

The APIDO® washer consists of 3 or 4 conical washers assembled with an insert.



- The APIDO® washers can be used as single component or piled up.
- The elasticity is guaranteed even after many assemblies and disassemblies.
- Specially recommended for assemblies exposed to expansion and compression.
- The fastening solution when the components are working under vibration.
- Resilience to thermal expansion is proved.
- Proper tightening and warranty of resistance to loosening.

APIDO® 3L

Reference	M	d Inner Diameter	D Outer Diameter	s Thickness	h Crown Height	Minimum Load (daN)*
3L4	M4	4.5	10	1.5	0.50	150
3L5	M5	5.5	12	2.4	0.30	360
3L6	M6	6.5	14	2.4	0.60	400
3L8	M8	8.5	18	3.6	0.56	1200
3L10	M10	10.5	22	4.5	0.60	2100
3L12	M12	12.5	27	5.4	0.80	2300
3L14	M14	15.0	30	6.0	1.05	2800
3L16	M16	17.0	33	6.6	1.25	4000
3L18	M18	19.0	36	7.5	1.09	4800
3L20	M20	21.0	40	9.0	1.15	6000

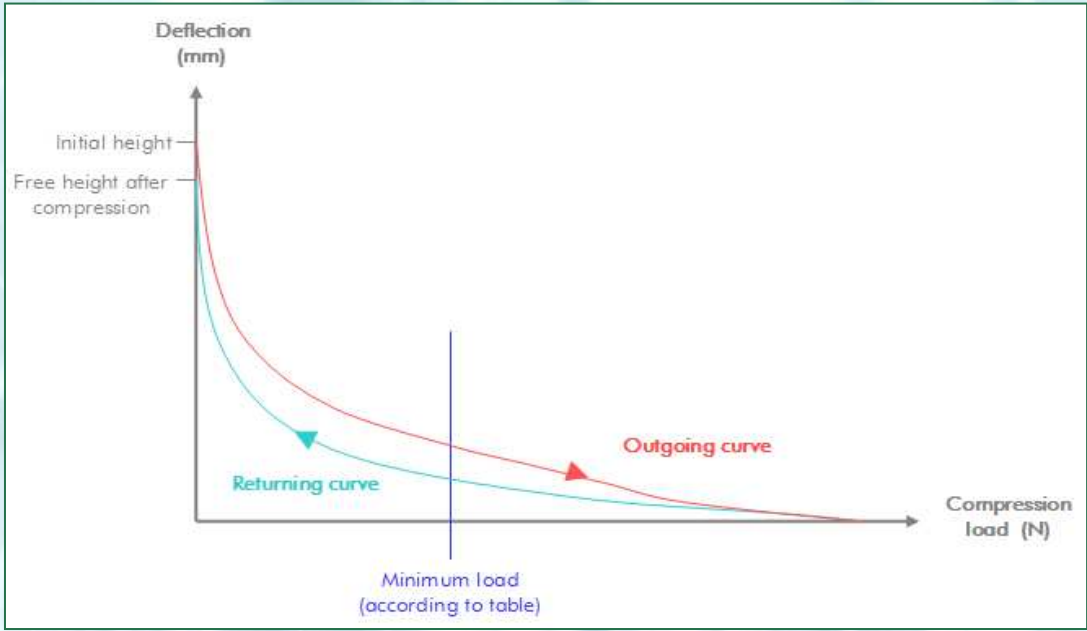
* Compression test

APIDO® 4L

Reference	M	d Inner Diameter	D Outer Diameter	s Thickness	h Crown Height	Minimum Load (daN)*
4L6	M6	6.5	17	2.4	0.80	320
4L8	M8	8.5	20	2.8	0.95	400
4L10	M10	10.5	23	3.2	1.05	600
4L12	M12	12.5	26	4.0	1.30	1150
4L14	M14	15.0	29	4.8	1.30	1300
4L16	M16	17.0	33	4.8	1.40	1250
4L18	M18	19.0	37	6.0	1.52	2100
4L20	M20	21.0	41	6.0	1.85	2100
4L22	M22	23.0	45	7.2	1.67	2700
4L24	M24	25.0	50	7.2	1.84	2900
4L27	M27	28.5	56	8.0	1.80	3600
4L30	M30	32.0	60	8.8	2.30	4200
4L36	M36	38.0	68	10.0	2.50	6200

* Compression test

COMPRESSION TEST
 NF E 25-510 / SNCF ST001 / RENAULT 39-02-806



In the compression tests, the APIDO® washers pass successfully the requirements of the Minimum Load and, as an average, the Total Load is exceeding a 180% of the specified requested values. With the properties of the hardened steel, it is demonstrated that APIDO® washers are able to recover, as an average, 90% of the initial crown height, keeping the spring effect into the fastening application.

