



PRODUCT CATALOG-I

ALLOYSTAR CO.,LTD

A ALLOYSTAR

SCUBA DIVING EQUIPMENT

FACTORIES • CUSTOMIZATION
PROFESSIONAL



Page 1 of 29		UNICO20250812XS178
Technical Construction File EN 250:2014 Respiratory equipment Open-circuit self-contained compressed air diving apparatus — Requirements, testing and marking		
Report reference No.	UNICO20250812XS178	APPROVE <i>[Signature]</i> Jin on Certification Testing Co., LTD [Stamp]
Approved by (+ signature)	Kosco Vent' Project Manager	
Date of issue	August 12, 2025	
Reviewing laboratory	Unico Certification Testing Co., LTD	
Reviewing location	7 COPPERFIELD ROAD, COVENTRY WEST MIDLANDS, ENGLANDUNITED KINGDOM CV2 4AQ	
Applicant	ALLOY STAR CO.,LTD.	
Address	2 F.-4.NO. 502, DA' AN RD., SHULIN DIST., NEW TAIPEI CITY 238009,TAIWAN	
Manufacturer	ALLOY STAR CO.,LTD.	
Address	2 F.-4.NO. 502, DA' AN RD., SHULIN DIST., NEW TAIPEI CITY 238009,TAIWAN	
Factory	The same as applicant	
Standard	EN 250:2014	
Review Report Form No.	EN 250:2014 TRF	
originator	UNICO	
Master TRF	Reference No. EN 250:2014	
Review procedure	UNICO	
Type of Review object	Regulators	
Trademark	-	
Model/type reference	AS Series AS-100~ 120, AS-200~220	
Remark	Page 1 of 29	

Environmental Management system certification Registration number : 2025021125482	
We illustrate the Alloystar Co., Ltd.	
Business Administration Number (BANO) 28571309	
Registered address of the company: 2F, No. 502, Da'an Rd., Shulin Dist., New Taipei City, Taiwan 238009	
The management system is in line GB/T24001-2016/ISO14001:2015standard	
The management system applies to	
Under water related products , diving regulators of its Environmental, managing system control and produc- tion quality control.	
Certification registration date: August 07, 2025(Certificate validity period until: August 06, 2028)	
Issued by: <i>[Signature]</i>	
  	
Scan QR code to verify certification on IAF Enquiry website: www.bureauveritas.com	

Certificate Zertifikat Certificato Certificat Certificat 증명서	CERTIFICATE OF CONFORMITY		
	No UNICO20250812XS178		
	Holder of Certificate		
	Name	ALLOY STAR CO.,LTD.	
	Address	2 F.-4.NO. 502, DAAN RD., SHULIN DIST., NEW TAIPEI CITY 238009,TAIWAN	
	Manufacturer Name & Address :		
	Name	ALLOY STAR CO.,LTD.	
	Address	2 F.-4.NO. 502, DAAN RD., SHULIN DIST., NEW TAIPEI CITY 238009,TAIWAN	
	Product	Regulators	
	Model	AS Series AS-100~ 120, AS-200~220	
Harmonized technical standards	EN 250:2014		
Technical File no.	UNICO20250812XS178		
Based on our assessment we confirm that the product is in accordance with the technical requirements of the above standards and hence fulfils the technical requirements of the Regulation (EU) 2016/425 Personal protective equipment. The manufacturer shall affix the CE marking to each product that is in conformity with those described in this Certificate, after completion of the EC Declaration of Conformity and in accordance with the above directive.			
This certificate is only valid for the product and configuration described (annex), in conjunction with the detailed test data and with all applicable legal requirement for the product. Maintaining certification is based on compliance with the requirements of certification contract.			
Annex: Product identification ~2 pages			
Issue Date: August 12, 2025 Expiry Date: August 11, 2030			
 			
RENOWS CERTIFICATION TESTING CO., LTD Chase Business Centre, 39-41 Chase Side, London, United Kingdom, N14 5BP E-Mail: info@renows.net			
Signature of Authorized Person: Jacqueline Marti			
			
Partial reproduction of this certificate is not allowed			

REGULATOR

Performance

- **Cold-water & Ice-diving**
- **Lightweight, comfortable designs**
- **Low resistance, High airflow**



Customization

- **ADJ / NON-ADJ 2nd stage options**
- **Swivel turrets, Multiple LP/HP ports**
- **Optional exterior finishes**



**1ST STAGE
&
2ND STAGE**

YOUR VISION FULLY CUSTOMIZED

At Alloystar Co.,Ltd , we turn your vision into reality with fully customized solutions. Tailored to your unique needs, we ensure every detail is crafted to exceed your expectations. Your idea, your way-- perfectly customized.





1st REGULATOR

PHOTO										
ITEM NO	AS-101 Y	AS-101 D	AS-102 Y	AS-102 D	AS-103 Y	AS-103 D	AS-104 Y	AS-104 D	AS-105 Y	AS-105 D
CONNECTION YOKE / DIN	YOKE	DIN	YOKE	DIN	YOKE	DIN	YOKE	DIN	YOKE	DIN
DESCRIPTION	PISTON	PISTON	DIAPHRAGM BALANCE	DIAPHRAGM BALANCE	PISTON BALANCE	PISTON BALANCE	DIAPHRAGM BALANCE	DIAPHRAGM BALANCE	DIAPHRAGM BALANCE	DIAPHRAGM BALANCE
NITROX 40%UP	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
DRY SEAL / COLD WATER	NO	NO	OPTION	OPTION	NO	NO	OPTION	OPTION	OPTION	OPTION
LP PORT SWIVEL	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO
HP PORT	1	1	2	2	2	2	2	2	2	2
LP PORT	4	4	4 OR 5	4 OR 5	5	5	4 OR 5	4 OR 5	5 OR 6	5 OR 6

AS-101-DIN

- Intermediate Pressure Output : 135 ~ 145 PSI (Balanced Piston) @3000 psi
- Intermediate Pressure Ports : Four 3/8-24 UNF-2B
- High Pressure Port : One 7/16-20 UNF-2B
- Body Material : Chromium plated brass body
- Springs Material : Stainless steel
- Weight : 540 grams
- Connection Type : DIN



AS-101-YOKE

- Intermediate pressure output : 135-145 PSI (Balanced Piston) @3000 psi
- Intermediate Pressure Ports : Four 3/8-24 UNF-2B
- High Pressure Port : One 7/16-20 UNF-2B
- Body Material : Chromium plated brass
- Springs Material : Stainless steel
- Weight : 740 grams
- Connection Type : YOKE



AS-102-DIN



0216



- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)
- Intermediate Pressure : 135 ~ 145 psi (9.5 ~ 10.2 bar)
- High Pressure Ports : 2 × 7/16"-20 UNF
- Low Pressure Ports : 4 × 3/8"-24 UNF + Swiveling turret
- Weight : 750 g
- Connection Type : DIN

AS-102-DIN-ICE



0216



- Ventilation rate (air supply / 3000 psi) : 33 SCFM.
- Intermediate pressure: 135-145 psi. (9.5-10.2 bar)
- High pressure port: (7/16"-20 UNF) x 2
- Low pressure port: (3/8"-24 UNF) x 4 plus swiveling turret DIN.
- Weight: 800g

AS-102-YOKE



- Ventilation rate (air supply / 3000 psi) : 33 SCFM.
- Intermediate pressure: 135-145 psi. (9.5-10.2 bar)
- High pressure port: (7/16"-20 UNF) x 2
- Low pressure port: (3/8"-24 UNF) x 4 plus swiveling turret Yoke.
- Weight: 950g

AS-102-YOKE-ICE



- Ventilation rate (air supply / 3000 psi) : 33 SCFM.
- Intermediate pressure: 135-145 psi. (9.5-10.2 bar)



- High pressure port: (7/16"-20 UNF) x 2
- Low pressure port: (3/8"-24 UNF) x 4 plus swiveling turret Yoke.
- Weight: 1010g

AS-103-DIN



- Low pressure port swivel assembly for versatile positioning
- Intermediate Pressure Output : 135 ~ 145 PSI (Balanced Piston) @3000 psi
- Low Pressure Ports : 5 × 3/8-24 UNF-2B
- High Pressure Ports : 2 × 7/16-20 UNF-2B
- Body Material : Chromium plated brass
- Springs Material : Stainless steel
- Weight : 700 grams

AS-103P-DIN



- Low Pressure Port : Swivel assembly for versatile positioning
- Intermediate Pressure Output : 135 ~ 145 PSI (Balanced Piston) @3000 psi
- Intermediate Pressure Ports : 5 × 3/8-24 UNF-2B
- High Pressure Ports : 2 × 7/16-20 UNF-2B
- Body Material : Chromium plated brass
- Springs Material : Stainless steel
- Weight : 700 grams

AS-103-YOKE



- Low Pressure Port : Swivel assembly for versatile positioning
- Intermediate Pressure Output : 135 ~ 145 PSI (Balanced Piston) @3000 psi

- Intermediate Pressure Ports : 5 × 3/8-24 UNF-2B
- High Pressure Ports : 2 × 7/16-20 UNF-2B
- Body Material : Chromium plated brass
- Springs Material : Stainless steel
- Weight : 920 g (Including packaging 1.04KG)



AS-103P-YOKE



- Low Pressure Port : Swivel assembly for versatile positioning
- Intermediate Pressure Output : 135 ~ 145 PSI (Balanced Piston) @3000 psi



- Intermediate Pressure Ports : 5 × 3/8-24 UNF-2B
- High Pressure Ports : 2 × 7/16-20 UNF-2B
- Body Material : Chromium plated brass
- Springs Material : Stainless steel
- Weight : 889 grams

AS-104-DIN



- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)
- Intermediate Pressure : 135 ~ 145 psi (9.5 ~ 10.2 bar)
- High pressure port : (7/16"-20 UNF) x 2
- Low pressure port : (3/8"-24 UNF) x 4

- Body Material : Corrosion resistant marine brass, chrome plated finish
- Weight : 755g



AS-104-DIN-ICE



- Design Type : Balanced diaphragm
- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)

- Intermediate Pressure : 135~145 psi (9.5 ~ 10.2 bar)
- High pressure port: (7/16"-20 UNF) x 2
- Low pressure port: (3/8"-24 UNF) x 4



- Weight : 800 g
- Body Material : Corrosion resistant marine brass, chrome plated finish



AS-104-YOKE



- Design Type : Balanced diaphragm
- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)
- Intermediate Pressure : 135 ~ 145 psi (9.5 ~ 10.2 bar)

- High pressure port: (7/16"-20 UNF) x 2
- Low pressure port: (3/8"-24 UNF) x 4
- Body Material : Chromium plated brass
- Body Material : Corrosion resistant marine brass, chrome plated finish
- Weight : 940g



AS-104-YOKE-ICE



- Design Type : Balanced diaphragm
- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)

- Intermediate Pressure : 135 ~ 145 psi (9.5 ~ 10.2 bar)
- High pressure port: (7/16"-20 UNF) x 2
- Low pressure port: (3/8"-24 UNF) x 4



- Body Material : Corrosion resistant marine brass, chrome plated finish
- Weight : 990 g



AS-105-DIN



- Design Type : Diaphragm Balanced
- Weight : 750 g

- Intermediate Pressure : 135 ~ 145 PSI
- Low Pressure Ports : 5 × 3/8-24 UNF 2B
- High Pressure Ports : 2 × 7/16-20 UNF 2B
- Body Finish : Bright Chromium Plated Surface (custom options : Black Chrome or Trivalent Chrome)



AS-105-DIN-ICE



- Design Type : Balanced diaphragm
- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)
- Intermediate Pressure : 135-145 psi. (9.5-10.2 bar)
- High Pressure Ports : (7/16"-20 UNF) x 2
- Low Pressure Ports : (3/8"-24 UNF) x 5
- Body Material : Corrosion resistant marine brass, white or black chrome plated finish
- Weight : 800 g



AS-105-YOKE



- Design Type : Diaphragm Balanced
- Intermediate Pressure : 135 ~ 145 PSI
- Low Pressure Ports : 5 × 3/8-24 UNF 2B
- High Pressure Ports : 2 × 7/16-20 UNF 2B
- Body Finish : Bright Chromium Plated Surface (custom options: Black Chrome or Trivalent Chrome)
- Weight : 950 g

AS-105-YOKE-ICE



- Design Type : Diaphragm Balanced
- Ventilation Rate : 33 SCFM (Air supply / 3000 psi)
- Intermediate Pressure : 135 ~ 145 psi (9.5 ~ 10.2 bar)
- High Pressure Ports :(7/16"-20 UNF) x 2
- Low Pressure Ports :(3/8"-24 UNF) x 5
- Body Material : Corrosion resistant marine brass, white or black chrome plated finish
- Weight : 1000 g

AS-110



- Type : Extra Air Source First Stage – Standard Piston First Stage for SCUBA Dive
- Features : On/Off Valve, Burst Disc
- Swivel Adapter : For 2nd Stage Hose
- Low Pressure Ports : 3
- High Pressure Ports : 1



PHOTO							
ITEM NO	AS-201 ADJ	AS-201 N-ADJ	AS-202 ADJ	AS-202 N-ADJ	AS-208 ADJ	AS-208 N-ADJ	AS-209
DESCRIPTION	BALANCED	BALANCED	DOWNSTREAM VALVE	DOWNSTREAM VALVE	BALANCED	BALANCED	DOWNSTREAM VALVE
COVER RING AND PURGE COVER	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
ADJUSTABLE	YES	NO	YES	NO	YES	NO	NO
NITROX 40%UP	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
COLD WATER	OPTION	OPTION	NO	NO	OPTION	OPTION	NO
DEFLATOR KNOB	YES	YES	NO	NO	YES	YES	NO



2nd Stage Regulator

AS-201-ADJ

COLOR : ● ● ●



- Type : Adjustable 2nd Stage Regulator
- Maximum Intermediate Pressure : 150 PSI
- Inhalation Effort : 1.0–1.2 CIW (with adjustment knob on max)
- Exhalation Effort : 1.1 CIW
- Ventilation Rate : 30+ SCFM (air supply: 3000 PSI)
- Weight : 251 g





2nd Stage Regulator

AS-201-NON-ADJ



- Type :Non-Adjustable 2nd Stage Regulator
- Maximum Intermediate Pressure: 150 PSI
- Inhalation Effort: 1.0–1.2 CIW (Adjustment knob on max)
- Exhalation Effort: 1.1 CIW
- Ventilation Rate: 30+ SCFM (Air supply: 3000 PSI)
- Weight : 251 grams

AS-202-NON-ADJ



- Type: Non-Adjustable 2nd Stage Regulator
- Valve Type: Downstream demand valve with external air intake adjustment
- Maximum Intermediate Pressure: 150 PSI
- Inhalation Effort: 1.0–1.2 CIW
- Exhalation Effort: 1.1 CIW
- Ventilation Rate: 30+ SCFM (Air supply: 3000 PSI)
- Weight: 203 g



2nd Stage Regulator

AS-202-ADJ



- Type: Adjustable 2nd Stage Regulator
- Valve Type: Downstream demand valve with external air intake adjustment
- Maximum Intermediate Pressure: 150 PSI
- Inhalation Effort: 1.0–1.2 CIW (Adjustment knob on max)
- Exhalation Effort: 1.1 CIW
- Ventilation Rate: 30+ SCFM (Air supply: 3000 PSI)
- Weight: 237 g



2nd Stage Regulator

AS-208-ADJ



- Type: Adjustable 2nd Stage Regulator
- Hose Mounting System: Right and Left Mounting Available
- Maximum Intermediate Pressure: 150 PSI
- Inhalation Effort: 1.0–1.2 CIW (ADJ-Knob on Max)
- Exhalation Effort: 1.1 CIW
- Air Flow: 30+ SCFM (air supply: 3000 PSI)
- Weight: 251 g
- Remarks : For Exclusive Customization Only





2nd Stage Regulator

AS-208-NON-ADJ



- Type : Non-Adjustable 2nd Stage Regulator
- Hose Mounting System : Right and Left Mounting Available
- Maximum Intermediate Pressure : 150 PSI
- Inhalation Effort : 1.0–1.2 CIW
- Exhalation Effort : 1.1 CIW
- Air Flow : 30+ SCFM (air supply: 3000 PSI)
- Weight : 251 g
- Remarks : For Exclusive Customization Only





2nd Stage Regulator

AS-209



- Type: Downstream Non-Adjustable
- Maximum Intermediate Pressure: 150 PSI
- Inhalation Effort: 1.0–1.2 CIW
- Exhalation Effort: 1.1 CIW
- Air Flow: 30+ SCFM (air supply: 3000 PSI)
- Weight: 180 g

