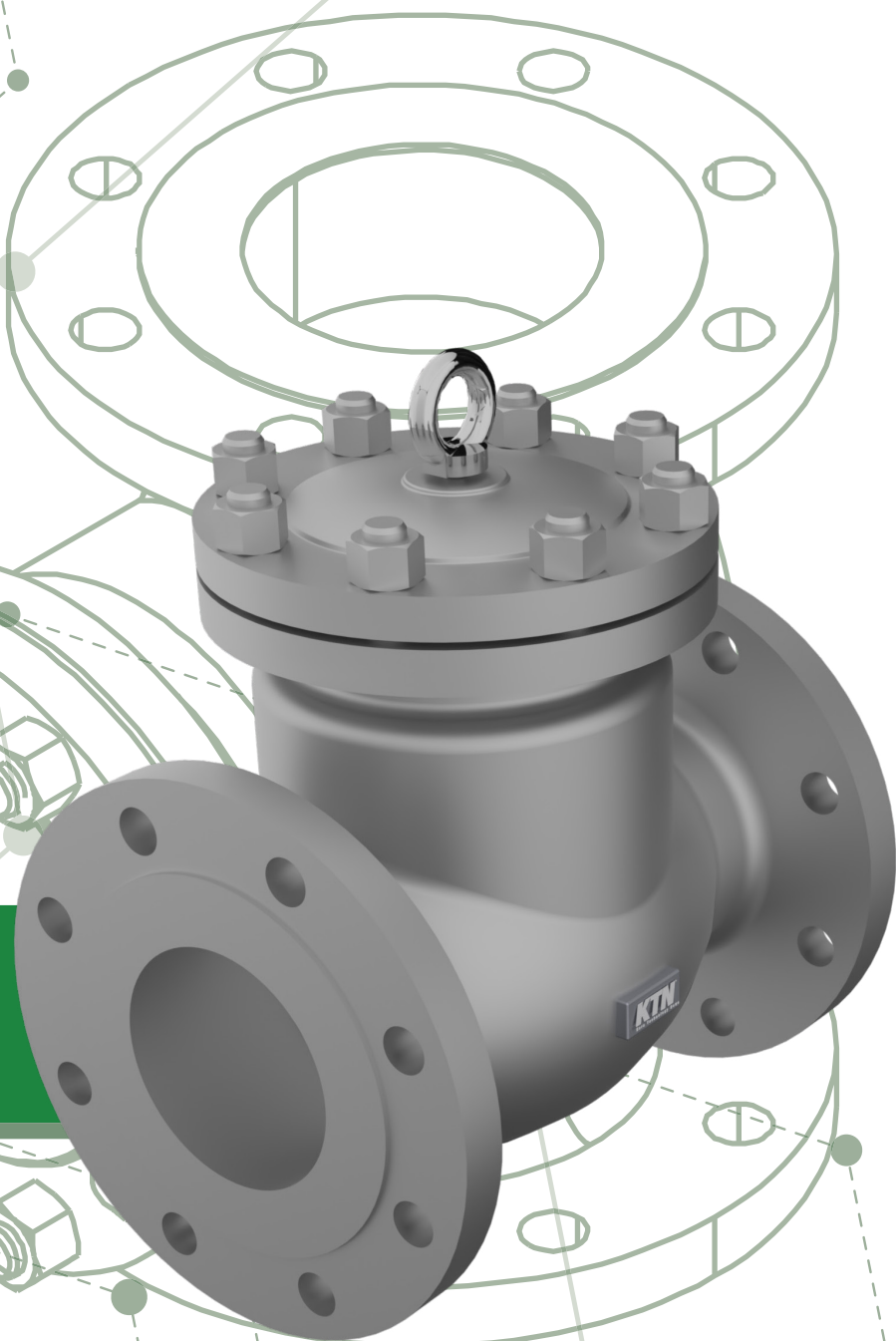


FIG. 523

WCB DIN FLANGED CHECK VALVE

DN50/250 | PN6/40



KTN FLANGED DIN CHECK VALVE:

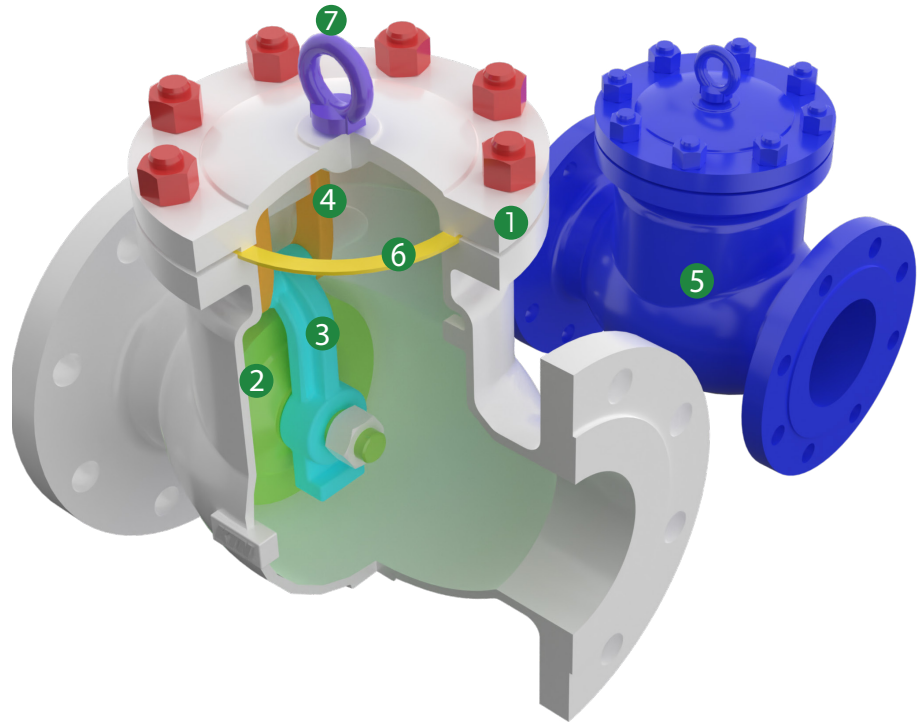
The **KTN 523** is our **DIN-standard check valve**, designed according to **DIN 3356** with face-to-face dimensions compliant with **DIN 3202**. The flanges are manufactured in accordance with **EN 1092-1**, and pressure testing is performed under **EN 12266** standards.

The valve body is made of **cast carbon steel WCB**, and the available size range is from **DN15 to DN250**, with pressure classes from **PN6 up to PN40** (higher ratings available on request). This valve is suitable for **stopping or regulating the flow of water, oil, gas**, and other process media under a wide range of **temperature and pressure conditions**.

The **KTN 523** is manufactured in our **state-of-the-art production facility**, using **advanced machining technologies**. Its surface finish and internal precision are ensured through **CNC machining**, resulting in **smooth operation** and **enhanced sealing performance**.

Our **design surpasses standard expectations**, offering **exceptional durability and wear resistance**. It is suitable for **severe service conditions** and fully complies with **API 598 destruction tests**. Furthermore, the **reinforced flange thickness** and **spot-facing on the rear flange holes** guarantee **safety and mechanical integrity** even under the most **demanding applications**.

- 1 Bolted bonnet** which provides a secure seal to prevent leakage and maintain pressure integrity within the valve. This ensures that the valve functions properly and effectively controls the flow of fluids in a piping system.
- 2 Disc clapper** includes a pin to improve mobility around the valve seat, it allows better sealing and more efficient flow control. The pin helps the disc clapper move freely and adjust its position as needed to ensure a tight seal against the valve seat. This mobility is crucial in preventing backflow and leakage, as well as in maintaining the overall performance and reliability of the check valve.
- 3 The valve lever** is attached to the shaft by a bearing to improve the compatibility between materials and its resistance to wear.
- 4 A swing hanger** serves as the pivot point for the swinging disc. This hanger allows the disc to swing freely in response to the flow of fluid, opening to allow flow in one direction and closing to prevent backflow in the opposite direction. The swing hanger is crucial for ensuring smooth operation of the swing check valve, as it enables the disc to move easily and effectively, providing reliable flow control and preventing reverse flow in the system.
- 5 Body and bonnet** constructed from durable high-quality materials such as stainless steel, carbon steel, or ductile iron, ensuring longevity and resistance to corrosion. The seamless integration of seats into the valve body provides a tight seal that prevents leakage without the need for separate seat rings, reducing the risk of misalignment or damage. The interior design of the valve body is optimized to offer a smooth flow path, minimizing pressure drop and turbulence for efficient operation. Additionally, the reinforced construction of the body enables it to withstand high pressures and temperatures, guaranteeing reliable performance in demanding industrial application.
- 6 Corrugated heat-resistant graphite gasket** for rapid adaptability between the body and the bonnet and made to withstand dramatic temperature changes.
- 7 The top hook** helps to hold the bonnet in place and provides additional support to keep the valve components aligned and stable.

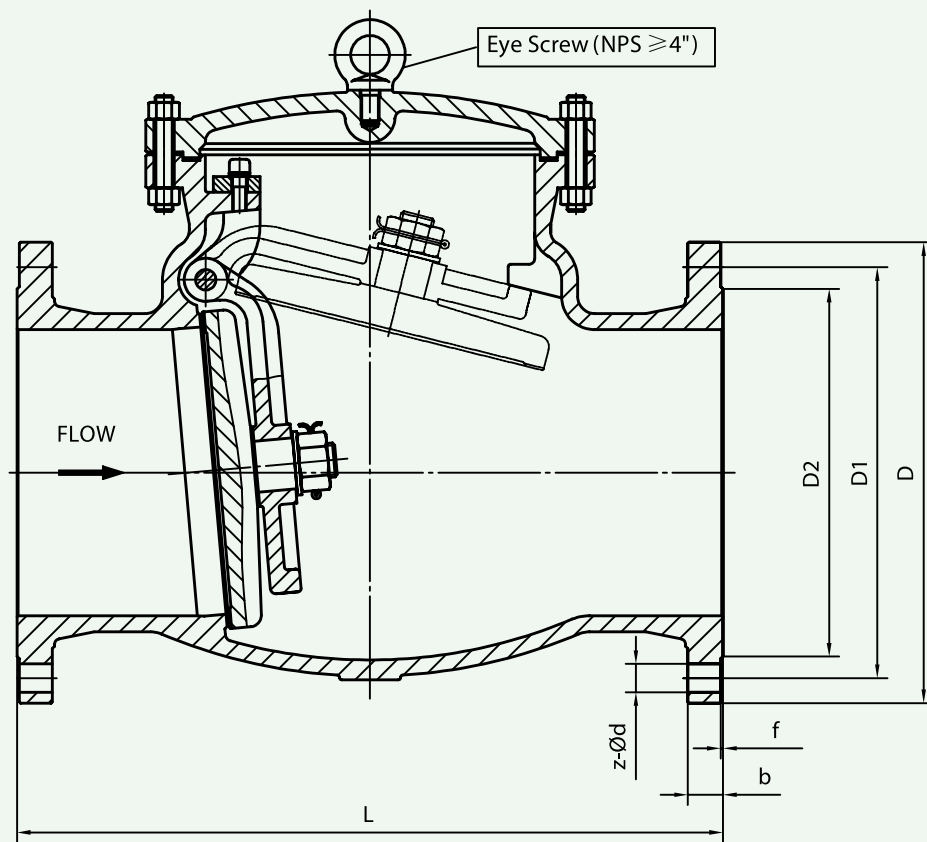


KTN 523

CAST CARBON STEEL CHECK VALVE WITH DIN FLANGED ENDS

GENERAL SPECIFICATIONS

DESIGN:	DIN 3356
FACE TO FACE:	DIN 3202
CONNECTION:	EN 1092-1
TEST:	EN 12266
TEMPERATURE RANGE:	-29°C ~ 425°C
MEDIUM:	Water, oil and gas



MAIN EXTERNAL DIMENSIONS PN 6

DN	L	D	D1	D2	b	Z-Ød	f
50	230	140	110	90	14	4-Ø14	3
65	290	160	130	100	14	4-Ø14	3
80	310	190	150	128	16	4-Ø18	3
100	350	210	170	148	16	4-Ø18	3
125	400	240	200	178	18	8-Ø18	3
150	480	265	225	202	18	8-Ø18	3
200	600	320	280	258	20	8-Ø18	3
250	650	375	335	312	22	12-Ø18	3

MAIN EXTERNAL DIMENSIONS PN 10

DN	L	D	D1	D2	b	Z-Φd	f
50	230	165	125	102	18	4-Φ18	3
65	290	185	145	122	18	8-Φ18	3
80	310	200	160	138	20	8-Φ18	3
100	350	220	180	158	20	8-Φ18	3
125	400	250	210	188	22	8-Φ18	3
150	480	285	240	212	22	8-Φ22	3
200	600	340	295	268	24	8-Φ22	3
250	650	395	350	320	26	12-Φ22	3

MAIN EXTERNAL DIMENSIONS PN 16

DN	L	D	D1	D2	b	Z-Φd	f
50	230	165	125	102	18	4-Φ18	3
65	290	185	145	122	18	8-Φ18	3
80	310	200	160	138	20	8-Φ18	3
100	350	220	180	158	20	8-Φ18	3
125	400	250	210	188	22	8-Φ18	3
150	480	285	240	212	22	8-Φ22	3
200	600	340	295	268	24	12-Φ22	3
250	650	405	355	320	26	12-Φ26	3

MAIN EXTERNAL DIMENSIONS PN 25

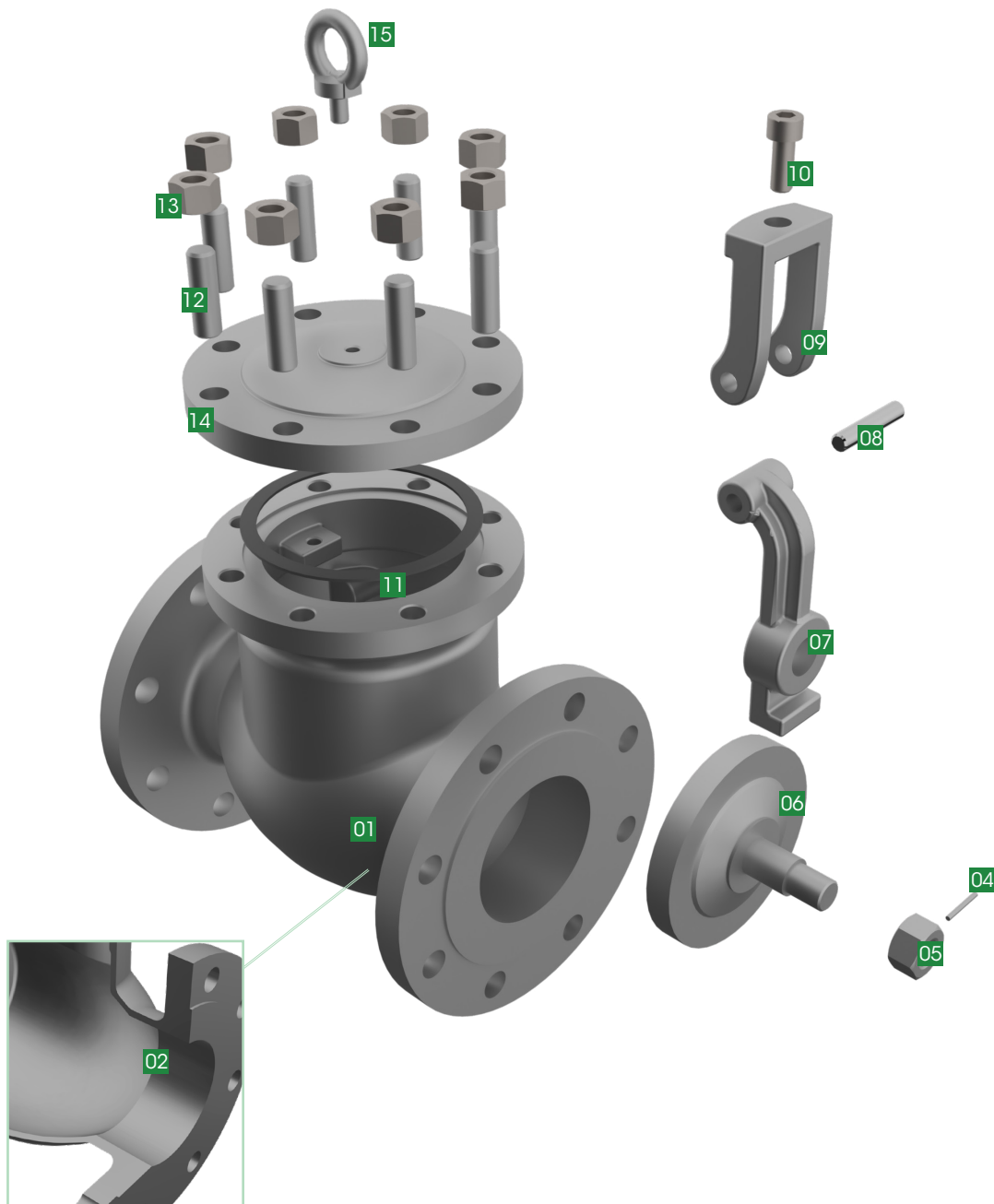
DN	L	D	D1	D2	b	Z-Φd	f
50	230	165	125	102	20	4-Φ18	3
65	290	185	145	122	22	8-Φ18	3
80	310	200	160	138	24	8-Φ18	3
100	350	235	190	162	24	8-Φ22	3
125	400	270	220	188	26	8-Φ26	3
150	480	300	250	218	28	8-Φ26	3
200	600	360	310	278	30	12-Φ26	3
250	650	425	370	335	32	12-Φ30	3

MAIN EXTERNAL DIMENSIONS PN 40

DN	L	D	D1	D2	b	Z-Φd	f
50	230	165	125	102	20	4-Φ18	3
65	290	185	145	122	22	8-Φ18	3
80	310	200	160	138	24	8-Φ18	3
100	350	235	190	162	24	8-Φ22	3
125	400	270	220	188	26	8-Φ26	3
150	480	300	250	218	28	8-Φ26	3
200	600	375	320	285	34	12-Φ30	3
250	650	450	385	345	38	12-Φ33	3

KTN 523

CAST CARBON STEEL CHECK VALVE WITH DIN FLANGED ENDS



10	Screw	CS
09	Yoke	WCB (1.0619)
08	Hinge pin	ASTM A276 410
07	Hinge	WCB (1.0619)
06	Disc washer	SS

15	Eye screw	CS
14	Bonnet	WCB (1.0619)
13	Nut	ASTM A194 2H
12	Stud	ASTM A193 B7
11	Gasket	Flexible graphite 316

05	Retaining nut	ASTM A194 8M
04	Cotter pin	SS
03	Disc	CF8M (1.4408)
02	Seat	WCB (1.0619)+316
01	Body	WCB (1.0619)

