

AIR UNITS

Production Program



HEAT TREATMENT
TECHNOLOGY



HIGH
PROTECTION



SELF-LOCKING
MECHANISM



EFFICIENT WATER
REMOVAL



REMOTE
MONITORING



DIVERSE
MODULARIZATION



NEW ENERGY
INDUSTRY



MEDICAL
INDUSTRY



TEXTILE
INDUSTRY



SEMICONDUCTOR
INDUSTRY



MACHINE
TOOL



FOOD
INDUSTRY



INDUSTRY
4.0

air treatment units
pressure regulators**AR***

Pressure regulators

Model	Port size	Operating pressure [MPa]/[bar]	Regulated pressure [MPa]/[bar]	Repeatability
ARB20	1/8, 1/4	1/10	0.05±0.85/0.5±8.5	-
ARE30	1/4, 3/8, 1/2	1/10	0.05±0.85/0.5±8.5	-
ARG40	1/4, 3/8, 1/2	1/10	0.05±0.85/0.5±8.5	-
ARH40	1/4, 3/8, 1/2	1.5/15	0.1±0.85/1±8.5 0.1±1.5/1±15	-
ARM40	1/4, 3/8, 1/2	1/10	0.1±0.85/1±8.5	-
ARP50	3/4, 1	1.5/15	0.05±0.85/0.5±8.5	±7% F.S.
ARQ90	1 1/2	2.1/21	0.09±0.86/0.9±8.6	-
ARR90	2	3.1/31	max 1.75/max 17.5	-



High pressure regulators

Model	Type	Port size	Max operating pressure [MPa]/[bar]	Regulated pressure [MPa]/[bar]
ARS20	Standard	1/4	3.5/35	0±1/0±10
ARS20H	High pressure	1/4	3.5/35	0±2/0±27

air treatment units
filters**AF***

Filters

Model	Port size	Operating pressure [MPa]/[bar]	Drain capacity [cm ³]	Removal ratio [%]	Rated flow [l/min]	Filter element [μm]
AFB20	1/8, 1/4	0.05±1/0.5±10	9.5	-	-	40, 5
AFB20L	1/8, 1/4	0.05±1/0.5±10	25	-	-	40, 5
AFE30	1/4, 3/8, 1/2	0.05±1/0.5±10	35	-	-	5, 40
AFG40	1/4, 3/8, 1/2	0.05±1/0.5±10	100	-	1500±2200	40, 5
AFH40	1/4, 3/8, 1/2	0.05±1.5/0.5±15	70	-	1500±2500	40, 5
AFM40	1/4, 3/8, 1/2	0.05±1/0.5±10	75	-	-	40, 5
AFP50	3/4, 1	0.05±1.5/0.5±15	70, 75	-	-	40
AFQ90	1 1/2	0.05±1.75/0.5±17.5	-	99	20000	50
AFR90	2	0.05±1.75/0.5±17.5	-	-	63000	50

air treatment units
lubricators**AL***

Lubricators

Model	Port size	Max operating pressure [MPa]/[bar]	Lubricating oil capacity [cc]	Min flow for oil drip [l/min]	Max flow rate [l/min]
ALB20	1/8, 1/4	1/10	20	35, 50	-
ALB20L	1/8, 1/4	1/10	35	35, 50	-
ALE30	1/4, 3/8, 1/2	1/10	65	50, 60, 60	-
ALG40	1/4, 3/8, 1/2	1/10	200	100, 200, 400	400, 1300, 2500
ALH40	1/4, 3/8, 1/2	1.5/15	200	30, 65, 80	1200, 2000, 2100
ALM40	1/4, 3/8, 1/2	1/10	200	30, 65, 80	-
ALP50	3/4, 1	1.5/15	200	25, 33	-
ALQ90	1 1/2	1.75/17.5	1000	204	12000

air treatment units
air, mist, micro mist filters**AS***

Air, mist, micro mist filters

Model	Port size	Operating pressure [MPa]/[bar]	Drain capacity [cm ³]	Filter element [μm]
ASB20	1/8, 1/4	0.05±1/0.5±10	6.5	0.3, 0.01
ASB20L	1/8, 1/4	0.05±1/0.5±10	20	0.3, 0.01
ASH40	1/4, 3/8, 1/2	0.05±1.5/0.5±15	70	5, 0.3, 0.01
ASM40	1/4, 3/8, 1/2	0.05±1/0.5±10	75	5, 0.3, 0.01
ASP50	3/4, 1	0.05±1/0.5±10	75, 70	0.3, 0.01

air treatment units
water, air, mist and micro mist filters**ACT - ACU - ACW - ACX - ACY**

Water, air, mist and micro mist filters.

- Absorbing the odor and removing oil mist with an activated carbon element in compressed air.
- The filter can be applied to requirement of high purity and oil-free, such as precision painting operations or food and medical equipment.



Model	Body size	Filter Type	Port size	Operating pressure [MPa]/[bar]	Nominal flow capacity [l/min (0.7 MPa)]	Removal rate [%]	Compatible with modular	Notes
ACT	25	Water Separator	1/4, 3/8	0.05±1/0.5±10	650	99±1	A*H40, A*M40	Separating the water droplet with a special filtration in the compressed air (cannot remove moisture)
	35		3/8, 1/2	0.05±1/0.5±10	1350	99±1	A*P50	
	45		1/2, 3/4	0.05±1/0.5±10	2100	99±1	A*P50	
	55		3/4, 1	0.05±1/0.5±10	3600	99±1	A*P50	
Model	Body size	Filter Type	Port size	Operating pressure [MPa]/[bar]	Nominal flow capacity [l/min (0.7 MPa)]	Filter element [μm]	Compatible with modular	Notes
ACU	25	Main line filter	1/4, 3/8	0.05±1/0.5±10	650	3	A*H40, A*M40	
	35		3/8, 1/2	0.05±1/0.5±10	1350	3	A*P50	
	45		1/2, 3/4	0.05±1/0.5±10	2100	3	A*P50	
	55		3/4, 1	0.05±1/0.5±10	3600	3	A*P50	
ACW	25	Mist filter	1/4, 3/8	0.05±1/0.5±10	650	0.3	A*H40, A*M40	Assembling a ACW series as pre-filter to extend the life of activated carbon.
	35		3/8, 1/2	0.05±1/0.5±10	1350	0.3	A*P50	
	45		1/2, 3/4	0.05±1/0.5±10	2100	0.3	A*P50	
	55		3/4, 1	0.05±1/0.5±10	3600	0.3	A*P50	
ACX	25	Micro mist filter	1/4, 3/8	0.05±1/0.5±10	500	0.01	A*H40, A*M40	
	35		3/8, 1/2	0.05±1/0.5±10	1000	0.01	A*P50	
	45		1/2, 3/4	0.05±1/0.5±10	2000	0.01	A*P50	
	55		3/4, 1	0.05±1/0.5±10	3600	0.01	A*P50	
ACY	25	Odor removal filter	1/4, 3/8	0.05±1/0.5±10	500	0.01±Deodorization	A*H40, A*M40	
	35		3/8, 1/2	0.05±1/0.5±10	1000	0.01±Deodorization	A*P50	
	45		1/2, 3/4	0.05±1/0.5±10	2000	0.01±Deodorization	A*P50	
	55		3/4, 1	0.05±1/0.5±10	3600	0.01±Deodorization	A*P50	

*air treatment units
f.r. units*



AU*

F.R. units

Model	Port size	Operating pressure [MPa]/[bar]	Drain capacity [cm³]	Filter element [µm]
AUB20	1/8, 1/4	0.05÷1/0.5÷10	9,5	40, 5
AUB20L	1/8, 1/4	0.05÷1/0.5÷10	25	40, 5
AUE30	1/4, 3/8, 1/2	0.05÷1/0.5÷10	35	5, 40
AUG40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	100	40, 5
AUH40	1/4, 3/8, 1/2	0.05÷1.5/0.5÷15	70	40, 5
AUM40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	75	40, 5
AUP50	3/4, 1	0.05÷1.5/0.5÷15	70, 75	40

*air treatment units
f.r.l. units*



AP*

F.R.+L. units

Model	Port size	Operating pressure [MPa]/[bar]	Lubricating oil capacity [cc]	Min. flow for oil drip [l/min]	Filter element [µm]
APB20	1/8, 1/4	0.05÷1/0.5÷10	20	35, 50	40, 5
APB20L	1/8, 1/4	0.05÷1/0.5÷10	35	35, 50	40, 5
APE30	1/4, 3/8, 1/2	0.05÷1/0.5÷10	65	50, 60, 60	5, 40
APG40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	200	100, 200, 400	40, 5
APH40	1/4, 3/8, 1/2	0.05÷1.5/0.5÷15	200	30, 65, 80	40, 5
APM40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	200	30, 65, 80	40, 5
APP50	3/4, 1	0.05÷1/0.5÷10	200	25, 33	40

*air treatment units
f.r.l. units*



AT*

F.+R.+L. units

Model	Port size	Operating pressure [MPa]/[bar]	Lubricating oil capacity [cc]	Min. flow for oil drip [l/min]	Filter element [µm]
ATB20	1/8, 1/4	0.05÷1/0.5÷10	20	35, 50	40, 5
ATB20L	1/8, 1/4	0.05÷1/0.5÷10	35	35, 50	40, 5
ATE30	1/4, 3/8, 1/2	0.05÷1/0.5÷10	65	50, 60, 60	5, 40
ATG40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	200	100, 200, 400	40, 5
ATH40	1/4, 3/8, 1/2	0.05÷1.5/0.5÷15	200	30, 65, 80	40, 5
ATM40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	200	30, 65, 80	40, 5
ATP50	3/4, 1	0.05÷1/0.5÷10	200	25, 33	40

*air treatment units
soft start-up valves*



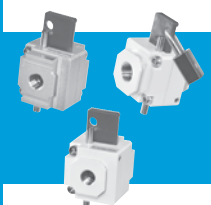
AW*

Start-up valves for low speed air supply to gradually raise initial pressure in an air system and for quick exhaust by cutting off air supply.

- Combination with modular type air units (F.R.L. unit).
- Adaptor possess smooth pressure relief is optional.

Model	Port size	Operating pressure [MPa]/[bar]	Effective orifice [mm²]	Voltage	Compatible with modular (F.R.L)
AWB20	1/4	0.25÷1/2.5÷10	1(P)→2(A): 20, 2(A)→3(R): 24	AC110V/220V DC24V	-
AWD30	3/8	0.25÷1/2.5÷10	1(P)→2(A): 37, 2(A)→3(R): 49	AC110V/220V DC24V	A*E30
AWG40	1/2	0.25÷1/2.5÷10	1(P)→2(A): 61, 2(A)→3(R): 76	AC110V/220V DC24V	A*H40 - A*M40

*air treatment units
shut-off valves*



AJ*

Shut-off valves

Model	Port size	Port/Position	Operating pressure [MPa]/[bar]	Model for F.R.L.
AJE30	1/4, 3/8, 1/2	2/2, 3/2	0÷1.5/0÷15	A*E30
AJG40	1/4, 3/8, 1/2	2/2, 3/2	0÷1.5/0÷15	A*H40 - A*M40



AK*

Manual/Solenoid On-Off valves

Model	Port size	Port/Position	Operating pressure [MPa]/[bar]	Voltage Solenoid Type	Model for F.R.L.
AKE30	1/4, 3/8, 1/2	3/2	0.1÷1/1÷10	AC110V/220V(50/60)Hz, DC24V	A*E30
AKG40	1/4, 3/8, 1/2	3/2	0.1÷1/1÷10		A*H40 - A*M40

*air treatment units
precision regulators*



AQ*

Precision regulators: can be used with mechanical or electronic digital pressure gauge.

- Convenient design, quick mounted bracket, can also be installed on the panel.

Model	Port size	Max operating pressure [MPa]/[bar]	Regulated pressure [MPa]/[bar]	Repeatability [% F.S.]	Air consumption [l/min(ANR)F.S.]	Compatible with modular
AQA10	1/8	1/10	0.005÷0.8/0.05÷8	±0.5	4.4	-
AQB20	1/4	1/10	0.005÷0.8/0.05÷8	±0.5	4.4	A*E30
AQD30	1/4 3/8 1/2	1/10	0.005÷0.8/0.05÷8	±0.5	11.5	A*H40 A*M40



air treatment units hand-held regulators



AND

Hand-held regulators with no convex shaft design, small size and high transportability.

- Anodized aluminium body for lightweight design (about 80g)
- The outlet pressure can be observed and adjusted through the scale of the knob. The lock mechanism can prevent rotation accidentally.
- The unique structure of adjustment knob enables the pressure regulation to be completed within one turning round.
- Outlet pressure can be directly exhausted by turning back the adjustment knob.

Model	Port size	Max operating pressure [MPa]/[bar]	Regulated pressure [MPa]/[bar]	Proof pressure [MPa]/[bar]	Weight [g]
AND30	1/4	1.5/15	0.3÷0.9/3÷9	3.75/37.5	80

air treatment units auto drainers



AD*

Auto drainers

Model	Port size	Max operating pressure [MPa]/[bar]	Discharge per operation [cc]
ADG40	1/4, 3/8, 1/2	0.05÷1/0.5÷10	-
ADH40	1/2	0.1÷1.3/1÷13	-
ADL40	1/2	0.1÷1.3/1÷13	-
ADN50	1/2 (Inlet), 3/8 (Outlet)	0.13÷1.3/1.3÷13	60/ per on time. Max operation 25 times per minute.
ADP50	1/2 (Manual outlet) 3/8, 5/16 hose (Automatic outlet)	0.05÷1/0.5÷10	-

air treatment units high efficiency compressed air filters



AHA - AHB

Top quality pleated filters void 98% volume.

- **Filter media:** high performance borosilicate microfiber with 98% void volume. The pleated design assures the highest possible filtration area within the element geometry to provide low operating cost.
- **End cap:** an O-ring sealed alumina end cap for the highest possible operating temperature, together with tie rod construction, provides highest possible security against pressure spikes in the compressed air system.
- **Stainless steel support sleeves:** inner and outer SS support sleeves for supporting the filter media, including a mechanical pre-separation.

Model	Port size	Operating pressure [MPa]/[bar]	Max capacity [Nm ³ /min]	Oil removal [mg/m ³]	Filter element [µm]
AHA	1/2÷2 1/2	16/160	1.6÷25	0.003÷0.1	0.01, 1, 3
AHB	1/2÷2 1/2, 3"÷8"FL	10/100	1.6÷150	0.003÷0.1	0.01, 1, 3

air treatment units electro-pneumatic regulators



AE*

Electro-pneumatic regulators with stepless control of air pressure proportional to electrical signal.

- Simplify complex pipeline for controlling different pressure.
- Compatible with different modular.
- Pressure display unit MPa, kgf/cm², bar, psi, kPa.
- Achieve high precision pressure control with microcomputer PID.

Model	Port size	Max operating pressure [MPa]/[bar]	Output pressure display [% F.S. ±1 digit]	Enclosure	Compatible with modular
AEB20	1/4, 3/8	1/10	±2	IP65	A'E30
AED30	1/4, 3/8, 1/2	1/10	±2	IP65	A'H40 - A'M40

Communication type

Model	Port size	Max operating pressure [MPa]/[bar]	Output pressure display [% F.S. ±1 digit]	Communication Protocol	Compatible with modular
AEC20	1/4, 3/8	1/10	±2	RS-232, RS-485	A'E30
AEF30	1/4, 3/8, 1/2	1/10	±2	RS-232, RS-485	A'H40 - A'M40

air treatment units digital condensational removals with timer



AGA - AGB - AGC

Digital Condensation Removals with Timer are compact, modular timer valves combination specifically designed for air line condensation removal.

- Compatible with valves size to obtain an optimal system.
- Easily programmable by two press-keys and a LCD display.
- Timers are water and dust protected to IP65 when installed properly to a coil and connector with provided M3 screw.

Model	Port size	Seal material	Flow rate [Nl/min]	Operating pressure [bar]	Coil power AC/DC
AGA	1/8, 1/4	NBR, EPDM, Viton, Teflon	30÷180	AC: 1÷30 DC: 0.1÷30	AC: 5.3÷8 VA DC: 5.2÷6.8 W
AGB	1/4, 3/8, 1/2, 3/4	NBR, EPDM, Viton, Teflon, Ruby, FFKM	100÷1300	AC: 0.4÷40 DC: 0.4÷30	AC: 8.6÷24 VA DC: 10÷18.5 W
AGC	1/4, 3/8, 1/2	NBR, Viton	140÷950	AC: 1.5÷25 DC: 1.5÷20	AC: 5.7÷23 VA DC: 5.2÷18.5 W



Tempering treatment	Tempering treatment makes the inner case more solid and reduces fracture possibility when operating.
Protection	Body with SurTec 650 surface treatment enhance the resistance of oxidation from acidbase.
Self-locking	Pressed-in and self-locking mechanism to ensure stability.
Filter	Water removal rate 93%, 99% (Precision)
Precision regulator	Repeatability under ±0.5% F.S.
Remote monitoring	Achieve remote monitoring through the feedback of electric signal and stepless control of the thrust force.
Diversified combination	Diversified modular products can be applied in the different instances.
Flow rate	To 6 bar and Δp 1 bar



Cy.Pag. is a **leading manufacturer of pneumatic cylinders** for industrial automation based in Italy, in an area of 4000 m² located in the province of Sondrio, in Morbegno, Valtellina.

It was founded in 1995 by **Adriano Pagni**, a pneumatics components designer since the 1960s who has worked in several multinational companies and contributed to the definition of the current ISO standards.

Custom cylinders are Cy.Pag.'s main strength: designed and built to meet specific customer requirements, they have fulfilled thousands of requests and found application in many sectors (automotive, packaging, railway, food...), guaranteeing extremely high levels of **precision and reliability**, increasing performance and reducing costs.

With 70% of its products sold abroad, Cy.Pag. has a strong export orientation, while also serving hundreds of customers in Italy.

In recent years it has begun a selecting process of manufacturers capable of meeting its quality standards, building partnerships that today allow Cy.Pag. to supply a **wide range of pneumatic automation components** of the highest standard quality.

In addition to pneumatic cylinders, Cy.Pag. can now offer its customers: **valves, air units** and components related to End of Arm Tooling (EOAT), such as **handling & grippers**.

Thanks to the passion, expertise and continuous improvement orientation that join people who work in the company, **Cy.Pag.** brand has become synonymous with excellence and reliability in the industrial automation sector, and its products are today exported to more than 40 countries worldwide.



Cy.Pag. S.r.l.

Via del Commercio, 13 - 23017 - Morbegno (SO) - Italy

phone: +39 0342 605011 - **fax:** +39 0342 614971 - **email:** info@cypag.com

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