



FERGO Armaturen GmbH Company presentation 2018

History

- **2004:** Foundation of **FERGO** Ltd. with focus on knife gate valves in various executions for sewage, paper and bulk industries
- **2006:** Transformation into **FERGO Armaturen GmbH**
 - New focus: Provider of standard valves of all types / complete kits for equipment manufacturers
 - Additional: special solutions / special customized constructions
- **2008:** Exclusive distribution for pneumatic actuators of ACTREG S.A. in Germany
- **2013:** move into a new office building with warehouse 1200m²
- **2014:** FERGO is a stockist for Flowserve Ahaus, LDM and A+R products
- **2017:** approx. 4,5 Mio. EURO annual sales
- Current numbers of employees: 11 employees (3 employees for stock / automation and 8 employees for sales / order processing)
- Current warehouse stock: ca. 800.000,-- EURO

The new building

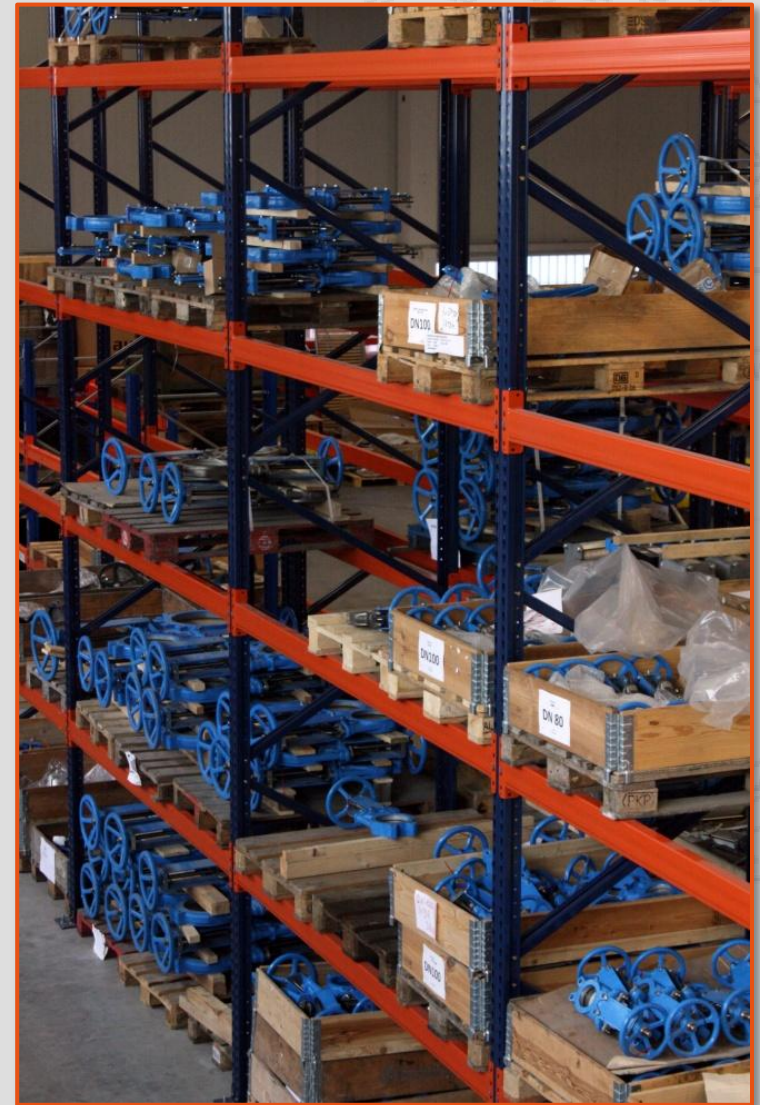


- New location since 2013
- Office space 300m²



The new building

- Warehouse area 1200m²
- High racks with 6m height
- Warehouse stock: 800.000,-



Quality management

We, FERGO® Armaturen GmbH, implement the quality policy according to **DIN EN ISO 9001:2008** in form of the management system which was introduced in 2010.

The main focus of our quality policy is:

- highest customer satisfaction
- expert advice
- reliable service to our customers
- continuous improvement process
- optimization of work processes
- economic stability
- quality-conscious development of our products

Certificate of Registration

Intertek

This is to certify that the Quality Management System of



FERGO® Armaturen GmbH
Blindeisenweg 31, D-41468 Neuss

has been assessed and registered by Intertek Certification GmbH as conforming to the requirements of

DIN EN ISO 9001:2008

The Quality Management System is applicable to

Technical consulting, production and sales of industrial valves

Certificate Reg. No.: 2016-10121
Validity Date: 19.04.2016 till 14.09.2018
Initial certification on: 19.04.2010
Issue Date: 08.04.2016

Christina Weiglein

Christina Weiglein, Certification Body
Intertek Certification GmbH – Marie-Bernays-Ring 19a, D-41199 Moenchengladbach, Germany



In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone.

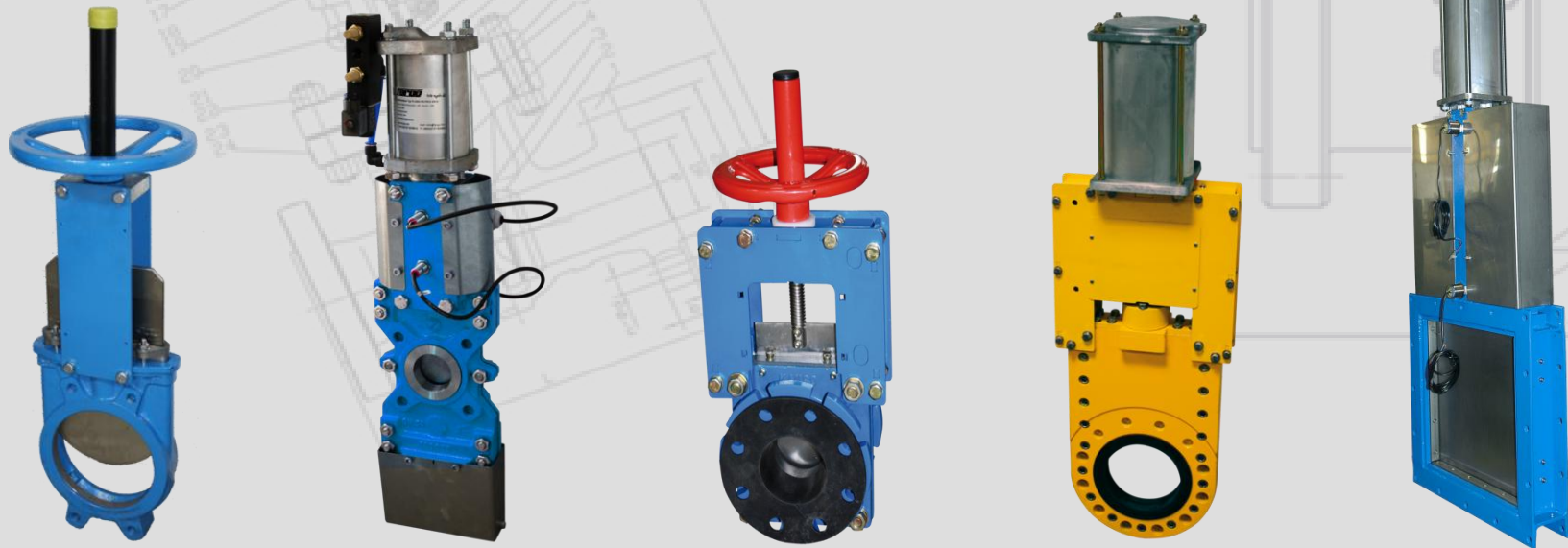
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Main FERGO products

FERGO's focus is on production of various knife gate valves:

- Standard gate valves (uni- and bidirectional)
- Mining-, bulk and silo-gate valves
- Chemistry-, pharmacy and food knife gate valves (gas proof gate valves)
- Square gate valves with special dimensions
- Special construction according to customer requirements (special materials)
- Nominal sizes up to DN1200 and larger on demand (special construction)
- Actuators: pneumatic, hydraulic, electric, manual (various)



Plant representatives

- Covalma S.L. (Xurox): butterfly valves



- Actreg S.A. (JC S.A. group – ball valves): pneumatic actuators



- Our valves are produced at our partner plants in Spain / FERGO as plant representative
- Production according to valid European manufacturer standards
- Special executions within these product groups are possible

Plant representative:



- Founded in 1996
- Specialized in development and manufacture of butterfly valves:
 - Wafer-, lug- and flanged design
 - Soft-seated, PFA-lined butterfly valves
 - Flanges according to DIN or ANSI, flange drilling wholes: metric or UNC
 - Body housing materials (Standard): GJS400, WCB, AISI 316, Bronze, Aluminium
 - Disc materials (Standard): GJS500, WCB, AISI 316, Hastelloy C, Alubronze
 - Liner (variety): EPDM, NBR, Viton (FPM), Silicone, Hypalon, Flucast
 - Actuation: pneumatic, electric, manual (various)
 - Standard nominal sizes: DN32 to DN1000 (bigger sizes on request)
 - Special colours and special materials (e.g. SuperDuplex)
- Certificates
 - 94/9/EC – ATEX
 - Det Norske Veritas' Rules for Classification of Ships



Plant representative:



- Founded in 1992
- Specialized in production of high quality pneumatic actuators
- The part-turn actuators are suitable for set and regulating mode
- Authority and Know-How: one of the leading manufacturers in drive technology
- Worldwide network of establishments
- Product range (standard):
 - Part-turn actuator with alu-body (up to 6500Nm)
 - Scotch and yoke actuator (up to 250000Nm)
 - Double acting, single acting NO/NC
 - Equipment : emergency gearbox, limit switch box
 - Low temperature execution (-50°C)
 - Custom painting



Partnership:

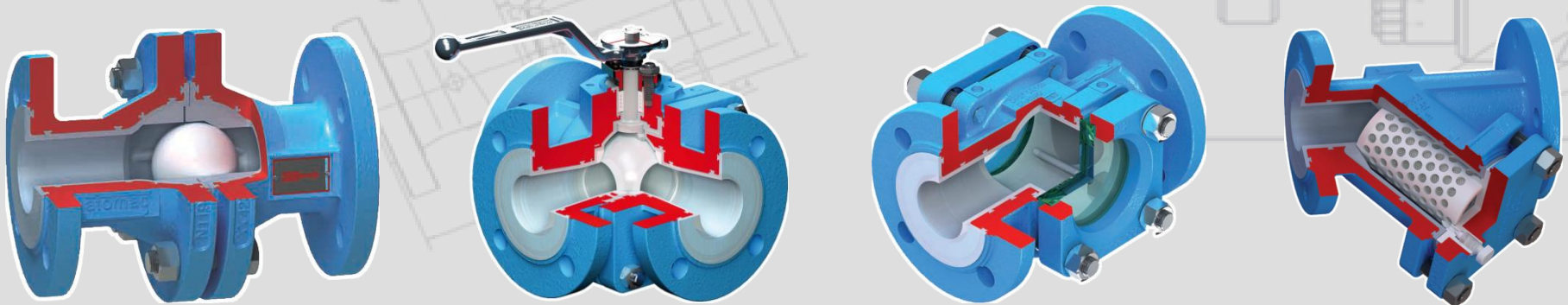


- Foundation in 1991, located in Czech Republic
- Leading producer of globe valves for regulation use
- Main focus:
 - Globe valves and bellow globe valves
 - Pressure reducing valves
 - DIN valves made from cast iron or stainless steel up to DN600 and PN400
 - Supplied with electric and pneumatic actuators of well-known producers
 - Even standard executions fulfill difficult requirements of regulation
 - Every valve will be customized and adjusted according to customers needs
 - Worldwide references of industry and power plants
 - Outraging quality and innovative competence



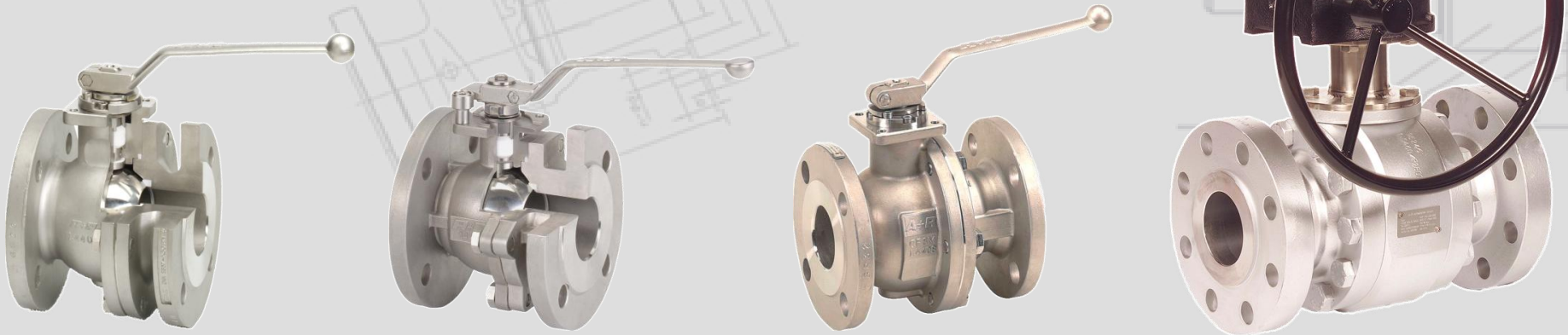
Partnership: **FLowsERVE**

- FLOWSERVE Ahaus is leading producer of PFA-lined valves:
 - Brands: ATOMAC and DURCO
 - PFA-lined ball and cock valves, butterfly valves, sight glasses and check valves
- But the demand is much more higher
 - Delivery times from three to five months (unconscionable for plant owners)
- Solution: FERGO Armaturen GmbH
 - PFA-lined valves on stock
 - Unique: delivery time only a few days
 - FERGO stock is also used by FLOWSERVE



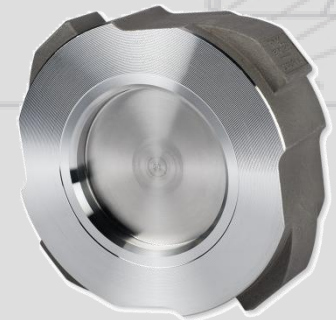
Partnership: **A+R**

- Foundation in 1969 and commencement of producing ball valves for various industry applications in 1983
- Production of high quality ball valves in Bad Salzufflen, Germany
- State of the art CNC machines with very precise repeat accuracy and specially designed test benches
- Over 1200 metric tons material in warehouse Bad Salzufflen
- Main focus:
 - Metal seated isolator and high performance ball valves PN10-40 / ANSI 150-900 with hard coated sealing systems (HVOF, tungsten or chrome carbide, Boride)
 - Soft seated isolator and high performance ball valves PN10-40 / ANSI 150-600 with soft seated sealing systems: PTFE (TFM 1600), PTFE compounds, PEEK
 - Materials: CF8M-316L-CF8-WCB-Duplex-Super Duplex-Hastelloy-Monel
 - Certificates: PED (Module B), FDA, FireSafe API607, TA Luft, SIL 3, EAC



Partnership: **FLOWSERVE** **GESTRA**

- Foundation of the company in 1902
 - Aims: optimisation of steam and energy saving in industry and efficient condensate discharge
- Since 2004: GESTRA AG
 - One of the leading providers of boiler equipment in Europe
 - GESTRA products are applied wherever steam is generated, distributed or used, liquid and gaseous media flow and savings in energy are possible.
- Focus of products:
 - Steam traps
 - Check valves
 - Control valves
 - Safety valves



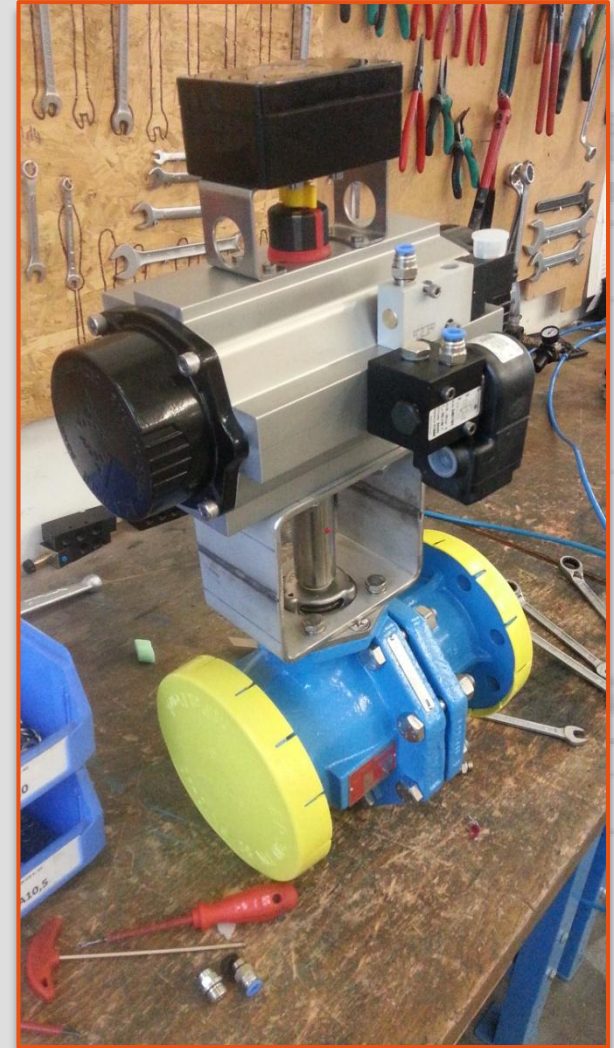
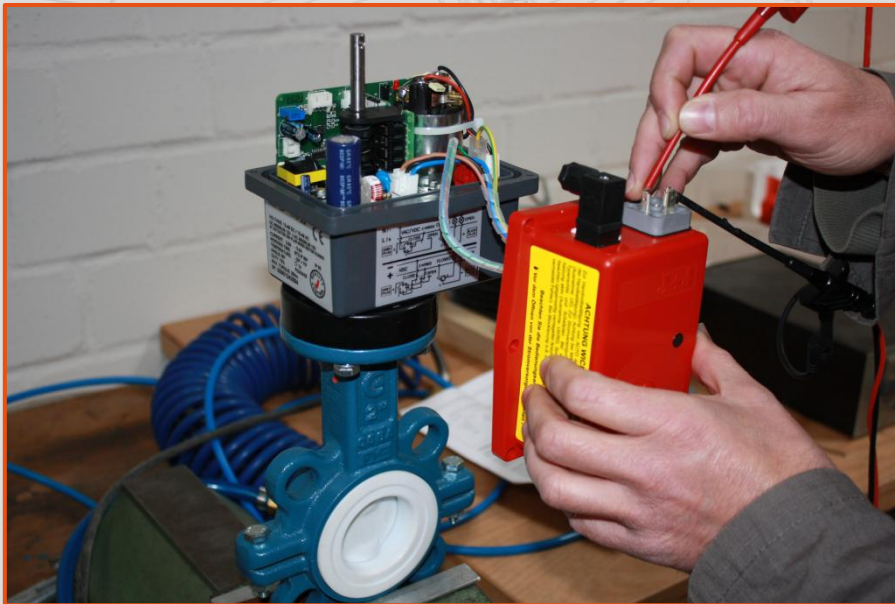
Automation

- Options of automation at FERGO:
 - Pneumatic part turn actuators (ACTREG)
 - Pneumatic linear actuators (e.g. FESTO)
 - Hydraulic actuators (e.g. HKS)
 - Electric actuators (AUMA, DEUFRA, ROTORK, J+J)
- Position measurement systems (PEPPERL+FUCHS)



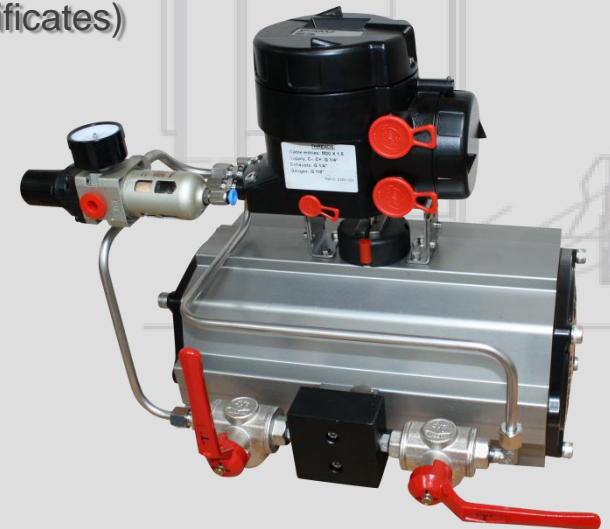
Automation

- Assembly and configuration of regulating systems (e.g. SPS)
- Automation for hazardous environment (e.g. EX-Areas)
- Accessories for automation:
 - Positioners (SIEMENS, BÜRKERT, FLOWSERVE)
 - Solenoid valves and silencers (JOYNER, ASCO, HERION)
 - Inductive or mechanical limit switches (IFM, P+F)
 - Mounting brackets, stem adapters and reducers



Special solutions / Project business

- Special purpose solutions / Customization
 - Pipeline adaptations (special face-to-face lengths / flanges)
 - Custom paintings and coatings (RAL colours / corrosive protection)
 - Special materials and alloys (Duplex / Hardox)
 - Special sizes: face-to-face, stem extensions, nominal diameters
- Complete valve packages from FERGO Armaturen GmbH
 - Elaborate documentation in several languages possible
 - Acceptance and inspection acc. to customers needs (3.1 & 3.2 certificates)
 - Packaging ready for shipping (sea and air shipping)
 - Wooden boxing (IPPC ISPM No.15)
 - Container shipment



Sewage plant Khartoum, Sudan



- Project in 2010/2011
- Knife gate valves FM200
- Sewage treatment



Sewage plant Al Aweer, Dubai



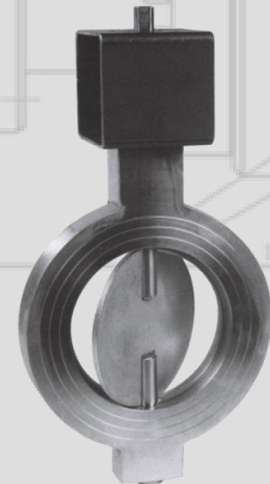
- Project in 2009
- High pressure knife gate valves FH650
- Transport of sapropel

Quarz plant Muraevnya, Russia

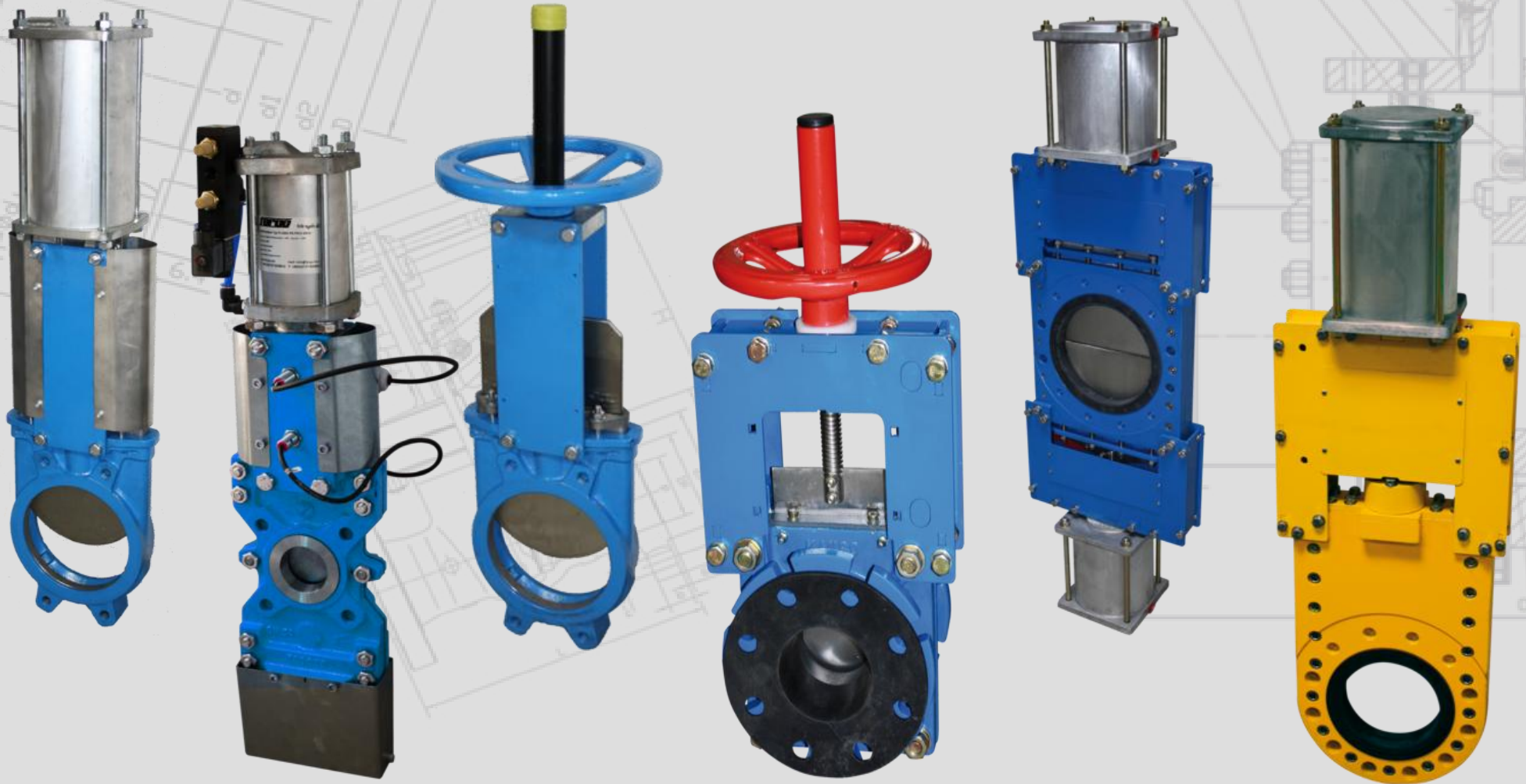


- Projects from 2005 to 2013
- Butterfly valves AK100, AK110
- Knife gate valves FM200, FC

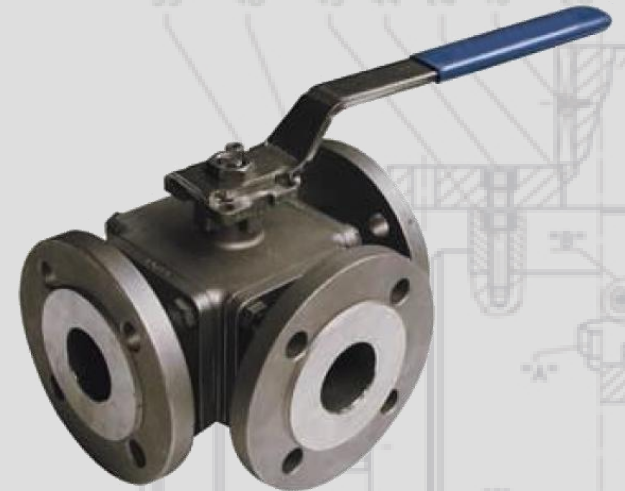
Example butterfly valves



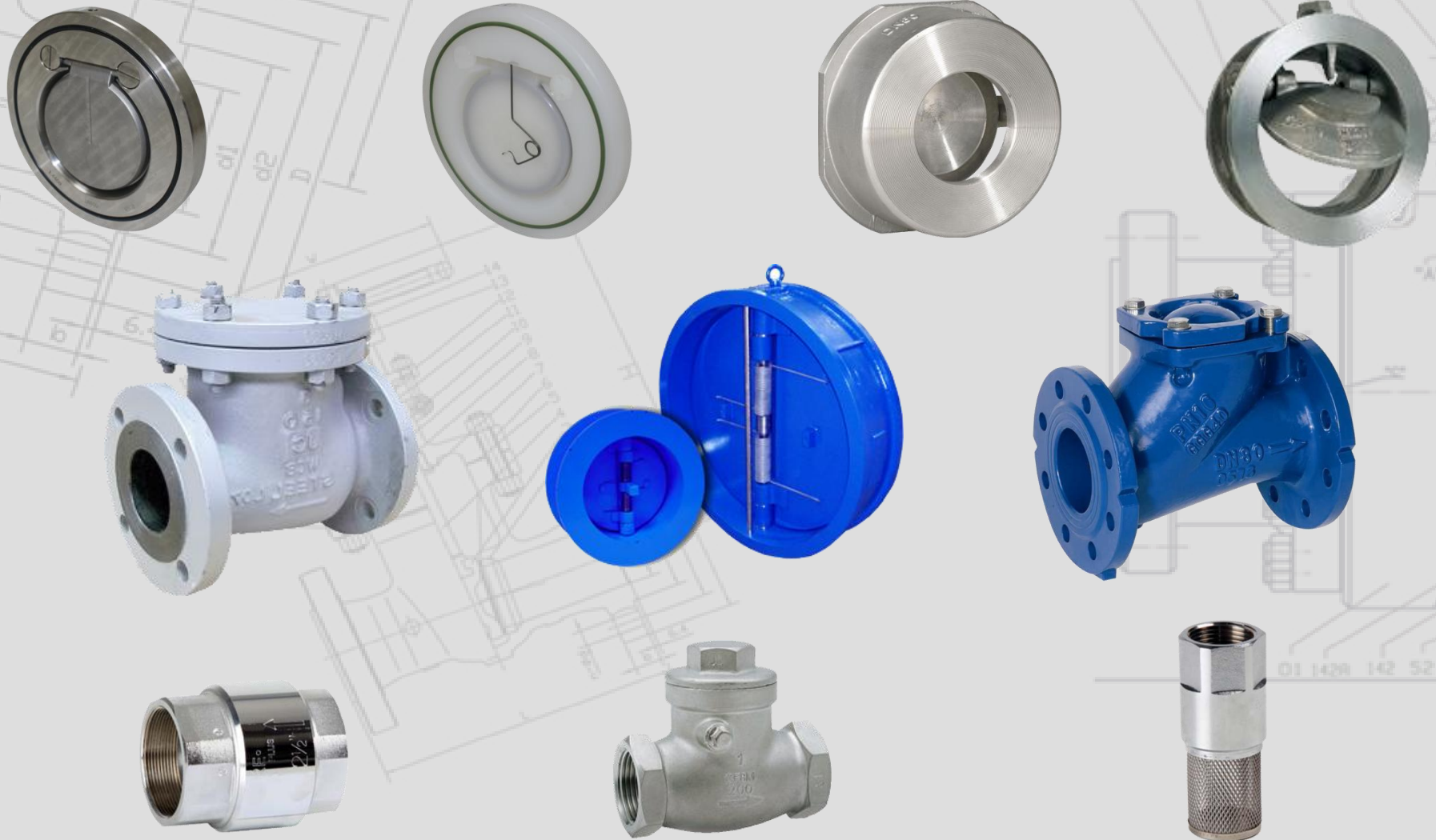
Example knife gate valves



Example ball valves



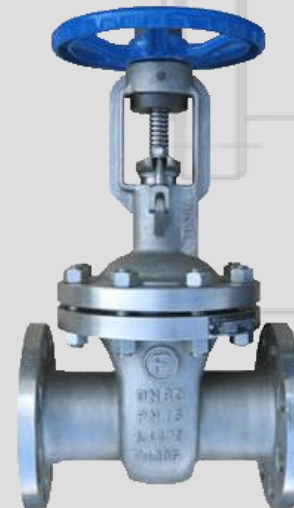
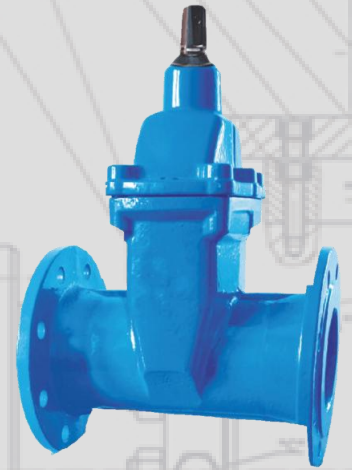
Example check valves



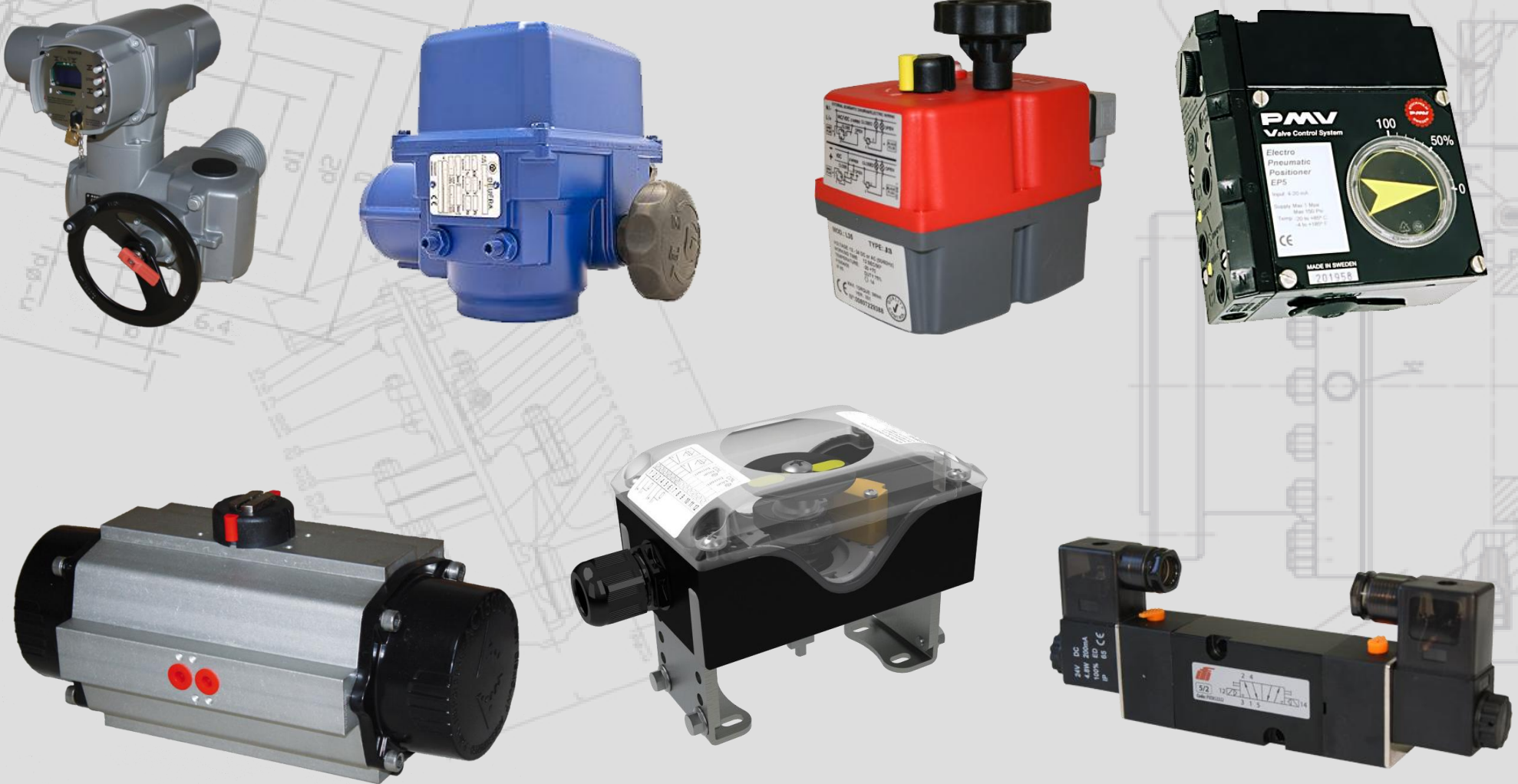
Example diaphragm valves



Example gate valves



Example actuators and accessories



Extract from our list of references:

GEA Group



Buderus



ABB



Nestlé

BILFINGER+BERGER
stavební Praha s.r.o.



SIEMENS

AE&E



— EnBW

AREVA



VEOLIA
WATER