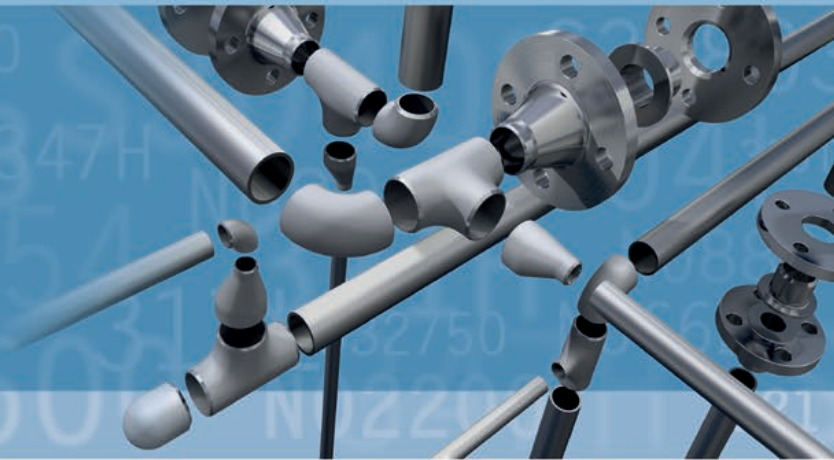


pipes, flanges, fittings

The answer is Arcus

Pipes, flanges and fittings *The answer is Arcus!*



- Arcus is the specialist in stainless steel pipes, flanges and fittings.
- Fast deliveries, locally and worldwide.
- Availability nearby customers.
- International standards: ASTM, ASME, EN.
- Material certificates 24/7 available on the website of Arcus.

Material grades from stock

- 304/304L (1.4301/1.4307)
 - 321/321H (1.4541/1.4878)
 - 316/316L (1.4401/1.4404)
 - 316Ti (1.4571)
 - 904/904L (1.4539)
 - (Super)Duplex
 - Nickel Alloys
-
- Sizes from 4mm up to 2000mm - 1/8" till 80".

Arcus is a leading stockist of stainless steel pipes, flanges and fittings. Deliveries are made to customers around the world.

Arcus works with fully certified and carefully selected manufacturers. Arcus represents renowned producers on an exclusive basis, such as Unique Flanges and Baoluo Stainless Steel (BSS) Tubes.

The customers of Arcus include the (petro-) chemical industry, food- and dairy industry, process equipment, ship building and on- and offshore.

Material certificates are available on a digital portal on the website of Arcus, 24 hours a day.

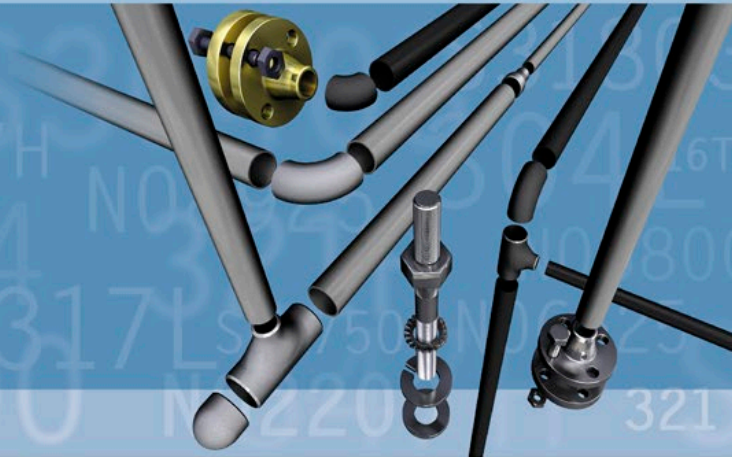
The supply chain of Arcus offers cost savings. State of the art storage systems, balanced inventory management and a wide range of products contribute to in time and high quality deliveries all over the world.

Arcus provides excellent value with fast, efficient, reliable, safe and complete deliveries for projects, maintenance and day-to-day business.

Offices and warehouses part of the Arcus group

Heerenveen
Brielle
Dordrecht
Essen
Weilerswist
Brussels
Leipzig

*Steel pipes, flanges
and fittings*
The answer is Arcus!



- Arcus supplies from stock carbon steel pipes, flanges, fittings, valves components and industrial supplies.
- International standards: EN, API and ASTM.

Material grades from stock

Pipes

- ASTM A106 ASME A106 Gr.B/C
- ASTM A333 ASME A333 Gr.6
- ASTM A335 ASME A335 P11
- EN 10216-2 P235GH TC1/TC2
- EN 10216-2 S235JRG2/P265GH TC1/TC2
- EN 10216-2 16Mo3

Flanges

- ASTM A105N ASME A105N / A105N
- ASTM A350 ASME A350 / LF2
- ASTM A182 ASME A182 / F11
- EN 1092-1 P250GH
- EN 1092-1 S235JRG2
- EN 1092-1 16Mo3

Fittings

- ASTM A234 ASME A234 WPB
- ASTM A234 ASME A234 WP5
- ASTM A420 ASME A420 WPL6
- ASTM A234 ASME A234 WP11
- EN 10253-2 P235GH TC1/TC2
- EN 10253-2 S235JRG2/P265GH TC1/TC2
- EN 10253-2 16Mo3

- The wide range of fittings includes: Elbows, Equal and reducing tees, Caps, Reducers, BSP-, NPT- and SW fittings and cutting ring fittings.
- In addition to the various steel grades, these products are also available in stainless steel from stock.

Construction material (steel and stainless steel)

- Square-, hexagon- and roundbars
- Hollow sections
- Sheets
- T-profile and angle bar
- UNP and HEA beams
- Seamless and welded pipe, threaded and coupled optional
- Customization available

Fasteners (steel and stainless steel A4)

- Stud- and hexagon bolts
- Nuts, washers and spring washers
- Studbolts ASTM A193 B7 and ASTM A194 B8M
- Threaded studs

Valves (steel and stainless steel)

- Gate valves
- Globe valves
- Check valves
- Ball valves

Various types of clips (steel and stainless steel)

Sealings

- Spiral wound
- Graphite
- Stainless steel
- Fibreboard

The team has specialized knowledge of the products. For urgent orders, there is a 24/7 service available.

*Stainless steel
precision tubes
The answer is Arcus!*



- Arcus is the exclusive partner of BSS for seamless stainless steel tubes, precision tubes, U-tubes and coiled tubes up to 200 meters.
- The laboratory, capable of performing all possible destructive and non-destructive testing, ensures a constant high quality.

The program of BSS

- Outside diameter \varnothing 3,18mm up to \varnothing 323,9mm
- Wall thickness 0,5mm up to 25,4mm
- Maximum lengths up to 24,000mm
- Possible executions: bright annealed, annealed and pickled, (electro)polished.

International standards

- ASTM A/SA 213AW/269
- ASTM A/SA 312
- ASTM A/SA 789
- ASTM A/SA 790
- EN 10216-5 TC1/TC2
- AD 2000-W2/W9/W10
- Tolerances to EN 10305 / EN ISO 1127 D4/T3

Material grades

- 304/304L (1.4301/1.4307)
- 321/321H (1.4541/1.4878)
- 316/316L (1.4401/1.4404)
- 316Ti (1.4571)
- 904/904L (1.4539)
- (Super)Duplex
- Nickel Alloys

Approvals

- Lloyd's Register
- Det Norske Veritas
- Bureau Veritas
- American Bureau of Shipping
- Russian Maritime Register of Shipping
- RINA
- AD 2000-Merkblatt W0
- PED 2014/68/EU
- ISO 9001:2008



The BSS materials are available from stock. Arcus provides the complete handling for projects and direct deliveries.

Machining and Pickling *The answer is Arcus!*



- Manufacturer of flanges, mechanical machining of fittings and client specific products.
- Technical support and service based on years of experience.

Mechanical machining

- Machining and bevelling of fittings
- Producing and machining of flanges
- Cutting up to and including outside diameter \varnothing 800mm
- Pickling in our own environment-friendly production hall.
- Grinding stainless steel pipes (OD up to and including \varnothing 100mm) to finish G240.

Quality standards and certification

- ISO 9001:2008
- AD 2000-Merkblatt W0
- PED 97/23/EC certified for flanges
- ASTM, EN and ISO
- TÜV Rheinland stamp authority

Arcus' own production department enables fast production of its own Arcus flanges. Special and standard machining of flanges and fittings can be performed with short delivery times.

The machinery consist of two CNC machines and one vertical turning lathe with a capacity up to \varnothing 450mm, a vertical turning lathe with a capacity up to \varnothing 1300mm and various conventional lathes. The sales team has extensive knowledge and years of experience.

Arcus has its own environment-friendly pickling facility including 3 pickling baths. Pickling is executed with up to date techniques for stainless steel using HF acid hydrogen peroxide in pickling baths with dimensions 13 x 1 x 1 meter and 7 x 2 x 1 meter.

The experienced sales team is ready to serve you.

Grade	MATERIALS				MECHANICAL CHARACTERISTICS				CHEMICAL ANALYSIS				
	W.N.	UNS	ASTM Plates	Density Kg/dm ³	Tensile Strength Min N/mm ²	Yeld Point Min N/mm ²	Elongation 2" or 50mm min%	Max Hardness HB/HRB/ HRC	C % max	Cr %	Ni %	Mo %	Other elements %
304	1.4301	S30400	A 240	8.0	515	205	40	201/92	0.07	17.5 ÷ 19.5	8 ÷ 10.5	-	N 0.1 max
304 L	1.4307	S30403	A 240	8.0	485	170	40	201/92	0.03	17.5 ÷ 19.5	8 ÷ 12	-	N 0.1 max
321	1.4541	S32100	A 240	8.0	515	205	40	217/95	0.08	17 ÷ 19	9 ÷ 12	-	Ti5x(C+N) min, 0.70 max
347	1.4550	S34700	A 240	8.0	515	205	40	201/92	0.08	17 ÷ 19	9 ÷ 13	-	Cb 10xC ÷ 1.00
316	1.4401	S31600	A 240	8.0	515	205	40	217/95	0.08	16.5 ÷ 18	10 ÷ 14	2 ÷ 3	N 0.1 max
316 L	1.4404	S31603	A 240	8.0	485	170	40	217/95	0.03	16.5 ÷ 18	10 ÷ 14	2 ÷ 3	N 0.1 max
316 Ti	1.4571	S31635	A 240	8.0	515	205	40	217/95	0.08	16 ÷ 18	10 ÷ 14	2 ÷ 3	N 0.1 max Ti 5x(C+N) ÷ 0.70
317 L	1.4438	S31703	A 240	8.0	515	205	40	217/95	0.03	18 ÷ 20	11 ÷ 15	3 ÷ 4	N 0.1 max
309 S	1.4828	S30908	A 240	8.0	515	205	40	217/95	0.08	22 ÷ 24	12 ÷ 15	-	-
310 S	1.4845	S31008	A 240	8.0	515	205	40	217/95	0.08	24 ÷ 26	19 ÷ 22	-	-
310 MoLN	1.4466	S31050	A 240	8.0	550	240	30	217/95	0.02	24 ÷ 26	20.5 ÷ 23.5	1.6 ÷ 2.6	N 0.09 ÷ 0.15
410 S	1.4000	S41008	A 240	7.7	415	205	22	183/89	0.08	11.5 ÷ 13.5	0.6 max	-	N 0.10
253 MA	1.4835	S30815	A 240	8.0	600	310	40	217/95	0.05 ÷ 0.1	20 ÷ 22	10 ÷ 12	-	N 0.14 ÷ 0.20 Ce 0.03 ÷ 0.08
904 L	1.4539	N08904	A 240	8.0	490	220	35	-/90	0.02	19 ÷ 23	23 ÷ 28	4 ÷ 5	-
6 Mo	1.4529	N08926	A 240	8.0	650	295	35	-/-	0.02	19 ÷ 21	24 ÷ 26	6 ÷ 7	N 0.15 ÷ 0.25
254 SMO	1.4547	S31254	A 240	8.0	655	310	45	223/96	0.02	19.5 ÷ 20.5	17.5 ÷ 18.5	6 ÷ 6.5	N 0.18 ÷ 0.22
2205 Duplex	1.4462	S31803	A 240	7.9	620	450	25	293/-/310	0.03	21 ÷ 23	4.5 ÷ 6.5	2.5 ÷ 3.5	N 0.08 ÷ 0.20
2507 S.Duplex	1.4410	S32750	A 240	7.9	795	550	15	310/-/320	0.03	24 ÷ 26	6 ÷ 8	3 ÷ 5	N 0.24 ÷ 0.32
SUPER DUPLEX	1.4501	S32760	A 240	7.9	750	550	25	270/-/280	0.03	24 ÷ 26	6 ÷ 8	3 ÷ 4	N 0.2 ÷ 0.3 / W 0.50 ÷ 1.00
ALLOY 28	1.4563	N08028	B 709	8.0	500	214	40	-/80	0.03	26 ÷ 28	29.5 ÷ 32.5	3 ÷ 4	-
ALLOY 31	1.4562	N08031	B 625	8.1	650	276	40	220/-	0.015	26 ÷ 28	30 ÷ 32	6 ÷ 7	N 0.15 ÷ 0.25
4565 S	1.4565	S34565	A 240	8.0	795	415	35	241/100	0.03	23 ÷ 25	16 ÷ 18	4 ÷ 5	N 0.4 ÷ 0.6 Cb 0.10

Grade	W.N.	UNS	ASTM Plates	Density Kg/dm ³	Tensile Strength Min N/mm ²	Yeld Point Min N/mm ²	Elongation 2" min%	Max Hardness HB/HRB	C % max	Cr X	Ni %	Mo %	Other elements %
NICKEL 200	2.4066	N02200	B 162	8.9	380	103	40	140/80	0.15	-	98.4 ÷ 99.6	-	-
NICKEL 201	2.4068	N02201	B 162	8.9	345	80	40	135/75	0.01	-	98.4 ÷ 99.6	-	-
ALLOY 400	2.4360	N04400	B 127	8.8	485	195	35	140/80	0.30	-	63 min	-	-
ALLOY 600	2.4816	N06600	B 168	8.4	550	240	30	180/90	0.15	14 ÷ 17	72 min	-	-
ALLOY 601	2.4851	N06601	B 168	8.1	550	205	30	180/90	0.10	21 ÷ 25	58 ÷ 63	-	-
ALLOY 625	2.4856	N06625	B 443	8.5	758	379	30	-/-	0.10	20 ÷ 23	58 min	8 ÷ 10	Co 1.0 max Ti 40 max Cb + Ta 3.15 ÷ 4.15
ALLOY 800H	1.4959	N08810	B 409	8.0	450	170	30	-/-	0.05 ÷ 0.1	19 ÷ 23	30 ÷ 35	-	Ti 0.15 ÷ 0.60
ALLOY 800HT	1.4959	N08811	B 409	8.0	450	170	30	-/-	0.06 ÷ 0.5	19 ÷ 23	30 ÷ 35	-	Ti 0.15 ÷ 0.60 Al + Ti 0.85 ÷ 1.2
ALLOY 825	2.4858	N08825	B 424	8.1	586	241	30	165/87	0.05	19.5 ÷ 23.5	38 ÷ 46	2.5 ÷ 3.5	Ti 0.6 ÷ 1.2
ALLOY B2	2.4617	N10665	B 333	9.2	760	350	40	226/100	0.02	1 max	Balance	26 ÷ 30	Co 1 max
ALLOY B3	2.4600	N10675	B 333	9.2	760	350	40	226/100	0.01	1 ÷ 3	65 min	27 ÷ 32	Co max W 3 max
ALLOY B4	2.4600	N10629	B 333	9.2	760	350	40	226/100	0.01	0.5 ÷ 1.5	Balance	26 ÷ 30	Co 2.5 max
ALLOY C22	2.4602	N06022	B 575	8.7	690	310	45	226/100	0.015	20 ÷ 22.5	Balance	12.5 ÷ 14.5	W 2.5 ÷ 3.5 Co 2.5 max V 0.35 max
ALLOY 59	2.4605	N06059	B 575	8.8	710	350	45	226/100	0.01	22 ÷ 24	Balance	15 ÷ 16.5	-
ALLOY C276	2.4819	N10276	B 575	8.9	690	283	40	226/100	0.01	14.5 ÷ 16.5	Balance	15 ÷ 17	Co 2.5 max W 3 ÷ 4.5
ALLOY C4	2.4610	N06455	B 575	8.6	690	276	40	226/100	0.015	14 ÷ 17	Balance	14 ÷ 17	Ti 0.7 max
ALLOY X	2.4665	N06002	B 435	8.3	655	240	35	-/-	0.05 ÷ 0.15	20.5 ÷ 23	Balance	8 ÷ 10	W 0.2 ÷ 1.0
ALLOY G30	2.4603	N06030	B 582	8.2	586	241	30	-/-	0.03	28 ÷ 31.5	Balance	4 ÷ 6	W 1.5 ÷ 4 Co 5 max Cb ÷ Ta 0.3 ÷ 1.5
Cu Ni 90/10	2.0872	N70600	B 171	8.9	275	105	30	-/-	0.05	-	+Cb9 ÷ 11	-	Zn 0.50 max Pb 0.02 max

Grade	W.N.	UNS	ASTM Plates	Density Kg/dm ³	Tensile Strength Min N/mm ²	Yeld Point Min N/mm ²	Elongation 2" min%	Max Hardness HB/HRB	C % max	Cr X	Ni %	Mo %	Other elements %
Ti Gr.1	3.7025	R50250	B 265	4.5	240	170 - 310	24	-/-	0.08	0.015	0.18	0.20	-
Ti Gr.2	3.7035	R50400	B 265	4.5	345	275-450	20	-/-	0.08	0.015	0.25	0.30	-
Ti Gr.3	3.7055	R50550	B 265	4.5	450	380-550	18	-/-	0.08	0.015	0.35	0.30	-
Ti Gr.7	3.7235	R52400	B 265	4.5	345	275-450	20	-/-	0.08	0.015	0.25	0.30	Pd 0.12 ÷ 0.25
Ti Gr. 12	3.7105	R53400	B 265	4.5	483	345	18	-/-	0.08	0.015	0.25	0.30	Ni 0.6 ÷ 0.25 Mo 0.2 ÷ 0.4

* Mechanical Characteristics at room temperature

** We make no guarantees or warranties of any kind, about the information that we express in this technical data sheet regarding to the completeness, accuracy, reliability, suitability or availability with respect to the information contained in the sheet for any purpose.

ASTM dimensions and weights ANSI B36.10/19

PIPE DIN	PIPE inch	O.D. mm	5	10S	10	20	30	STD 40S	40	60	XS 80S	80	100	120	140	160	XXS
NW 3	1/8	10,29						1,73			2,41						
	1/4	13,72						0,37			0,48						
								2,24			3,02						
								0,64			0,81						
NW 10 / 17.2	3/8	17,15						2,31			3,20						
								0,86			1,12						
NW 15 / 21.3	1/2	21,34	1,65	2,11	2,11			2,77			3,73					4,75	7,47
			0,81	1,02	1,02			1,29			1,64					1,97	2,59
Nw 20 / 26.9	3/4	26,67	1,65	2,11	2,11			2,87			3,91					5,54	7,82
			1,03	1,30	1,30			1,71			2,23					2,93	3,69
NW 25 / 33.7	1	33,40	1,65	2,77	2,77			3,38			4,55					6,35	9,09
			1,31	2,13	2,13			2,54			3,29					4,30	5,53
NW 32 / 42.4	1 1/4	42,16	1,65	2,77	2,77			3,56			4,85					6,35	9,70
			1,67	2,73	2,73			3,44			4,53					5,69	7,88
NW 40 / 48.3	1 1/2	48,26	1,65	2,77	2,77			3,66			5,08					7,14	10,16
			1,93	3,16	3,16			4,09			5,49					7,35	9,69
NW 50 / 60.3	2	60,33	1,65	2,77	2,77			3,91			5,54					8,71	11,07
			2,42	3,99	3,99			5,52			7,60					11,26	13,65
NW 65 / 76.1	2 1/2	73,03	2,11	3,05	3,05			5,16			7,01					9,53	14,02
			3,75	5,34	5,34			8,77			11,59					15,15	20,72
NW80 / 88.9	3	88,90	2,11	3,05	3,05			5,49			7,62					11,13	15,24
			4,59	6,56	6,56			11,47			15,51					21,67	28,11
	3 1/2	101,60	2,11	3,05	3,05			5,74			8,08						16,15
			5,26	7,53	7,53			13,78			18,92						34,56
NW 100 / 114.3	4	114,30	2,11	3,05	3,05			6,02			8,56			11,13		13,49	17,12
			5,93	8,50	8,50			16,32			22,66			28,75		34,05	41,66
NW 125 / 139.7	5	141,30	2,77	3,40	3,40			6,55			9,53			12,70		15,88	19,05
			9,61	11,74	11,74			22,10			31,44			40,90		49,87	58,31
NW 150 / 168.3	6	168,30	2,77	3,40	3,40			7,11			10,91			14,27		18,24	21,95
			11,48	14,04	14,04			28,70			43,00			55,04		68,54	80,44
NW 200 / 219.1	8	219,10	2,77	3,76	3,76	6,35	7,04	8,18		10,31	12,70		15,06	18,24	20,62	23,01	22,23
			15,00	20,27	20,27	33,83	37,38	43,20		53,90	65,64		76,94	91,74	102,48	112,98	109,59
NW 250 / 273.0	10	273,00	3,40	4,19	4,19	6,35	7,80	9,27		12,70	12,70	15,06	18,24	21,41	25,40	28,58	25,40
			22,95	28,20	28,20	42,40	51,80	61,22		82,78	82,78	97,27	116,36	134,88	157,48	174,92	157,48
NW 300 / 323.9	12	323,90	3,96	4,57	4,57	6,35	8,38	9,53	10,31	14,27	12,70	17,45	21,41	25,40	28,58	33,32	25,40
			31,72	36,54	36,54	50,49	66,21	75,02	80,96	110,64	98,96	133,90	162,17	189,85	211,34	242,44	189,85
			3,96	4,78	6,35	7,92	9,53	9,53	11,13	15,06	12,70	19,05	23,80	27,76	31,75	35,71	
NW 350	14	355,60	34,87	41,99	55,53	68,95	82,58	82,58	96,00	128,42	109,04	160,54	197,74	227,88	257,47	286,04	
			4,19	4,78	6,35	7,92	9,53	9,53	12,70	16,66	12,70	21,41	26,19	30,94	36,53	40,46	
			42,20	48,07	63,61	79,03	94,71	94,71	125,20	162,59	125,20	206,40	249,34	290,88	338,32	370,74	
NW 400	16	406,40	4,19	4,78	6,35	7,92	11,13	9,53	14,27	19,05	12,70	23,80	29,36	34,93	39,67	45,24	
			47,53	54,15	71,69	89,10	124,32	106,83	158,27	209,00	141,35	258,29	314,54	369,34	414,75	466,67	
NW 500	20	508,00	4,78	5,54	6,35	9,53	12,70	9,53	15,06	20,62	12,70	26,19	32,54	38,10	44,46	49,99	
			60,23	69,70	79,76	118,95	157,51	118,95	185,89	251,65	157,51	315,97	387,41	448,30	516,05	573,31	
			4,78	5,54	6,35	9,53	12,70	9,53	15,90	22,22	12,70	28,60	34,90	41,30	47,60	54,00	
NW 550	22	558,80	66,31	76,75	87,84	131,07	173,66	131,07	216,15	298,55	173,66	379,76	457,83	535,17	609,30	682,57	
			5,54	6,35	6,35	9,53	14,27	9,53	17,45	24,59	12,70	30,94	38,89	46,02	52,37	59,51	
NW 600	24	609,60	83,80	95,92	95,92	143,20	212,72	143,20	258,74	360,21	189,82	448,31	555,76	649,44	730,72	819,71	
					7,92	12,70		9,53			12,70						
NW 650	26	660,40			129,40	205,97		155,32			205,97						
			6,35	7,92	7,92	12,70	15,88	9,53			12,70						
NW 700	28	711,20	112,07	139,47	139,47	222,13	276,48	167,44			222,13						
					7,92	12,70	15,88	9,53			12,70						
NW 750	30	762,00			149,55	238,28	296,68	179,56			238,28						
					7,92	12,70	15,88	9,53	17,48		12,70						
NW 800	32	812,80			159,62	254,44	316,88	191,69	348,11		254,44						
					7,92	12,70	15,88	9,53	17,48		12,70						
NW 850	34	863,60			169,70	270,59	337,08	203,81	370,35		270,59						
					7,92	12,70	15,88	9,53	19,05		12,70						
NW 900	36	914,40			179,77	286,75	357,28	215,93	427,09		286,75						

OD in	O.D. inch	O.D. mm	7,92	8,74	9,53	10,30	11,10	11,90	12,70	14,30	15,90	17,50	19,10
NW 950	38	965,2	189,84	209,32	228,05	246,28	265,19	284,06	302,90	340,49	377,95	415,28	452,49
NW 1000	40	1016,0	199,92	220,44	240,18	259,38	279,31	299,20	319,06	358,68	398,18	437,54	476,78
NW 1050	42	1066,8	209,99	231,56	252,30	272,48	293,43	314,33	335,21	376,87	418,40	459,80	501,08
NW 1100	44	1117,6	220,07	242,67	264,42	285,59	307,55	329,47	351,37	395,06	438,63	482,06	525,37
NW 1150	46	1168,4	230,14	253,79	276,54	298,69	321,66	344,61	367,52	413,25	458,85	504,32	549,67
NW 1200	48	1219,2	240,22	264,91	288,67	311,79	335,78	359,75	383,68	431,44	479,08	526,58	573,96
NW 1250	50	1270,0	250,29	276,03	300,79	324,89	349,90	374,88	399,83	449,63	500,23	548,85	598,26
NW 1300	52	1320,8	260,37	287,14	312,91	337,99	364,02	390,02	415,99	467,82	519,53	571,11	622,56

*We make no guarantees or warranties of any kind, about the information that we express in this technical data sheet regarding to the completeness, accuracy, reliability, suitability or availability with respect to the information contained in the sheet for any purpose.