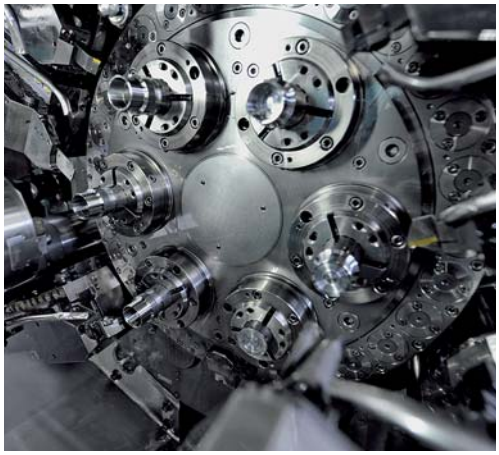
IM KERN DER TECHNIK

PRODUCT RANGE

COMPRESSOR VALVES I LINE VALVES I FAS PRODUCTS I ACCESSORIES



OUR STANDARD
IS PERFECTION

WORLDWIDE PRECISION

Efficient and innovative cooling systems are essential for the transportation and storage of temperature-sensitive goods such as food or medicine. That's why Armaturenwerk Altenburg (AWA) sets the highest standards for every single component. Around the globe, market leaders in the refrigeration and air conditioning industry rely on the precision and the quality of AWA products.

Over **130 years of experience, flexibility and the use of the latest technologies** – these are our strengths. We offer our customers a comprehensive and advanced product portfolio consisting of valves, sight glasses, adapters and other components.

We don't believe in standing still, and we drive our developments with great innovative spirit – not only in terms of our products, but also our manufacturing. Using the latest methods, every year we manufacture more efficiently, more flexibly and in higher quality.

ADVANCED PRODUCTION

We carry out **all production steps** in Altenburg, Germany, where also the FAS refrigeration valves are manufactured. This is how we guarantee the high quality of our entire production. In Altenburg, we have a **cutting-edge plant** with efficient CNC machining centers, CNC turning, grinding and milling machines, brazing furnaces, a laser cutting system and an internal electroplating workshop. Our focus on all AWA valves always is the same: optimal flow, even under the most difficult conditions. This is why we use the latest **3-D design and analysis software.**

CONTROLLED QUALITY

For AWA, the quality of its units is of the utmost importance – that's why we use the **latest measuring and testing procedures.** To ensure all AWA products are absolutely tight and comply to the required pressure ratings, **100% of the production** is checked with the helium leak test system. This is just one of many reasons why AWA has been certified for quality management under ISO 9001. And our environmental management system certified under ISO 14001 proves that we always strive for sustainability.

CHAPTER

1

COMPRESSOR VALVES

Wide range: Our comprehensive range includes numerous valve types for connecting to compressors and they are suitable for use with almost all refrigerants, including ammonia, propane and CO_2. Our solutions are as diverse as your requirements. From transport air conditioning to applications in industrial refrigeration systems, we always have the right valve design for your refrigerating circuit. They meet the standards of DIN EN 12284, conform to the Restriction of Hazardous Substances Directive 2002/95/EC, UL, ASME.

Materials: Steel, stainless steel, cast iron, aluminum, brass

Rotalock valve with soldering connection ODS

Stainless steel Rotalock valve with Rotalock adaptor

Stainless steel flange valve with moveable flange and detachable butt weld end

Aluminum compressor valve with flange connection

Brass compressor valve with soldering connection ODS

Cast iron valve with flange connection

Cast iron valve with welding flange

Flange valve with butt weld end

CHAPTER

2

LINE VALVES

Works best under pressure: With the new AWA line valves, we offer products that enable your system to work at the desired pressure. For example, our angle valves are extremely durable thanks to their brazed steel housing and galvanic surface protection. Due to flexible inlet and outlet combinations and high pressure ratings, they can be used in almost every system. We also manufacture custom line valves based on your requirements.

Materials: Steel, stainless steel, cast iron

Stainless steel angle valve with detachable butt weld end

Angle valve with ultrasonic testable butt weld connection

Angle valve with welding connection

Stainless steel shut-off valve

Stainless steel discharge valve with extended welding connection for insulated pipes

Stainless steel soldering valve ODS

Valve with special connections

Change-over valve

CHAPTER

3

FAS PRODUCTS

A brand with a profile: Ever since we integrated the refrigeration valves manufacturer FAS into AWA in 2002, our product range has been even more diverse. The FAS brand has its own unique focuses.

One of the highlights is the combined check and shut-off valve, which can be used to regulate refrigerant mass flow rates and enhances the reliability of refrigeration systems. They are highly flexible, thanks to the large number of connection types – solder, flare, weld or soldering flange. Quality is our main principle. That's why the check valves are absolutely tight in accordance with DIN 8513 – and we test every single valve as part of our quality assurance.

If one of the check valves should show signs of wear after long-term use, the internal parts can easily be exchanged. The check valves are also designed to meet the standards of DIN EN 12284 and they conform to the Restriction of Hazardous Substances Directive 2002/95/EC.

Materials: Steel, stainless steel, cast iron, brass

Shut-off valve with soldering connection ODS and flare connection

Shut-off valve with soldering connections ODS

Damped check valve with soldering connections ODS

Lockable check valve with welding connections

CHAPTER

4

ACCESSORIES

The subtle difference: True quality can be seen in the details. With our wide range of accessories, we can solve every system problem. For example, AWA sight glasses allow for visual checks of fill levels in vessels, receivers and crankcases. And we deliver our sight glasses in a wide range of variants with flange, screw-in and Rotalock connections. Due to our fittings and adapters, we can connect different connectors. This way, even different models of refrigeration systems can be filled with ease – thanks to our service valves.

Materials: Steel, stainless steel, cast iron, brass

Sight glass with weld flange connections

Strainer with soldering connection ODS

Male Rotalock soldering connection ODS

Female Rotalock soldering connection ODS

Female Rotalock soldering connection ODS angle type

Female Rotalock soldering connection ODS angle type with service valve

Flange with male Rotalock connection

Soldering flange coupling ODS

Welding flange coupling

Male Rotalock welding connection

Gaskets AL/PTFE

Service valves with soldering connection ODS

T-service valve with flare connection

Screw-in service valve angle type

T-service valve with external thread and flare connection

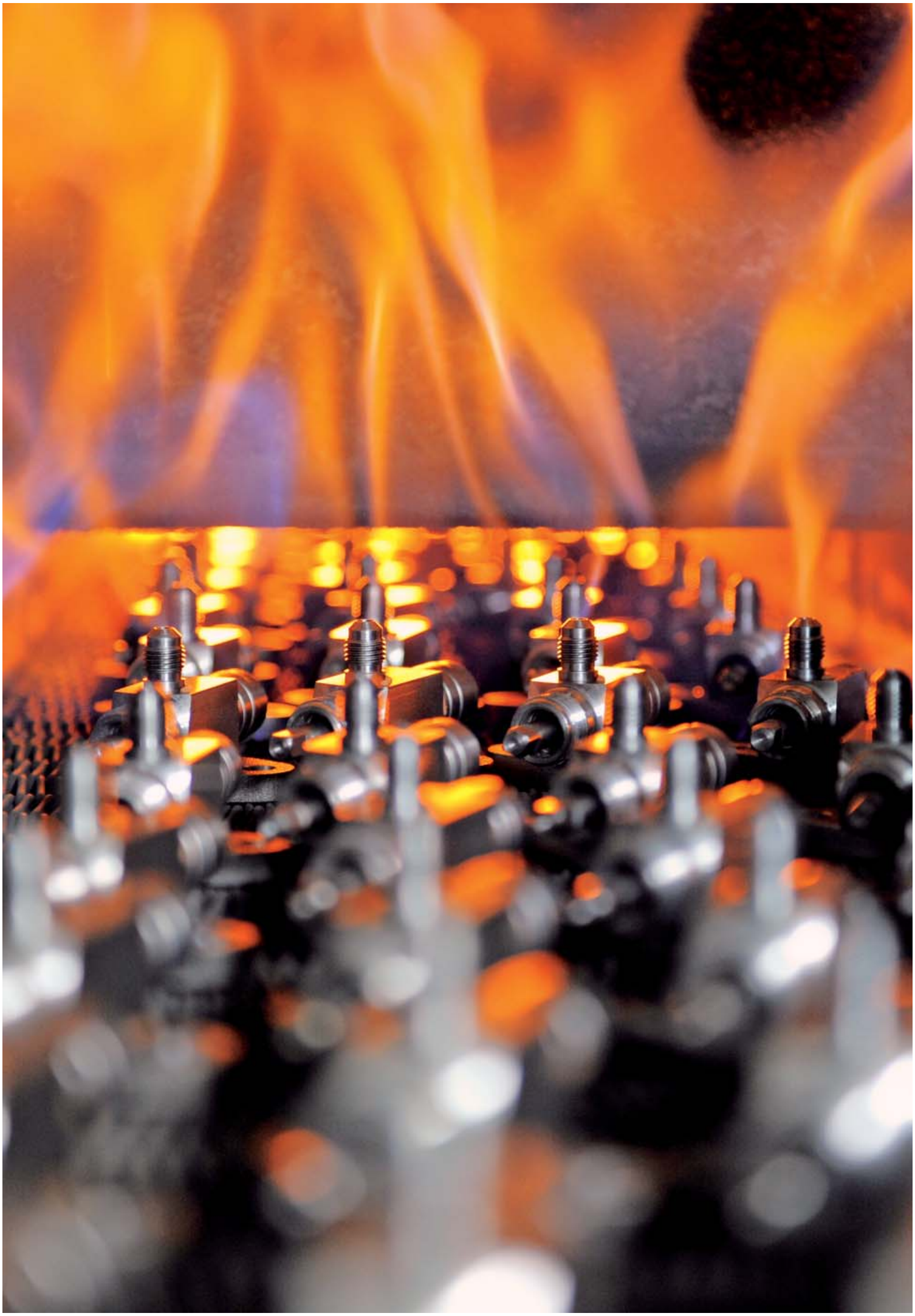
Service valve with soldering pipe

Flange sight glass

Screw-in sight glass with reflector cone

Screw-in sight glass profiled

Screw-in sight glass with indicator ball



AS INDIVIDUAL AS YOU

The highest standards and strictest quality controls: Here at AWA, with our experience and know-how, we offer modern fittings for all your personal requirements. Whether it's for air conditioning or refrigeration technology, in the area of transportation or for large industrial applications of HFC or natural refrigerants - we always have the right product for you.

Are you in need of an individual and high-quality solution? Then we can readily implement it for you and with you.

We look forward to your inquiry: **info@awa-armaturenwerk.de**
More information can be found at **www.awa-armaturenwerk.de**

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PRODUCT BRANDS

Subject to change, 09.2014