

WIRE ROPE ISOLATORS: **NAVAL POLYCAL** DEFINITION **series NMP**

- All metal multidirectional anti-vibration/shock mounts.
- Exceptional reliability and long life.
- High damping.
- No ageing - Corrosion resistant.
- Unequalled temperature range: -180°C +300°C.
- Non-magnetic.
- Low residual acceleration.
- Easy 3 points mounting.

Dimensions are in mm. For reference only.

SERIE
Materials and finishes (meets RoHS requirements)
NMP
Cable: stainless steel AISI 316
Retainer bars: Aluminium alloy
Screws / Inserts: stainless steel
Other materials on request

DIMENSION											
type*	H	U	V	L1	L2	L3	E1	E2	G	D/D1	Mass (kg)
002	122	108	124	89.4	69.4	42.5	13.4	16	47.5	7/10	0.3
005	120	110	126	89.4	69.4	42.5	13.4	16.8	47.5	7/10	0.3
010	128	128	146	118	89.6	59	18.2	23.8	61.5	9/12	0.6
020	130	127	147	118	89.6	59	18.2	23.8	61.5	9/12	0.7
035	131	128	152	118	89.6	59	18.2	23.8	61.5	9/12	1.0
045	151	151	188	137	110	83	28.2	34.4	81.5	13.5/16	2.0
110	149	151	195	137	110	83	28.2	36.2	81.5	13.5/16	2.3
180	154	152	184	137	110	83	28.2	36.2	81.5	13.5/16	2.7

INTERFACES		
fixtures holes D	Top Bar*	
		1 through holes ø D mm
Lower Bar*		
2 through holes ø Dmm	no suffix	IM

*Type corresponds to nominal static loading

EXAMPLE
NMP110-IM

N	M	P	1	1	0	-	I	M
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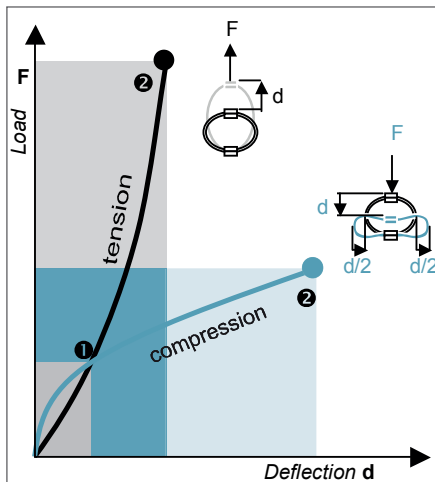
PREFIX:
'naval polycal'
mount
from the
NMP series

MODEL: 110
height: 149mm
length: 151mm
width: 195mm
mass: 2,3kg

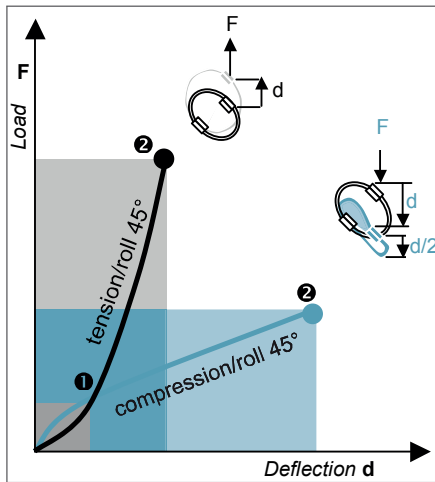
SUFFIX: IM
1 insert M D1 in upper bar*
2 through holes ø Dmm
in lower bar*



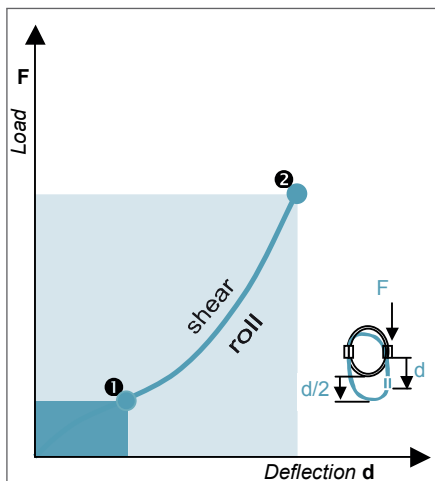
*Top & lower are used for description purposes; mounts can be mounted upside down



COMPRESSION AND TENSION										
NMP Series	Model	002	005	010	020	035	045	110	180	
1. Max Static	F daN	5.5	9.6	15.5	27.4	49.5	71.3	137	244	
	d mm	14.1	14.3	14.8	14.7	14.8	15.8	14.1	13.0	
2. Max Shock	F daN	16.6	28.9	46.5	82.1	148	213	412	732	
	d mm	83.3	80.8	78.3	76.5	76.1	79.6	77.9	77.9	
3. Max Vibration	2a mm	9.2	8.9	8.6	8.4	8.4	8.8	8.6	8.6	
	f Hz	3.8	4.0	4.1	4.2	4.3	4.3	4.4	4.3	
1. Max Static	F daN	5.5	9.6	15.5	27.4	49.5	71.3	137	244	
	d mm	9.4	9.8	10.4	10.3	10.5	12.0	11.6	11.3	
2. Max Shock	F daN	22.9	41.5	71.4	127	235	367	700	1209	
	d mm	25.7	27.5	31.0	31.0	32.2	39.4	37.7	35.7	
3. Max Vibration	2a mm	2.8	3.0	3.4	3.4	3.5	4.3	4.2	3.9	
	f Hz	7.1	7.0	6.8	6.8	6.7	6.3	6.4	6.5	



COMPRESSION/ROLL 45° - TENSION/ROLL 45°										
NMP Series	Model	002	005	010	020	035	045	110	180	
1. Max Static	F daN	5,3	9,3	29,4	51,9	90,8	203	502	900	
	d mm	31,9	31,9	31,5	31,9	29,7	27,9	22,8	25,0	
2. Max Shock	F daN	9,7	17,2	28,0	49,6	90,1	131	253	448	
	d mm	125	121	117	114	114	119	116	116	
3. Max Vibration	2a mm	13,8	13,3	12,9	12,6	12,5	13,1	12,9	12,9	
	f Hz	3,1	3,3	3,5	3,6	3,6	3,7	3,7	3,7	
1. Max Static	F daN	4,1	7,2	11,6	20,5	37,1	53,5	103	183	
	d mm	14,8	15,2	16,2	16,0	16,3	18,6	18,0	17,5	
2. Max Shock	F daN	22,7	41,3	71,6	128	237	372	708	1220	
	d mm	41,2	44,1	49,6	49,6	51,6	63,1	60,4	57,2	
3. Max Vibration	2a mm	4,5	4,8	5,5	5,5	5,7	6,9	6,6	6,3	
	f Hz	6,0	5,9	5,8	5,8	5,7	5,3	5,4	5,5	



SHEAR OR ROLL										
NMP Series	Model	002	005	010	020	035	045	110	180	
1. Max Static	F daN	2.8	4.8	7.7	13.7	24.7	35.6	68.7	122	
	d mm	36.6	34.0	31.9	29.8	28.2	29.1	26.9	25.6	
2. Max Shock	F daN	10.3	19.1	33.8	60.6	112	180	345	595	
	d mm	67.4	68.0	70.1	69.3	70.3	79.2	76.7	74.7	
3. Max Vibration	2a mm	7.4	7.5	7.7	7.6	7.7	8.7	8.4	8.2	
	f Hz	4.8	4.7	4.7	4.7	4.6	4.4	4.5	4.4	

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)

*** IMPORTANT: Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us.**

TYPICAL SHOCK / VIBRATION SPECIFICATIONS:

- Ground Forces** GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
- Air** AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
- Marine** GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044, BR3021, BR8470, NAV001.
- Others** GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C.