

INDUSTRIAL HOSES - compensators

PTFE compensators

Working parameters of PTFE compensators

The working parameters of compensators listed in the tables (working pressure, temperature) are the maximum values and must not occur simultaneously. At elevated temperatures, it is required to reduce the values given in the table regarding the maximum working pressure. Please contact Sales or Technical Department of TUBES INTERNATIONAL® in the event of any doubts concerning permissible working parameters of the compensator in particular application.

compensator type	working \ temperature	maximum working pressure [bar]		
		2 ÷ 3 convolutions	4 ÷ 6 convolutions	7 ÷ 10 convolutions
R-LD	+50°C	6	2.5	1
	+100°C	4.5	2	0.7
	+235°C	1	0	0*)
R	+50°C	10	6	2.5
	+100°C	8	4.5	2
	+235°C	2	1	0
R-HD	+50°C	16	10	6
	+100°C	12.5	8	4.5
	+235°C	3	2	1



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R-LD, R, R-HD type

Material: PTFE (also antistatic)
Reinforcement: Stainless steel rings
Flanges: Ductile cast iron GGG 40 with tie rods
Working temp.: Up to +235°C

PTFE compensators are made of helically corrugated bellow finished with flanges. Reinforced with external rings made of stainless steel. Flanges made according to ASA and DIN standards. Special versions are also available: double walled bellow with a draining system, with carbon steel or stainless steel flanges, with reinforcing rings made of Monel 400 or Hastelloy N4, with internal pilot ferrule.

Due to such advantages as good flexibility of connection, very good chemical and thermal resistance and self-cleaning properties they are widely used in chemical, food and pharmaceutical industry.

R-LD type 6 bar

code	DN [mm]	length [mm]			axial movement / convolution [± mm]	lateral movement / convolution [± mm]	angular movement / convolution [± mm]
		two convolution bellow	three convolution bellow	any additional convolution +			
TG-R-LD-025-*	25	45	55	12	5.5	3.5	8
TG-R-LD-032-*	32	55	65	13	5.5	3.5	7.5
TG-R-LD-040-*	40	55	70	15	6	4	7.5
TG-R-LD-050-*	50	60	70	16	6	4	6.5
TG-R-LD-065-*	65	60	80	20	6.5	5	6
TG-R-LD-080-*	80	65	90	24	6.5	5	6
TG-R-LD-100-*	100	70	95	25	7.5	5.5	5.5
TG-R-LD-125-*	125	75	100	25	8	5.5	5
TG-R-LD-150-*	150	75	105	25	8.5	5.5	4
TG-R-LD-200-*	200	80	110	25	9	6	3.5
TG-R-LD-250-*	250	90	120	26	10	6	3.5
TG-R-LD-300-*	300	95	125	26	10	6	3
TG-R-LD-350-*	350	100	125	26	10.5	6	3
TG-R-LD-400-*	400	100	135	26	10.5	6	2.5
TG-R-LD-500-*	500	105	140	26	11	6.5	2.5
TG-R-LD-600-*	600	105	140	26	11	6.5	2

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R type 10 bar

code	DN [mm]	length [mm]			axial movement / convolution [± mm]	lateral movement / convolution [± mm]	angular movement / convolution [± mm]
		two convolution bellow	three convolution bellow	any additional convolution +			
TG-R-025-*	25	45	55	12	4.5	3	6.5
TG-R-032-*	32	55	65	13	4.5	3	6
TG-R-040-*	40	55	70	15	5	3.5	6
TG-R-050-*	50	60	70	16	5	3.5	5.5
TG-R-065-*	65	60	80	20	5.5	4	5
TG-R-080-*	80	65	90	24	5.5	4	5
TG-R-100-*	100	70	95	25	6	4.5	4.5
TG-R-125-*	125	75	100	25	6.5	4.5	4
TG-R-150-*	150	75	105	25	7	4.5	3.5
TG-R-200-*	200	80	110	25	7.5	5	3
TG-R-250-*	250	90	120	26	8	5	3
TG-R-300-*	300	95	125	26	8	5	2.5
TG-R-350-*	350	100	125	26	8.5	5	2.5
TG-R-400-*	400	100	135	26	8.5	5	2
TG-R-500-*	500	105	140	26	9	5.5	2
TG-R-600-*	600	105	140	26	9	5.5	1.5

R-HD type 16 bar

code	DN [mm]	length [mm]			axial movement / convolution [± mm]	lateral movement / convolution [± mm]	angular movement / convolution [± mm]
		two convolution bellow	three convolution bellow	any additional convolution +			
TG-R-HD-025-*	25	45	55	12	3	2	4.5
TG-R-HD-032-*	32	55	65	13	3	2	4
TG-R-HD-040-*	40	55	70	15	3.5	2.5	4
TG-R-HD-050-*	50	60	70	16	3.5	2.5	3.5
TG-R-HD-065-*	65	60	80	20	4	3	3.5
TG-R-HD-080-*	80	65	90	24	4	3	3.5
TG-R-HD-100-*	100	70	95	25	4.5	3	3
TG-R-HD-125-*	125	75	100	25	4.5	3	3
TG-R-HD-150-*	150	75	105	25	5	3	2.5
TG-R-HD-200-*	200	80	110	25	5	3.5	2
TG-R-HD-250-*	250	90	120	26	5.5	3.5	2
TG-R-HD-300-*	300	95	125	26	5.5	3.5	1.5
TG-R-HD-350-*	350	100	125	26	6	3.5	1.5
TG-R-HD-400-*	400	100	135	26	6	3.5	1.5
TG-R-HD-500-*	500	105	140	26	6.5	4	1.5
TG-R-HD-600-*	600	105	140	26	6.5	4	1

NOTE!

* in code number refers to number of convolutions e.g. TB-R-300-3 refers to a "R" type compensator, DN 300 with 3 convolutions.