

**Pipe Class
Specification PN 25**

**Tube parts catalogue
Pipe class: ZB25C1**

- 1 Aim** Aim of this guideline is the specification of tube parts under defined operating conditions under consideration of the requirements of guideline 97/23/EC (Pressure equipment guideline)
- 2 Scope** Air Liquide Deutschland GmbH
- 3 Material** 1.4541 (X 6 CrNiTi 18 10)
- 4 Pipe class** Standard pipe class according to leaflet AD-2000
- 5 Seal form** Form B1 according to DIN EN 1092-1
- 6 Corrosion surcharge**
- 7 Screws** Hexagon head screw A2-70 resp. A2-50
Hexagon nut A2-70 resp. A2-50
- 8 Permitted media** Argon, ethylene, dinitrogenoxide, compressed air, noble gases, natural gas, carbon dioxide, methane, oxygen, nitrogen, hydrogen and its mixtures in gaseous and liquid form, water and steam
- 9 Operating pressure** 25 bar
- 10 Operating temperature** from 3 K (-270°C) to 393 K (120°C)

ND	15	20	25	32	40	50	65	80	100	125	150	200	250
d _a /mm	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219,1	273
s/mm	1,6	1,6	2	2	2	2	2,3	2,3	2,6	2,6	2,6	2,9	2,9

ND	300	350	400	500	600								
d _a /mm	323,9	355,6	406,4	508	610								
s/mm	5,6	5,6	6,3	6,3	6,3								

- 11 Safety notices** Oxygen leading pipes must be cleaned of oil, grease, welding beads, processing shaving etc. inside and comply with the standard 06401 before putting into operation.

12 Additional notices

At operating temperatures of $-200\text{ }^{\circ}\text{C} \leq TS < -10\text{ }^{\circ}\text{C}$ the requirements to be met must be according to account 2000 leaflet W10 ad.

Additionally, when using LH2, the special requirements to the examination of the notched bar impact work have to be met according to notice 2000 leaflet W10, table 1. This is caused by the lowest application temperature of $-253\text{ }^{\circ}\text{C}$.

At operating temperatures of $50\text{ }^{\circ}\text{C} < TS \leq 120\text{ }^{\circ}\text{C}$ flanges of the next higher pressure level must be used.

Only comb defined seals must be provided for flange joints.

The application fields (medium, pressure, temperature) defined in the standards 4002, 4007 and 4008 must be absolutely adhered to.

Screws from A2 -are allowed to be used according to AD 2000 leaflet W10 only to $TS = -200^{\circ}\text{C}$.

Tube part	nom. width		iden- tifica- tion	dimension standard / terms of delivery	certificate
	from	to			
Fiat packings	15	600	FLD	DIN EN 1514-1, Standard 40002	2.1 according to DIN EN 1024 concerning purity in accordance with Standard 06401
Fibrous packings	15	600	FAD	DIN EN 1514-1, Standard 40007	2.1 according to DIN EN 1024 concerning purity in accordance with Standard 06401
Caps	15	600	KAP	DIN 2617, DIN 2609	3.1.B according to DIN EN 10204
Comb defined seals	15	500	KAD	DIN 2617, Standard 40008	2.1 according to DIN EN 1024 concerning purity in accordance with Standard 06401
Elbow 90° R=1,5 DA, welded	15	600	RB1,5DG	DIN 2605-1, DIN 2609	3.1.C or 3.2 according to DIN EN 10204
Elbow 90° R=2,5 DA, welded	15	600	RB2,5DG	DIN 2605-1, DIN 2609	3.1.C or 3.2 according to DIN EN 10204
Reducer, eccentric, welded	20	500	RZEG	DIN 2616-1, DIN 2609	3.1.C or 3.2 according to DIN EN 10204
Pipe, welded	15	600	RG	DIN EN ISO 1127, DIN 17457	3.1.C or 3.2 according to DIN EN 10204
Reducer, concentric, welded	20	500	RZKG	DIN 2616-1, DIN 2609	3.1.C or 3.2 according to DIN EN 10204
Tee made of welded pipe	15	600	TG	DIN 2615-1, DIN 2609	3.1.C or 3.2 according to DIN EN 10204
Welding neck flanges	15	600	VF	DIN EN 1092-1, DIN EN 1092-1	3.1.C or 3.2 according to DIN EN 10204
Blanks	15	600	BSS	Uhde-Norm 3902-1, DIN 17440	3.1.C or 3.2 according to DIN EN 10204
Blind flanges	15	600	BF	DIN EN 1092-1, DIN EN 1092-1	3.1.C or 3.2 according to DIN EN 10204
Hexagon head screws	12	36	SKS	DIN ES ISO 4014, DIN EN ISO 3506	3.1.B according to DIN EN 10204
Hexagon nuts	12	36	SKM	DIN ES ISO 4032, DIN EN ISO 3506	3.1.B according to DIN EN 10204

10 Valid and listed documents

Standard 06401
Standard 40002
Standard 40007
Standard 40008
Standard 50026 Att. 1 - 15
AD 2000-leaflet W10
DGRL 97/23/EG
DIN 2605-1
DIN 2609
DIN 2615-1
DIN 2616-1
DIN 2617
DIN 17440
DIN 17457
DIN EN 1092-1
DIN EN 1514-1
DIN EN 10204
DIN EN ISO 1127
DIN EN ISO 3506
DIN EN ISO 4014
DIN EN ISO 4032
Uhde-Norm 3902-1

Pipe Class
Specification PN 25

pipe parts * pipe class: ZB25C1
pipe, welded

1	Pipe class	ZB25C1
2	Part identification	RG
3	Pipe class part	pipe, welded
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN EN ISO 1127
6	Terms of delivery	DIN 17457
7	Certificate	3.1.C or 3.2 according to DIN EN 10204
8	Identification	DIN 17457, section 7, across whole length
9	Ordering addition	<p>Pipes at fixed lengths of 6 m</p> <p>Tolerance class D2, T3 according to DIN EN ISO 1127</p> <p>Testing class 2 according to DIN 17457, AD 2000-leaflet W2</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-leaflet W2 and W10, table 1, must be met</p> <p>At wall thicknesses ≤ 10 mm, an inspection certificate 3.1.B is sufficient, if the requirements according to AD 2000-leaf W2, section 6.2.1, are met.</p>

Ident- No.	nom. diameter	dimensions	weights
	ND	d _a x s	kg
16793	15	21,3 x 1,6	0,79
16794	20	26,9 x 1,6	1,01
16795	25	33, 7 x 2	1, 58
16796	32	42,4 x 2	2,02
16797	40	48,3 x 2	2,31
16798	50	60,3 x 2	2,92

Ident-No.	nom. diameter	dimensions	weights
	ND	d _a x s	kg
16799	65	76,1 x 2,3	4,25
16800	80	88,9 x 2,3	4,98
16801	100	114,3 x 2,6	7,27
16802	125	139,7 x 2,6	8,92
16803	150	168,3 x 2,6	10,80
16804	200	219,1 x 2, 9	15, 70
16805	250	273 x 2,9	19,60
16806	300	323,9 x 5,6	44,70
16807	350	355,6 x 5,6	48,40
16808	400	406,4 x 6,3	62,20
16809	500	508 x 6,3	79,10
16810	600	610 x 6,3	95,20

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W10
DIN 17457
DIN EN 10204
DIN EN ISO 1127

**Pipe Class
Specification PN 25**

**pipe parts * pipe class: ZB25C1
Elbow 90° R=1,5 DA, welded**

1	Pipe class	ZB25C1
2	Part identification	RB1,5DG
3	Pipe class part	Elbow 90° R=1,5 DA, welded
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN 2605-1
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	<p>Elbow 90°, type 3, with decreased utilization factor, made of welded pipe according to DIN 17457</p> <p>Type d2 / k2 according to DIN 17457, table 6</p> <p>Weld preparation according to DIN 2559-1 and DIN 2559-3</p> <p>Testing class 2 according to DIN 17457, AD 2000-leaflet W2</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-leaflet W2 and W10, table 1, must be met</p> <p>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.</p>

Ident- No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	ND	d _a x s	kg	s _R
16811	15	21,3 x 1,6	0,03	1,60
16812	20	26,9 x 1,6	0,05	1,60
16813	25	33,7 x 2	0,09	2,00
16814	32	42,4 x 2	0,15	2,00

Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	ND	d _a x s	kg	s _R
16815	40	48,3 x 2	0,21	2,00
16816	50	60,3 x 2	0,35	2,00
16817	65	76,1 x 2,3	0,63	2,30
16818	80	88,9 x 2,3	0,89	2,30
16819	100	114,3 x 2,6	1,74	2,60
16820	125	139,7 x 2,6	2,66	2,60
16821	150	168,3 x 2,6	3,88	2,60
16822	200	219,1 x 4,5	11,40	2,90
16823	250	273 x 5	20,05	2,90
16824	300	323,9 x 5,6	32,09	5,60
16825	350	355,6 x 5,6	40,52	5,60
16826	400	406,4 x 6,3	59,60	6,30
16827	500	508 x 11	163,98	6,30
16828	600	610 x 12,5	268,48	6,30

- 10 **Valid and listed documents**
- AD 2000-leaflet W2
 - AD 2000-leaflet W10
 - DIN 2559-1
 - DIN 2559-3
 - DIN 2605-1
 - DIN 2609
 - DIN 17457
 - DIN EN 10204

Pipe Class
Specification PN 25

pipe parts * pipe class: ZB25C1
Elbow 90° R=2,5 DA, welded

1	Pipe class	ZB25C1
2	Part identification	RB2,5DG
3	Pipe class part	Elbow 90° R=2,5 DA, welded
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN 2605-1
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	<p>Elbow 90°, type 5, with decreased utilization factor, made of welded pipe according to DIN 17457</p> <p>Type d2 / k2 according to DIN 17457, table 6</p> <p>Weld preparation according to DIN 2559-1 and DIN 2559-3</p> <p>Testing class 2 according to DIN 17457, AD 2000-leaflet W2</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-leaflet W2 and W10, table 1, must be met</p> <p>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.</p>

Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	ND	d _a x s	kg	s _R
16829	15	21,3 x 1,6	0,05	1,60
16830	20	26,9 x 1,6	0,09	1,60
16831	25	33, 7 x 2	0,18	2, 00
16832	32	42,4 x 2	0,29	2,00

Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	ND	d _a x s	kg	s _R
16833	40	48,3 x 2	0,39	2,00
16834	50	60,3 x 2	0,62	2,00
16835	65	76,1 x 2, 3	1,17	2, 30
16836	80	88,9 x 2,3	1,60	2,30
16837	100	114,3 x 2,6	3,08	2,60
16838	125	139,7 x 2,6	4,62	2,60
16839	150	168,3 x 2,6	6,62	2,60
16840	200	219,1 x 2,9	12,58	2,90
16841	250	273 x 5	34,20	2,90
16842	300	323,9 x 5,6	54,42	5,60
16843	350	355,6 x 5,6	64,62	5,60
16844	400	406,4 x 6,3	94,77	6,30
16845	500	508 x 6,3	154,69	6,30
16846	600	610 x 12,5	359,84	6,30

10 Valid and listed documents

AD 2000-leaflet W2
 AD 2000-leaflet W10
 DIN 2559-1
 DIN 2559-3
 DIN 2605-1
 DIN 2609
 DIN 17457
 DIN EN 10204

Pipe Class
Specification PN 25

pipe parts * pipe class: ZB25C1
Tee made of welded pipe

1	Pipe class	ZB25C1
2	Part identification	TG
3	Pipe class part	Tee made of welded pipe
4	Material	1.4541 (X 6 CrNiTi 18 10)
5	Dimension standard	DIN 2615-1
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	<p>Tee with decreased utilization factor, made of welded pipe according to DIN 17457</p> <p>Type d2 / k2 according to DIN 17457, table 6</p> <p>Weld preparation according to DIN 2559-1 and DIN 2559-3</p> <p>Testing class 2 according to DIN 17457, AD 2000-sheet W2</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-sheet W2 and W10, table 1, must be met</p> <p>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.</p>

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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	*R ₁	*R ₂
16946	15	15	21,3 x 1,6	21,3 x 1,6	0,05	1,60	1,60
16947	20	15	26,9 x 1,6	21,3 x 1,6	0,07	1,60	1,60
16948	20	20	26,9 x 1,6	26,9 x 1,6	0,07	1,60	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	*R ₁	*R ₂
16949	25	15	33,7 x 2	21,3 x 1,6	0,14	2,00	1,60
16950	25	20	33,7 x 2	26,9 x 1,6	0,15	2,00	1,60
16951	25	25	33, 7 x 2	33, 7 x 2	0,15	2, 00	2, 00
16952	32	15	42,4 x 2	21,3 x 1,6	0,22	2,00	1,60
16953	32	20	42,4 x 2	26,9 x 1,6	0,23	2,00	1,60
16954	32	25	42,4 x 2	33,7 x 2	0,24	2,00	2,00
16955	32	32	42,4 x 2	42,4 x 2	0,25	2,00	2,00
16956	40	20	48,3 x 2	26,9 x 1,6	0,31	2,00	1,60
16957	40	25	48,3 x 2	33,7 x 2	0,33	2,00	2,00
16958	40	32	48,3 x 2	42,4 x 2	0,34	2,00	2,00
16959	40	40	48,3 x 2	48,3 x 2	0,34	2,00	2,00
16960	50	20	60,3 x 2	26,9 x 1,6	0,41	2,00	1,60
16961	50	25	60,3 x 2	33,7 x 2	0,43	2,00	2,00
16962	50	32	60,3 x 2	42,4 x 2	0,45	2,00	2,00
16963	50	40	60,3 x 2	48,3 x 2	0,46	2,00	2,00
16964	50	50	60,3 x 2	60,3 x 2	0,47	2,00	2,00
16965	65	25	76,1 x 2,3	33,7 x 2	0,71	2,30	2,00
16966	65	32	76,1 x 2,3	42,4 x 2	0,73	2,30	2,00
16967	65	40	76,1 x 2,3	48,3 x 2	0,75	2,30	2,00
16968	65	50	76,1 x 2,3	60,3 x 2	0,76	2,30	2,00
16969	65	65	76,1 x 2,3	76,1 x 2,3	0,81	2,30	2,30
16970	80	32	88,9 x 2,3	42,4 x 2	0,96	2,30	2,00
16971	80	40	88,9 x 2,3	48,3 x 2	0,97	2,30	2,00
16972	80	50	88,9 x 2,3	60,3 x 2	0,99	2,30	2,00
16973	80	65	88,9 x 2,3	76,1 x 2,3	1,05	2,30	2,30
16974	80	80	88,9 x 3,2	88,9 x 3,2	1,47	2,30	2,30

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	ND1	ND2	d1 x s1	d2 x s2	kg	*R1	*R2
16975	100	40	114,3 x 3,6	48,3 x 2,6	2,28	2,60	2,00
16976	100	50	114,3 x 3,6	60,3 x 2,9	2,34	2,60	2,00
16977	100	65	114,3 x 3,6	76,1 x 2,9	2,40	2,60	2,30
16978	100	80	114,3 x 3,6	88,9 x 3,2	1,79	2,60	2,30
16979	100	100	114,3 x 3,6	114,3 x 3,6	1,88	2,60	2,60
16980	125	50	139,7 x 4	60,3 x 2,9	3,70	2,60	2,00
16981	125	65	139,7 x 4	76,1 x 2,9	3,75	2,60	2,30
16982	125	80	139,7 x 4	88,9 x 3,2	3,83	2,60	2,30
16983	125	100	139,7 x 4	114,3 x 3,6	3,97	2,60	2,60
16984	125	125	139,7 x 4	139,7 x 4	4,11	2,60	2,60
16985	150	65	168,3 x 4,5	76,1 x 2,9	3,44	2,60	2,30
16986	150	80	168,3 x 4,5	88,9 x 3,2	3,50	2,60	2,30
16987	150	100	168,3 x 4,5	114,3 x 3,6	3,62	2,60	2,60
16988	150	125	168,3 x 4,5	139,7 x 4	6,20	2,60	2,60
16989	150	150	168,3 x 4,5	168,3 x 4,5	5,66	2,60	2,60
16990	200	80	219,1 x 6,3	88,9 x 3,2	12,70	2,90	2,30
16991	200	100	219,1 x 6,3	114,3 x 3,6	12,95	2,90	2,60
16992	200	125	219,1 x 6,3	139,7 x 4	13,22	2,90	2,60
16993	200	150	219,1 x 6,3	168,3 x 4,5	13,51	2,90	2,60
16994	200	200	219,1 x 6,3	219,1 x 6,3	14,26	2,90	2,90
16995	250	100	273 x 8,8	114,3 x 6,3	27,27	2,90	2,60
16996	250	125	273 x 8,8	139,7 x 6,3	27,70	2,90	2,60
16997	250	150	273 x 8,8	168,3 x 7,1	28,30	2,90	2,60
16998	250	200	273 x 8,8	219,1 x 8,8	29,01	2,90	2,90
16999	250	250	273 x 8,8	273 x 8,8	29,77	2,90	2,90

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	ND1	ND2	d1 x s1	d2 x s2	kg	*R1	*R2
17000	300	125	323,9 x 10	139,7 x 6,3	43,00	5,60	2,60
17001	300	150	323,9 x 10	168,3 x 7,1	43,79	5,60	2,90
17002	300	200	323,9 x 10	219,1 x 8	44,98	5,60	2,90
17003	300	250	323,9 x 10	273 x 8,8	46,10	5,60	5,60
17004	300	300	323,9 x 10	323,9 x 10	47,17	5,60	5,60
17005	350	150	355,6 x 11	168,3 x 7,1	57,40	5,60	2,60
17006	350	200	355,6 x 11	219,1 x 8	58,80	5,60	2,90
17007	350	250	355,6 x 11	273 x 8,8	60,00	5,60	2,90
17008	350	300	355,6 x 11	323,9 x 10	61,45	5,60	5,60
17009	350	350	355,6 x 11	355,6 x 11	62,56	5,60	5,60
17010	400	150	406,4 x 12,5	168,3 x 7,1	80,20	6,30	2,60
17011	400	200	406,4 x 12,5	219,1 x 8	82,00	6,30	2,90
17012	400	250	406,4 x 12,5	273 x 8,8	83,56	6,30	2,90
17013	400	300	406,4 x 12,5	323,9 x 10	85,50	6,30	5,60
17014	400	350	406,4 x 12,5	355,6 x 11	87,10	6,30	5,60
17015	400	400	406,4 x 12,5	406,4 x 12,5	87,55	6,30	6,30
17016	500	200	508 x 16	219,1 x 8	116,60	6,30	2,90
17017	500	250	508 x 16	273 x 8,8	115,83	6,30	2,90
17018	500	300	508 x 16	323,9 x 10	118,90	6,30	5,60
17019	500	350	508 x 16	355,6 x 11	121,30	6,30	5,60
17020	500	400	508 x 16	406,4 x 12,5	123,20	6,30	6,30
17021	500	500	508 x 16	508 x 16	121,80	6,30	6,30
17022	600	250	610 x 17,5	273 x 8,8	235,59	6,30	2,90
17023	600	300	610 x 17,5	323,9 x 10	239,66	6,30	5,60
17024	600	350	610 x 17,5	355,6 x 11	242,84	6,30	5,60
17025	600	400	610 x 17,5	406,4 x 12,5	246,93	6,30	6,30
17026	600	500	610 x 17,5	508 x 16	245,57	6,30	6,30
17027	600	600	610 x 17,5	610 x 17,5	253,70	6,30	6,30

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W10
DIN 2559-1
DIN 2559-3
DIN 2615-1
DIN 2609
DIN 17457
DIN EN 10204

Pipe Class
Specification PN 25

pipe parts * pipe class: ZB25C1
Reducer, concentric, welded

1	Pipe class	ZB25C1
2	Part identification	RZKG
3	Pipe class part	Reducer, concentric, 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	<p>Reducer, concentric, with decreased utilization factor, made of welded pipe according to DIN 17457</p> <p>Type d2 / k2 according to DIN 17457, table 6</p> <p>Weld preparation according to DIN 2559-1 and DIN 2559-3</p> <p>Testing class 2 according to DIN 17457, AD 2000-leaflet W2</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-sheet W2 and W10, must be met</p> <p>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.</p>

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Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	DN ₁	DN ₂	d ₁ x s ₁	d ₂ x s ₂	kg	*R ₁	*R ₂
16729	20	15	26,9 x 1,6	21,3 x 1,6	0,03	1,60	1,60
16730	25	15	33,7 x 2	21,3 x 1,6	0,06	2,00	1,60
16731	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	
	DN ₁	DN ₂	d ₁ x s ₁	d ₂ x s ₂	kg	*R ₁	*R ₂
16732	32	15	42,4 x 2	21,3 x 1,6	0,08	2,00	1,60
16733	32	20	42,4 x 2	26,9 x 1,6	0,08	2,00	1,60
16734	32	25	42,4 x 2	33,7 x 2	0,09	2,00	2,00
16735	40	20	48,3 x 2	26,9 x 1,6	0,12	2,00	1,60
13736	40	25	48,3 x 2	33,7 x 2	0,13	2,00	2,00
16737	40	32	48,3 x 2	42,4 x 2	0,14	2,00	2,00
16738	50	20	60,3 x 2	26,9 x 1,6	0,16	2,00	1,60
16739	50	25	60,3 x 2	33,7 x 2	0,17	2,00	2,00
16740	50	32	60,3 x 2	42,4 x 2	0,19	2,00	2,00
16741	50	40	60,3 x 2	48,3 x 2	0,20	2,00	2,00
16742	65	25	76,1 x 2,3	33,7 x 2	0,27	2,30	2,00
16743	65	32	76,1 x 2,3	42,4 x 2	0,30	2,30	2,00
16744	65	40	76,1 x 2,3	48,3 x 2	0,31	2,30	2,00
16745	65	50	76,1 x 2,3	60,3 x 2	0,34	2,30	2,00
16746	80	32	88,9 x 2,3	42,4 x 2	0,33	2,30	2,00
16747	80	40	88,9 x 2,3	48,3 x 2	0,35	2,30	2,00
16748	80	50	88,9 x 2,3	60,3 x 2	0,38	2,30	2,00
16749	80	65	88,9 x 2,3	76,1 x 2,3	0,42	2,30	2,30
16750	100	40	114,3 x 2,6	48,3 x 2	0,51	2,60	2,00
16751	100	50	114,3 x 2,6	60,3 x 2	0,55	2,60	2,00
16752	100	65	114,3 x 2,6	76,1 x 2,3	0,61	2,60	2,30
16753	100	80	114,3 x 2,6	88,9 x 2,3	0,65	2,60	2,30
16754	125	50	139,7 x 2,6	60,3 x 2	0,81	2,60	2,00
16755	125	65	139,7 x 2,6	76,1 x 2,3	0,87	2,60	2,30
16756	125	80	139,7 x 2,6	88,9 x 2,3	0,93	2,60	2,30
16757	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	
	DN ₁	DN ₂	d ₁ x s ₁	d ₂ x s ₂	kg	*R ₁	*R ₂
16758	150	65	168,3 x 2,6	76,1 x 2,3	1,10	2,60	2,30
16759	150	80	168,3 x 2,6	88,9 x 2,3	1,15	2,60	2,30
16760	150	100	168,3 x 2,6	114,3 x 2,6	1,26	2,60	2,60
16761	150	125	168,3 x 2,6	139,7 x 2,6	1,31	2,60	2,60
16762	200	80	219,1 x 4,5	88,9 x 3,2	2,57	2,90	2,30
16763	200	100	219,1 x 4,5	114,3 x 3,6	2,79	2,90	2,60
16764	200	125	219,1 x 4,5	139,7 x 4	3,00	2,90	2,60
16765	200	150	219,1 x 2,9	168,3 x 2,6	2,11	2,90	2,60
16766	250	100	273 x 5	114,3 x 3,6	4,22	2,90	2,60
16767	250	125	273 x 5	139,7 x 4	4,50	2,90	2,60
16768	250	150	273 x 5	168,3 x 4	4,82	2,90	2,60
16769	250	200	273 x 5	219,1 x 4,5	5,38	2,90	2,90
16770	300	125	323,9 x 7,1	139,7 x 4	8,17	5,60	2,60
16771	300	150	323,9 x 5,6	168,3 x 4	6,87	5,60	2,60
16772	300	200	323,9 x 5,6	219,1 x 4,5	7,58	5,60	2,90
16773	300	250	323,9 x 5,6	273 x 5	8,34	5,60	2,90
16774	350	150	355,6 x 5,6	168,3 x 4	11,90	5,60	2,60
16775	350	200	355,6 x 5,6	219,1 x 4,5	13,06	5,60	2,90
16776	350	250	355,6 x 5,6	273 x 5	14,30	5,60	2,90
16777	350	300	355,6 x 5,6	323,9 x 5,6	15,46	5,60	5,60
16778	400	150	406,4 x 6,3	168,3 x 4	15,80	6,30	2,60
16779	400	200	406,4 x 6,3	219,1 x 4,5	17,21	6,30	2,90
16780	400	250	406,4 x 6,3	273 x 5	18,70	6,30	2,90
16781	400	300	406,4 x 6,3	323,9 x 5,6	20,12	6,30	5,60
16782	400	350	406,4 x 6,3	355,6 x 5,6	21,00	6,30	5,60

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	DN1	DN2	d1 x s1	d2 x s2	kg	*R1	*R2
16783	500	200	508 x 11	219,1 x 6,3	49,65	6,30	2,90
16784	500	250	508 x 11	273 x 6,3	53,43	6,30	2,90
16785	500	300	508 x 6,3	323,9 x 5,6	32,85	6,30	5,60
16786	500	350	508 x 6,3	355,6 x 5,6	34,13	6,30	5,60
16787	500	400	508 x 6,3	406,4 x 6,3	36,13	6,30	6,30
16788	600	250	610 x 12,5	273 x 6,3	68,70	6,30	2,90
16789	600	300	610 x 12,5	323,9 x 7,1	72,70	6,30	5,60
16790	600	350	610 x 12,5	355,6 x 8	75,14	6,30	5,60
16791	600	400	610 x 12,5	406,4 x 8,8	79,10	6,30	6,30
16792	600	500	610 x 12,5	508 x 11	87,10	6,30	6,30

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 25

pipe parts * pipe class: ZB25C1
Reducer, eccentric, welded

1	Pipe class	ZB25C1
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	<p>Reducer, eccentric, with decreased utilization factor, made of welded pipe according to DIN 17457</p> <p>Type d2 / k2 according to DIN 17457, table 6</p> <p>Weld preparation according to DIN 2559-1 and DIN 2559-3</p> <p>Testing class 2 according to DIN 17457, AD 2000-leaflet W2</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-sheet W2 and W10, table 1, must be met</p> <p>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.</p>

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Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	DN ₁	DN ₂	d ₁ x s ₁	d ₂ x s ₂	kg	*R1	*R2
16665	20	15	26,9 x 1,6	21,3 x 1,6	0,03	1,60	1,60
16666	25	15	33,7 x 2	21,3 x 1,6	0,06	2,00	1,60
16667	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	
	DN ₁	DN ₂	d ₁ x s ₁	d ₂ x s ₂	kg	*R ₁	*R ₂
16668	32	15	42,4 x 2	21,3 x 1,6	0,08	2,00	1,60
16669	32	20	42,4 x 2	26,9 x 1,6	0,08	2,00	1,60
16670	32	25	42,4 x 2	33,7 x 2	0,09	2,00	2,00
16671	40	20	48,3 x 2	26,9 x 1,6	0,12	2,00	1,60
16672	40	25	48,3 x 2	33,7 x 2	0,13	2,00	2,00
16673	40	32	48,3 x 2	42,4 x 2	0,14	2,00	2,00
16674	50	20	60,3 x 2	26,9 x 1,6	0,16	2,00	1,60
16675	50	25	60,3 x 2	33,7 x 2	0,17	2,00	2,00
16676	50	32	60,3 x 2	42,4 x 2	0,19	2,00	2,00
16677	50	40	60,3 x 2	48,3 x 2	0,20	2,00	2,00
16678	65	25	76,1 x 2,3	33,7 x 2	0,27	2,30	2,00
16679	65	32	76,1 x 2,3	42,4 x 2	0,30	2,30	2,00
16680	65	40	76,1 x 2,3	48,3 x 2	0,31	2,30	2,00
16681	65	50	76,1 x 2,3	60,3 x 2	0,34	2,30	2,00
16682	80	32	88,9 x 2,3	42,4 x 2	0,33	2,30	2,00
16683	80	40	88,9 x 2,3	48,3 x 2	0,35	2,30	2,00
16684	80	50	88,9 x 2,3	60,3 x 2	0,38	2,30	2,00
16685	80	65	88,9 x 2,3	76,1 x 2,3	0,42	2,30	2,30
16686	100	40	114,3 x 2,6	48,3 x 2	0,51	2,60	2,00
16687	100	50	114,3 x 2,6	60,3 x 2	0,55	2,60	2,00
16688	100	65	114,3 x 2,6	76,1 x 2,3	0,61	2,60	2,30
16689	100	80	114,3 x 2,6	88,9 x 2,3	0,65	2,60	2,30
16690	125	50	139,7 x 2,6	60,3 x 2	0,81	2,60	2,00
16691	125	65	139,7 x 2,6	76,1 x 2,3	0,87	2,60	2,30
16692	125	80	139,7 x 2,6	88,9 x 2,3	0,93	2,60	2,30
16693	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	
	DN1	DN2	d1 x s1	d2 x s2	kg	*R1	*R2
16694	150	65	168,3 x 2,6	76,1 x 2,3	1,10	2,60	2,30
16695	150	80	168,3 x 2,6	88,9 x 2,3	1,15	2,60	2,30
16696	150	100	168,3 x 2,6	114,3 x 2,6	1,26	2,60	2,60
16697	150	125	168,3 x 2,6	139,7 x 2,6	1,31	2,60	2,60
16698	200	80	219,1 x 4,5	88,9 x 3,2	2,57	2,90	2,30
16699	200	100	219,1 x 4,5	114,3 x 3,6	2,79	2,90	2,60
16700	200	125	219,1 x 4,5	139,7 x 4	3,00	2,90	2,60
16701	200	150	219,1 x 2,9	168,3 x 2,6	2,11	2,90	2,60
16702	250	100	273 x 5	114,3 x 3,6	4,22	2,90	2,60
16703	250	125	273 x 5	139,7 x 4	4,50	2,90	2,60
16704	250	150	273 x 5	168,3 x 4	4,82	2,90	2,60
16705	250	200	273 x 5	219,1 x 4,5	5,38	2,90	2,90
16706	300	125	323,9 x 7,1	139,7 x 4	8,17	5,60	2,60
16707	300	150	323,9 x 5,6	168,3 x 4	6,87	5,60	2,60
16708	300	200	323,9 x 5,6	219,1 x 4,5	7,58	5,60	2,90
16709	300	250	323,9 x 5,6	273 x 5	8,34	5,60	2,90
16710	350	150	355,6 x 5,6	168,3 x 4	11,90	5,60	2,60
16711	350	200	355,6 x 5,6	219,1 x 4,5	13,06	5,60	2,90
16712	350	250	355,6 x 5,6	273 x 5	14,30	5,60	2,90
16713	350	300	355,6 x 5,6	323,9 x 5,6	15,46	5,60	5,60
16714	400	150	406,4 x 6,3	168,3 x 4	15,80	6,30	2,60
16715	400	200	406,4 x 6,3	219,1 x 4,5	17,21	6,30	2,90
16716	400	250	406,4 x 6,3	273 x 5	18,70	6,30	2,90
16717	400	300	406,4 x 6,3	323,9 x 5,6	20,12	6,30	5,60
16718	400	350	406,4 x 6,3	355,6 x 5,6	21,00	6,30	5,60

Ident-No.	nom. width		dimensions		weights	pipe connection wall thickness	
	DN1	DN2	d ₁ x s ₁	d ₂ x s ₂	kg	*R1	*R2
16719	500	200	508 x 11	219,1 x 6,3	49,65	6,30	2,90
16720	500	250	508 x 11	273 x 6,3	53,43	6,30	2,90
16721	500	300	508 x 6,3	323,9 x 5,6	32,13	6,30	5,60
16722	500	350	508 x 6,3	355,6 x 5,6	34,13	6,30	5,60
16723	500	400	508 x 6,3	406,4 x 6,3	36,13	6,30	6,30
16724	600	250	610 x 12,5	273 x 6,3	68,70	6,30	2,90
16725	600	300	610 x 12,5	323,9 x 7,1	72,70	6,30	5,60
16726	600	350	610 x 12,5	355,6 x 8	75,14	6,30	5,60
16727	600	400	610 x 12,5	406,4 x 8,8	79,10	6,30	6,30
16728	600	500	610 x 12,5	508 x 11	81,10	6,30	6,30

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 25**

**pipe parts * pipe class: ZB25C1
Caps**

1	Pipe class	ZB25C1
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	<p>Cap to weld in, made of sheet steel, forging or bar stock</p> <p>Weld preparation according to DIN 2559-1 and DIN 2559-3</p> <p>Inner surfaces free of oil, grease and slip additive (max.: 300 mg/m²)</p> <p>Ends closed with caps</p> <p>Requirements AD 2000-sheet W2 and W10, table 1, must be met</p>

Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	ND	da x s	kg	SR
16647	15	21,3 x 1,6	0,02	1,60
16648	20	26,9 x 1,6	0,03	1,60
16649	25	33,7 x 2	0,06	2,00
16650	32	42,4 x 2	0,08	2,00
16651	40	48,3 x 2	0,10	2,00
16652	50	60,3 x 2	0,12	2,00
16653	65	76,1 x 2,3	0,18	2,30
16654	80	88,9 x 2,3	0,29	2,30

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Ident-No.	nom. diameter	dimensions	weights	pipe connection wall thickness
	ND	d _a x s	kg	SR
16655	100	114,3 x 2,6	0,53	2,60
16656	125	139,7 x 2,6	0,77	2,60
16657	150	168,3 x 2,6	1,10	2,60
16658	200	219,1 x 2,9	1,88	2,90
16659	250	273 x 5	4,18	2,90
16660	300	323,9 x 5,6	7,90	5,60
16661	350	355,6 x 5,6	9,41	5,60
16662	400	406,4 x 6,3	13,17	6,30
16663	500	508 x 6,3	21,34	6,30
16664	600	610 x 12,5	58,42	6,30

10 Valid and listed documents

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

Pipe Class
Specification PN 25

pipe parts * pipe class: ZB25C1
Blanks

1	Pipe class	ZB25C1
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-No.	nom. width	diameter	diameter	thickness	weights
	ND	d1	d2	s1	kg
16576	15	40,00	20,00	10	0,00
16577	20	60,00	25,00	10	0,00
16578	25	70,00	30,00	10	0,00
16579	32	81,00	40,00	10	0,00
16580	40	91,00	45,00	10	0,00
16581	50	106,00	57,00	10	0,00
16582	65	126,00	73,00	10	0,00

Ident-No.	nom. width	diameter	diameter	thickness	weights
	ND	d ₁	d ₂	s ₁	kg
16583	80	141,00	85,00	10	0,00
16584	100	167,00	110,00	15	0,00
16585	125	193,00	135,00	15	0,00
16586	150	223,00	160,00	20	0,00
16587	200	283,00	210,00	20	0,00
16588	250	339,00	262,00	25	0,00
16589	300	399,00	312,00	30	0,00
16590	350	456,00	342,00	30	0,00
16591	400	513,00	390,00	40	0,00
16592	500	623,00	498,00	40	0,00
16593	600	730,00	600,00	50	0,00

10 Valid and listed documents

AD 2000-leaflet W2
AD 2000-leaflet W10
DIN 17440
DIN EN 10029
DIN EN 10204
Uhde-Norm 3902-1

**Pipe Class
Specification PN 25**
**pipe parts * pipe class: ZB25C1
Welding neck flanges**

1	Pipe class	ZB25C1
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/m ²) 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 as
input stock, an inspection certificate 3.1.B is sufficient
according to AD 2000-leaf W2, table 6.2

Ident-No.	nom. diameter	dimensions	weights
	ND	ND x ØA	kg
17028	15	15 x 21,3	1,00
17029	20	20 x 26,9	1,00
17030	25	25 x 33,7	1,00
17031	32	32 x 42,4	2,00
17032	40	40 x 48,3	2,00
17033	50	50 x 60,3	3,00

Ident-No.	nom. diameter	dimensions	weights
	ND	ND x ØA	kg
17034	65	65 x 76,1	4,00
17035	80	80 x 88,9	5,00
17036	100	100 x 114,3	6,50
17037	125	125 x 139,7	9,00
17038	150	150 x 168,3	11,50
17039	200	200 x 219,1	17,00
17040	250	250 x 273	24,00
17041	300	300 x 323,9	31,50
17042	350	350 x 355,6	48,00
17043	400	400 x 406,4	63,00
17044	500	500 x 508	96,50
17045	600	600 x 610	138,60

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 25**

**pipe parts * pipe class: ZB25C1
blind flanges**

1	Pipe class	ZB25C1
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	<p>blind flanges with flat seal (shape A)</p> <p>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-Merkblatt W2, W9 and W10, must be met</p> <p>At forged pieces with wall thicknesses <= 250 mm as input stock, an inspection certificate 3.1.B is sufficient according to AD 2000-leaf W2, table 6.2</p>

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Ident-Nr.	nom. diameter	weights
	ND	kg
16558	15	1, 00
16559	20	1,00
16560	25	1, 50
16561	32	2,00
16562	40	2,50
16563	50	3,00

Ident-Nr.	nom. diameter	weights
	ND	kg
16564	65	4,50
16565	80	5,50
16566	100	7,50
16567	125	11,00
16568	150	14,50
16569	200	22,50
16570	250	33,50
16571	300	46,50
16572	350	68,00
16573	400	89,50
16574	500	150,00
16575	600	244,50

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 25**

**pipe parts * pipe class: ZB25C1
Hexagon head screws**

1	Pipe class	ZB25C1
2	Part identification	SKS
3	Pipe class part	Hexagon head screws
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	<p>Product class A (minimum value from thread \leq M24 or nominal length $> 10d$ or 150 mm)</p> <p>Product class B (minimum value from thread $>$ M24 or nominal length $> 10d$ or 150 mm)</p> <p>A2/A4-50 at diameters \leq M24</p> <p>A2/A4-70 at diameters $>$ M24</p> <p>Requirements AD 2000-leaflet W2 and W10, table 1, must be met</p>

Ident-No.	thread x length	weights
		kg
16889	M 12 x 60	0,07
16890	M 12 x 70	0,07
16891	M 16 x 70	0,14
16892	M 16 x 80	0,16
16893	M 16 x 90	0,17
16894	M 20 x 80	0,26
16895	M 20 x 100	0,30
16896	M 24 x 90	0,43
16897	M 24 x 110	0,50

Ident-No.	thread x length	weights
		kg
16898	M 27 x 100	0,60
16899	M 27 x 110	0,65
16900	M 27 x 130	0, 72
16901	M 27 x 140	0, 77
16902	M 30 x 110	0,82
16903	M 30 x 150	1,03
16904	M 33 x 130	1,15
16905	M 33 x 170	1,41
16906	M 36 x 140	1,47
16907	M 36 x 190	1,87

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 25**

**pipe parts * pipe class: ZB25C1
Hexagon head nuts**

- 1 **Pipe class** ZB25C1
- 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**

Product class A (≤ M16)

Product class B (> M16)

A2/A4-70 at diameters ≤ M24

A2/A4-50 at diameters > M24

Requirements AD 2000-leaflet W2 and W10, table 1,
must be met

16865	M 12	0,02
16866	M 16	0,03
16867	M 20	0,06
16868	M 24	0,11
16869	M 27	0,17
16870	M 30	0,22
16871	M 33	0,29
16872	M 36	0,39

- 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

Ident-No.	nom. width	diameter	diameter	thickness	weights
	ND	d ₃	d ₂	d ₁	s
16643	300	400,00	340,00	320,00	5,00
16644	350	457,00	395,00	375,00	5,00
16645	400	514,00	450,00	426,00	5,00
16646	500	624,00	560,00	530,00	5,00

10 Valid and listed documents

Standard 06401
Standard 40008
DIN EN 10204

**Pipe Class
Specification PN 25**

**pipe parts * pipe class: ZB25C1
flat packings**

1	Pipe class	ZB25C1
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
16612	15	50,00	22,00	2,00
16613	20	60,00	28,00	2,00
16614	25	70,00	35,00	2,00
16615	32	82,00	43,00	2,00
16616	40	92,00	49,00	2,00
16617	50	107,00	61,00	2,00
16618	65	127,00	77,00	2,00
16619	80	142,00	90,00	2,00
16620	100	168,00	115,00	2,00
16621	125	195, 00	141, 00	2, 00
16622	150	225,00	169,00	2,00
16623	200	285,00	220,00	2,00
16624	250	342,00	274,00	2,00

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Ident-No.	nom. diameter	diameter	diameter	thickness
	DN	d ₂	d ₁	s
16625	300	402,00	325,00	2,00
16626	350	458,00	368,00	2,00
16627	400	515,00	420,00	2,00
16628	500	625,00	520,00	2,00
16629	600	730,00	620,00	2,00

10 Valid and listed documents

Standard 06401
Standard 40002
DIN EN 1514-1
DIN EN 10204

**Pipe Class
Specification PN 25**

**pipe parts * pipe class: ZB25C1
fibrous packings**

1	Pipe class	ZB25C1
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 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
16594	15	50,00	22,00	2,00
16595	20	60,00	28,00	2,00
16596	25	70,00	35,00	2,00
16597	32	82,00	43,00	2,00
16598	40	92,00	49,00	2,00
16599	50	107,00	61,00	2,00
16600	65	127,00	77,00	2,00
16601	80	142,00	90,00	2,00
16602	100	168,00	115,00	2,00
16603	125	195,00	141,00	2,00
16604	150	225,00	169,00	2,00
16605	200	285,00	220,00	2,00
16606	250	342,00	274,00	2,00

Ident-No.	nom. diameter	diameter	diameter	thickness
	ND	d ₂	d ₁	s
16607	300	402,00	325,00	2,00
16608	350	458,00	368,00	2,00
16609	400	515,00	420,00	2,00
16610	500	625,00	520,00	2,00
16611	600	730,00	620,00	2,00

10 Valid and listed documents

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