

# TYPE CERTIFICATE



Czech

Registration number 14.874.102

issued for the manufacturer:

**Witzenmann Opava, spol. s r.o.**  
**Nákladní 2855/7**  
**CZ - 746 01 Opava**  
**Company Registration No.: 49611119**

for the product:

Name: **Bellows hoses made of stainless steel**  
Type designation: **RS 320, RS 321, RS 330, RS 331, RS 341, RS 430, RS 531**  
Modification: **S00, S12, S22, S42, S52**  
Place of the production: **Witzenmann Opava, spol. s r.o.**  
**Nákladní 2855/7, CZ - 746 01 Opava**

at which the certification has been conducted pursuant to certification scheme SCH3 – based on ISO/IEC 17067, scheme 3 and in accordance with TÜV SÜD Czech certification system. The results are stated in Evaluation report file No. 14.874.226 from 15.02.2023.

The product type mentioned above fulfils the applicable requirements of the following regulations/standards which were the basis for its evaluation:

GOVERNMENT DECREE No. 219/2016 Coll.,  
HYDRA 1301 CZ WITZENMANN, ČSN EN 13480-3:2018,  
ČSN EN 10088-1:2015, ČSN EN 10028-7:2017, ČSN EN 437:2021,  
ČSN 132754:1977, ČSN EN 1736:2009, DIN 3384:2007-08,  
DIN CEN/TS 17441:2020-07.

This certificate is valid till: **20.02.2028**

Details and validity conditions are stated in the annex which forms an integral part of this Certificate and contains 2 pages.

This certificate is issued on the basis of voluntary certification, and it does not substitute outputs of the authorized or notified body.

Prague, 20.02.2023



Head of the certification body

- The product specimen was entered for evaluation and type certification on 06.10.2022.
- The Certificate was issued on the basis of the documents provided by the client:
  - technical documentation, certificates, production guidelines, test reports
- The assessment of factory production control was performed at the product manufacturer concentrating on elements ensuring the continuation of product conformity with certification requirements.
- Detailed technical data characterizing the product type:



<b>Name:</b>	<b>Bellows hoses made of stainless steel</b>												
<b>Type:</b>	<b>RS 320</b>												
Nominal diameter DN:	65	80	100										
Permissible operating pressure at S00 20 °C (bar) per version: S12	0,4	0,3	0,3										
	16	10	10										
<b>Type:</b>	<b>RS 321</b>												
Nominal diameter DN:	6	8	10	12	16	20	25	32	40	50			
Permissible operating pressure at S00 20 °C (bar) per version: S12	16	12	7	5	5	3	2,5	2	1,6	1			
	153	176	131	85	80	50	65	46	45	35			
<b>Type:</b>	<b>RS 330</b>												
Nominal diameter DN:	65	80	100	125	150	200	250	300					
Permissible operating pressure at S00 20 °C (bar) per version: S12	1	1	0,8	0,6	0,5	0,25	0,2	0,2					
	30	32	25	19	13								
					16	10	8	6					
					16	12	12	10					
<b>Type:</b>	<b>RS 331</b>												
Nominal diameter DN:	6	8	10	12	16	20	25	32	40	50			
Permissible operating pressure at S00 20 °C (bar) per version: S12	24	17	12	9	7	3,5	3	2,5	2,5	1,6			
	198	176	131	93	85	57	65	46	50	35			
<b>Type:</b>	<b>RS 341</b>												
Nominal diameter DN:	6	8	10	12	16	20	25	32	40	50			
Permissible operating pressure at S00 20 °C (bar) per version: S12	65	38	15	18	11	14	10	2,5	2,5	2			
	198	176	106	80	76	57	65	37	50	25			
<b>Type:</b>	<b>RS 430</b>												
Nominal diameter DN:	20	25	32	40	50	65	80	100	125	150	200	250	300
Permissible operating pressure at S00 20 °C (bar) per version: S12	8	6	4	2,5	3	2	1,6	1,6	1	0,5	0,3	0,2	0,1
	129	80	87	50	70	42	41	32	23				
	168	136	105	82	77	66	64	57	43				
										16	14	8	6
										30	20	16	11
<b>Type:</b>	<b>RS 531</b>												
Nominal diameter DN:	5	6	8	10	12	16							
Permissible operating pressure at S00 20 °C (bar) per version: S12	32	43	50	33	32	22							
	230	350	270	220	186	190							
	380	400	400	380	340	280							
Min/max operating temperature T <sub>min</sub> / T <sub>max</sub> (°C):	-270 / 600												
Working medium:	Food, dishes, gaseous fuels according to ČSN EN 437: 1996, water, compressed air, steam and substances listed in the manual HYDRA 301 CZ WITZENMANN Metal hoses												
Producer:	Witzenmann Opava, spol. s r.o., Nákladní 2855/7, 746 01 Opava												

Note:

RS - Type

RS 321 - version: middle, corrugation: narrow

RS 331 - version: middle, corrugation: standard

RS 341 - version: middle, corrugation: wide

RS 531 / 430 - version: rigid, corrugation: standard

S - hoses (in meters)

00 - without braiding

12 - with single braiding made of stainless wire

22 - with double braiding made of stainless wire

42 - with single braiding made of stainless knurled wire

52 - with double braiding made of stainless knurled wire

5. List of important parts in the technical documentation:

- Metal Hose Manual HYDRA 1301 uk/7/03/16/10 WITZENMANN - including drawing documentation, calculations, materials and other technical data
- Brochure - Standard program - bellows hoses, including drawing documentation of all types manufactured, connection fittings, calculations, materials and technical conditions for installation

6. Validity Conditions

- The certificate shall apply only to its holder and products and production places mentioned therein.
- The transfer of the certificate by its owner to third parties is inadmissible as well as the use of certificate by third parties.
- TÜV SÜD Czech shall be notified forthwith of any product modifications compared to the certified specimen. This fact may cause the certificate continuation dependent on an additional conformity evaluation.
- TÜV SÜD Czech shall supervise the proper functioning of the Quality System at the manufacturer within a period of once a year on the basis of a concluded contract about the controlling activity.
- The certificate can be renewed on request.
- The certificate shall only be reproduced complete including all the annexes.
- The right to use TÜV SÜD Czech certification mark was not established to the certificate.
- The certificate holder commits to keep records of all the relevant complaints concerning the conformity of the products with the requirements of regulations and standards and make those records available to the certification body TÜV SÜD Czech.
- Not specified items (advertising, use of certification mark and certificates) are governed by the General Conditions for Product Certification, as amended.

