

Pipe Class
Specification PN 40

pipe parts * pipe class: ZB40C1
Reducer, eccentric, welded

1	Pipe class	ZB40C1
2	Part identification	RZEG
3	Pipe class part	Reducer, eccentric, welded
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN 2616-1
6	Terms of delivery	DIN 2609
7	Certificate	3.1.C or 3.2 according to DIN EN 10204
8	Identification	DIN 2609, section 6
9	Ordering addition	Reducer, eccentric, with decreased utilization factor, made of welded pipe according to DIN 17457 Type d2 / k2 according to DIN 17457, table 6 Weld preparation according to DIN 2559-1 and DIN 2559-3 Testing class 2 according to DIN 17457, AD 2000-leaflet W2 Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²) Ends closed with caps Requirements AD 2000-sheet W2 and W10, table 1, must be met At wall thicknesses ≤ 10 mm, an inspection certificate 3.1.B is sufficient, if the requirements according to AD 2000-sheet W2, section 6.2.1, are met.

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	ND ₁	ND ₂	d ₁ x s ₁	d ₂ x s ₂	kg	S _{R1}	S _{R2}
18128	20	15	26,9 x 1,6	21,3 x 1,6	0,03	1,60	1,60
18129	25	15	33,7 x 2	21,3 x 1,6	0,06	2,00	1,60
18130	25	20	33,7 x 2	26,9 x 1,6	0,07	2,00	1,60

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	ND ₁	ND ₂	d ₁ x s ₁	d ₂ x s ₂	kg	S _{R1}	S _{R2}
18131	32	15	42,4 x 2	21,3 x 1,6	0,08	2,00	1,60
18132	32	20	42,4 x 2	26,9 x 1,6	0,08	2,00	1,60
18133	32	25	42,4 x 2	33,7 x 2	0,09	2,00	2,00
18134	40	20	48,3 x 2	26,9 x 1,6	0,12	2,00	1,60
18135	40	25	48,3 x 2	33,7 x 2	0,13	2,00	2,00
18136	40	32	48,3 x 2	42,4 x 2	0,14	2,00	2,00
18137	50	20	60,3 x 2	26,9 x 1,6	0,16	2,00	1,60
18138	50	25	60,3 x 2	33,7 x 2	0,17	2,00	2,00
18139	50	32	60,3 x 2	42,4 x 2	0,19	2,00	2,00
18140	50	40	60,3 x 2	48,3 x 2	0,20	2,00	2,00
18141	65	25	76,1 x 2,3	33,7 x 2	0,27	2,30	2,00
18142	65	32	76,1 x 2,3	42,4 x 2	0,30	2,30	2,00
18143	65	40	76,1 x 2,3	48,3 x 2	0,31	2,30	2,00
18144	65	50	76,1 x 2,3	60,3 x 2	0,34	2,30	2,00
18145	80	32	88,9 x 2,3	42,4 x 2	0,33	2,30	2,00
18146	80	40	88,9 x 2,3	48,3 x 2	0,35	2,30	2,00
18147	80	50	88,9 x 2,3	60,3 x 2	0,38	2,30	2,00
18148	80	65	88,9 x 2,3	76,1 x 2,3	0,42	2,30	2,30
18149	100	40	114,3 x 3,6	48,3 x 2,6	0,52	2,60	2,00
18150	100	50	114,3 x 2,6	60,3 x 2	0,55	2,60	2,00
18151	100	65	114,3 x 2,6	76,1 x 2,3	0,61	2,60	2,30
18152	100	80	114,3 x 2,6	88,9 x 2,3	0,65	2,60	2,30
18153	125	50	139,7 x 4	60,3 x 2,9	1,23	2,60	2,00
18154	125	65	139,7 x 4	76,1 x 2,9	1,33	2,60	2,30
18155	125	80	139,7 x 4	88,9 x 3,2	1,41	2,60	2,30
18156	125	100	139,7 x 2,6	114,3 x 2,6	1,03	2,60	2,60

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	ND ₁	ND ₂	d ₁ x s ₁	d ₂ x s ₂	kg	S _{R1}	S _{R2}
18157	150	65	168,3 x 4	76,1 x 2,9	1,67	4,00	2,30
18158	150	80	168,3 x 4	88,9 x 3,2	1,80	4,00	2,30
18159	150	100	168,3 x 4	114,3 x 3,6	2,00	4,00	2,60
18160	150	125	168,3 x 4	139,7 x 4	2,10	4,00	2,60
18161	200	80	219,1 x 6,3	88,9 x 3,2	3,60	4,50	2,30
18162	200	100	219,1 x 6,3	114,3 x 3,6	3,90	4,50	2,60
18163	200	125	219,1 x 6,3	139,7 x 4	4,20	4,50	2,60
18164	200	150	219,1 x 4,5	168,3 x 4	3,25	4,50	4,00
18165	250	100	273 x 8,8	114,3 x 6,3	7,30	5,00	2,60
18166	250	125	273 x 8,8	139,7 x 6,3	7,80	5,00	2,60
18167	250	150	273 x 6,3	168,3 x 4,5	6,10	5,00	4,00
18168	250	200	273 x 5	219,1 x 4,5	5,40	5,00	4,50
18169	300	125	323,9 x 10	139,7 x 6,3	11,37	5,60	2,60
18170	300	150	323,9 x 10	168,3 x 7,1	12,10	5,60	4,00
18171	300	200	323,9 x 7,1	219,1 x 6,3	9,56	5,60	4,50
18172	300	250	323,9 x 7,1	273 x 6,3	10,60	5,60	5,00
18173	350	150	355,6 x 8	168,3 x 4,5	16,90	8,00	4,00
18174	350	200	355,6 x 8	219,1 x 6,3	18,52	8,00	4,50
18175	350	250	355,6 x 8	273 x 6,3	20,30	8,00	5,00
18176	350	300	355,6 x 8	323,9 x 7,1	21,96	8,00	5,60
18177	400	150	406,4 x 12,5	168,3 x 7,1	30,84	8,80	4,00
18178	400	200	406,4 x 8,8	219,1 x 6,3	23,90	8,80	4,50
18179	400	250	406,4 x 8,8	273 x 6,3	26,00	8,80	5,00
18180	400	300	406,4 x 8,8	323,9 x 7,1	27,95	8,80	5,60
18181	400	350	406,4 x 8,8	355,6 x 8	29,15	8,80	8,00

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	ND ₁	ND ₂	d ₁ x s ₁	d ₂ x s ₂	kg	s _{R1}	s _{R2}
18182	500	200	508 x 11	219,1 x 6,3	49,67	11,00	4,50
18183	500	250	508 x 11	273 x 6,3	53,43	11,00	5,00
18184	500	300	508 x 11	323,9 x 7,1	57,00	11,00	5,60
18185	500	350	508 x 11	355,6 x 8	59,10	11,00	8,00
18186	500	400	508 x 11	406,4 x 8,8	62,60	11,00	8,80
18187	600	250	610 x 17,5	273 x 8,8	95,35	12,50	5,00
18188	600	300	610 x 17,5	323,9 x 10	100,10	12,50	5,60
18189	600	350	610 x 12,5	355,6 x 8	75,14	12,50	8,00
18190	600	400	610 x 12,5	406,4 x 8,8	79,10	12,50	8,80
18191	600	500	610 x 12,5	508 x 11	87,01	12,50	11,00

10 Valid and listed documents

AD 2000-leaflet W2
 AD 2000-leaflet W10
 DIN 2559-1
 DIN 2559-3
 DIN 2616-1
 DIN 2609
 DIN 17457
 DIN EN 10204

Pipe Class
Specification PN 40

pipe parts * pipe class: ZB40C1
Caps

1	Pipe class	ZB40C1
2	Part identification	KAP
3	Pipe class part	Caps
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN 2617
6	Terms of delivery	DIN 2609
7	Certificate	3.1.B according to DIN EN 10204
8	Identification	DIN 2609, section 6
9	Ordering addition	Cap to weld in, made of sheet steel, forging or bar stock Weld preparation according to DIN 2559-1 and DIN 2559-3 Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²) Ends closed with caps Requirements AD 2000-sheet W2 and W10, table 1, must be met

Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	DN	d _a x s	kg	s _R
18110	15	21,3 x 1,6	0,02	1,60
18111	20	26,9 x 1,6	0,03	1,60
18112	25	33,7 x 2	0,06	2,00
18113	32	42,4 x 2	0,08	2,00
18114	40	48,3 x 2	0,10	2,00
18115	50	60,3 x 2	0,12	2,00
18116	65	76,1 x 2,3	0,18	2,30
18117	80	88,9 x 2,3	0,29	2,30

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Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	DN	d _a x s	kg	s _R
18118	100	114,3 x 2,6	0,53	2,60
18119	125	139,7 x 2,6	0,77	2,60
18120	150	168,3 x 4	1,66	4,00
18121	200	219,1 x 4,5	2,84	4,50
18122	250	273 x 5	4,95	5,00
18123	300	323,9 x 5,6	7,89	5,60
18124	350	355,6 x 8	13,29	8,00
18125	400	406,4 x 8,8	18,21	8,80
18126	500	508 x 11	36,48	11,00
18127	600	610 x 12,5	58,42	12,50

10 Valid and listed documents

AD 2000-leaflet W2
 AD 2000-leaflet W10
 DIN 2559-1
 DIN 2559-2
 DIN 2609
 DIN 2617
 DIN EN 10204

Pipe Class
Specification PN 40

pipe parts * pipe class: ZB40C1
Blanks

- | | | |
|---|----------------------------|---|
| 1 | Pipe class | ZB40C1 |
| 2 | Part identification | BSS |
| 3 | Pipe class part | Blanks |
| 4 | Material | 1.4541 (X 6 CrNiTi 18 10) |
| 5 | Dimension standard | Uhde- Norm 3902-1 |
| 6 | Terms of delivery | DIN 17440 |
| 7 | Certificate | 3.1.C or 3.2 according to DIN EN 10204 |
| 8 | Identification | |
| 9 | Ordering addition | <p>Two-part figure-eight blank for DIN-flange with flat seal, made of hot-rolled flat steel according to DIN EN 10029, class A</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Packed in PE-bags, diameter 200 and above shrink-wrapped in PE-foil</p> <p>Requirements AD 2000-sheet W2 and W10, table 1, must be met</p> <p>At wall thicknesses ≤ 30 mm, an inspection certificate 3.1.B is sufficient</p> |

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Ident-Nr.	nom. width	diameter	diameter	thickness	weights
	ND	d ₁	d ₂	s ₁	kg
18042	15	40,00	20,00	10	0,00
18043	20	60,00	25,00	10	0,00
18044	25	70,00	30,00	10	0,00
18045	32	81,00	40,00	10	0,00
18046	40	91,00	45,00	10	0,00
18047	50	106,00	57,00	10	0,00
18048	65	126,00	73,00	10	0,00

Ident-Nr.	nom. width	diameter	diameter	thickness	weights
	ND	d ₁	d ₂	s ₁	kg
18049	80	141,00	85,00	10	0,00
18050	100	167,00	110,00	15	0,00
18051	125	193,00	135,00	15	0,00
18052	150	223,00	160,00	20	0,00
18053	200	289,00	210,00	25	0,00
18054	250	351,00	262,00	30	0,00
18055	300	416,00	312,00	40	0,00
18056	350	473,00	342,00	40	0,00
18057	400	545,00	390,00	50	0,00
18058	500	627,00	498,00	50	0,00

- 10 **Valid and listed documents**
- AD 2000-leaflet W2
 - AD 2000-leaflet W10
 - DIN 17440
 - DIN EN 10029-A
 - DIN EN 10204
 - Uhde-Norm 3902-1

**Pipe Class
Specification PN 40**
**pipe parts * pipe class: ZB40C1
Welding neck flanges**

1	Pipe class	ZB40C1
2	Part identification	VF
3	Pipe class part	Welding neck flanges
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN EN 1092-1
6	Terms of delivery	DIN EN 1092-1
7	Certificate	3.1.C or 3.2 according to DIN EN 10204
8	Identification	AD 2000-leaflet W9, section 5
9	Ordering addition	Forged welding neck flanges with flat seal (shape B1) free of oil, grease and slip additive (max.: 300 mg/m²) Ends closed with caps Requirements AD 2000-Merkblatt W2, W9 and W10, table 1, must be met At forged pieces with wall thicknesses ≤ 250 mm, an inspection certificate 3.1.B is sufficient according to AD 2000-leaf W2, table 6.2

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Ident-No.	nom. diameter	dimensions	weights
	ND	ND x ØA	kg
18497	15	15 x 21,3	1,00
18498	20	20 x 26,9	1,00
18499	25	25 x 33,7	1,00
18500	32	32 x 42,4	2,00
18501	40	40 x 48,3	2,00
18502	50	50 x 60,3	3,00

Ident-No.	nom. diameter	dimensions	weights
	ND	ND x ØA	kg
18503	65	65 x 76,1	4,00
18504	80	80 x 88,9	5,00
18505	100	100 x 114,3	6,50
18506	125	125 x 139,7	9,00
18507	150	150 x 168,3	11,50
18508	200	200 x 219,1	21,00
18509	250	250 x 273	34,00
18510	300	300 x 323,9	47,50
18511	350	350 x 355,6	69,00
18512	400	400 x 406,4	98,00
18513	500	500 x 508	130,50

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W9
AD 2000-leaflet W10
DIN EN 1092-1
DIN EN 10204

**Pipe Class
Specification PN 40**

**pipe parts * pipe class: ZB40C1
blind flanges**

1	Pipe class	ZB40C1
2	Part identification	BF
3	Pipe class part	Blind flanges
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN EN 1092-1
6	Terms of delivery	DIN EN 1092-1
7	Certificate	3.1.C or 3.2 according to DIN EN 10204
8	Identification	AD 2000-sheet W9, section 5
9	Ordering addition	blind flanges with flat seal (shape A) free of oil, grease and slip additive (max.: 300 mg/m²) Packed in PE-bags, diameter 200 and above shrink- wrapped in PE-foil Requirements AD 2000-Merkblatt W2, W9 and W10, must be met At forged pieces with wall thicknesses <= 250 mm, an inspection certificate 3.1.B is sufficient according to AD 2000-leaf W2, table 6.2

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Ident-No.	nom. diameter	weights
	ND	kg
18025	15	1, 00
18026	20	1,00
18027	25	1,50
18028	32	2,00
18029	40	2,50
18030	50	3,00

Ident-No.	nom. diameter	weights
	ND	kg
18031	65	4,50
18032	80	5,50
18033	100	7,50
18034	125	11, 00
18035	150	14,50
18036	200	29,00
18037	250	44,50
18038	300	64,00
18039	350	89,50
18040	400	127,00
18041	500	188,00

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W9
AD 2000-leaflet W10
DIN 1092-1
DIN EN 10204

**Pipe Class
Specification PN 40**
**pipe parts * pipe class: ZB40C1
Hexagon head screws**

1	Pipe class	ZB40C1
2	Part identification	SKS
3	Pipe class part	Tee made of welded pipe
4	Material	A2-70 resp. A2-50
5	Dimension standard	DIN EN ISO 4014
6	Terms of delivery	DIN EN ISO 3506
7	Certificate	3.1.B according to DIN EN 10204
8	Identification	DIN EN ISO 3506-1, section 3
9	Ordering addition	Product class A (minimum value from thread $\leq$ M24 and nominal length $\leq$ 10d or 150 mm) Product class B (minimum value from thread $>$ M24 or nominal length $>$ 10d or 150 mm) A2/A4-70 at diameters $\leq$ M24 A2/A4-70 at diameters $>$ M24 Requirements AD 2000-leaflet W2 and W10, table 1, must be met

Ident-No.	thread x length	weights
		kg
18355	M 12 x 55	0,06
18356	M 12 x 65	0,07
18357	M 16 x 60	0,12
18358	M 16 x 70	0,14
18359	M 16 x 80	0,16
18360	M 20 x 80	0,26
18361	M 20 x 90	0,28
18362	M 24 x 90	0,43
18363	M 24 x 100	0,48

Ident-No.	thread x length	weights
		kg
18364	M 24 x 110	0,50
18365	M 27 x 100	0,60
18366	M 27 x 130	0,72
18367	M 30 x 110	0,82
18368	M 30 x 120	0,88
18369	M 30 x 140	0,98
18370	M 30 x 160	1,09
18371	M 33 x 130	1,15
18372	M 33 x 180	1,48
18373	M 36 x 140	1,47
18374	M 36 x 200	1,95
18375	M 39 x 150	1,74
18376	M 39 x 200	2,20

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W10
DIN EN ISO 3506
DIN EN ISO 3506-1
DIN EN ISO 4014
DIN EN 10204

**Pipe Class
Specification PN 40**

**pipe parts * pipe class: ZB40C1
Hexagon head nuts**

- | | | |
|---|---------------------|--|
| 1 | Pipe class | ZB40C1 |
| 2 | Part identification | SKM |
| 3 | Pipe class part | Hexagon head nuts |
| 4 | Material | A2-70 resp. A2-50 |
| 5 | Dimension standard | DIN EN ISO 4032 |
| 6 | Terms of delivery | DIN EN ISO 3506 |
| 7 | Certificate | 3.1.B according to DIN EN 10204 |
| 8 | Identification | DIN EN ISO 3506-2, section 3 |
| 9 | Ordering addition | <p>Product class A (≤ M16)</p> <p>Product class B (> M16)</p> <p>A2/A4-70 at diameters ≤ M24</p> <p>A2/A4-50 at diameters > M24</p> <p>Requirements AD 2000-leaflet W2 and W10, table 1, must be met</p> |

Ident-No.	thread	weights
		kg
18328	M 12	0,02
18329	M 16	0,03
18330	M 20	0,06
18331	M 24	0,11
18332	M 27	0,17
18333	M 30	0,22
18334	M 33	0,29
18335	M 36	0,39
18336	M 39	0,50

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W10
DIN EN ISO 3506
DIN EN ISO 3506-2
DIN EN ISO 4032
DIN EN 10204

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**Pipe Class
Specification PN 40**

**pipe parts * pipe class: ZB40C1
Comb defined seals**

1	Pipe class	ZB40C1
2	Part identification	KAD
3	Pipe class part	Comb defined seals
4	Material	1.4541 (X 6 CrNiTi 18 10 - Graphite)
5	Dimension standard	
6	Terms of delivery	Standard 40008
7	Certificate	2.1 according to DIN EN 10204 concerning purity in accordance with Standard 06401
8	Identification	According to Standard 40008
9	Ordering addition	Qualification certificate according to standard 40008

Ident-No.	nom. width	diameter	diameter	thickness	weights
	ND	d ₃	d ₂	d ₁	kg
18093	15	51,00	42,00	26,00	5,00
18094	20	61,00	47,00	31,00	5,00
18095	25	71,00	52,00	36,00	5,00
18096	32	82,00	62,00	46,00	5,00
18097	40	92,00	69,00	53,00	5,00
18098	50	107,00	81,00	65,00	5,00
18099	65	127,00	100,00	81,00	5,00
18100	80	142,00	115,00	95,00	5,00
18101	100	168,00	138,00	118,00	5,00
18102	125	194,00	162,00	142,00	5,00
18103	150	224,00	190,00	170,00	5,00
18104	200	290,00	240,00	220,00	5,00
18105	250	352,00	290,00	270,00	5,00

Ident-No.	nom. width	diameter	diameter	thickness	weights
	ND	d ₃	d ₂	d ₁	kg
18106	300	417,00	340,00	320,00	5,00
18107	350	474,00	395,00	375,00	5,00
18108	400	546,00	450,00	426,00	5,00
18109	500	628,00	560,00	530,00	5,00

- 10 **Valid and listed documents** Standard 06401
 Standard 40008
 DIN EN 10204

**Pipe Class
Specification PN 40**

**pipe parts * pipe class: ZB40C1
Flat packings**

1	Pipe class	ZB40C1
2	Part identification	FLD
3	Pipe class part	Flat packings
4	Material	Graphite with CrNi-insert
5	Dimension standard	DIN EN 1514-1
6	Terms of delivery	Standard 40002
7	Certificate	2.1 according to DIN EN 10204 concerning purity in accordance with standard 06401
8	Identification	According to standard 40002
9	Ordering addition	Type according to standard 40002

Ident-No.	nom. diameter	diameter	diameter	thickness
	DN	d ₂	d ₁	s
18076	15	50,00	22,00	2,00
18077	20	60,00	28,00	2,00
18078	25	70,00	35,00	2,00
18079	32	82,00	43,00	2,00
18080	40	92,00	49,00	2,00
18081	50	107,00	61,00	2,00
18082	65	127,00	77,00	2,00
18083	80	142,00	90,00	2,00
18084	100	168,00	115,00	2,00
18085	125	195,00	141,00	2,00
18086	150	225,00	169,00	2,00
18087	200	292,00	220,00	2,00
18088	250	353,00	274,00	2,00

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Ident- No.	nom. diameter	diameter	diameter	thickness
	DN	d ₂	d ₁	s
18089	300	418,00	325,00	2,00
18090	350	475,00	368,00	2,00
18091	400	547,00	420,00	2,00
18092	500	628,00	520,00	2,00

10 Valid and listed documents

Standard 06401
Standard 40002
DIN 1514-1
DIN EN 10204

**Pipe Class
Specification PN 40**
**pipe parts * pipe class: ZB40C1
fibrous packings**

1	Pipe class	ZB40C1
2	Part identification	FAD
3	Pipe class part	fibrous packings
4	Material	asbestos-free laminate made of aramide fiber, bound with NBR
5	Dimension standard	DIN EN ISO 1514-1
6	Terms of delivery	Standard 40007
7	Certificate	2.1 according to DIN EN 10204 concerning purity in accordance with standard 06401
8	Identification	
9	Ordering addition	Type according to standard 40007

Ident-No.	nom. diameter	diameter	diameter	thickness
	ND	d ₂	d ₁	s
18059	15	50,00	22,00	2,00
18060	20	60,00	28,00	2,00
18061	25	70,00	35,00	2,00
18062	32	82,00	43,00	2,00
18063	40	92,00	49,00	2,00
18064	50	107,00	61,00	2,00
18065	65	127,00	77,00	2,00
18066	80	142,00	90,00	2,00
18067	100	168,00	115,00	2,00
18068	125	195,00	141,00	2,00
18069	150	225,00	169,00	2,00
18070	200	292,00	220,00	2,00
18071	250	353,00	274,00	2,00

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Ident-No.	nom. diameter	diameter	diameter	thickness
	ND	d ₂	d ₁	s
18072	300	418,00	325,00	2,00
18073	350	475,00	368,00	2,00
18074	400	547,00	420,00	2,00
18075	500	628,00	520,00	2,00

10 Valid and listed documents

Standard 06401
Standard 40007
DIN EN 1514-1
DIN EN 10204