

CFC

The newest generation
of double offset high
performance butterfly
valves for high end
applications



CFC High Performance Butterfly Valve Type CONAXE

KLINGER SCHÖNEBERG introduces the high performance butterfly valve type CONAXE as a new series of CFC butterfly valves into the market.

This extends the existing range of quality ball valves and presents a premium alternative for isolation and control valves. The CONAXE is a double offset high performance butterfly valve with outstanding quality features. Technical brilliant engineered and manufactured for a maximum benefit to the customers.

Drafted for metal and soft seats. Temperature ranges from -196°C up to +800°C. Designed for the main market segments of LNG, off shore, tank farms, power generation, district heating, air separation, geothermal energy, petrochemical, refineries and others. A wide choice of materials - such as carbon steel and stainless steel, 22Cr duplex, 25Cr duplex, SMO, titanium and bronze - ensures a broad product portfolio that covers many different applications. Based on the substantial experience and excellent know-how, a various number of special and customized solutions can be offered to the user.

Basic features:

- ▶ *zero leakage rate through massive metallic solid and glass-fiber reinforced RPTFE seals*
- ▶ *self-alignment, pressure equalised, floating bearing of shaft and seal*
- ▶ *replaceable disc seat seal*
- ▶ *excellent Kv-values performed through flow-optimised disc shape*



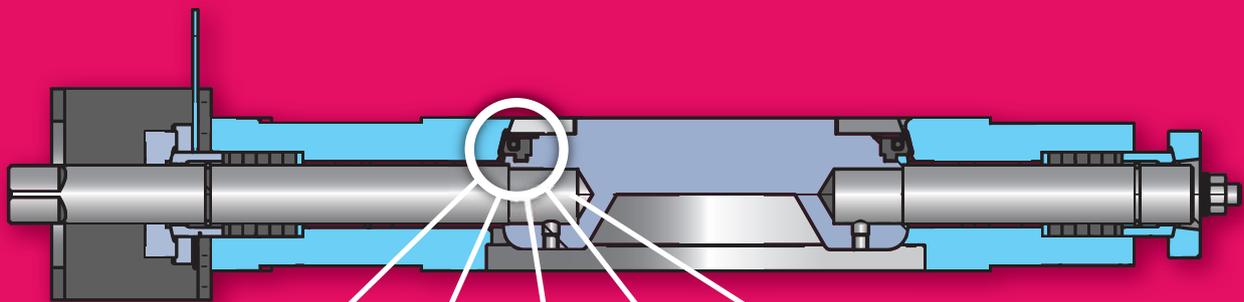
- ▶ *polygon drive shaft between disc and shaft for maximum durability and torque transmission*
- ▶ *low torques*
- ▶ *double anti-blow out*
- ▶ *double-sided, self-adjusted stuffing box*
- ▶ *anti-static execution*
- ▶ *top flange in accordance to DIN EN ISO 5211 with standardised square, dd or key way connection allows easy automation*
- ▶ *solid one-piece body*
- ▶ *body as wafer type, lug type, double flange and welded ends execution*



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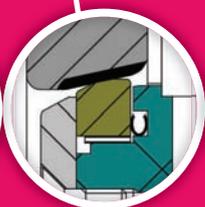
- ▶ *quality management system acc. to DIN EN ISO 9001:2008*
- ▶ *Pressure Equipment Directive 97/23/EC*
- ▶ *strength of body acc. to DIN EN 12516*
- ▶ *design acc. to AD 2000-leaflets A4 / W2 / W5 / W10 and others*
- ▶ *design performance acc. to EN 593 / API 609 cat.B / ASME B16.34*
- ▶ *face to face dimensions acc. to EN 558 / ISO 5752 / API 609-Tab.2*
- ▶ *anti-static execution acc. to EN 12266-F21*
- ▶ *anti-blow-out acc. to EN 593 / API 609*
- ▶ *fire-safe acc. to EN ISO 10497 / API 607*
- ▶ *TA-Luft acc. to German Clean Air Act VDI 2440*
- ▶ *ATEX 94/9/EC*
- ▶ *BAM oxygen approval*
- ▶ *design pressure PS20/CL.150lbs., PS50/CL.300lbs., PS100/CL.600lbs.*
- ▶ *flange connection PN10/16/25/40/63/100, CL. 150/300/600 lbs.*
- ▶ *nominal diameter DN50/NPS 2" up to DN1400/NPS 52"*
- ▶ *temperature range from -196°C up to +800°C*
- ▶ *pressure-temperature rating in accordance to ISO 7005 / API 609 / ASME B16.34*
- ▶ *leakage rate acc. to EN12266 rate A, API 598 class V*
- ▶ *special design as heating jackets, welded ends, RTJ and compact flanges etc. on customer request*
- ▶ *manufactured in Germany*



RPTFE



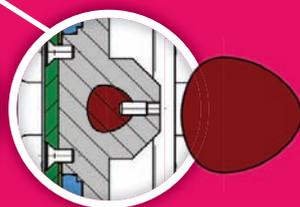
RPTFE
Fire-Safe



SOLID METALL

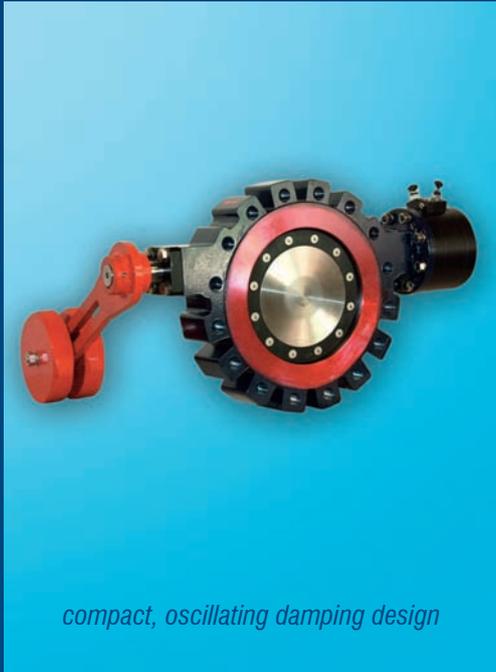


Metal/Graphite
lamellas



Strong, powerful and optimized
torque transmission by polygon
P3G drive

CFC Non Return Check Valve



compact, oscillating damping design

A complete new type of hydraulic damped non return check valve with lever and weight for gravitation supporting closure without linear hydraulic cylinder. Used for liquid and gaseous media. A secure protection for pumps against back flow out of pipe systems. Especially in case of compressible gases and vapours, a swinging up is prevented by the oscillating damping. The hydraulic damping also prevents a rapid closure of the valve and avoids the water hammer effect. The valves are delivered with a 2-step damping, serially. Temperature ranges from -20°C up to $+425^{\circ}\text{C}$ are achieved by different materials and sealing systems. Application fields in power generating plants, water supply companies, pipelines, tank farms and in the common industrial systems. Designed acc. to EN 593 / ASME B16.34. Nominal diameters from DN 200 up to DN 1400. Flanges acc. to PN10/16/25/40, Cl. 150/300 lbs.



conventional, hydraulic damping design

Basic features:

- ▶ hydraulic damping of the pipe back flow
- ▶ prevention of pipe back flow, free of water hammer effect
- ▶ compact design
- ▶ soft and metal seated
- ▶ oscillating and conventional hydraulic damping
- ▶ long-life cycle
- ▶ different materials for a wide range of application
- ▶ closure of the valve through a counter weight for gravity supporting
- ▶ body as lug type and double flange execution



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