



物联网+
压缩空气节能专家
IoT+
Compressed air energy-saving expert

行业领先的全产业链节能空压机制造商

Industry leading manufacturer of energy-saving air compressors across the industry chain



苏珀艾节能空压机 ENERGY CONSERVATION INTELLIGENCE

节能 · 高效 · 静音 · 智能

Energy saving high efficiency mute and intelligence

www.superair.com



苏州苏珀艾压缩机设备有限公司
SZhou Super Air Compresso EqUpmentCo,Lt

ABOUT US

关于我们

苏州苏珀艾机械有限公司，生产基地位于苏州昆山高新技术产业开发区，并在上海设有品牌营销总部。公司是国内较早进入螺杆式空气压缩机领域的企业之一。经过近二十年的持续研发创新与技术积累，业务范围已覆盖螺杆式空气压缩机新技术研发、核心主机自主设计与制造、关键部件精密加工及整机品牌的全球销售网络建设，形成了完善的产业链体系，成为行业内具有影响力的领军企业之一。

公司拥有自主研发的高效节能螺杆主机技术与智能永磁变频驱动系统，产品系列齐全，涵盖从高效变频、双级压缩到无油水润滑、真空及鼓风系统等多个领域。主要产品包括SA-V系列高效永磁变频螺杆空压机、SA-II-SD系列双级节能空压机、SA-F系列工频固定式空压机、SA-L系列激光切割专用空压机。产品功率范围覆盖3.7kW-640kW，压力范围覆盖0.3MPa-3.5MPa，广泛应用于激光切割、汽车制造、机械加工、电子、电力、医药、食品、纺织等多个行业，为客户提供高效、节能、智能、可靠的压缩空气系统解决方案。

Suzhou SuperAir Machinery Co., Ltd. Kunshan High-tech Development Zone of Suzhou Shanghai R&D of new screw air compressor technologies independent design and manufacturing of core air ends precision machining of key components global sales network of branded complete units.

The company has independently developed high-efficiency energy-saving screw air end technology and intelligent permanent magnet variable frequency drive systems. Its product range is comprehensive, covering high-efficiency variable frequency, two-stage compression, oil-free water-lubricated, vacuum, and centrifugal blower systems. The main product lines include the SA-V Series high-efficiency permanent magnet variable frequency screw air compressors, SA-D Series two-stage energy-saving compressors, SA-F Series fixed-speed industrial air compressors, SA-L Series laser cutting dedicated compressors. The power range covers 3.7kW to 640kW, and the pressure range covers 0.3MPa to 3.5MPa. These products are widely used in laser cutting, automotive manufacturing, machining, electronics, power generation, pharmaceuticals, food processing, and textile industries, providing customers with efficient, energy-saving, intelligent, and reliable compressed air system solutions.

OUR ADVANTAGES

我们的优势

节能高效

智能控制

静音稳定

Energy Saving and High Efficiency

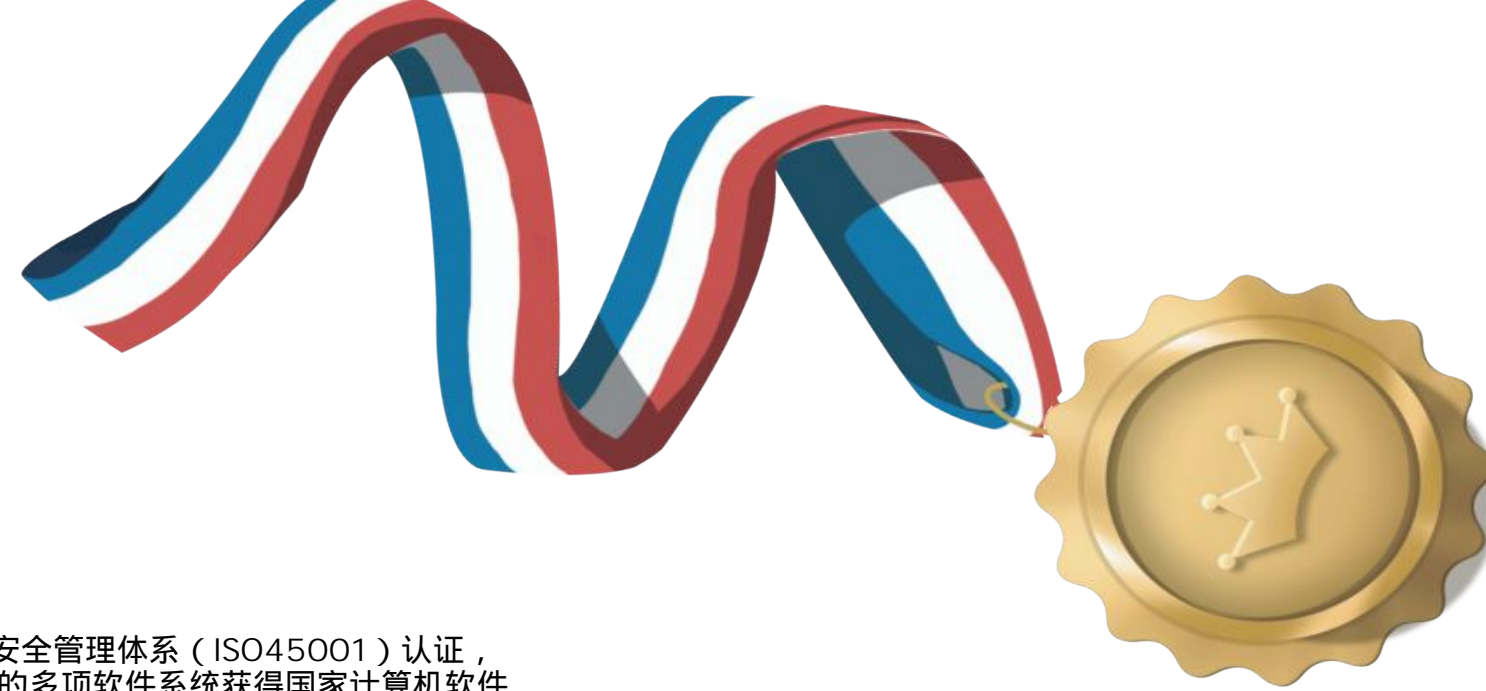
Intelligent Control

Quiet and Stable

2025

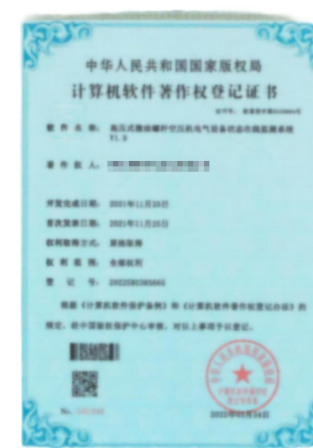
QUALIFICATION

企业资质



公司已通过环境管理体系（ISO14001）与职业健康安全管理体系（ISO45001）认证，建立了完善的管理与运行标准。同时，企业自主开发的多项软件系统获得国家计算机软件著作权登记证书，涵盖螺杆式空压机自动化运行系统、智能监控系统及开关柜控制系统等领域，进一步提升了产品的智能化与可靠性，彰显了公司在节能环保与智能制造领域的技术实力与创新能力。

The company has obtained ISO14001 Environmental Management System and ISO45001 Occupational Health and Safety Management System certifications, establishing a comprehensive management and operational standard. At the same time, the company has independently developed multiple software systems that have been granted National Computer Software Copyright Registration Certificates, covering areas such as screw air compressor automation operation systems, intelligent monitoring systems, and switch cabinet control systems. These achievements further enhance the intelligence and reliability of the products, demonstrating the company's strong technical capability and innovation in the fields of energy conservation, environmental protection, and intelligent manufacturing.



核心能力

CORE COMPETENCE



以全智能驱动技术取代传统控制，实现更高效、更精准的运行体验。

Replacing traditional control with fully intelligent drive technology, achieving a more efficient and precise operating experience.



公司具备完全自主的主机研发与制造能力，拥有超过20年的高端制造经验。通过智能制造生产线、CNAS国家实验室以及物联网AI节能研究中心的协同支撑，实现从核心技术到整机方案的自主创新，为用户提供领先的一体化节能气源解决方案。

The company possesses fully independent capabilities in main engine research, development, and manufacturing, with over 20 years of high-end production experience. Supported by intelligent manufacturing lines, a CNAS-accredited national laboratory, and an IoT and AI energy-saving research center, the company achieves independent innovation from core technology to complete system solutions, providing customers with cutting-edge, integrated, and energy-efficient air supply solutions.



直联传动

直连传动结构将电机与主机直接相连，无需皮带或齿轮传动，减少能量损耗，提升传动效率。该设计不仅结构紧凑、维护简单，还能有效降低噪音与震动，实现更高的可靠性与使用寿命。

Direct drive

The direct-drive system connects the motor and the airoend directly, eliminating the need for belts or gears. This reduces energy loss and improves transmission efficiency. The compact design ensures easier maintenance, lower noise and vibration, and greater reliability and service life.



高效稳定

设备运行稳定，性能持续高效。优化的系统设计确保长期运行中气量输出稳定、能耗更低。关键部件经过严格测试，保证在各种工况下依然保持高效与可靠。

Efficient and stable

The equipment operates with stability and high efficiency. The optimized system design ensures consistent air output and lower energy consumption during long-term operation. All key components are rigorously tested to maintain efficiency and reliability under various working conditions.



多重防护

整机采用多重防护设计，对电机、控制系统及关键部件进行全面保护。具备过载、过温、缺相、过压等多种安全防护功能，确保设备在各种环境下安全稳定运行，延长使用寿命。

Multi-protection

The machine features a multi-layer protection design that safeguards the motor, control system, and key components. It includes multiple safety functions such as overload, over-temperature, phase loss, and over-voltage protection, ensuring safe and stable operation under all conditions and extending the equipment's service life.



智能设计

智能设计融合人性化与高效化理念，整体布局合理，操作便捷。系统可根据工况自动调节运行参数，实现最佳性能与能耗平衡，为用户带来更智能、更省心的使用体验。

Intelligent design

The intelligent design combines user-friendly and efficient concepts, featuring a well-organized layout and easy operation. The system automatically adjusts operating parameters based on working conditions, achieving optimal performance and energy balance for a smarter and more convenient user experience.



强劲动力

设备采用高性能电机与高效主机组合，输出动力强劲，启动平稳。充足的功率储备确保在高负载工况下依然保持稳定运行，为各种工业应用提供持续而可靠的动力支持。

Strong power

The equipment is equipped with a high-performance motor and efficient airoend, delivering powerful output and smooth start-up. With ample power reserves, it maintains stable operation even under heavy loads, providing continuous and reliable power for various industrial applications.



无噪舒适

采用低噪音设计与高效隔音结构，运行平稳安静。优化的气流与震动控制系统有效降低噪音与共振，为用户营造更加舒适、安静的工作环境。

Noise-free comfort

Featuring a low-noise design and efficient sound insulation structure, the machine operates smoothly and quietly. The optimized airflow and vibration control system effectively reduce noise and resonance, creating a more comfortable and quiet working environment for users.

VOLTAGE FLEXIBLE CUSTOMIZATION

07/08

Compatible with all three-phase
Power Supply

220V/50HZ
220V/60HZ

380V/50HZ
380V/60HZ

440V/50HZ
440V/60HZ

能耗更低,更节能

Lower energy consumption for more energy saving

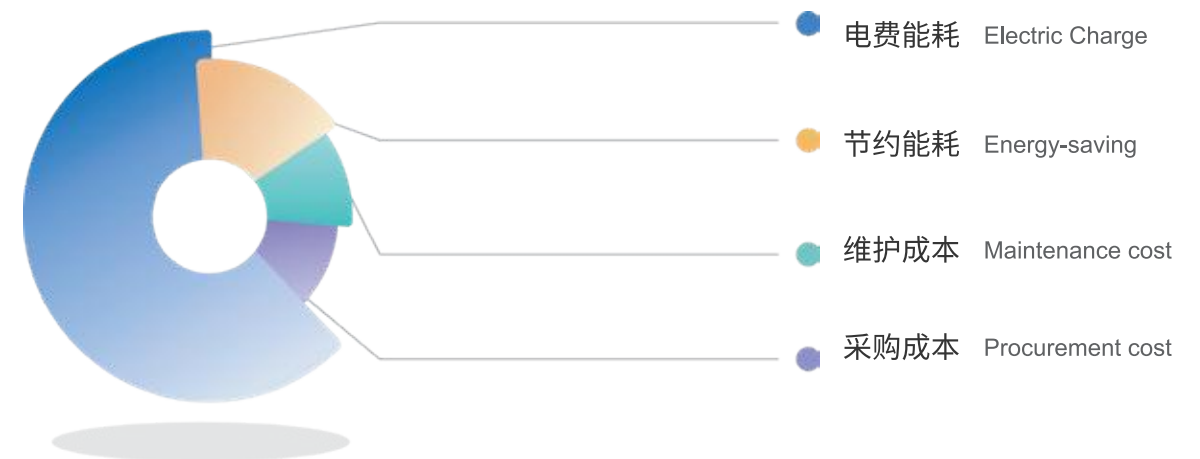
与传统工频或普通变频空压机相比,永磁变频空压机在压力与气量波动较大的工况下,依然能保持高效运行,能耗

更低,节能效果更加显著。

Compared with traditional fixed-speed and standard variable-speed air compressors, the permanent magnet variable-speed compressor maintains high efficiency even under fluctuating pressure and air demand, achieving lower energy consumption and superior energy-saving performance.

两级压缩空压机终身使用成本分析

Technical parameters of two-stage double drive series



两级压缩节能效果

Energy saving effect of two-stage compression

在两级压缩过程中,通过充分发挥喷油冷却功能,并结合级间冷却技术,使压缩过程在保证压力露点温度的前提下尽可能接近等温压缩,从而显著提升节能效果。由于双级压缩螺杆机的压缩比更低,其压缩过程中的内部泄漏量相比同功率、相同排气压力的单级压缩机大幅减少,从而提升了排气量与整体效率,降低了比功率,实现更高的能效表现。

During the two-stage compression process, the oil injection cooling function is fully optimized and combined with interstage cooling, allowing the compression process to approach isothermal conditions while maintaining the required pressure dew point. This results in significant energy savings. With a lower compression ratio, the two-stage screw compressor has much less internal leakage compared to a single-stage compressor of the same power and discharge pressure, which increases air delivery and overall efficiency while reducing specific power consumption.



苏珀艾数智节能空压机产品系列

Super air digital intelligent energy-saving air compressor series



● 更先进、更节能

- More advanced, more energy-saving

节能效率从高到低排序：两级双驱数智永磁变频机 > 两级单驱永磁变频 > 单级单驱永磁变频 > 普通变频空压机。

Energy-saving efficiency in descending order: Two-stage dual-drive digital intelligent permanent magnet variable frequency air compressor > two-stage single-drive permanent magnet variable frequency air compressor > single-stage single-drive permanent magnet variable frequency air compressor > ordinary variable frequency air compressor.

● 节能优点一

- Energy-saving advantage 1

两级双驱数智系列在双驱动变频器可完全独立驱动两个永磁电机，杜绝浪费，更适应工况，真节能技术。省的更多！

The dual-drive frequency converter of two-stage dual-drive digital intelligent series can completely and independently drive two permanent magnet motors, thus eliminating waste, being more suitable for working conditions and realizing energy-saving technology. Save more!

● 节能优点二

- Energy-saving advantage 2

两级双驱数智系列创新使用三变频技术，超越双变频，节能量更大，快速省出一台空压机。

Two-stage dual-drive digital intelligent series innovatively use the three-stage frequency conversion technology, surpassing double frequency conversion, saving more energy and quickly saving the cost of one air compressor.

● 节能优点三

- Energy-saving advantage 3

搭载更成熟更先进的数智物联网功能，综合节能可高达43%。

Equipped with the more mature and advanced digital intelligent IoT function, the comprehensive energy saving can be as high as 43%.

SA010-II-SV双极压缩变频系列技术参数表

Technical Parameter Table for SA010-II-SV Two-Stage Variable Speed Series

型号Model	功率(kW) Power	容积流量(m ³ /min)Free Air Delivery			机组重量(kg) Weight	外形尺寸(mm)Dimension			出口尺寸 (mm)Air Outlet Pipe Diameter
		0.8MPa	1.0MPa	1.3MPa		长L	宽W	高H	
SA050-II-SV	37kw	7.1	6.3	5.4	1600	1780	1210	1500	G2
SA075-II-SV	55kw	12.5	9.6	8.6	1800	2150	1380	1850	G2 1/2
SA100-II-SV	75kw	16.3	12.4	11	1960	2150	1380	1850	G2 1/2
SA120-II-SV	90kw	19.8	16.9	14.3	2360	2150	1380	1850	G2 1/2
SA150-II-SV	110kw	23.5	19.7	14.3	2390	2150	1380	1850	G2 1/2
SA175-II-SV	132kw	28	23.5	19.8	3000	2650	1670	1984	DN80
SA200-II-SV	160kw	34	30	23.8	3500	2650	1670	1984	DN80
SA250-II-SV	185kw	38.4	32.5	28.6	3500	3100	2100	2000	DN80
SA300-II-SV	220kw	47	41	34.6	3500	3100	2100	2000	DN80
SA350-II-SV	250kw	52	46	40.1	5600	3555	2000	2050	DN80



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OEM/ODM is acceptable.

SA010-II-SD双极压缩工频系列技术参数表

SA010-II-SD Two-Stage Compression Fixed Speed Series Technical Specification Sheet



型号Model	功率(kW) Power	容积流量(m ³ /min)Free Air Delivery			机组重量(kg) Weight	外形尺寸(mm)Dimension			出口尺寸 (mm)Air Outlet Pipe Diameter
		0.8MPa	1.0MPa	1.3MPa		长L	宽W	高H	
SA050-II-SD	37kw	7.1	6.3	5.4	1600	1780	1210	1500	G2
SA075-II-SD	55kw	12.5	9.6	8.6	1800	2150	1380	1850	G2 1/2
SA100-II-SD	75kw	16.3	12.4	11	1960	2150	1380	1850	G2 1/2
SA120-II-SD	90kw	19.8	16.9	14.3	2360	2150	1380	1850	G2 1/2
SA150-II-SD	110kw	23.5	19.7	14.3	2390	2150	1380	1850	G2 1/2
SA175-II-SD	132kw	28	23.5	19.8	3000	2650	1670	1984	DN80
SA200-II-SD	160kw	34	30	23.8	3500	2650	1670	1984	DN80
SA250-II-SD	185kw	38.4	32.5	28.6	3500	3100	2100	2000	DN80
SA300-II-SD	220kw	47	41	34.6	3500	3100	2100	2000	DN80
SA350-II-SD	250kw	52	46	40.1	5600	3555	2000	2050	DN80

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SA010-SV单机压缩变频机组参数表

SA010-SV Single-Stage Variable Speed Screw Air Compressor Technical Specification Sheet



型号Model	功率(kW) Power	容积流量(m ³ /min)Free Air Delivery				机组重量(kg) Weight	外形尺寸(mm) Dimension			出口尺寸(mm) Air Outlet Pipe Diameter
		0.8MPa	1.0MPa	1.3MPa	1.6MPa		长L	宽W	高H	
SA010-SV	7.5	1.1	0.95	/	/	180	810	610	850	G1/2
SA015-SV	11	1.65	1.3	1.1	0.9	260	1060	748	1005	G3/4
SA020-SV	15	2.2	2.1	1.9	1.6	280	1060	748	1005	G3/4
SA025-SV	18.5	2.8	2.7	2.2	1.7	380	1210	848	1160	G1
SA030-SV	22	3.6	3.2	2.7	2.2	400	1210	848	1160	G1
SA040-SV	30	5	4.5	4	3.4	520	1360	1010	1270	G1 1/2
SA050-SV	37	6.5	5.6	4.8	4	670	1360	1010	1270	G1 1/2
SA060-SV	45	7	6.2	5.6	5	740	1360	1010	1270	G1 1/2
SA075-SV	55	9.6	8.5	7.6	5	1350	1780	1210	1500	G2
SA0100-SV	75	12.6	11.2	10	8.5	1500	1780	1210	1500	G2
SA0120-SV	90	15.8	13.8	12.3	10	1600	1885	1230	1565	G2
SA0150-SV	110	20	17.4	14.8	12	1750	2150	1410	1850	G2 1/2
SA0175-SV	132	24	20	17.4	14.8	1950	2150	1410	1850	G2 1/2
SA0200-SV	160	27.2	24.2	21.1	17.5	3400	2650	1670	1984	G3
SA250-SV	185	29.4	26.4	23.8	21	3600	2650	1670	1984	G3
SA300-SV	220	38.1	30	27.5	25	4000	3100	2100	2000	G3
SA350-SV	250	42	38.2	31	26	4200	3100	2100	2000	G3
SA420-SV	315	48	43	41	38	6000	3555	2000	2050	G3

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OEM/ODM is acceptable.



- ✓ Optimized Design
- 🔊 Low Noise Operation
- ▣ High Efficiency



SA010-TSV四合一变频机组参数表

SA010-TSV Four-in-One Variable Speed Screw Air Compressor Technical Specification Sheet

型号Model	功率(kW)Power	容积流量(m ³ /min)Free Air Delivery				机组重量(kg)Weight	外形尺寸(mm)Dimension			出口尺寸(mm)Air Outlet Pipe Diameter
		0.8MPa	1.0MPa	1.3MPa	1.6MPa		长L	宽W	高H	
SA010-TSV	7.5kw	1.1	0.95	/	/	400	1750	650	1582	G1/2
SA015-TSV	11kw	1.65	1.3	1.1	1.0	500	1860	750	1755	G3/4
SA020-TSV	15kw	2.2	2.1	1.9	1.5	320	1860	750	1755	G3/4
SA030-TSV	22kw	3.6	3.2	2.7	2.2	650	1860	848	1920	G1

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- ✓ Optimized Design
- 🔊 Low Noise Operation
- ▣ High Efficiency



SA010-TSD四合一工频机组参数表

SA010-TSD Four-in-One Fixed Speed Screw Air Compressor Technical Specification Sheet

型号Model	功率(kW)Power	容积流量(m ³ /min)Free Air Delivery				机组重量(kg)Weight	外形尺寸(mm)Dimension			出口尺寸(mm)Air Outlet Pipe Diameter
		0.8MPa	1.0MPa	1.3MPa	1.6MPa		长L	宽W	高H	
SA010-TSD	7.5kw	1.1	0.95	/	/	400	1750	650	1582	G1/2
SA015-TSD	11kw	1.65	1.3	1.1	1.0	500	1860	750	1755	G3/4
SA020-TSD	15kw	2.2	2.1	1.9	1.5	320	1860	750	1755	G3/4
SA030-TSD	22kw	3.6	3.2	2.7	2.2	650	1860	848	1920	G1

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SA010-SD单机压缩工频机组参数表

SA010-SD Single-Stage Fixed Speed Screw Air Compressor Technical Specification Sheet



型号Model	功率(kW)Power	容积流量(m³/min)Free Air Delivery				机组重量(kg)Weight	外形尺寸(mm)Dimension			出口尺寸(mm)Air Outlet Pipe Diameter
		0.8MPa	1.0MPa	1.3MPa	1.6MPa		长L	宽W	高H	
SA010-SD	7.5	1.1	0.95	/	/	180	810	610	850	G1/2
SA015-SD	11	1.65	1.3	1.1	0.9	260	1060	748	1005	G3/4
SA020-SD	15	2.2	2.1	1.9	1.6	280	1060	748	1005	G3/4
SA025-SD	18.5	2.8	2.7	2.2	1.7	380	1210	848	1160	G1
SA030-SD	22	3.6	3.2	2.7	2.2	400	1210	848	1160	G1
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SA050-SD	37	6.5	5.6	4.8	4	670	1360	1010	1270	G1 1/2
SA060-SD	45	7	6.2	5.6	5	740	1360	1010	1270	G1 1/2
SA075-SD	55	9.6	8.5	7.6	5	1350	1780	1210	1500	G2
SA0100-SD	75	12.6	11.2	10	8.5	1500	1780	1210	1500	G2
SA0120-SD	90	15.8	13.8	12.3	10	1600	1885	1230	1565	G2
SA0150-SD	110	20	17.4	14.8	12	1750	2150	1410	1850	G2 1/2
SA0175-SD	132	24	20	17.4	14.8	1950	2150	1410	1850	G2 1/2
SA0200-SD	160	27.2	24.2	21.1	17.5	3400	2650	1670	1984	G3
SA250-SD	185	29.4	26.4	23.8	21	3600	2650	1670	1984	G3
SA300-SD	220	38.1	30	27.5	25	4000	3100	2100	2000	G3
SA350-SD	250	42	38.2	31	26	4200	3100	2100	2000	G3
SA420-SD	315	48	43	41	38	6000	3555	2000	2050	G3

本公司对产品不断研究、改进，如技术参数变更，恕不另行通知。如需实时准确数据，请联系我司。
 Our products keep researches and improves continuously; and the technical parameters may be changed without prior notice.
 Please contact with our Company for actual and accurate data.