

Seamless EO Steel Tubes (cont'd.)

Material St. 37.4

St. 37.4 Phosphated & Oiled Part No.	St. 37.4 Zinc Plated & Chromium-6 Free Part No.	End Size (mm)	Toler- ance	Wall Thickness (mm)	Tube I.D. (mm)	Design Pressure (bar)		Burst Pressure (bar)	Weight (kg/m)	STANDARD FROM STOCK	
						DIN 2413 I Static	DIN 2413 III Dynamic			Phos & Oil	CF
R20x1.5	R20x1.5VZ	20		1.5*	17	212	191	570	0.684	•	
R20x2	R20x2VZ	20		2	16	282	249	920	0.888	•	•
R20x2.5	R20x2.5VZ	20	±0.08	2.5	15	353	305	1220	1.079	•	•
R20x3	R20x3VZ	20		3	14	373	358	1450	1.258	•	•
R20x3.5	R20x3.5VZ	20		3.5	13	426	410	1720	1.424		
R20x4	R20x4VZ	20		4	12	478	460	2080	1.578	•	
R22x1.5	R22x1.5VZ	22		1.5	19	192	174	590	0.758	•	•
R22x2	R22x2VZ	22	±0.08	2	18	256	228	850	0.986	•	•
R22x2.5	R22x2.5VZ	22		2.5	17	320	280	1040	1.202	•	
R22x3	R22x3VZ	22		3	16	385	329	1406	1.406		
R25x2	R25x2VZ	25		2	21	226	202	670	1.134	•	•
R25x2.5	R25x2.5VZ	25		2.5	20	282	249	920	1.387	•	•
R25x3	R25x3VZ	25	±0.08	3	19	338	294	1050	1.628	•	•
R25x4	R25x4VZ	25		4	17	394	379	1520	2.072	•	
R25x4.5	R25x4.5VZ	25		4.5	16	437	420	1780	2.275		
R25x5	R25x5VZ	25		5	15	478	460	2120	2.466		
R28x1.5	R28x1.5VZ	28		1.5	25	151	139	450	0.980		
R28x2	R28x2VZ	28		2	24	201	182	620	1.282	•	•
R28x2.5	R28x2.5VZ	28	±0.08	2.5	23	252	224	770	1.572	•	
R28x3	R28x3VZ	28		3	22	302	265	920	1.850	•	
R28x4	R28x4VZ	28		4	20	403	343		2.368		
R28x5	R28x5VZ	28		5	18	434	417		2.836		
R30x2	R30x2VZ	30		2*	26	188	171	620	1.381	•	
R30x2.5	R30x2.5VZ	30		2.5	25	235	210	770	1.695	•	
R30x3	R30x3VZ	30	±0.08	3	24	282	249	920	1.998	•	•
R30x4	R30x4VZ	30		4	22	376	323	1250	2.565	•	•
R30x5	R30x5VZ	30		5	20	409	393	1580	3.083		
R35x2	R35x2VZ	35		2	31	161	147	470	1.628	•	•
R35x2.5	R35x2.5VZ	35		2.5	30	201	182	620	2.004		
R35x3	R35x3VZ	35	±0.15	3	29	242	216	720	2.367	•	•
R35x4	R35x4VZ	35		4	27	322	281	960	3.058	•	
R35x5	R35x5VZ	35		5	25	403	343		3.699		
R35x6	R35x6VZ	35		6	23	419	403		4.291		
R38x2.5	R38x2.5VZ	38		2.5*	33	186	168	550	2.189		
R38x3	R38x3VZ	38		3	32	223	200	660	2.589	•	
R38x4	R38x4VZ	38	±0.15	4	30	297	261	970	3.354	•	•
R38x5	R38x5VZ	38		5	28	371	319	1350	4.069	•	•
R38x6	R38x6VZ	38		6	26	390	375		4.735	•	
R38x7	R38x7VZ	38		7	24	446	429		5.352	•	
R42x2	R42x2VZ	42		2*	38	134	124	390	1.973	•	•
R42x3	R42x3VZ	42	±0.2	3	36	201	182	580	2.885	•	•
R42x4	R42x4VZ	42		4	34	269	238	850	3.749	•	
R50x6	R50x6VZ	50	±0.2	6	38	338			6.511		
R50x9	R50x9VZ	50		9	32	437			9.100		
R65x8	R65x8VZ	65	±0.3	8	49	347			11.246		
R80x10	R80x10VZ	80	±0.35	10	60	353			17.263		

Remarks:

Corrosion — Additional allowances are not considered for the calculation of pressures

$$\frac{da \text{ (bar)}}{di \text{ max.}} \geq 1.35$$

are calculated for static stress in accordance with DIN 2413 Part III, but with K = 235 N/mm²

When a specific factor of safety is required, calculations should be based upon the burst pressures shown in the above tables.

Temperature range: -40°C up to 120°C without pressure reductions.

Surface finish:

Tubes with I.D. 1.5 to 5 mm: outside and inside oiled.

Tubes from 6 mm I.D. and above: outside and inside phosphated and oiled.

* Tubes which need a support sleeve (VH) for assembly in EO and EO-2 fittings.

Table R3 — Seamless EO steel tubes (cont'd.)

Dimensions and pressures for reference only, subject to change.