



# THE ELASTIC INSERT SAMIFLEX

The elastic insert is made of a very special polyurethane elastomer compound which is manufactured to an exceptional quality, providing all the required characteristics of a high performance elastic coupling.

- High breakage and shearing resistance, and tensile strength.
- High shock-absorbing capacity, stable, constant resistance.
- High resistance to abrasion, humidity, oils, corrosive vapours and numerous chemical products.
- Stability of the performance characteristics from -40 °C to 80 °C for standard manufacture insert. We manufacture elastic inserts (type HT) for applications between -40 and 140 °C.
- Excellent resistance providing a long life in abrasive, corrosive, humid atmospheres, all without lubrication or maintenance.

**Samiflex** elastic inserts are manufactured in three qualities and five hardnesses, depending on the application.

QUALITY	REF.	HARDNESS	COLOUR	TEMP. RATING
<b>STANDARD</b>	STD	80 Shore A	CLEAR	-40 / 80° C
		90 Shore A	BLUE	
		95 Shore A	YELLOW	
<b>HIGH TEMP.</b>	HT	95 Shore A	ORANGE	-40 / 140° C
<b>HIGH PERFORMAN.</b>	HD	97 Shore A	OCHRE	-40 / 80° C
	HDT	97 Shore A	RED	-40 / 140° C
	HR	65 Shore D	GREEN	-40 / 140° C

Unless that quality is specified in advance, supply is made with standard elastic insert, hardness 95 Shore A, yellow colour.

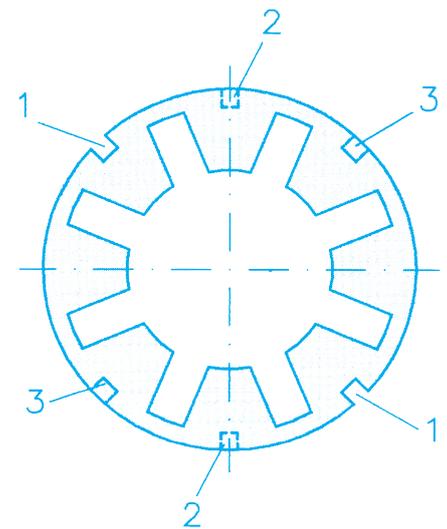
High-performance inserts. Reference HD and HDT, ochre and red respectively, enable the torque rating to be increased by 40%. **Please consult the factory.**

The elastic insert has three types of symmetrical slots. **Fig. 1.**

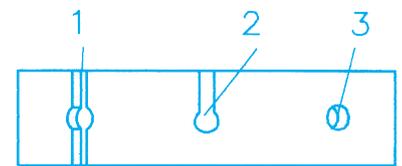
**Slot 1**, for inserting the pins of the holding ring in horizontal assembly.

**Slot 2**, for inserting the pins of the holding ring in vertical assembly.

**Slot 3**, optional application, enabling two set screws to be inserted through two tapped holes in the holding ring to prevent axial movement of this rings.



**FIG. 1**



HARDNESS Shore	ELASTIC INSERT / TORSIONAL STIFFNESS 10 <sup>3</sup> Nm. rad <sup>-1</sup>												
	A1	A2	A3	A4	A45	A5	A55	A6	A7	A8	A9	A10	A11
80 A	0,22	0,50	1,05	1,90	2,04	2,85	7,50	10,80	19,35	33,50	39,70	74,20	92,70
90 A	0,43	1,08	2,00	4,35	5,30	7,25	19,00	30,90	50,80	95,20	101,90	209,00	250,00
95 A	0,95	2,10	4,20	9,50	11,20	16,00	42,00	65,00	112,00	200,00	214,00	460,00	580,00
97 A	1,71	3,78	7,56	17,10	20,16	28,80	79,80	123,50	212,80	380,00	406,00	874,00	1.095,00
65 D	2,37	5,25	10,50	23,75	28,00	40,00	109,20	169,00	291,20	520,00	556,00	1.196,00	1.480,00

