RPN-02-007 01

Stopper cylinder



Reference: RSQB20-10DZ

Bore	20 mm
Stroke	10 mm
Action	Double acting
Mounting	Through-hole

Round-rod stopper; check conveyor load and impact energy.

RPN-02-008 01

Escapement



Reference: MIW

Bore	8 / 12 / 20 / 25 / 32 mm
Fingers	2
Action	Double acting

Two-finger escapement for separating continuously conveyed workpieces.

RPN-02-009 01

Locating-pin cylinder



Reference: CKQG-X2370 / CKQP-X2371

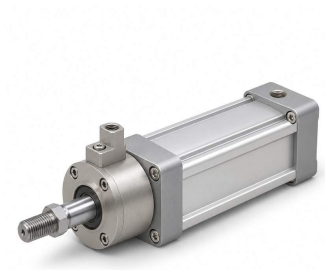
Bore	32 / 40 / 50 mm
Rod-end deflection	≤ ±0.1 mm
Construction	Integrated cylinder + guide

Workpiece-specific locating pin is supplied separately; built-in coil scraper.

Cylinders & linear actuators

RPN-02-010 01

Lock cylinder



Reference: CNG / CDNG

Bore	20 / 25 / 32 / 40 mm
Action	Double acting
Rod	Single
Lock	Steel-ball locking

Separate lock mechanism; confirm holding force and release pressure for the full code.

RPN-02-011 01

Low-friction cylinder



Reference: MQP10-10S

Bore	10 mm
Stroke	10 mm
Seal	Metal
Return	External force

Low-friction single-acting type; do not use at stroke end; not auto-switch capable.

RPN-02-012 01

Stroke-reading cylinder



Reference: CE1

Bore	12 / 20 / 32 / 40 / 50 / 63 mm
Resolution	0.1 mm
Supply	12–24 V DC
Measurement	Full stroke

Stroke feedback; select counter, cable and stroke for the application.

RPN-14-001 01

Cylinder mounting bracket



Reference: HNC-32

Cylinder bore	32 mm
Mounting standard	ISO 15552
Maximum load	0.9 kN
Material	Galvanized steel

Foot mounting; confirm hole spacing and fasteners against the cylinder drawing.

Cylinders & linear actuators

RPN-14-002 01

Rod-end joint



Reference: SC32 Y-joint

Cylinder bore	32 mm
Rod thread	M10 × 1.25
Pin diameter	10 mm

Mechanical clevis connection; check pin fit and rod thread.

RPN-14-003 01

Floating joint



Reference: JA20-8-125

Cylinder bore	20 mm
Thread	M8 × 1.25
Allowable eccentricity	0.5 mm
Angular movement	±5°

Compensates alignment error; not intended as a continuous rotary joint.

RPN-14-004 01

Cylinder seal kit



Reference: CQ2B32-PS

Compatible series	CQ2B
Cylinder bore	32 mm
Seal material	NBR

Piston seal, rod seal and gasket; verify cylinder generation before ordering.

RPN-14-014 01

External rod lock



Reference: KPE-12

Round rod diameter	12 mm
Working pressure	3–10 bar
Release pressure	3 bar
Static holding force	600 N

Spring clamping, pneumatic release; static holding force is not a dynamic braking rating.

Pneumatic control valves

4V-S 02

Single-solenoid 5/2 valve



Model	Port	Function
4V110-M5	M5	5/2
4V110-06	1/8	5/2
4V210-06	1/8	5/2
4V210-08	1/4	5/2
4V310-08	1/4	5/2
4V310-10	3/8	5/2
4V410-10	3/8	5/2
4V410-15	1/2	5/2

Operating pressure 22-116 psi (0.15-0.8 MPa). Solenoid types: specify voltage and thread.

4V-D 02

Double-solenoid 5/2 valve



Model	Port	Function
4V120-M5	M5	5/2
4V120-06	1/8	5/2
4V220-06	1/8	5/2
4V220-08	1/4	5/2
4V420-10	3/8	5/2
4V420-15	1/2	5/2

Operating pressure 22-116 psi (0.15-0.8 MPa). Solenoid types: specify voltage and thread.

4A-D 02

Double-pilot 5/2 valve



Model	Port	Function
4A120-M5	M5	5/2
4A120-06	1/8	5/2
4A220-06	1/8	5/2
4A220-08	1/4	5/2
4A320-08	1/4	5/2
4A320-10	3/8	5/2
4A420-15	1/2	5/2

Operating pressure 22-116 psi (0.15-0.8 MPa). Solenoid types: specify voltage and thread.

3V-S 02

Single-solenoid 3/2 valve



Model	Port	Function
3V110-M5	M5	3/2
3V110-06	1/8	3/2
3V210-06	1/8	3/2
3V210-08	1/4	3/2
3V310-08	1/4	3/2
3V310-10	3/8	3/2
3V410-10	3/8	3/2
3V410-15	1/2	3/2

Operating pressure 22-116 psi (0.15-0.8 MPa). Solenoid types: specify voltage and thread.

Pneumatic control valves

HV
02

Rotary hand valve



Model	Port
HV-02	1/4
HV-03	3/8
HV-04	1/2

Direct acting; 0-116 psi (0-0.8 MPa); 23-140°F (-5 to 60°C).

S3C
02

Long-lever hand valve



Model	Port	Function
S3C-05	M5	3/2
S3C-06	G1/8	3/2
S3C-08	G1/4	3/2

0-116 psi (0-0.8 MPa); 23-140°F (-5 to 60°C); aluminum body.

3F
02

3/2 foot valve



Model	Port	Body
3F210-06	PT1/8	Al
3F210-08	PT1/4	Al

Normally closed, direct acting; 0-116 psi (0-0.8 MPa); -5 to 60°C.

S3R
02

Roller-lever valve



Model	Port	Function
S3R-05	M5	3/2
S3R-06	G1/8	3/2
S3R-08	G1/4	3/2

0-116 psi (0-0.8 MPa); -5 to 60°C; roller actuation.

Pneumatic control valves

RPN-05-002 02

4-port solenoid valve



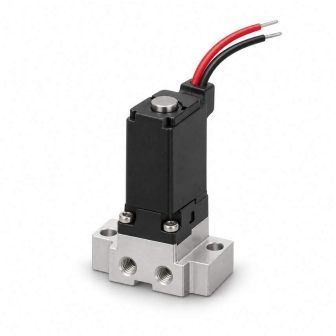
Reference: VQD1000

Ports	4
Maximum pressure	0.7 MPa
Construction	Direct-operated poppet

Direct-operated poppet; select voltage, orifice and mounting by submodel.

RPN-05-004 02

Miniature pilot valve



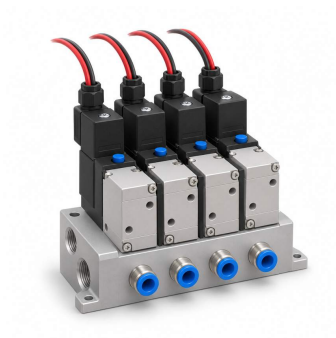
Reference: V100

Ports	3
Standard power	0.35 W
Low-power version	0.1 W

For pilot control; order normally open, normally closed and low-power options separately.

RPN-05-007 02

Valve manifold assembly



Reference: 4V + 100M / 200M / 300M / 400M

Maximum stations	16 / 16 / 12 / 8
Air filtration	40 µm
Temperature	5–60 °C

Complete valve assembly; specify valve function, voltage, station count and thread.

RPN-05-008 02

Multipole valve terminal



Reference: MCS2

Interface	D-SUB15
Max. single-coil valves	14
Voltage	24 V DC ±10%
Working pressure	0.15–0.8 MPa

100 or 200 body size; working ports G1/8 or G1/4 respectively.

Pneumatic control valves

RPN-05-009 02

IO-Link valve terminal



Reference: JEL-FE

Control interface	IO-Link
Max. single-coil valves	24
Voltage	24 V DC ±10%
Working pressure	0.15–0.8 MPa

Supply/exhaust G1/4; working ports G1/8; specify the IO-Link module.

RPN-05-010 02

Fieldbus valve terminal



Reference: JEL-FD

Station options	4–10 / 12 / 14 / 16 / 20 / 24
Valve width	10 / 14 mm
Voltage	24 V DC ±10%
Fieldbus	PROFINET / EtherCAT / EtherNet/IP

Select the bus module separately; protocol options are not simultaneous functions of one module.

RPN-05-011 02

Proportional directional valve



Reference: MPYE-5-1/4-010-B

Function	5/3 closed centre
Working pressure	0–10 bar
Supply	17–30 V DC
Command	0–10 V

G1/4; standard nominal flow 1400 L/min; non-lubricated operation.

RPN-05-012 02

2/2-way solenoid valve



Reference: PU220-04

Port	1/2 in
Working pressure	0.5–10 bar
Body	Brass
Temperature	−5 to +80 °C

Pilot-operated 2/2 normally closed; specify coil voltage.

Pneumatic control valves

RPN-06-003 02

Push-button valve



Reference: MOV321PP / MOV321PPL / MOV321PB

Function	3/2
Port	G1/8
Working pressure	0–0.8 MPa
Temperature	−5 to +60 °C

Flat, raised or large round push-button operators.

RPN-06-006 02

Plunger valve



Reference: VM230-02-00

Function	3-port
Port	PT1/4
Working pressure	0–1.0 MPa
Temperature	−5 to +60 °C

Basic plunger operator; verify operating travel and force during mounting.

RPN-14-005 02

Valve coil and connector



Reference: DXT170-C-5-D

Compatible series	VZ300 / VZ500
Rated voltage	24 V DC
Electrical connection	DIN connector

Solenoid assembly with DIN connector; connector shape alone does not establish compatibility.

RPN-14-006 02

Valve manifold seal kit



Reference: SX3000-57-4

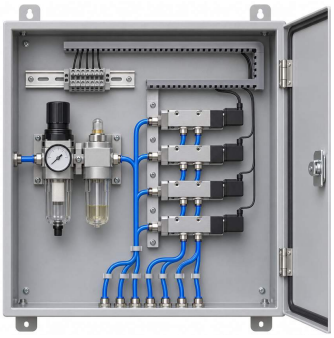
Compatible series	SY3000
Manifold type	Type 45
Mounting	DIN rail manifold

Manifold interface gasket; verify base generation and passage layout.

Models & specifications

RPN-14-015 02

Pneumatic control cabinet



Reference: 4V210-08 + AFC2000

Valve configuration	4V210-08
Air preparation	AFC2000
Coil configuration	24 V DC

Configured control cabinet; confirm enclosure, circuit, stations and full BOM by drawing.

AF 03

Air filter



Model	Port Rp(PT)
AF1000-M5	M5x0.8
AF2000-02	1/4
AF3000-02	1/4
AF3000-03	3/8
AF4000-03	3/8
AF4000-04	1/2
AF4000-06	3/4
AF5000-10	1

40 μm filtration; PC bowl. Inlet max. 145 psi (1.0 MPa); 23-140°F (-5 to 60°C).

AR 03

Air regulator



Model	Port Rp(PT)
AR1000-M5	M5x0.8
AR2000-02	1/4
AR3000-02	1/4
AR3000-03	3/8
AR4000-03	3/8
AR4000-04	1/2
AR4000-06	3/4
AR5000-10	1

Regulation: 1000 size 0.05-0.7 MPa; others 0.05-0.85 MPa. Inlet max. 145 psi (1.0 MPa); 23-140°F (-5 to 60°C).

AL 03

Air lubricator



Model	Port Rp(PT)
AL1000-M5	M5x0.8
AL2000-02	1/4
AL3000-02	1/4
AL3000-03	3/8
AL4000-03	3/8
AL4000-04	1/2
AL4000-06	3/4
AL5000-10	1

Recommended oil: ISO VG32; PC bowl. Inlet max. 145 psi (1.0 MPa); 23-140°F (-5 to 60°C).

Air preparation & regulation

AW 03

Filter regulator



Model	Port Rp(PT)
AW1000-M5	M5x0.8
AW2000-02	1/4
AW3000-02	1/4
AW3000-03	3/8
AW4000-03	3/8
AW4000-04	1/2
AW4000-06	3/4
AW5000-10	1

40 μm; regulation: 1000 size 0.05-0.7 MPa, others 0.05-0.85 MPa. Inlet max. 145 psi (1.0 MPa); 23-140°F (-5 to 60°C).

AC 03

Three-unit FRL



Model	Port Rp(PT)
AC1000-M5	M5x0.8
AC2000-02	1/4
AC3000-02	1/4
AC3000-03	3/8
AC4000-03	3/8
AC4000-04	1/2
AC4000-06	3/4
AC5000-10	1

40 μm; inlet max. 145 psi (1.0 MPa); 23-140°F (-5 to 60°C).

AC10 03

Two-unit FRL



Model	Port Rp(PT)
AC1010-M5	M5x0.8
AC2010-02	1/4
AC3010-02	1/4
AC3010-03	3/8
AC4010-03	3/8
AC4010-04	1/2
AC4010-06	3/4
AC5010-10	1

40 μm; inlet max. 145 psi (1.0 MPa); 23-140°F (-5 to 60°C).

AMG 03

Water separator



Model	Port Rp(PT)
AMG150-01	1/8
AMG150-02	1/4
AMG250-02	1/4
AMG250-03	3/8
AMG350-03	3/8
AMG350-04	1/2
AMG450-04	1/2
AMG550-10	1

Pressure 22-123 psi (0.15-0.85 MPa); 41-140°F (5-60°C); auto-drain option.

Air preparation & regulation

AMD 03

Micro-mist separator



Model	Port Rp(PT)
AMD150-01	1/8
AMD150-02	1/4
AMD250-02	1/4
AMD250-03	3/8
AMD350-03	3/8
AMD350-04	1/2
AMD450-04	1/2
AMD550-10	1

Pressure 22-123 psi (0.15-0.85 MPa); 41-140°F (5-60°C); auto-drain option.

LF 03

Modular air filter



Model	Port Rp(PT)
LF-MINI-01	1/8
LF-MINI-02	1/4
LF-MINI-03	3/8
LF-MIDI-02	1/4
LF-MIDI-03	3/8
LF-MIDI-04	1/2

Pressure range 22-174 psi (0.15-1.2 MPa); -5 to 60°C. 40 µm; 5 µm optional.

LR 03

Modular regulator



Model	Port Rp(PT)
LR-MINI-01	1/8
LR-MINI-02	1/4
LR-MINI-03	3/8
LR-MIDI-02	1/4
LR-MIDI-03	3/8
LR-MIDI-04	1/2

Pressure range 22-174 psi (0.15-1.2 MPa); -5 to 60°C.

LOE 03

Modular lubricator



Model	Port Rp(PT)
LOE-MINI-01	1/8
LOE-MINI-02	1/4
LOE-MINI-03	3/8
LOE-MIDI-02	1/4
LOE-MIDI-03	3/8
LOE-MIDI-04	1/2

Pressure range 22-174 psi (0.15-1.2 MPa); -5 to 60°C.

Air preparation & regulation

LFR 03

Modular filter regulator



Model	Port Rp(PT)
LFR-MINI-01	1/8
LFR-MINI-02	1/4
LFR-MINI-03	3/8
LFR-MIDI-02	1/4
LFR-MIDI-03	3/8
LFR-MIDI-04	1/2

Pressure range 22-174 psi (0.15-1.2 MPa); -5 to 60°C. 40 µm; 5 µm optional.

IR 03

Precision regulator



Model	Set range MPa	Port
IR1000-01	0.005-0.2	Rc1/8
IR1010-01	0.01-0.4	Rc1/8
IR1020-01	0.01-0.8	Rc1/8
IR2000-02	0.005-0.2	Rc1/4
IR2010-02	0.01-0.4	Rc1/4
IR2020-02	0.01-0.8	Rc1/4

Inlet max. 1.0 MPa; 5-60°C; gauge and bracket options.

ITV 03

Electropneumatic regulator



Base model	Set range MPa
ITV1010	0.005-0.1
ITV1030	0.005-0.5
ITV1050	0.005-0.9
ITV2010	0.005-0.1
ITV2030	0.005-0.5
ITV2050	0.005-0.9

24 VDC or 12-15 VDC; 0-50°C. Specify supply, input signal, port and output to complete the order code.

RPN-07-007 03

Main-line filter



Reference: AFF70D-10

Port	Rc1
Nominal filtration	1 µm
Construction	Main-line filter

For main-line particle and droplet removal; size for operating flow.

Air preparation & regulation

RPN-07-008 03

Coalescing filter



Reference: AM70D-10

Port	Rc1
Nominal filtration	0.1 μm
Function	Coalescing

For oil-aerosol separation; provide suitable upstream prefiltration.

RPN-07-010 03

Activated-carbon filter



Reference: AMF150

Port options	1/8 / 1/4 / 3/8 in
Rated flow	200 L/min (ANR)
Element	Activated carbon

Flow at 0.7 MPa; provide water and oil-removal prefiltration.

RPN-07-011 03

Float auto drain



Reference: AD402-A

Port options	1/4 / 3/8 / 1/2 in
Pressure / NC	0.15–1.0 MPa
Pressure / NO	0.1–1.0 MPa
Temperature	−5 to +60 °C

Float-operated automatic drain; prevent freezing.

RPN-07-012 03

Timed drain valve



Reference: OPT-A / OPT-B

OFF interval	0.5–45 min
ON duration	0.5–10 s
Max. working pressure	1.0 MPa
Valve voltage	24 V DC / 220 V AC

Check timer and valve voltages separately; brass valve body.

Air preparation & regulation

RPN-07-013 03

Zero-loss drain



Reference: NUFORS-CR

Working pressure	3–16 bar
Media temperature	1–50 °C
Drain orifice	6 mm

Size for condensate load and inlet pressure; no external balance line.

RPN-07-016 03

Air booster regulator



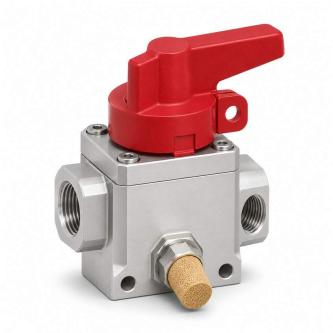
Reference: VBA10A-02

Ports	Rc1/4
Inlet pressure	0.1–1.0 MPa
Setting range	0.2–2.0 MPa
Boost ratio	2

Output flow depends on inlet pressure and boosting conditions.

RPN-07-017 03

Shut-off exhaust valve



Reference: VHS-D

Port range	1/8–1 in
Ports	3
Operation	Lockable exhaust

For supply isolation and residual-pressure release; verify locking and exhaust path.

RPN-07-018 03

Soft-start exhaust unit



Reference: AV2000-A

Port	1/4 in
Working pressure	0.2–1.0 MPa
Temperature	0–50 °C

Soft start with residual-pressure exhaust; select coil voltage separately.

Air preparation & regulation

RPN-07-019 03

Machine standby air management



Reference: AMS20A

Port options	1/8 / 1/4 in
Monitoring	Flow / pressure / temperature
Modes	Standby / isolation

For machine standby air management; specify communication and valve modules.

RPN-07-020 03

Membrane air dryer



Reference: IDG10

Rated outlet flow	100 L/min
Standard dew point	−20 °C
Principle	Hollow-fibre membrane

Flow and dew point refer to catalogue standard conditions; prefiltration required.

RPN-14-007 03

Replacement filter element



Reference: AF 2000–5000 / A-B 2000–4000 filter elements

Material	Sintered brass
Standard rating	40 µm
Matching families	AF / A-B

Match the filter series, body size and generation.

RPN-14-008 03

Filter bowl and guard



Reference: 2000 / 3000 / 4000 / 5000 bowl series

Bowl material	Polycarbonate
Body sizes	2000 / 3000 / 4000 / 5000
Components	Bowl / guard

Check bowl, seal and drain interface against the parent unit; guard is configuration-specific.

Models & specifications

RPN-14-009 03

Drain repair kit



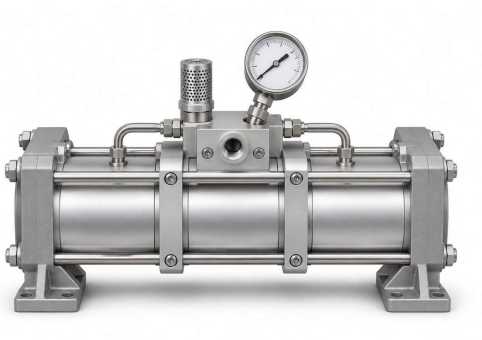
Reference: AD38-D

Compatible model	AW30-D
Drain type	Normally open auto drain
Drain tube OD	10 mm
Bowl	Polycarbonate + guard

Bowl and automatic drain assembly; check year and suffix for replacement.

RPN-07-016-A 03

Exhaust-recovery air booster



Reference: VBAE10 / VBAE20

Boost ratio	1.7:1
Outlet pressure MPa	0.3-1.2
Port sizes	1/4, 1/2
Mounting	Horizontal / vertical

Pneumatic drive reuses exhaust air. Select gauge, air tank and port configuration separately.

PC 04

Male straight fitting



Model	Tube OD mm	Thread
PC4-M5	4	M5
PC4-01	4	PT1/8
PC6-01	6	PT1/8
PC6-02	6	PT1/4
PC8-01	8	PT1/8
PC8-02	8	PT1/4
PC10-02	10	PT1/4
PC12-02	12	PT1/4

Match tube OD; PT and NPT threads are not interchangeable.

PL 04

Male elbow fitting



Model	Tube OD mm	Thread
PL4-M5	4	M5
PL4-01	4	PT1/8
PL6-01	6	PT1/8
PL6-02	6	PT1/4
PL8-01	8	PT1/8
PL8-02	8	PT1/4
PL10-02	10	PT1/4
PL12-02	12	PT1/4

Match tube OD; PT and NPT threads are not interchangeable.

Fittings & tubing

PCF
04

Female straight fitting



Model	Tube OD mm	Thread
PCF4-M5	4	M5
PCF4-01	4	PT1/8
PCF6-01	6	PT1/8
PCF6-02	6	PT1/4
PCF8-01	8	PT1/8
PCF8-02	8	PT1/4
PCF10-02	10	PT1/4
PCF12-02	12	PT1/4

Match tube OD; PT and NPT threads are not interchangeable.

PLF
04

Female elbow fitting



Model	Tube OD mm	Thread
PLF4-M5	4	M5
PLF4-01	4	PT1/8
PLF6-01	6	PT1/8
PLF6-02	6	PT1/4
PLF8-01	8	PT1/8
PLF8-02	8	PT1/4
PLF10-02	10	PT1/4
PLF12-02	12	PT1/4

Match tube OD; PT and NPT threads are not interchangeable.

PU
04

Equal straight union



Model	Tube OD mm	Ports
PU4	4	2
PU6	6	2
PU8	8	2
PU10	10	2
PU12	12	2
PU14	14	2
PU16	16	2

Pneumatic tube connection; confirm compatibility with the selected tubing.

PV
04

Equal elbow union



Model	Tube OD mm	Ports
PV4	4	2
PV6	6	2
PV8	8	2
PV10	10	2
PV12	12	2
PV14	14	2
PV16	16	2

Pneumatic tube connection; confirm compatibility with the selected tubing.

Fittings & tubing

PE 04

Equal tee union



Model	Tube OD mm	Ports
PE4	4	3
PE6	6	3
PE8	8	3
PE10	10	3
PE12	12	3
PE14	14	3
PE16	16	3

Pneumatic tube connection; confirm compatibility with the selected tubing.

PY 04

Equal Y union



Model	Tube OD mm	Ports
PY4	4	3
PY6	6	3
PY8	8	3
PY10	10	3
PY12	12	3

Pneumatic tube connection; confirm compatibility with the selected tubing.

PB 04

Male branch tee



Model	Tube OD mm	Thread
PB4-M5	4	M5
PB4-01	4	PT1/8
PB6-01	6	PT1/8
PB6-02	6	PT1/4
PB8-01	8	PT1/8
PB8-02	8	PT1/4
PB10-02	10	PT1/4
PB12-02	12	PT1/4

Two push-in ports; threaded end connects to equipment or valve blocks.

PD 04

Male run tee



Model	Tube OD mm	Thread
PD4-M5	4	M5
PD4-01	4	PT1/8
PD6-01	6	PT1/8
PD6-02	6	PT1/4
PD8-01	8	PT1/8
PD8-02	8	PT1/4
PD10-02	10	PT1/4
PD12-02	12	PT1/4

Two push-in ports; threaded end connects to equipment or valve blocks.

Fittings & tubing

PX 04

Male Y fitting



Model	Tube OD mm	Thread
PX4-M5	4	M5
PX4-01	4	PT1/8
PX6-01	6	PT1/8
PX6-02	6	PT1/4
PX8-01	8	PT1/8
PX8-02	8	PT1/4
PX10-02	10	PT1/4
PX12-02	12	PT1/4

Two push-in ports; threaded end connects to equipment or valve blocks.

PM 04

Bulkhead union



Model	Tube OD mm	Panel thread
PM4	4	M12x1.0
PM6	6	M14x1.0
PM8	8	M16x1.0
PM10	10	M20x1.0
PM12	12	M22x1.0

Two push-in ends with panel-mounting nuts.

PU-T 04

Polyurethane tubing



Model	OD mm	ID mm
PU0320	3	2
PU0425	4	2.5
PU0640	6	4
PU0850	8	5
PU0860	8	6
PU1065	10	6.5
PU1280	12	8
PU1612	16	12

Blue, black and clear options. Confirm pressure rating for tube size and temperature.

SPIRAL 04

Spiral polyurethane hose



Order size mm	Length m
6x4	3
6x4	6
8x5	3
8x5	6
10x6.5	3
10x6.5	6
12x8	3
12x8	6

Size is OD x ID. Specify end fittings and confirm usable working length.

Fittings & tubing

RPN-08-005 04

Cross fitting



Reference: PZA4 / PZA6 / PZA8 / PZA10 / PZA12

Tube OD	4 / 6 / 8 / 10 / 12 mm
Connections	4
Connection	Push-in

Equal-size four-way cross; model digits indicate tube OD.

RPN-08-006 04

Reducer fitting



Reference: PEG6-4 / PEG8-6 / PEG10-8 / PEG12-10

Tube OD pairs	6–4 / 8–6 / 10–8 / 12–10 mm
Connections	3
Pattern	Reducing tee

Reducing tee; select main and branch tube sizes.

RPN-08-008 04

Tube plug and threaded plug



Reference: SPP-4 / SPP-6 / SPP-8 / SPP-10 / SPP-12

Socket size	4 / 6 / 8 / 10 / 12 mm
Type	Push-in plug
Use	Unused tube port

For unused push-in sockets; not a threaded pipe plug.

RPN-08-009 04

Thread adapter



Reference: 2520 1/8-1/4

Male thread	R1/8
Female thread	G1/4
Length	19 mm

Reducing thread adapter; distinguish tapered-thread and parallel-thread sealing.

Fittings & tubing

RPN-08-010 04

Compression fitting



Reference: 1050 6-1/8

Tube OD	6 mm
Male thread	R1/8
Material	Nickel-plated brass

Olive and nut retention; plastic tubing requires suitable reinforcement.

RPN-08-011 04

Hose barb fitting



Reference: 2601 9-3/8

Thread	G3/8
Hose dimension N	9 mm
Length	34 mm

Barbed hose end; verify hose and clamp compatibility.

RPN-08-012 04

Banjo fitting



Reference: 6622 6-1/8

Tube OD	6 mm
Thread	G1/8
Dimension L	25 mm

Single banjo; orient during installation then secure.

RPN-08-013 04

Rotary union



Reference: NRC04-M5 / NHRC04-M5

Tube OD	4 mm
Thread	M5
Speed	NRC: 500; NHRC: 1500 rpm

Straight continuous-rotation fitting; speed depends on the exact size.

Fittings & tubing

RPN-08-014 04

Air distribution block



Reference: 3033 1/8

Ports	4 × G1/8
Length L	25 mm
Mounting hole F	4.5 mm

Four-way distribution block; this model has four ports in total.

RPN-08-015 04

Cartridge push-in fitting



Reference: 6700 6

Tube OD	6 mm
Length L	16.5 mm
Seat bore S	11.95 mm (+0.01/−0.04)

Press-in cartridge; control seat geometry and insertion force to the assembly drawing.

RPN-09-001 04

Quick coupler socket



Reference: SM-10 / SM20 / SM30 / SM-40

Thread	PT 1/8 / 1/4 / 3/8 / 1/2
Working pressure	0–0.9 MPa
Temperature	−5 to +60 °C
Material	Zinc alloy

C-type socket; use a matching plug profile.

RPN-09-002 04

Quick coupler plug



Reference: PM10 / PM20 / PM30 / PM40

Thread	PT 1/8 / 1/4 / 3/8 / 1/2
Working pressure	0–0.9 MPa
Temperature	−5 to +60 °C
Type	C-type plug

Mate with the C-type socket; thread size alone does not establish interchangeability.

Fittings & tubing

RPN-09-003 04

Push-button venting coupler



Reference: 26KPAW13APX

Thread	G1/4
Maximum pressure	12 bar
Temperature	−20 to +100 °C
Nominal bore	7.4 mm

Two-stage push-button venting and release; European-profile plug.

RPN-09-004 04

Multi-outlet coupler



Reference: SML2 / SML3 / SML4 / SML5 / SML6

Outlets	2 / 3 / 4 / 5 / 6
Layout	Linear
Connection	Quick-coupler outlets

Multi-outlet coupling assembly; confirm inlet and plug profile when ordering.

RPN-09-006 04

Polyamide tubing



Reference: T0425 / T0604 / T0806

OD × ID	4×2.5 / 6×4 / 8×6 mm
Material	PA12
Temperature	−20 to +60 °C

Pressure rating decreases with temperature; use the lower tube/fitting limit.

RPN-09-007 04

Polyethylene tubing



Reference: PE0604

OD × ID	6 × 4 mm
Roll length	200 m
Working pressure / 20°C	8 bar

Polyethylene tube; 24 bar is minimum burst pressure, not working pressure.

Fittings & tubing

RPN-09-008 04

Fluoropolymer tubing



Reference: TL0604-20

OD × ID	6 × 4 mm
Material	Super PFA
Roll length	20 m

Temperature capability depends on pressure and installation; verify derating.

RPN-09-010 04

Multi-tube bundle



Reference: PUSU(L)0604

Individual OD × ID	6 × 4 mm
Roll length	200 m
Working pressure / 20°C	10 bar

Twin or multi-line construction; specify line count, colours and outer jacket.

RPN-09-011 04

Reinforced air hose



Reference: PBH1208

ID × OD	8 × 12 mm
Roll length	100 m
Working pressure / 20°C	20 bar
Minimum bend radius	40 mm

Braided reinforcement; burst pressure is not an operating rating.

RPN-09-012 04

Air hose assembly



Reference: PBH1208 + end fittings

Hose ID × OD	8 × 12 mm
Hose base	PBH1208
End connections	Configured to order

Specify length, coupling profile and retention; assembly pressure is limited by the lowest-rated component.

Fittings & tubing

RPN-09-013 04

Air hose reel



Reference: 19 911 2022

Hose length	10 m
Hose ID	8 mm
Connection	1/4 in
Maximum pressure	16 bar

Compressed-air reel; match mounting surface and retraction path to workstation.

RPN-09-014 04

Moisture control tube



Reference: IDK04-100 / IDK06-200

OD × ID	4×2.5 / 6×4 mm
Effective length	100 / 200 mm
Material	Fluoropolymer

Water vapour diffuses through the tube wall; do not cover or use in moving applications.

RPN-09-003-A 04

Two-stage safety hose coupling



Reference: SGU-SH20

Nominal bore / profile	7.5 mm / EU
Hose tail mm	6, 8, 10
Max inlet pressure bar	12
Seal	NBR

Two-stage release: vent first, disconnect second. Confirm hose tail and mating plug profile.

RPN-09-005-A 04

Weld-spatter resistant air tubing



Reference: PUH0640 / PUH0850 / PUH1065 / PUH1280

OD × ID mm	6×4, 8×5, 10×6.5, 12×8
Working pressure (20°C)	10 bar
Roll length m	100
Wall construction	PU + protective jacket

PU inner tube with protective outer jacket for welding areas. Confirm temperature, flame rating and bend radius.

Models & specifications

RPN-08-015-A

04

Embedded push-in cartridge



Reference: G7700 4 / G7700 6 / G7700 8

Tube OD mm	4 / 6 / 8
Body length mm	10.95 / 13 / 15.5
Temperature °C	-20 to 80
Seal	NBR

Installs in a machined cavity. Up to 20 bar depends on housing, temperature and tube; not a threaded fitting.

SL

05

Elbow speed controller



Model	Tube OD mm	Thread
SL4-M5	4	M5
SL4-01	4	PT1/8
SL6-01	6	PT1/8
SL6-02	6	PT1/4
SL8-01	8	PT1/8
SL8-02	8	PT1/4
SL10-02	10	PT1/4
SL12-02	12	PT1/4

Adjusting screw and locknut; specify the metering direction.

LSA

05

Inline speed controller



Model	Tube OD mm
LSA-4	4
LSA-6	6
LSA-8	8
LSA-10	10
LSA-12	12

Push-in ends; adjustable inline flow control.

QE

05

Quick exhaust valve



Model	Port
QE-01	1/8
QE-02	1/4
QE-03	3/8
QE-04	1/2

0-145 psi (0-1.0 MPa); 23-140°F (-5 to 60°C); air service.

Flow control & accessories

CV
05

Check valve



Model	Port
CV-01	1/8
CV-02	1/4
CV-03	3/8
CV-04	1/2

0-145 psi (0-1.0 MPa); 23-140°F (-5 to 60°C); air service.

AIR-GUN
05

Air blow gun



Model	Max pressure	Temperature °C
AR20-TS	10 bar	-20 to 80
AR20-TS-L	10 bar	-20 to 80

Engineering-plastic body; dry compressed air; standard and long nozzle options.

PST
05

Sintered brass silencer



Model	Thread size
PST-01	1/8
PST-02	1/4
PST-03	3/8
PST-04	1/2

For valve exhaust; specify thread standard and allowable back pressure.

RPN-06-008
05

Two-way flow control



Reference: GRO-1/8-B

Ports	G1/8
Working pressure	0–10 bar
Temperature	−20 to +60 °C

Bidirectional restriction without a non-return bypass.

Flow control & accessories

RPN-06-009 05

Needle valve



Reference: GRO-M5-B

Ports	M5
Working pressure	0–10 bar
Adjustment	Knurled screw

Fine screw adjustment; flow varies with pressure differential and opening.

RPN-06-012 05

Pilot-operated check valve



Reference: HGL-1/8-B

Ports	G1/8
Working pressure	0.5–10 bar
Function	Piloted non-return

Pilot-released check valve; circuit must meet the release-pressure condition.

RPN-06-013 05

Shuttle valve



Reference: OS-1/8-B

Ports	G1/8
Working pressure	1–10 bar
Logic	OR

Either input can supply the output.

RPN-06-014 05

Two-pressure valve



Reference: ZK-1/8-B

Ports	G1/8
Working pressure	1–10 bar
Logic	AND

Output requires pressure at both inputs.

Flow control & accessories

RPN-06-015 05

Pneumatic timer valve



Reference: PZVT-3-SEC / PZVT-30-SEC

Delay range	0.2–3 / 2–30 s
Timing repeatability	±0.1 / ±0.3 s
Mass	45 g

Separate 3-second and 30-second versions with different adjustment ranges.

RPN-06-016 05

Pressure sequence valve



Reference: VD-3-PK-3

Working pressure	1.8–8 bar
Nominal flow	100 L/min
Ports	PK-3
Media temperature	−10 to +60 °C

Sequence-control element switched by the set pressure.

RPN-06-017 05

Two-hand control valve



Reference: ZSB-1/8-B

Working pressure	4–8 bar
Ports	G1/8
Nominal flow	50 L/min
Temperature	0–60 °C

Two-hand control block; validate the safety function at complete-machine circuit level.

RPN-06-018 05

Pneumatic counter



Reference: PZA-E-C / PZV-E-C

Digits	6 / 5
Working pressure	2–8 bar
Ports	M5

Totalising and preset down-counting types respectively; select for the control logic.

Flow control & accessories

RPN-12-002 05

Precision blow nozzle



Reference: 1010SS

Connection	1/8 NPT male
Material	Stainless steel
Air pattern	Focused

Micro focused jet; check coverage and consumption at the target distance.

RPN-12-003 05

Flat multi-hole nozzle



Reference: 1122

Blow width	2 in / 51 mm
Connection	1/4 NPT female
Material	Zinc-aluminium

Flat multi-outlet airflow; supply and shim configuration affect force.

RPN-12-004 05

Low-noise nozzle



Reference: 1100

Connection	1/4 NPT female
Consumption / 80 psig	14 SCFM
Material	Zinc-aluminium

Low-noise design; actual sound level depends on target, distance and pressure.

RPN-12-005 05

Pulse blow unit



Reference: AXTS040-X202

Working pressure	0.2–1.0 MPa
Frequency range	1–12 Hz
Actuation	Internal pilot

ON/OFF times adjust independently; pneumatic cycling needs no external pulse controller.

Flow control & accessories

RPN-12-006 05

Air amplifier



Reference: 120021

Outlet diameter	1.25 in / 32 mm
Supply connection	1/4 NPT
Design	Annular air amplifier

Entrains ambient air; total output flow is not compressed-air consumption.

RPN-12-007 05

Air knife



Reference: 110003SS

Effective length	3 in / 76 mm
Material	303 stainless steel
Design	Continuous slot

Narrow slot forms an air curtain; verify stand-off and supply pressure loss.

RPN-12-008 05

Ring blow unit



Reference: 2401SS

Bore diameter	1 in / 25 mm
Material	Stainless steel
Air direction	360° inward

Split ring for drying continuous wire and tubing; allow clearance around the workpiece.

RPN-12-009 05

Vortex-tube cooler



Reference: 3202

Consumption / 100 psig	2 SCFM
Equivalent standard flow	57 SLPM
Example cold fraction	80%

At 100 psig and 80% cold fraction, cold flow is 1.6 SCFM; temperature drop varies with duty.

Flow control & accessories

RPN-12-011 05

Metering silencer



Reference: ASN2-01

Connection	R1/8
Design	Metering + silencer
Locking	Hex lock nut

Mount on valve exhaust; adjust exhaust back-pressure to control speed.

RPN-12-012 05

Exhaust mist cleaner



Reference: AMC320-F02B

Connection	G1/4
Temperature	5–60 °C
Element pressure limit	0.1 MPa

Collects exhaust oil mist; monitor clogging back-pressure, not for high-pressure mainline filtration.

RPN-13-001 05

Ball vibrator



Reference: K-8

Test pressure	0.4 MPa
Frequency / test pressure	27,250 min^{-1}
Force / test pressure	465 N

Rotating-ball vibration; frequency and force vary with supply pressure.

RPN-13-002 05

Roller vibrator



Reference: R-50

Test pressure	0.4 MPa
Frequency / test pressure	35,150 min^{-1}
Force / test pressure	2,955 N

Rotating roller; verify mounting stiffness and fastening for vibration duty.

Flow control & accessories

RPN-13-003 05

Turbine vibrator



Reference: GT-8

Connection	G1/8
Force / 0.2 MPa	980 N
Force / 0.6 MPa	2,800 N

Eccentric turbine; select for material, hopper structure and mounting point.

RPN-13-004 05

Piston vibrator



Reference: FP-18-M

Test pressure	4 bar
Frequency / test pressure	5,100 min^{-1}
Force / test pressure	135 N

Reciprocating piston; supply adjustment changes vibration intensity and frequency.

RPN-13-005 05

Pneumatic impact hammer



Reference: SK-60

Working pressure	3–7 kgf/cm²
Mass	5.1 kg
Port size	1/4 in

Intermittent impact for hopper flow; original pressure unit retained, verify mounting surface.

RPN-13-006 05

Vibrator control module



Reference: AP series

Control mode	Work / pause timing
Setting resolution	1 s
Controlled load	Solenoid valve

Controls a vibrator through a solenoid valve; confirm power and load rating by controller variant.

Flow control & accessories

RPN-14-012 05

Hydraulic shock absorber



Reference: AC1210

Thread	M12 × 1.0
Stroke	10 mm
Energy per cycle	5 N·m

Self-compensating absorber; verify effective mass, impact speed and cycle rate.

RPN-14-013 05

Hydrocheck



Reference: SR-15 / SR30 / SR-60 / SR80 / SR100

Stroke	15 / 30 / 60 / 80 / 100 mm
Speed range	0.5–30 mm/s
Return	Spring

Adjustable hydrocheck; catalogue speed condition is a 100 kg load; validate actual duty.

RPN-06-007-A 05

Pressure-reducing speed controller



Reference: AS22R-02-08

Thread / tube OD	R1/4 / 8 mm
Operating pressure MPa	0.3-0.7
Return setting MPa	0.2 (supply 0.5)
Temperature °C	-5 to 60

Meter-in control for the return stroke. Check cylinder bore, load and speed.

RPN-06-007-B 05

Rapid supply/exhaust speed control



Reference: AS22Q-02-08

Thread / tube OD	R1/4 / 8 mm
Operating pressure MPa	0.3-0.7
Supply trigger MPa	0.2 (supply 0.5)
Temperature °C	-5 to 60

For end-of-stroke pressing or clamping. Check cylinder compatibility; pair with pressure-reducing control.

Vacuum components

SU
06

Universal flat suction cup



Model	Nominal dia. mm	Material
SU6N	6	NBR
SU8N	8	NBR
SU10N	10	NBR
SU15N	15	NBR
SU20N	20	NBR
SU25N	25	NBR
SU30N	30	NBR
SU40N	40	NBR

Cup only; select fittings separately. Size the vacuum system for surface, load and acceleration.

SB
06

Bellows suction cup



Model	Nominal dia. mm	Material
SB5S	5	Silicone
SB6S	6	Silicone
SB8S	8	Silicone
SB10S	10	Silicone
SB12S	12	Silicone
SB15S	15	Silicone
SB17S	17	Silicone
SB20S	20	Silicone

Cup only; select fittings separately. Size the vacuum system for surface, load and acceleration.

SFU
06

Large flat suction cup



Model	Diameter mm	Port
SFU100N-G2F	100	G1/4
SFU125N-G2F	125	G1/4
SFU160N-G4F	160	G1/2
SFU210N-G4F	210	G1/2
SFU250N-G4F	250	G1/2
SFU300N-G4F	300	G1/2
SFU400N-G4F	400	G1/2

NBR, hardness 55; female thread; for broad, flat workpieces.

SOF
06

Oval flat suction cup



Model	Size mm	Port
SOF16x50N-G2F	16x50	G1/4
SOF20x80N-G2F	20x80	G1/4
SOF23x60N-G2F	23x60	G1/4
SOF30x90N-G2F	30x90	G1/4
SOF40x80N-G2F	40x80	G1/4
SOF40x110N-G2F	40x110	G1/4
SOF50x100N-G2F	50x100	G1/4
SOF60x120N-G2F	60x120	G1/4

NBR, hardness 60; female thread; for long, narrow workpieces.

Vacuum components

RPN-10-001 06

Single-stage ejector



Reference: ACV-10HS

Nozzle diameter	1.0 mm
Rated supply	5 bar
Maximum vacuum	90 kPa
Maximum suction flow	27 NL/min

Maximum vacuum and maximum suction flow occur at different operating points.

RPN-10-002 06

Multistage ejector



Reference: AGS-C-X2.5-2

Stages	2
Supply pressure	4.5–6 bar
Vacuum port	G1/8
Suction flow / 5 bar	15.6 NL/min

Flow is at zero vacuum; size for leakage and evacuation time.

RPN-10-003 06

Inline ejector



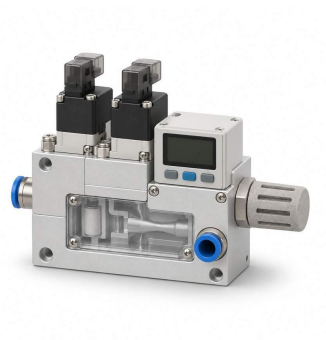
Reference: ABT-T05

Tube OD	6 mm
Rated supply	5 bar
Maximum vacuum	81 kPa
Maximum suction flow	18 NL/min

Compact inline design; distinguish supply, vacuum and exhaust.

RPN-10-004 06

Integrated ejector



Reference: AZQ-X

Supply pressure	3–6 bar
Rated supply	5 bar
Maximum vacuum	91 kPa
Maximum suction flow	12 NL/min

Integrated control; confirm voltage, signal and air-saving suffixes.

Vacuum components

RPN-10-005 06

Vacuum cartridge



Reference: X10-3

Stages	3
Size group	MINI
Matching housing	AGS-N

Cartridge requires matching housing; assembled performance depends on pressure and circuit.

RPN-10-009 06

Modular suction cup



Reference: SFM50U-G3F

Diameter	50 mm
Material	PU
Hardness	70 Shore A
Connection	G3/8 female

Replaceable modules; calculate holding capacity for surface and motion conditions.

RPN-10-010 06

Foam area gripper



Reference: TXL200×300-A-C

Gripping face	200 × 300 mm
Rated supply	6 bar
Maximum suction flow	710 NL/min
Contact layer	Foam

Check leakage on porous workpieces; theoretical force is not a safe payload.

RPN-10-011 06

Suction-cup area gripper



Reference: TXC130×400-B30

Gripping face	130 × 400 mm
Cup quantity	28
Rated supply	6 bar
Maximum suction flow	710 NL/min

Size cup array for actual coverage; check flatness and centre of gravity.

Vacuum components

RPN-10-012 06

Needle gripper



Reference: SNC4 / SNC10

Needles	4 / 10
Needle diameter mm	0.8 / 1.2
Needle stroke mm	3 / 7
Temperature °C	5-60

SNC4 supply 4-6 bar. Confirm SNC10 pressure range by revision. Rated supply is 4 bar.

RPN-10-013 06

Bernoulli gripper



Reference: SNT40-SN

Diameter	40 mm
Supply pressure	1–6 bar
Rated supply	5 bar
Temperature	0–60 °C

Airflow lifting; locating cushions may contact the workpiece.

RPN-10-014 06

Magnetic gripper



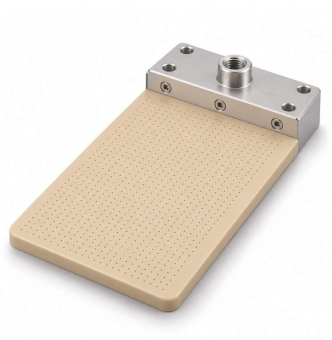
Reference: SLG40-G2F

Diameter	40 mm
Connection	G1/4 female
Supply pressure	3.5–6 bar
Temperature	5–70 °C

For ferromagnetic parts; holding force depends on thickness, material and gap.

RPN-10-015 06

Wafer gripper



Reference: SLW100PK-M10I-F1

Contact face	100 × 55 mm
Material	PEEK
Rated supply	5 bar
Temperature	0–60 °C

M10 denotes generator size, not a mounting thread; validate wafer dimensions.

Vacuum components

RPN-10-016 06

Vacuum release valve



Reference: ZVS-G1F

Supply pressure	3–7 bar
Blow-off flow	90–160 NL/min
Connection	G1/8
Temperature	−10 to +80 °C

Mount in the cup circuit for rapid release; verify port orientation.

RPN-10-017 06

Vacuum regulator



Reference: IRV10-C08

Set pressure range	−100 to −1.3 kPa
Tube OD	8 mm
Temperature	5–60 °C

Achievable pressure is limited by the vacuum source; observe port direction.

RPN-10-018 06

Vacuum filter



Reference: ZFC5 series

Tube OD	4 / 6 mm
Standard filtration	5 µm
Pressure / 20°C	−100 kPa to 1 MPa

Use current ZFC5 specifications; do not mix with legacy ZFC200 element data.

RPN-10-019 06

Vacuum saving valve



Reference: ZVT60-G1M

Orifice	0.6 mm
Connection	G1/8 male
Flow / −60 kPa	3.2 NL/min

Restricts leakage at uncovered cups; not a complete shut-off check valve.

Vacuum components

RPN-10-020 06

Level compensator



Reference: PSPE-I20M5M-M10

Compensation stroke	20 mm
Cup connection	M5 × 0.8 male
Mounting thread	M10 × 1
Spring arrangement	Internal

Compensates workpiece height variation; provide separate lateral guidance.

RPN-10-021 06

Suction-cup mounting fitting



Reference: PJS-G1F-SF1-EW

Thread	G1/8 female
Cup interface	SF1
Configuration	Mesh filter

Removable mounting fitting; match SF1 interface to the cup selection table.

RPN-10-022 06

Vacuum distributor



Reference: VTR G1-IG 9xG1/2 POM

Body material	POM
Main port	G1 female
Branch ports	9 × G1/2

Central vacuum distribution; verify mounting and seals against the port drawing.

RPN-14-010 06

Replacement suction pad



Reference: SFM50U

Cup diameter	50 mm
Material	Polyurethane
Hardness	70 Shore A

Modular flat-cup replacement; connection fitting selected separately.

Vacuum components

RPN-10-003-A 06

Through-bore conveying ejector



Reference: ACP250 / ACP375 / ACP500 / ACP750

Nozzle bore mm	6.5 / 9.5 / 13 / 19
Rated-data supply bar	5.5
Temperature °C	-20 to 80
Material	Aluminium / stainless

For granules, powder and chips. S suffix: stainless steel. Size flow for vacuum level and material.

RPN-10-019-A 06

Vacuum saver for sealed workpieces



Reference: ESS 0255753 / 0255755

Vacuum setting kPa	-90 to -30
Ports (respectively)	8 mm / G1/4
Actuation	Fully pneumatic
Control	Stop / restart airflow

Standalone unit. Stops air at set vacuum and restarts as vacuum falls; for low-leakage workpieces.

RPN-10-019-B 06

Vacuum saver for leaking workpieces



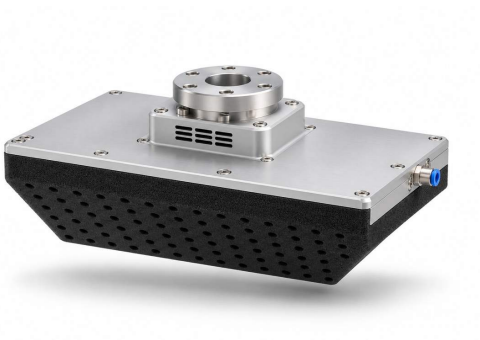
Reference: ESL 0255758 / 0255760

Vacuum setting kPa	-70 to -20
Ports (respectively)	8 mm / G1/4
Actuation	Fully pneumatic
Control	Modulated air pressure

Standalone unit. Modulates ejector feed pressure as leakage changes; for porous or leaking workpieces.

RPN-10-010-A 06

Lightweight cobot vacuum gripper



Reference: ATH-X-SVK200×300A20F

Selected footprint mm	200×300
Foam thickness mm	20
Vacuum source	Internal ejector
Valve / filter	Check valve / foam filter

Foam face for box palletizing. Other sizes: 200×400, 300×400; cup versions available. Verify application load.

Models & specifications

RPN-10-010-B

06

Vacuum gripper for flexible bags



Reference: MSH-X-245125-30

Footprint L×W mm	245×125
Foam thickness mm	30
Vacuum source	Internal ejector
Contact surface	Flexible foam

For foil and detergent pouches. Verify grip with bag film, contents and leakage tests.

MHZ2

07

Parallel gripper



Model	Bore mm	Total travel mm
MHZ2-6D	6	4
MHZ2-10D	10	4
MHZ2-16D	16	6
MHZ2-20D	20	10
MHZ2-25D	25	14
MHZ2-32D	32	22
MHZ2-40D	40	30

Double acting; max. 0.7 MPa; -10 to 60°C. Travel is the combined movement of both fingers.

MHL2

07

Wide-opening gripper



Model	Bore mm	Total travel mm
MHL2-10D	10	20
MHL2-16D	16	30
MHL2-20D	20	40
MHL2-25D	25	50
MHL2-32D	32	70
MHL2-40D	40	100
MHL2-10D1	10	40
MHL2-16D1	16	60

Double acting; long opening travel; travel combines both fingers.

MHC2

07

Angular gripper



Model	Bore mm	Port
MHC2-10D	10	M3x0.5
MHC2-16D	16	M5x0.8
MHC2-20D	20	M5x0.8
MHC2-25D	25	M5x0.8

Double acting; -10 to 60°C; pivoting jaws.

Grippers & rotary actuators

MHY2 07

180-degree gripper



Model	Bore mm	Torque N·m*
MHY2-10D	10	0.16
MHY2-16D	16	0.54
MHY2-20D	20	1.1
MHY2-25D	25	2.28

Double acting; 0.1-0.6 MPa; M5 port. *Holding torque at 0.5 MPa.

RPN-03-001 07

Rack-and-pinion rotary actuator



Reference: CRA1-Z

Bore	30 / 50 / 63 / 80 / 100 mm
Drive	Rack and pinion
Shaft options	Single / double

Auto-switch and cushion options; confirm angle, shaft end and torque by full model.

RPN-03-002 07

Vane rotary actuator



Reference: CRB2-Z

Sizes	10 / 15 / 20 / 30 / 40
Single-vane angles	90° / 180° / 270°
Double-vane angles	90° / 100°

Select vane type, shaft configuration and port orientation.

RPN-03-003 07

Pneumatic rotary table



Reference: MSQB1A / MSQB2A / MSQB3A / MSQB7A

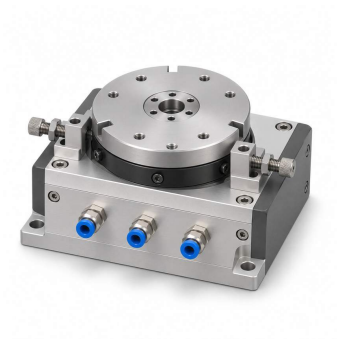
Maximum rotation	190°
Working pressure	0.1–0.7 MPa
Temperature	0–60 °C

Small rack-and-pinion rotary table; verify inertia and allowable kinetic energy.

Grippers & rotary actuators

RPN-03-004 07

Three-position rotary table



Reference: MSZ

Positions	3
Angular envelope	190°
Working pressure	0.2–1.0 MPa

Basic and high-precision types; adjustable intermediate position.

RPN-03-005 07

Rotary-linear actuator



Reference: MRQ32 / MRQ40

Bore	32 / 40 mm
Stroke	5–100 mm
Rotation	90° / 180°

Linear and rotary motions can operate simultaneously or alternately.

RPN-03-006 07

Swing clamp cylinder



Reference: MK-Z

Bore	12 / 16 / 20 / 25 / 32 / 40 / 50 / 63 mm
Series clamp strokes	10 / 20 / 30 / 50 mm
Direction	CW / CCW

Available clamp strokes vary with bore; specify clamp-arm configuration.

RPN-03-007 07

Lever clamp cylinder



Reference: CKZ2N

Bore	50 / 63 / 80 mm
Arm opening	30° / 45° / 60° / 75° / 90° / 105° / 120° / 135°
Mechanism	Power clamp linkage

Select arm, opening angle and position switch to suit the fixture.

Grippers & rotary actuators

RPN-03-008 07

Pallet lock unit



Reference: WVS

Working pressure	0.25–0.5 MPa
Output classes	4 / 6 / 10 / 16 kN
Action	Double acting

Combined locating and clamping with mechanical lock; use matching pallet blocks.

RPN-03-009 07

Bellows actuator



Reference: EB-80-20 / EB-80-45

Stroke	20 / 45 mm
Port	G1/4
Working pressure	0–8 bar
Temperature	−40 to +70 °C

20 mm single bellows or 45 mm double bellows; external stroke limiting is required.

RPN-03-010 07

Fluidic muscle



Reference: DMSP-10

Nominal length	40–9000 mm
Max. contraction	25%
Working pressure	0–0.8 MPa
Port	G1/8

Single-acting pulling muscle; specify length and end connections.

RPN-04-002 07

Compact parallel gripper



Reference: MHF2-8D / MHF2-8D1 / MHF2-8D2

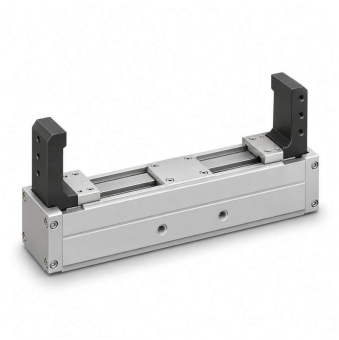
Bore	8 mm
Total opening stroke	8 / 16 / 32 mm
Mass	65 / 85 / 120 g

Low-profile parallel two-finger gripper; short, medium and long stroke respectively.

Grippers & rotary actuators

RPN-04-004 07

Long-stroke parallel gripper



Reference: MHL2-16DZ / MHL2-16D1Z / MHL2-16D2Z

Bore	16 mm
Opening stroke	30 / 60 / 80 mm
Fingers	2
Action	Double acting

Wide-opening parallel gripper; check workpiece diameter and finger moment.

RPN-04-005 07

Three-finger centric gripper



Reference: MHS3-40D

Bore	40 mm
Fingers	3
Port	M5 × 0.8
Action	Double acting

Three-finger centric gripping; design fingertips for the workpiece contour.

RPN-04-008 07

Toggle gripper



Reference: MHT2-Z

Bore	32 / 40 / 50 / 63 mm
Mechanism	Toggle linkage
Switch mounting faces	4

Toggle linkage maintains the closed holding state; select by grip point and moment.

RPN-04-009 07

Rotary gripper



Reference: MRHQ10D / MRHQ16D / MRHQ20D / MRHQ25D

Bore	10 / 16 / 20 / 25 mm
Gripper stroke	4 / 6 / 10 / 14 mm
Rotation options	90° / 180°
Finger repeatability	±0.01 mm

Combined gripping and rotation; verify pressure limits separately for both sections.

Models & specifications

RPN-04-010 07

Soft-finger gripper



Reference: SFG-FNM4-N2027

Published payload	1200 g
Mass	480 g
Max. working pressure	100 kPa

Inflatable fingers conform to the workpiece; actual grip depends on shape and friction.

RPN-04-011 07

Robot tool changer



Reference: LTC-0010F

Recommended payload	≤10 kg
Working pressure	0.4–0.7 MPa
Repeatability	±0.02 mm
Air passages	6 × M5

Pair the LTC-0010FM master with the LTC-0010FT tool plate.

RPN-04-011-A 07

Multi-airway robot tool changer



Reference: RTC-50-R/T / RTC-90-R/T / RTC-150-R/T

Nominal sizes mm	50 / 90 / 150
Max payload respectively kg	5 / 20 / 50
Air passages respectively	4 / 8 / 10
Temperature °C	5 to 60

R: robot side; T: tool side. Air passages: -1 to 6 bar. Automated locking accessory and sensors optional.

CS1-G 08

Magnetic cylinder switch



Model	Voltage V	Cable m
CS1-G	5-240 AC/DC	2

Normally open; max. 100 mA / 10 W; -10 to 70°C; IP67. Observe all electrical load limits.

Switches & sensing

IS1000 08

Mechanical pressure switch



Model	Set range MPa	Port
IS1000-01	0.1-0.4	PT1/8

Max. operating pressure 0.7 MPa; 5-60°C; male thread.

RPN-11-002 08

Solid-state cylinder switch



Reference: D-M9N

Output	NPN, 3-wire
Supply	4.5–28 VDC
Lead length	0.5 m

For magnetic-piston cylinders; match mounting groove and PLC input.

RPN-11-003 08

Continuous position sensor



Reference: SDAT-MHS-M50-1L-SA-E-0.3-M8

Measuring range	0–50 mm
Analogue output	4–20 mA
Resolution	0.05 mm
Nominal supply	24 VDC

Magnetic Hall sensing; for T-slot, verify piston magnet and sensing range.

RPN-11-004 08

Mechanical pressure gauge



Reference: 111.10 series

Dial sizes	40 / 50 / 63 / 100 mm
Connection	1/8 / 1/4 NPT
Steady working pressure	75% of full scale

Lower mount; select range for the duty, full scale is not continuous working pressure.

Switches & sensing

RPN-11-005 08

Digital pressure gauge



Reference: PPA100

Measuring range	−0.1 to 1 MPa
Connection	M5 × 0.8
Power	2 × AA batteries

Handheld checker for inspection; not a continuous-control pressure switch.

RPN-11-007 08

Digital pressure/vacuum switch



Reference: ZSE20F

Rated range	−100 to +100 kPa
Setting increment	0.1 kPa
Supply	12–24 VDC ±10%

Compound pressure range; select output and connection suffixes.

RPN-11-008 08

Pressure transmitter



Reference: A-10 series

Output options	4–20 mA / 0–10 V / 0–5 V
Process connection	G1/4 A / 1/4 NPT
Non-linearity options	0.25% / 0.5%

Range, supply and connector depend on configuration; options are not freely interchangeable.

RPN-11-009 08

Air flow meter/switch



Reference: PF3A7R5H / PF3A701H

Rated flow	5–500 / 10–1000 L/min
Measured fluid	Air / N2
Display	3-colour

Match range to model; verify reference conditions, output and port configuration.

Switches & sensing

RPN-11-010 08

Differential-pressure indicator



Reference: GD40-2-01

Differential range	0–0.2 MPa
Accuracy	±0.006 MPa
Function	Filter differential pressure

Connect upstream and downstream of filter; differential range is not line pressure.

RPN-11-011 08

Dew-point sensor



Reference: FA 510 / 0699.0510

Dew-point range	−80 to +20 °Ctd
Output	4–20 mA, 3-wire
Supply	10–36 VDC
Connection	G1/2

Distinguish pressure and atmospheric dew point; select the sampling chamber.

RPN-11-012 08

Air-gap and workpiece seating sensor



Reference: ISA3-G

Rated gap	0.02–0.15 mm
Rated pressure	100–200 kPa
Supply filtration	5 µm

For workpiece seating confirmation; validate nozzle, tube length and target surface together.

RPN-14-011 08

Sensor mount and cable



Reference: NEBA-M8G3-U-2.5-N-LE3

Connection	M8 × 1, 3-pin female
Cable length	2.5 m
Cable end	3 open wires

Straight sensor cable; select mounting clips or brackets separately for the cylinder groove.

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