



J1B10 C

Screw-in tube unions with metric thread

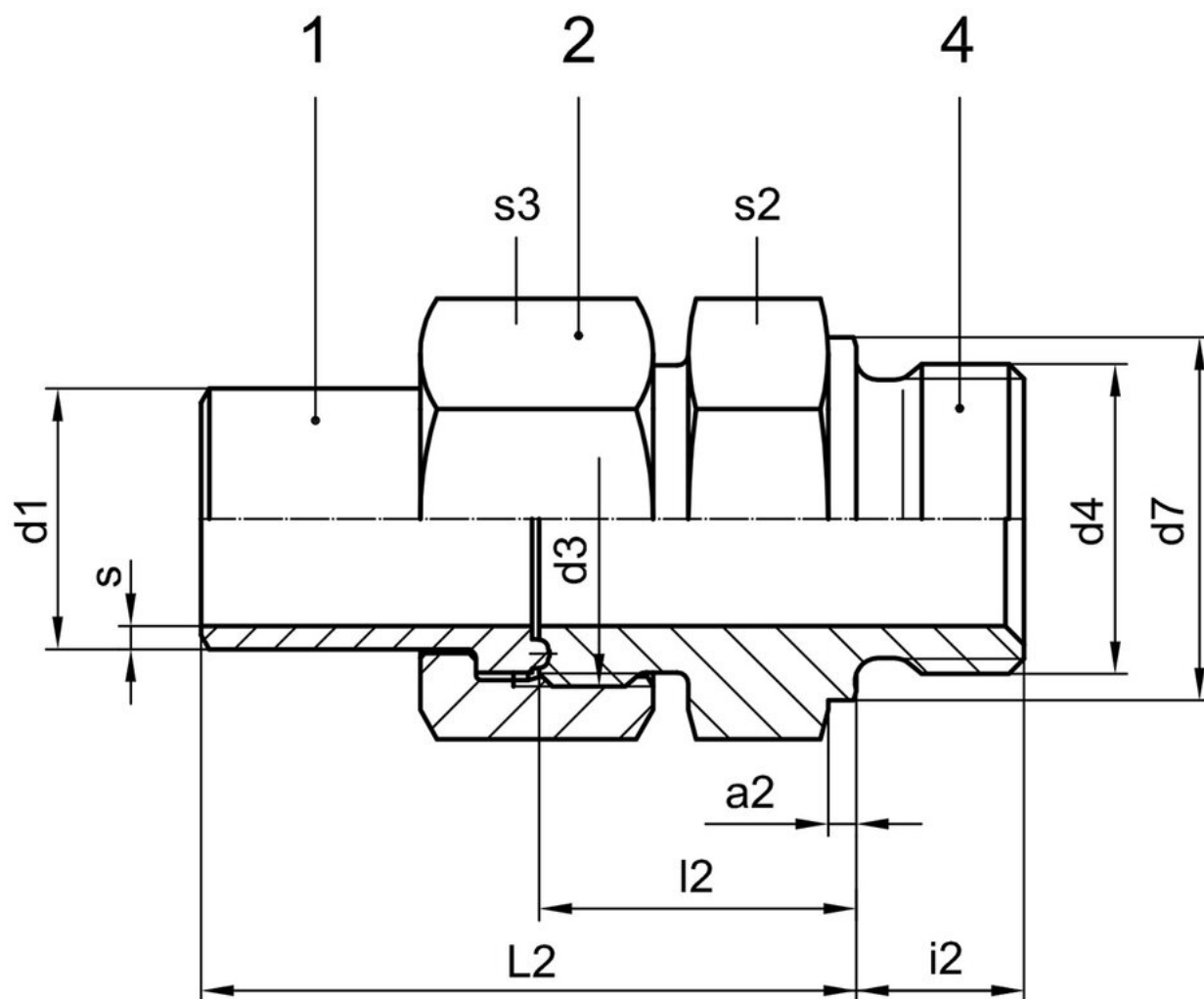
Straight DILO tube unions are available with weld-on ends for applications where high vibration resistance is required. They are also available with weld-on end and screw-in thread. Different threads enable appropriate connections. On request, we also supply unions in materials with standing temperatures from -270 °C up to +650 °C. Permanent tightness is guaranteed, no matter which version is selected!



The actual product may differ slightly from the image.

Technical data

Nominal pressure (in bar)	PN100
Nominal width (in mm)	DN10
d1	13.5 mm
s	1.75 mm
d3	M 22x1.5
d4	M 16x1.5
d7	21 mm
l2	57 mm
L2	25 mm
i1	12 mm
a2	2 mm
s2	Wrench size 24
s3	Wrench size 27
Material according to DIN EN	1.4571
Material description	Stainless steel



Advantages & functions

- With weld-on ends
- Available for tube diameters from DN 3 up to DN 50
- Temperature-resistant from -270 °C up to +650 °C (At operating temperatures below -197°C, additional tests must be carried out on the raw material in accordance with the specifications of EN 13445 / AD2000 to ensure material integrity and suitability.)
- Available for pressures up to 1.000 bar on request
- Also available in other DIN EN materials
- Three-part union consisting of weld-on stub, clamping nut and weld-on screw stub

M1B Series for pressures up to PN 100:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
4	6	1,25	M 14x1,5	M 10x1	14	39	18	8	1,5	14	17	M1B 4
6	8	1,5	M 16x1,5	M 12x1,5	17	41	18	12	2	17	19	M1B 6
8	10	1,5	M 18x1,5	M 14x1,5	19	46	21	12	2	19	22	M1B 8
10	12	1,75	M 20x1,5	M 16x1,5	21	49	22	12	2	22	24	M1B 10
12	15	2	M 22x1,5	M 18x1,5	23	54	24	12	2,5	24	27	M1B 12
16	18	2	M 26x1,5	M 22x1,5	27	56	25	14	3	27	32	M1B 16
20	22	2	M 30x1,5	M 26x1,5	31	63	29	16	3	32	36	M1B 20
25	28	2,5	M 36x2	M 33x2	39	71	34	18	3	41	41	M1B 25
32	35	2,5	M 45x2	M 42x2	49	76	36	20	3	50	50	M1B 32
40a	42	3	M 52x2	M 48x2	55	82	39	22	3	55	60	M1B 40a
40	44	3	M 56x2	M 48x2	55	83	40	22	3	60	65	M1B 40
50	57	4	M 68x2	M 60x2	68	92	44	24	3,5	70	75	M1B 50

J1B Series for pressures up to PN 100:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
4	6	1,25	M 14x1,5	M 10x1	14	39	18	8	1,5	14	17	J1B 4

6	8	1,5	M 16x1,5	M 12x1,5	17	41	18	12	2	17	19	J1B 6
8	10	1,5	M 18x1,5	M 14x1,5	19	46	21	12	2	19	22	J1B 8
10	13,5	1,75	M 22x1,5	M 16x1,5	21	57	25	12	2	24	27	J1B 10
12	17	2,5	M 24x1,5	M 20x1,5	25	58	27	14	2,5	27	30	J1B 12
16	21	2,5	M 30x2	M 27x2	32	67	31	16	3	32	36	J1B 16
20	27	3	M 36x2	M 33x2	39	73	36	18	3	41	41	J1B 20
25	34	3,5	M 45x2	M 42x2	49	76	36	20	3	50	50	J1B 25
32	42	3,5	M 52x2	M 48x2	55	84	40	22	3	55	60	J1B 32
40	49	4	M 60x2	M 56x2	64	92	44	24	3,5	65	70	J1B 40
50	60	5	M 72x2	M 60x2	68	97	46	24	3,5	75	80	J1B 50

M2B Series for pressures up to PN 200:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
3	6	1,5	M 14x1,5	M 12x1,5	17	45	20	12	2	17	19	M2B 3
4	8	2	M 16x1,5	M 14x1,5	19	46	21	12	2	19	22	M2B 4
6	10	2	M 18x1,5	M 16x1,5	21	47	22	12	2	22	22	M2B 6
8	12	2	M 20x1,5	M 18x1,5	23	51	24	12	2,5	24	24	M2B 8
10	13,5	1,75	M 22x1,5	M 20x1,5	25	58	27	14	2,5	27	27	M2B 10
12	16	2,5	M 24x1,5	M 22x1,5	27	58	27	14	3	27	30	M2B 12
16	20	2,5	M 30x2	M 27x2	32	67	31	16	3	32	36	M2B 16
20	25	2,5	M 36x2	M 33x2	39	77	36	18	3	41	46	M2B 20
25	30	3	M 42x2	M 42x2	49	84	40	20	3	50	50	M2B 25
32	38	3,5	M 52x2	M 48x2	55	93	43	22	3	55	60	M2B 32

40	44	4,25	M 56x2	M 56x2	64	102	47	24	3,5	65	65	M2B 40
50	57	6	M 68x2	M 60x2	68	109	49	24	3,5	70	80	M2B 50

J2B Series for pressures up to PN 250:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
3	6	1,5	M 14x1,5	M 12x1,5	17	46	20	12	2	17	19	J2B 3
4	8	2	M 16x1,5	M 14x1,5	19	46	21	12	2	19	22	J2B 4
6	10	2	M 18x1,5	M 16x1,5	21	48	22	12	2	22	22	J2B 6
8	12	2	M 20x1,5	M 18x1,5	23	50	24	12	2,5	24	24	J2B 8
10	13,5	1,75	M 22x1,5	M 20x1,5	25	58	27	14	2,5	27	27	J2B 10
12	17	2,5	M 24x1,5	M 22x1,5	27	59	28	14	3	27	30	J2B 12
16	21	2,5	M 30x2	M 27x2	32	68	32	16	3	32	36	J2B 16
20	27	3,5	M 36x2	M 33x2	39	77	36	18	3	41	46	J2B 20
25	34	4,5	M 45x2	M 42x2	49	85	41	20	3	50	55	J2B 25
32	42	4	M 52x2	M 48x2	55	94	44	22	3	55	60	J2B 32
40	50	5,5	M 64x2	M 56x2	64	102	47	24	3,5	65	75	J2B 40

M3B Series for pressures up to PN 320:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
3	6	1,5	M 14x1,5	M 12x1,5	17	46	20	12	2	17	19	M3B 3
4	8	2	M 16x1,5	M 14x1,5	19	46	21	12	2	19	22	M3B 4
5	10	2,5	M 18x1,5	M 16x1,5	21	48	22	12	2	22	24	M3B 5
6	12	3	M 20x1,5	M 18x1,5	23	54	26	12	2,5	24	27	M3B 6

8	13,5	2,75	M 22x1,5	M 20x1,5	25	58	27	14	2,5	27	30	M3B 8
10	16	3	M 24x1,5	M 22x1,5	27	64	29	14	3	27	32	M3B 10
12	20	4	M 30x2	M 27x2	32	73	33	16	3	32	36	M3B 12
16	25	4,5	M 36x2	M 33x2	39	81	38	18	3	41	46	M3B 16
20	30	5	M 42x2	M 42x2	49	90	42	20	3	50	50	M3B 20
25a	35	5,5	M 48x2	M 48x2	55	96	45	22	3	55	55	M3B 25a
25	38	6	M 52x2	M 48x2	55	99	45	22	3	55	60	M3B 25
32	44	6,75	M 60x2	M 56x2	64	110	49	24	3,5	65	70	M3B 32

J3B Series for pressures up to PN 320:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
3	6	1,5	M 14x1,5	M 12x1,5	17	46	20	12	2	17	19	J3B 3
4	8	2	M 16x1,5	M 14x1,5	19	46	21	12	2	19	22	J3B 4
5	10	2,5	M 18x1,5	M 16x1,5	21	48	22	12	2	22	24	J3B 5
6	12	3	M 20x1,5	M 18x1,5	23	54	26	12	2,5	24	27	J3B 6
8	13,5	2,75	M 22x1,5	M 20x1,5	25	58	27	14	2,5	27	30	J3B 8
10	17	3	M 27x2	M 22x1,5	27	67	32	14	3	30	36	J3B 10
12	21	4	M 33x2	M 27x2	32	75	35	16	3	36	41	J3B 12
16	27	4,5	M 39x2	M 33x2	39	82	39	18	3	41	46	J3B 16
20	34	5,5	M 48x2	M 42x2	49	94	45	20	3	50	55	J3B 20
25	42	7	M 56x2	M 48x2	55	101	47	22	3	60	65	J3B 25
32	48	6,5	M 64x2	M 56x2	64	111	50	24	3,5	65	70	J3B 32

M6B Series for pressures up to PN 640:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
4	10	3	M 20x1,5	M 22x1,5	27	54	28	14	3	27	27	M6B 4
6	10	2	M 22x1,5	M 22x1,5	27	57	28	14	3	27	32	M6B 6
8	13,5	2,75	M 26x1,5	M 27x2	32	67	32	16	3	32	36	M6B 8
10	17	3,5	M 30x2	M 33x2	39	76	37	18	3	41	41	M6B 10
12	20	4	M 33x2	M 42x2	49	87	40	20	3	50	46	M6B 12
16	25	5	M 42x2	M 42x2	49	93	43	20	3	50	55	M6B 16
20	30	6	M 45x2	M 48x2	55	120	54	22	3	55	60	M6B 20
25	38	7,5	M 52x2	M 56x2	64	131	58	24	3	65	65	M6B 25

M10B Series for pressures up to PN 1000:

DN	d ₁	s	d ₃	d ₄	d ₇	L ₂	l ₂	i ₂	a ₂	s ₂	s ₃	Order number
4	10	3,25	M 20x1,5	M 22x1,5	27	70	35	14	3	27	32	M10B 4
6	13,5	3,75	M 22x1,5	M 27x2	32	80	38	16	3	32	36	M10B 6
8	17	4,5	M 26x1,5	M 33x2	39	97	47	18	3	41	41	M10B 8
10	20	5	M 30x2	M 42x2	49	101	50	20	3	50	46	M10B 10
12	25	6,5	M 33x2	M 42x2	49	118	55	20	3	50	55	M10B 12

For orders on individual parts we need the following information:

Pieces	Component	Designation	Order number	Material number
1	1	Weld-on stub	(Series)-(DN)- 1	_____
1	2	Clamping nut	(Series)-(DN)- 2	_____
1	4	Screw-in stub	(Series)-(DN)- 4	_____