

CIŚNIENIE PRACY RUR BEZSZWOWYCH

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Specyfikacja rur hydraulicznych bezszwowych



SEAMLESS CARBON STEEL TUBE

Material: St. 37.4 fine-grain quality per DIN 1630
Tensile Strength: 340 N/mm² (49,000 lb/in²) minimum
Yield Strength: 235 N/mm² (34,000 lb/in²) minimum
% Elongation: 25% minimum
Condition: Seamless, cold drawn, annealed (NBK) per DIN 2391C Part 2
Surface Finish: Tubes with inside diameter of 1.5 to 5 mm – outside and inside oiled
Tubes with 6 mm and greater inside diameter – outside and inside phosphate and oiled
Example of Part Number: R25X2 where R indicates tube, 25 = outside diameter (mm), and 2 = wall thickness (mm)



SEAMLESS CARBON STEEL TUBE WITH ZINC PLATING

Material: St. 37.4 fine-grain quality per DIN 1630
Tensile Strength: 340 N/mm² (49,000 lb/in²) minimum
Yield Strength: 235 N/mm² (34,000 lb/in²) minimum
% Elongation: 25% minimum
Condition: Seamless, cold drawn, annealed (NBK) per DIN 2391C Part 2
Surface Finish: Outside surface zinc plated (8-12 µm) and yellow chromate – inside surface oiled
Example of Part Number: R25X2VZ where R indicates tube, 25 = outside diameter (mm), 2 = wall thickness (mm), and VZ indicates zinc with yellow chromate



SEAMLESS STAINLESS STEEL TUBE

Material: 1.4571 (X6CrNiMoTi17122)
Tensile Strength: 500 N/mm² (72,500 lb/in²) minimum
Yield Strength: 245 N/mm² (35,500 lb/in²) minimum
% Elongation: 35% minimum
Condition: Seamless, cold drawn, free of scale, heat-treated in accordance with DIN 17458 Table 6
Example of Part Number: R25X271 where R indicates tube, 25 = outside diameter (mm), 2 = wall thickness (mm), and 71 indicates 1.4571 stainless steel

ŚREDNICA ZEWNĘTRZNA	SCIANKA		OCYNKOWANE		BAR			NIERDZEWNE		BAR		
Tube Outside Diameter (mm)	Tube Wall Thickness (mm)	Tube Inside Diameter (mm)	St. 37.4 Phosphated & Oiled	St. 37.4 Zinc Plated & Yellow Chromate	Static Pressure Rating (Bar)	Dynamic Pressure Rating (Bar)	Burst Pressure (Bar)	Weight (kg/m)	1.4571 Stainless Steel	Static Pressure Rating (Bar)	Burst Pressure (Bar)	Weight (kg/m)
4	0.5	3	R04X0.5	R04X0.5VZ	313	274	1160	0.047	–	–	–	–
4	0.75	2.5	–	R04X0.75VZ	409	393	1820	0.063	–	–	–	–
4	1	2	R04X1	R04X1VZ	522	502	2850	0.074	R04X171	600	3850	0.075
5	1	3	–	R05X1VZ	432	416	2120	0.099	–	–	–	–
6	0.75	4.5	–	R06X0.75VZ	333	289	1230	0.103	–	–	–	–
6	1	4	R06X1	R06X1VZ	389	374	1680	0.123	R06X171	426	2340	0.125
6	1.5	3	R06X1.5	R06X1.5VZ	549	528	3050	0.166	R06X1.571	600	3250	0.169
6	2	2	–	R06X2VZ	692	665	–	0.197	–	–	–	–
6	2.25	15	–	R06X2.25VZ	757	728	–	0.208	–	–	–	–
8	1	6	R08X1	R08X1VZ	333	289	1190	0.222	R08X171	368	1660	0.175
8	1.5	5	R08X1.5	R08X1.5VZ	431	414	1860	0.240	R08X1.571	472	2800	0.244
8	2	4	R08X2	R08X2VZ	549	528	3020	0.296	–	–	–	–
8	2.5	3	–	R08X2.5VZ	658	632	–	0.339	–	–	–	–
10	1	8	R10X1	R10X1VZ	282	249	870	0.222	R010X171	294	1290	0.225
10	1.5	7	R10X1.5	R10X1.5VZ	373	358	1380	0.314	R10X1.571	389	1930	0.319
10	2	6	R10X2	R10X2VZ	478	460	2100	0.395	R10X271	498	3100	0.401
10	2.5	5	–	R10X2.5VZ	576	553	3180	0.462	–	–	–	–
10	3	4	–	R10X3VZ	666	641	–	0.518	–	–	–	–
12	1	10	R12X1	R12X1VZ	235	210	760	0.271	R12X171	245	1220	0.275
12	1.5	9	R12X1.5	R12X1.5VZ	353	305	1150	0.388	R12X1.571	368	1580	0.394
12	2	8	R12X2	R12X2VZ	409	393	1580	0.493	R12X271	426	2380	0.501
12	2.5	7	–	R12X2.5VZ	495	476	2600	0.586	–	–	–	–
12	3	6	–	R12X3VZ	576	553	3200	0.666	–	–	–	–
12	3.5	5	–	R12X3.5VZ	651	627	–	0.734	–	–	–	–
14	1.5	11	–	R14X1.5VZ	302	265	940	0.462	R14X1.571	315	1550	0.469
14	2	10	R14X2	R14X2VZ	403	343	1340	0.592	R14X271	420	2180	0.601
14	2.5	9	–	R14X2.5VZ	434	417	1760	0.709	R14X2.571	452	2800	0.720
14	3	8	–	R14X3VZ	507	487	2400	0.814	–	–	–	–
15	1	13	R15X1	R15X1VZ	188	171	590	0.345	R15X171	196	860	0.351
15	1.5	12	R15X1.5	R15X1.5VZ	282	249	980	0.499	R15X1.571	294	1140	0.507
15	2	11	R15X2	R15X2VZ	376	323	1250	0.641	R15X271	392	1750	0.651
16	1.5	13	R16X1.5	R16X1.5VZ	264	234	820	0.536	R16X1.571	276	750	0.545
16	2	12	R16X2	R16X2VZ	353	305	1170	0.691	R16X271	368	1800	0.701
16	2.5	11	R16X2.5	R16X2.5VZ	386	372	1470	0.832	R16X2.571	403	2120	0.845
16	3	10	R16X3	R16X3VZ	452	435	1920	0.962	R16X371	472	2800	0.977
18	1	16	–	R18X1VZ	157	143	510	0.419	–	–	–	–
18	1.5	15	R18X1.5	R18X1.5VZ	235	210	780	0.610	R18X1.571	245	1050	0.620
18	2	14	R18X2	R18X2VZ	313	274	1040	0.789	R18X271	327	1520	0.801
18	2.5	13	R18X2.5	R18X2.5VZ	392	335	1320	0.956	–	–	–	–
18	3	12	–	R18X3VZ	409	393	1830	1.111	–	–	–	–
20	1.5	17	–	R20X1.5VZ	212	191	570	0.684	–	–	–	–
20	2	16	R20X2	R20X2VZ	282	249	920	0.888	R20X271	294	1250	0.901
20	2.5	15	R20X2.5	R20X2.5VZ	353	305	1220	1.079	R20X2.571	368	1550	1.095
20	3	14	R20X3	R20X3VZ	373	358	1450	1.258	R20X371	389	1960	1.277
20	3.5	13	R20X3.5	R20X3.5VZ	426	410	1720	1.424	–	–	–	–
20	4	12	–	R20X4VZ	478	460	2080	1.578	–	–	–	–
22	1.5	19	R22X1.5	R22X1.5VZ	192	174	590	0.758	R22X1.571	200	720	0.770
22	2	18	R22X2	R22X2VZ	256	228	850	0.986	R22X271	267	1020	1.002
22	2.5	17	R22X2.5	R22X2.5VZ	320	280	1040	1.202	–	–	–	–
22	3	16	–	R22X3VZ	385	329	–	1.406	–	–	–	–
25	2	21	R25X2	R25X2VZ	226	202	670	1.134	–	–	–	–
25	2.5	20	R25X2.5	R25X2.5VZ	282	249	920	1.387	R25X2.571	294	1190	1.408
25	3	19	R25X3	R25X3VZ	338	294	1050	1.628	R25X371	353	1520	1.653
25	4	17	R25X4	R25X4VZ	394	379	1520	2.072	–	–	–	–
25	4.5	16	R25X4.5	R25X4.5VZ	437	420	1780	2.275	–	–	–	–
28	1.5	25	R28X1.5	R28X1.5VZ	151	139	450	0.980	R28X1.571	158	620	0.995
28	2	24	R28X2	R28X2VZ	201	182	620	1.282	R28X271	210	880	1.302
28	2.5	23	R28X2.5	R28X2.5VZ	252	224	770	1.572	–	–	–	–
28	3	22	R28X3	R28X3VZ	302	265	920	1.850	–	–	–	–
30	2	26	–	R30X2VZ	188	171	620	1.381	–	–	–	–
30	2.5	25	R30X2.5	R30X2.5VZ	235	210	770	1.695	R30X2.571	245	890	1.722
30	3	24	R30X3	R30X3VZ	282	249	920	1.998	R30X371	294	1140	2.028
30	4	22	R30X4	R30X4VZ	376	323	1250	2.565	R30X471	392	1650	2.605
30	5	20	R30X5	R30X5VZ	409	393	1580	3.083	–	–	–	–
35	2	31	R35X2	R35X2VZ	161	147	470	1.628	R35X271	168	670	1.653
35	2.5	30	R35X2.5	R35X2.5VZ	201	182	620	2.004	–	–	–	–
35	3	29	R35X3	R35X3VZ	242	216	720	2.367	–	–	–	–
35	4	27	–	R35X4VZ	322	281	960	3.058	–	–	–	–
38	2.5	33	–	R38X2.5VZ	186	168	550	2.189	–	–	–	–
38	3	32	R38X3	R38X3VZ	223	200	660	2.589	–	–	–	–
38	4	30	R38X4	R38X4VZ	297	261	970	3.354	R38X471	309	1240	3.405
38	5	28	R38X5	R38X5VZ	371	319	1350	4.069	–	–	–	–
38	6	26	–	R38X6VZ	390	375	–	4.735	–	–	–	–
38	7	24	–	R38X7VZ	446	429	–	5.352	–	–	–	–
42	2	38	R42X2	R42X2VZ	134	124	390	1.973	R42X271	140	520	2.003
42	3	36	R42X3	R42X3VZ	201	182	580	2.885	R42X371	210	860	2.930
42	4	34	R42X4	R42X4VZ	269	238	850	3.749	–	–	–	–
50	6	38	R50X6	–	338	290	–	6.511	–	–	–	–
65	8	49	R65X8	–	347	300	–	11.246	–	–	–	–

Static pressures are calculated in accordance with DIN 2413 Part 1.

Dynamic pressure ratings are calculated in accordance with DIN 2413 Part 3.

Specific design factors may be determined by using the burst pressures shown in the above table.

Part numbers shown are standard from stock. Other sizes are available upon request. See Catalog 4300 for a complete listing of available sizes.

Conversion Factors:
Bar X 14.5 = psi kg/m X 0.672 = lb/ft N/mm² X 145 = lb/in²