

## 1. Casting linear dimension tolerance

Dimension Range mm	General Tolerance mm	Ref. standard Equal to		Special tolerance	Ref. standard Equal to	
		ISO8062-3 (2007)	VDG P690 (1999)		ISO8062-3 (2007)	VDG P690 (1999)
0-10	±0.26	DCTG6	D2	±0.13	DCTG4	D3
10-16	±0.27	DCTG6	D1	±0.14	DCTG4	D2
16-25	±0.28	DCTG6	D1	±0.15	DCTG4	D2
25-40	±0.32	DCTG6	D2	±0.23	DCTG5	D2
40-63	±0.35	DCTG6	D2	±0.25	DCTG5	D2
63-100	±0.55	DCTG7	D1	±0.39	DCTG6	D2
100-160	±0.90	DCTG8	D1	±0.60	DCTG7	D2
160-250	±1.40	DCTG9	D1	±1.00	DCTG8	D2
250-400	±2.20	DCTG10	D1	±1.60	DCTG9	D2
>400	±0.8%	DCTG11	D1	±0.5%	DCTG9	D2

## 2. Casting geometric tolerance

### 2.1 Casting straightness tolerance

Dimension Range mm	General Tolerance mm	Ref. standard Equal to		Special tolerance	Ref. standard Equal to	
		ISO8062-3 (2007)	VDG P690 (1999)		ISO8062-3 (2007)	VDG P690 (1999)
0-≤10	0.18	GCTG4	D1	0.12	GCTG3	D2
>10-≤30	0.27	GCTG4	D1	0.18	GCTG3	D2
>30-≤100	0.6	GCTG5	D1	0.4	GCTG4	D2
>100-≤300	1.4	GCTG6	D2	0.6	GCTG4	D3
>300-≤500	3	GCTG7	D1	1.4	GCTG5	D2

## 2.2 Casting flatness tolerance

Dimension Range mm	General Tolerance mm	Ref. standard Equal to		Special tolerance	Ref. standard Equal to	
		ISO8062-3 (2007)	VDG P690 (1999)		ISO8062-3 (2007)	VDG P690 (1999)
0-≤10	0.27	GCTG4	D1	0.18	GCTG3	D2
>10-≤30	0.4	GCTG4	D1	0.27	GCTG3	D2
>30-≤100	0.6	GCTG4	D1	0.4	GCTG3	D2
>100-≤300	1.4	GCTG5	D1	0.9	GCTG4	D2
>300-≤500	2	GCTG6	D2	1.4	GCTG4	D3

## 2.3 Casting roundness、parallelism、perpendicularity、Symmetry tolerance

Dimension Range mm	General Tolerance mm	Ref. standard Equal to		Special tolerance	Ref. standard Equal to	
		ISO8062-3 (2007)	VDG P690 (1999)		ISO8062-3 (2007)	VDG P690 (1999)
0-≤10	0.27	GCTG3	D2	0.27	GCTG3	D2
>10-≤30	0.4	GCTG3	D2	0.4	GCTG3	D2
>30-≤100	0.6	GCTG3	D1	0.6	GCTG3	D2
>100-≤300	1.4	GCTG4	D1	0.9	GCTG3	D2
>300-≤500	3	GCTG5	D2	2	GCTG4	D3

## 2.4 Casting coaxial tolerance

Dimension Range mm	General Tolerance mm	Ref. standard Equal to		Special tolerance	Ref. standard Equal to	
		ISO8062-3 (2007)	VDG P690 (1999)		ISO8062-3 (2007)	VDG P690 (1999)
0-≤10	0.4	GCTG3	D1	0.27	GCTG2	D2
>10-≤30	0.6	GCTG3	D1	0.4	GCTG2	D2
>30-≤100	0.9	GCTG3	D1	0.6	GCTG2	D2
>100-≤300	2	GCTG4	D1	1.4	GCTG3	D2
>300-≤500	3	GCTG4	D2	2	GCTG3	D3