POWERFLEX

DAMPING SYSTEM ENGINEERING

ANTISHOCK AND ANTIVIBRATION STAINLESS STEEL CABLE DAMPERS

2010 Edition

PWHS SERIES

HELICAL STANDARD

TECHNICAL DATA & PERFORMANCE CHARACTERISTICS

TOTAL PROTECTION FROM SHOCK AND VIBRATION

POWERFLEX PWHS SERIES

POWERFLEX "PWHS SERIES"

STAINLESS STEEL CABLE DAMPERS ARE DESIGNED TO PREFORM EFFICIENTLY WITHOUT MATERIAL OR PERFORMANCE DEGRADATION IN EXTREMELY HOSTAILE ENVIROMENTS. THEY ARE OPERATIONAL UNDER WIDE EXTREMES OF TEMPERATURE RANGES AND RESISTE CHEMICALS, OILS AND ABRASIVES.

SOME POSSIBLES APPLICATIONS ARE: SHIPBOARD NAVIGATIONAL, FIRE CONTROL AND COMMUNICATIONS EQUIPMENT, ON/OFF ROAD VEHICLES, MOTOR/GENERATOR SETS, EXTREME TEMPERATURE ENVIROMENTS, SUCH AS ENGINES COMPARTMENTS.

APPLICABLE TO MILITARY STADARDS OF: MIL-STD-167 (VIBRATION), MIL-STD-810, MIL-S-901 (SHOCK), AND OTHERS.

14 SERIES TO ACCOMODATE FROM 250 GR TO 2500 KG PER DAMPER. OTHER MANY CUSTOM VERSION ARE AVIABLE.

MAIN TYPICAL APPLICATIONS

ELECTRO/MECHANICAL

CONDITIONERS - AIR COMPRESSORS
ELECTRICAL GENERATION SETS
VENTILATORS - DRYERS - ASPIRATORS

ELECTRONIC

PRECISON INSTRUMENTS
TWO/WAY RADIAS
MONITORS - COMPUTERS
LASERS - DATA RECORDERS
TELECAMERA - SOUND SETS

MANUFACTER

NUMERICAL CONTROL EQUIPMENTS
PRESS - INDUSTRIAL COMPRESSORS
HEAT CONVECTOR - INDUSTRIAL SHAKER
TRANSPORT ROLLER

TRANSPORT

RACKS - CABINETS - SHELTER
GLASS - EXPLOSIVE
RADAR & ANTENNAES
ON-ROAD - OFF-ROAD AND
SPECIAL VEHICLES

AERONAUTICAL AEROSPACE

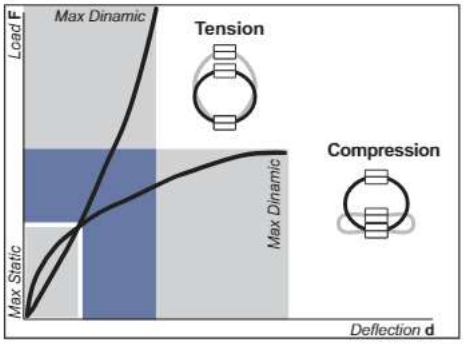
INSTRUMENTS - MECHANICAL COMPONENTS
TRANSPORT O SPECIAL COMPONENTS

MARINE

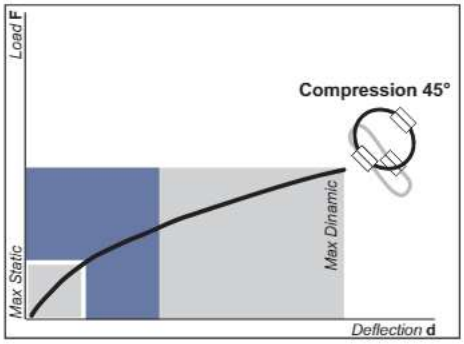
GPS - PACKAGE - ELECTRIC GENERATIONS
EXHAUSTS - MOTORS

Performances

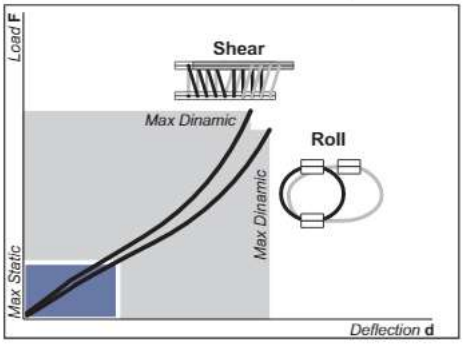
Compression and Tension



Compression/roll 45°



Shear and Roll

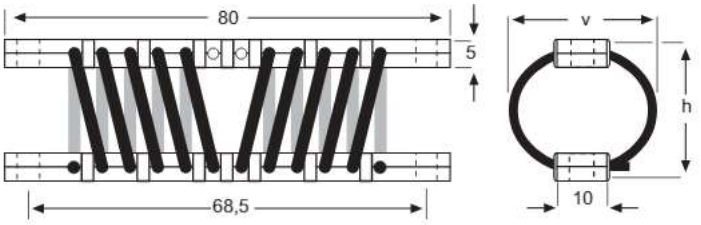


SHOCK and VIBRATION SPECIFICATIONS

Ground Forces:	MIL-STD-810, GAM EG13A, SEFT001, VG95332
Air:	MIL-E-5400, AIR 7306, MIL-C-172, MIL-STD-810
Marine:	MIL-S-167, MIL-S-901, NAV A-3001, NAV A-3002, STANAG 042, BV 043.73, BV 044, GAM EG 13C

Others Specifications: FINABEL 2C, IEC 571, DEF STAN 07-55, GAM EMB1

PWHS015 Series



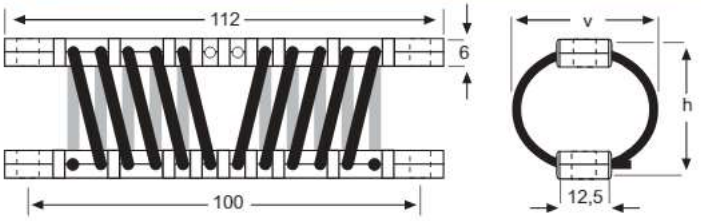
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2 mm
v ± 2 mm
Number of Loops:
(W) 10 (standard)
Fixing Holes: No. 4
Mass: 30 g to 50 g

BAR FIXING

L2: 4 Clearence Hole Ø 5
FL: 2 Countersink Hole Ø 5
2 Clearence Hole Ø 5
F2: 4 Countersink Hole Ø 5
ML: 2 Threaded Insert M4
2 Clearence Hole Ø 5
M2: 4 Threaded Insert M4
FM: 2 Countersink Hole Ø 5
2 Threaded Insert M4

PWHS024 Series



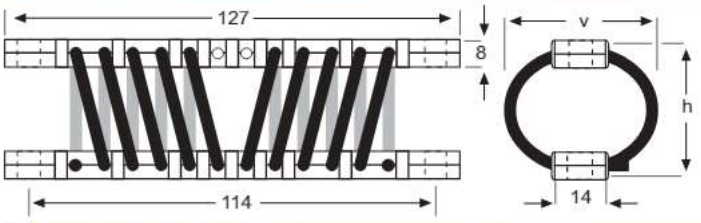
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2 mm
v ± 2 mm
Number of Loops:
(W) 10 (standard)
Fixing Holes: No. 4
Mass: 70 g to 1000 g

BAR FIXING

L2: 4 Clearence Hole Ø 6
FL: 2 Countersink Hole Ø 6
2 Clearence Hole Ø 6
F2: 4 Countersink Hole Ø 6
ML: 2 Threaded Insert M5
2 Clearence Hole Ø 6
M2: 4 Threaded Insert M5
FM: 2 Countersink Hole Ø 6
2 Threaded Insert M5

PWHS031 Series



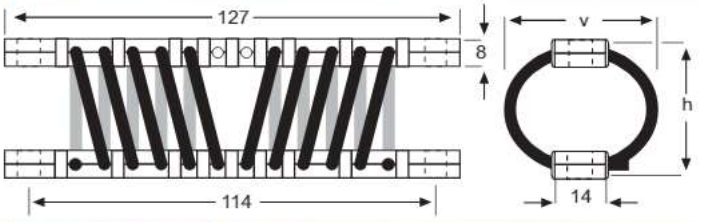
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2,5 mm
v ± 2,5 mm
Number of Loops:
(W) 10 (standard)
Fixing Holes: No. 4
Mass: 130 g to 160 g

BAR FIXING

L2: 4 Clearence Hole Ø 6
FL: 2 Countersink Hole Ø 6
2 Clearence Hole Ø 6
F2: 4 Countersink Hole Ø 6
ML: 2 Threaded Insert M5
2 Clearence Hole Ø 6
M2: 4 Threaded Insert M5
FM: 2 Countersink Hole Ø 6
2 Threaded Insert M5

PWHS035 Series



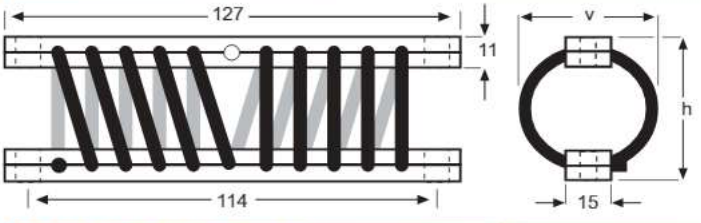
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2,5 mm
v ± 2,5 mm
Number of Loops:
(W) 10 (standard)
Fixing Holes: No. 4
Mass: 130 g to 160 g

BAR FIXING

L2: 4 Clearence Hole Ø 6
FL: 2 Countersink Hole Ø 6
2 Clearence Hole Ø 6
F2: 4 Countersink Hole Ø 6
ML: 2 Threaded Insert M5
2 Clearence Hole Ø 6
M2: 4 Threaded Insert M5
FM: 2 Countersink Hole Ø 6
2 Threaded Insert M5

PWHS048 Series



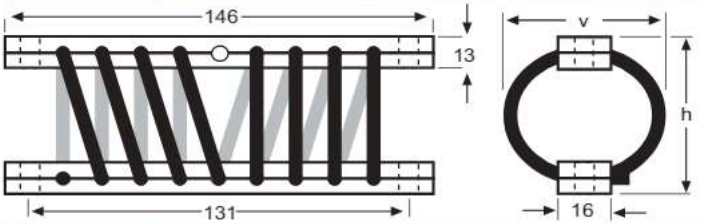
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2,5 mm
v ± 2,5 mm
Number of Loops:
(W) 10 (standard)
Fixing Holes: No. 4
Mass: 250 g to 400 g

BAR FIXING

L2: 4 Clearence Hole Ø 7
FL: 2 Countersink Hole Ø 7
2 Clearence Hole Ø 7
F2: 4 Countersink Hole Ø 7
ML: 2 Threaded Insert M6
2 Clearence Hole Ø 7
M2: 4 Threaded Insert M6
FM: 2 Countersink Hole Ø 7
2 Threaded Insert M6

PWHS063 Series



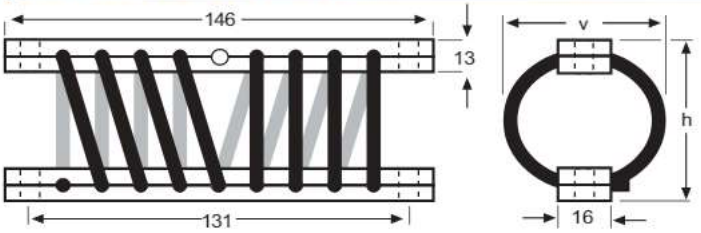
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2,5 mm
v ± 3,5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 4
Mass: 400 g to 600 g

BAR FIXING

L2: 4 Clearence Hole Ø 7
FL: 2 Countersink Hole Ø 7
2 Clearence Hole Ø 7
F2: 4 Countersink Hole Ø 7
ML: 2 Threaded Insert M6
2 Clearence Hole Ø 7
M2: 4 Threaded Insert M6
FM: 2 Countersink Hole Ø 7
2 Threaded Insert M6

PWHS080 Series



DIMENSIONS (mm)

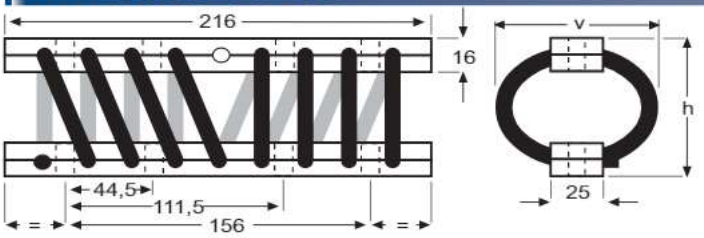
Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 2,5 mm
v ± 3,5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 4
Mass: 450 g to 700 g

BAR FIXING

L2: 4 Clearence Hole Ø 7
FL: 2 Countersink Hole Ø 7
2 Clearence Hole Ø 7
F2: 4 Countersink Hole Ø 7
ML: 2 Threaded Insert M6
2 Clearence Hole Ø 7
M2: 4 Threaded Insert M6
FM: 2 Countersink Hole Ø 7
2 Threaded Insert M6

POWERFLEX

PWHS095 Series



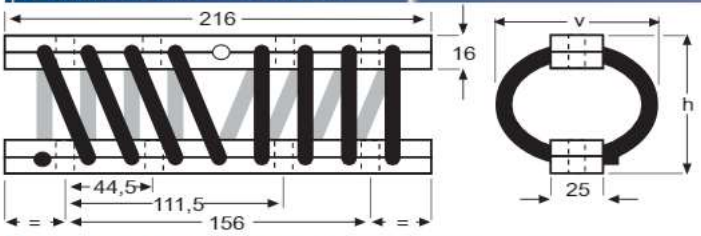
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 3,5 mm
v ± 5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 1 kg to 1,5 kg

BAR FIXING

L2: 8 Clearence Hole Ø 7
FL: 4 Countersink Hole Ø 7
4 Clearence Hole Ø 7
F2: 8 Countersink Hole Ø 7
ML: 4 Threaded Insert M6
4 Clearence Hole Ø 7
M2: 8 Threaded Insert M6
FM: 4 Countersink Hole Ø 7
4 Threaded Insert M6

PWHS110 Series



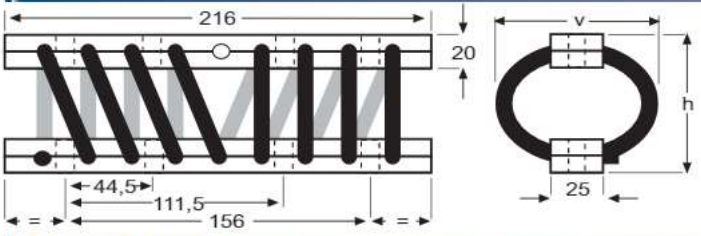
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 3,5 mm
v ± 5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 1,2 kg to 1,8 kg

BAR FIXING

L2: 8 Clearence Hole Ø 7
FL: 4 Countersink Hole Ø 7
4 Clearence Hole Ø 7
F2: 8 Countersink Hole Ø 7
ML: 4 Threaded Insert M6
4 Clearence Hole Ø 7
M2: 8 Threaded Insert M6
FM: 4 Countersink Hole Ø 7
4 Threaded Insert M6

PWHS125 Series



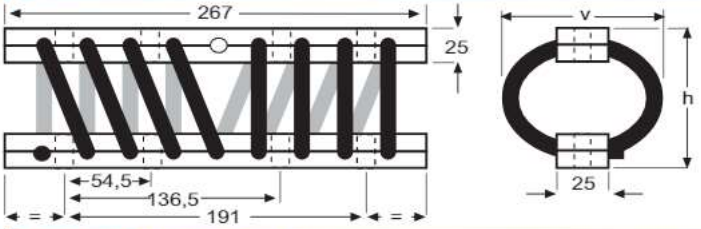
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 3,5 mm
v ± 5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 1,6 kg to 2,5 kg

BAR FIXING

L2: 8 Clearence Hole Ø 9
FL: 4 Countersink Hole Ø 9
4 Clearence Hole Ø 9
F2: 8 Countersink Hole Ø 9
ML: 4 Threaded Insert M8
4 Clearence Hole Ø 9
M2: 8 Threaded Insert M8
FM: 4 Countersink Hole Ø 9
4 Threaded Insert M8

PWHS160 Series



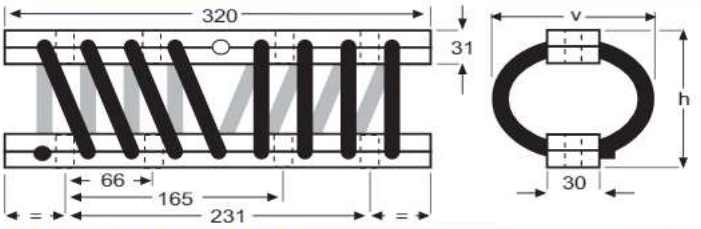
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 5 mm
v ± 5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 2 kg to 3 kg

BAR FIXING

L2: 8 Clearence Hole Ø 11
FL: 4 Countersink Hole Ø 11
4 Clearence Hole Ø 11
F2: 8 Countersink Hole Ø 11
ML: 4 Threaded Insert M10
4 Clearence Hole Ø 11
M2: 8 Threaded Insert M10
FM: 4 Countersink Hole Ø 11
4 Threaded Insert M10

PWHS190 Series



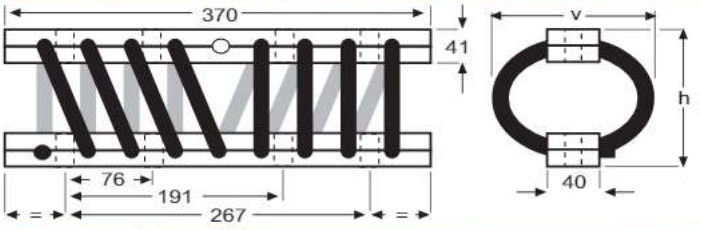
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 5 mm
v ± 5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 2 kg to 3 kg

BAR FIXING

L2: 8 Clearence Hole Ø 11
FL: 4 Countersink Hole Ø 11
4 Clearence Hole Ø 11
F2: 8 Countersink Hole Ø 11
ML: 4 Threaded Insert M10
4 Clearence Hole Ø 11
M2: 8 Threaded Insert M10
FM: 4 Countersink Hole Ø 11
4 Threaded Insert M10

PWHS220 Series



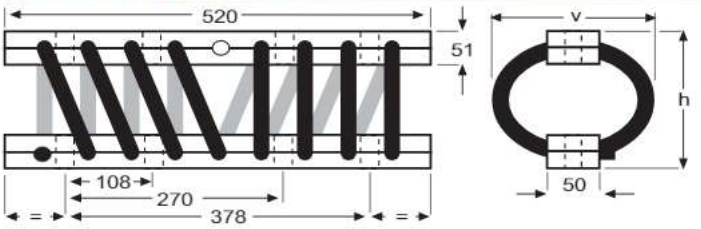
DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 5 mm
v ± 7,5 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 10 kg to 12,5 kg

BAR FIXING

L2: 8 Clearence Hole Ø 13
FL: 4 Countersink Hole Ø 13
4 Clearence Hole Ø 13
F2: 8 Countersink Hole Ø 13
ML: 4 Threaded Insert M12
4 Clearence Hole Ø 13
M2: 8 Threaded Insert M12
FM: 4 Countersink Hole Ø 13
4 Threaded Insert M12

PWHS285 Series



DIMENSIONS (mm)

Tollerances:
Holes ± 0,3 mm
Center distances ± 0,5 mm
h ± 7,5 mm
v ± 10 mm
Number of Loops:
(W) 8 (standard)
Fixing Holes: No. 8
Mass: 15 kg to 20 kg

BAR FIXING

L2: 8 Clearence Hole Ø 19
FL: 4 Countersink Hole Ø 19
4 Clearence Hole Ø 19
F2: 8 Countersink Hole Ø 19
ML: 4 Threaded Insert M18
4 Clearence Hole Ø 19
M2: 8 Threaded Insert M18
FM: 4 Countersink Hole Ø 19
4 Threaded Insert M18

PWHS015 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 01510-10	20	25	10	Max Static	daN	3.5	3.5	3.5	2.5	2.5
					mm	1.5	0.7	2.9	2.2	2.9
				Max Dinamic	daN	11.0	20.0	6.0	16.0	16.0
					mm	7.5	3.5	9.0	6.8	8.8
PWHS 01520-10	25	35	10	Max Static	daN	2.0	2.0	1.5	1.0	1.0
					mm	2.2	2.2	4.0	2.3	4.1
				Max Dinamic	daN	5.0	7.8	2.7	4.3	4.0
					mm	10.5	5.0	15.4	9.5	12.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 01530-10	35	40	10	Max Static	daN	1.5	1.5	1.0	0.8	0.8
					mm	3.7	2.5	7.0	7.0	8.5
				Max Dinamic	daN	4.0	9.8	2.5	3.0	2.8
					mm	24	8.0	35.0	14.6	20.0
PWHS 01540-10	40	45	10	Max Static	daN	1.3	1.3	0.8	0.6	0.6
					mm	4.2	2.8	7.7	7.5	9.5
				Max Dinamic	daN	3.8	8.8	2.0	2.6	2.3
					mm	27.0	10.0	40.0	17.6	22.0

PWHS024 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 02410-10	20	30	10	Max Static	daN	10.0	10.0	10.0	5.0	5.0
					mm	1.4	1.2	2.5	1.7	1.5
				Max Dinamic	daN	30.5	28.0	18.8	34.3	32.0
					mm	6.0	3.4	8.0	7.0	7.0
PWHS 02420-10	25	30	10	Max Static	daN	10.0	10.0	10.0	5.0	5.0
					mm	1.8	1.3	2.6	2.0	2.2
				Max Dinamic	daN	32.0	33.5	18.8	34.5	34.5
					mm	8.8	4.1	11.0	8.2	8.7

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 02430-10	35	40	10	Max Static	daN	5.0	5.0	3.5	3.0	3.0
					mm	2.4	1.7	4.3	4.5	6.0
				Max Dinamic	daN	13.6	24.0	7.2	17.0	11.8
					mm	15.2	7.5	23.40	14.5	15.4
PWHS 02440-10	40	45	10	Max Static	daN	4.5	4.5	3.5	2.2	2.2
					mm	4.0	2.7	7.3	6.7	8.4
				Max Dinamic	daN	13.5	34.2	8.0	10.0	10.0
					mm	24.0	10.0	36.0	15.8	20.0

PWHS031 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 03110-10	30	35	10	Max Static	daN	25.0	25.0	18.8	12.5	12.5
					mm	1.8	1.5	2.8	2.6	3.5
				Max Dinamic	daN	75.0	23.6	46.0	86.0	84.0
					mm	10	7.0	15.0	8.3	11.0
PWHS 03120-10	35	40	10	Max Static	daN	15.0	15.0	12.5	10.0	10.0
					mm	2.4	1.3	3.4	4.0	4.1
				Max Dinamic	daN	40.0	62.0	25.5	32.0	22.0
					mm	10.4	5.2	13.8	10.4	8.8

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 03130-10	40	45	10	Max Static	daN	15.0	15.0	11.0	8.0	8.0
					mm	4.4	1.9	6.0	5.7	5.6
				Max Dinamic	daN	36.0	75.0	18.0	33.0	26.3
					mm	17.2	7.0	18.2	14.3	13.5
PWHS 03140-10	45	50	10	Max Static	daN	13.8	13.8	10.5	7.0	7.0
					mm	4.3	3.0	7.5	6.4	8.5
				Max Dinamic	daN	41.5	111.0	25.0	42.0	34.0
					mm	24.0	11.0	36.0	24.4	22.0

PWHS035 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 03510-10	30	35	10	Max Static	daN	25.0	25.0	20.0	12.5	12.5
					mm	1.8	1.2	2.2	2.2	2.5
				Max Dinamic	daN	78.5	59.0	50.0	70.0	57.00
					mm	8.3	2.6	11.3	8.2	8.1
PWHS 03520-10	35	40	10	Max Static	daN	20.0	20.0	12.5	11.0	11.0
					mm	3.0	2.8	3.0	4.1	5.0
				Max Dinamic	daN	57.0	45.0	31.5	68.0	62.0
					mm	13.7	4.8	17.0	16.0	15.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 03530-10	40	45	10	Max Static	daN	15.0	15.0	10.0	10.0	10.0
					mm	2.2	1.4	2.3	4.0	4.9
				Max Dinamic	daN	43.0	125.0	27.5	82.5	41.8
					mm	11.4	7.5	18.8	18.0	14.5
PWHS 03540-10	45	50	10	Max Static	daN	10.0	10.0	7.5	5.0	5.0
					mm	2.5	1.8	3.8	4.5	4.8
				Max Dinamic	daN	29.5	42.3	19.0	40.0	41.8
					mm	15.5	6.3	25.3	18.5	20.2

PWHS048 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 04810-10	35	40	10	Max Static	daN	91.0	91.0	68.0	45.0	45.0
					mm	2.0	1.5	3.5	3.0	4.0
				Max Dinamic	daN	275.0	680.0	160.0	250.0	220.0
					mm	12.0	5.0	18.0	11.3	10.0
PWHS 04820-10	40	45	10	Max Static	daN	74.0	74.0	55.5	37.0	37.0
					mm	2.5	1.8	5.0	4.0	5.5
				Max Dinamic	daN	220.0	560.0	130.0	192.0	178.0
					mm	15.0	7.0	25.0	16.7	15.0
PWHS 04830-10	45	55	10	Max Static	daN	60.0	60.0	40.0	25.0	25.0
					mm	3.8	2.5	4.3	5.5	5.2
				Max Dinamic	daN	161.0	160.0	108.0	78.0	61.0
					mm	18.4	16.0	24.4	14.6	11.7

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 04840-10	55	65	10	Max Static	daN	40.5	40.5	30.2	20.0	20.0
					mm	5.5	3.8	9.0	7.9	10.0
				Max Dinamic	daN	122.0	337.0	72.8	115.0	104.0
					mm	30.0	15.0	45.0	30.0	28.0
PWHS 04850-10	65	75	10	Max Static	daN	25.0	25.0	18.8	12.5	12.5
					mm	6.0	5.5	10.0	8.5	11.2
				Max Dinamic	daN	74.8	285.0	47.5	100.0	88.0
					mm	32.0	29.0	48.0	44.5	41.0
PWHS 04860-10	85	95	10	Max Static	daN	20.0	20.0	12.5	6.3	6.3
					mm	11.3	5.8	12.5	10.0	10.0
				Max Dinamic	daN	55.0	85.0	25.0	28.5	29.0
					mm	54.0	20.0	65.0	40.0	40.0

DESCRIPTIONS

Standards
Cable: AISI 304 Stainless Steel
Retaining Bars: Alluminium Alloy - SurTec 650 Treatment
Clips: Stainless Steel (PWHS015 to PWHS035 Series)
Screws: A2 Stainless Steel (PWHS048 to PWHS285 Series)
Threaded Inserts: Stainless Steel

Optionals
Cable: AISI 316 Stainless Steel - Galvanized Iron
Retaining Bars: AISI 304/316 Stainless Steel
Screws: A4 Stainless Steel

CHARACTERISTICS

PWHS063 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 06310-08	50	60	8	Max Static	daN	60.0	60.0	50.0	40.0	40.0
					mm	3.0	2.1	5.5	3.5	4.5
				Max Dinamic	daN	168.0	174.0	147.0	145.0	135.0
					mm	11.4	5.6	20.0	15.0	12.5
PWHS 06320-08	60	70	8	Max Static	daN	50.0	50.0	40.0	30.0	30.0
					mm	4.1	2.3	6.3	7.3	6.7
				Max Dinamic	daN	185.0	270.0	101.0	152.0	140.0
					mm	24.3	11.2	30.0	24.4	21.5
PWHS 06330-08	70	80	8	Max Static	daN	40.0	40.0	30.0	20.0	20.0
					mm	4.3	3.0	5.0	6.8	6.1
				Max Dinamic	daN	150.0	163.0	92.0	85.0	69.0
					mm	30.0	11.9	40.0	24.3	22.9

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 06340-08	80	90	8	Max Static	daN	35.0	35.0	20.0	15.0	15.0
					mm	8.0	3.5	6.3	10.0	10.0
				Max Dinamic	daN	112.0	164.0	56.5	75.0	83.5
					mm	43.0	15.3	56.0	35.0	39.3
PWHS 06350-08	90	100	8	Max Static	daN	25.0	25.0	20.0	12.5	12.5
					mm	6.0	2.8	8.8	10.0	8.8
				Max Dinamic	daN	93.0	82.5	45.5	70.0	60.0
					mm	46.5	13.2	46.8	40.0	37.8
PWHS 06360-08	85	110	8	Max Static	daN	23.5	23.5	17.5	11.8	11.8
					mm	9.0	8.5	15.5	15.1	16.8
				Max Dinamic	daN	70.0	255.0	44.5	90.0	78.5
					mm	48.0	40.0	72.0	63.2	60.0

PWHS080 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 08010-08	50	60	8	Max Static	daN	148.0	148.0	110.0	74.0	74.0
					mm	3.0	2.5	5.0	5.0	6.0
				Max Dinamic	daN	444.0	1450.0	275.0	535.0	518.0
					mm	17.0	12.0	25.0	14.3	20.0
PWHS 08020-08	55	65	8	Max Static	daN	125.0	125.0	92.5	61.5	61.5
					mm	4.0	3.5	7.0	6.3	8.0
				Max Dinamic	daN	370.0	1155.0	230.0	413.0	385.0
					mm	23.0	15.0	35.0	21.2	25.0
PWHS 08030-08	60	70	8	Max Static	daN	100.0	100.0	75.0	50.0	50.0
					mm	5.0	4.2	8.2	8.1	9.5
				Max Dinamic	daN	300.0	981.0	186.0	347.0	323.0
					mm	27.0	20.0	41.0	26.4	30.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 08040-08	65	80	8	Max Static	daN	80.0	80.0	60.0	40.0	40.0
					mm	5.8	5.2	9.5	9.3	10.8
				Max Dinamic	daN	240.0	850.0	150.0	291.0	273.0
					mm	30.0	25.0	47.0	33.6	37.0
PWHS 08050-08	70	100	8	Max Static	daN	51.5	51.5	38.5	25.8	2.5
					mm	6.5	6.2	10.5	10.2	2.9
				Max Dinamic	daN	155.0	735.0	102.0	240.0	225.0
					mm	34.0	45.0	50.0	52.7	55.0
PWHS 08060-08	80	110	8	Max Static	daN	50.0	50.0	37.5	2.5	2.5
					mm	9.0	8.2	15.5	2.2	2.9
				Max Dinamic	daN	150.0	542.0	95.0	187.0	165.0
					mm	48.0	40.0	72.0	56.3	58.0

PWHS095 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 09510-08	75	90	8	Max Static	daN	115.0	115.0	100.0	75.0	75.0
					mm	5.0	1.5	7.5	8.2	11.0
				Max Dinamic	daN	500.0	800.0	255.0	240.0	345.0
					mm	35.8	6.7	41.0	22.0	30.5
PWHS 09520-08	90	110	8	Max Static	daN	90.0	90.0	75.0	50.0	50.0
					mm	5.0	3.0	10.0	9.5	10.0
				Max Dinamic	daN	335.0	170.0	185.0	240.0	212.5
					mm	35.0	6.3	54.5	33.0	33.0
PWHS 09530-08	100	115	8	Max Static	daN	87.5	87.5	50.0	40.0	40.0
					mm	10.0	5.8	9.3	13.0	13.0
				Max Dinamic	daN	307.5	270.0	157.0	156.0	142.0
					mm	58.0	16.9	63.5	38.8	40.5

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 09540-08	110	135	8	Max Static	daN	75.0	75.0	40.0	35.0	35.0
					mm	11.0	2.0	9.0	12.5	16.3
				Max Dinamic	daN	283.0	360.0	133.0	232.5	187.5
					mm	75.0	47.5	88.0	62.5	63.5
PWHS 09550-08	125	145	8	Max Static	daN	56.0	56.0	40.0	28.0	28.0
					mm	14.5	10.0	26.0	26.0	28.8
				Max Dinamic	daN	168.0	442.0	100.0	142.0	127.0
					mm	82.0	35.0	122.0	66.5	72.0
PWHS 09560-08	135	155	8	Max Static	daN	50.0	50.0	37.5	25.0	25.0
					mm	16.0	11.0	29.0	30.0	32.0
				Max Dinamic	daN	150.0	395.0	90.0	130.0	112.0
					mm	90.0	40.0	137.0	77.1	80.0

PWHS110 Series

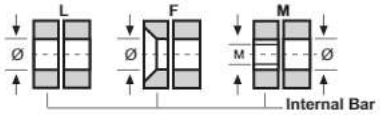
P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 11010-08	75	90	8	Max Static	daN	295.0	295.0	220.0	148.0	148.0
					mm	7.0	5.0	11.5	9.1	13.0
				Max Dinamic	daN	880.0	2430.0	530.0	820.0	760.0
					mm	37.0	20.0	55.0	28.4	35.0
PWHS 11020-08	90	110	8	Max Static	daN	215.0	215.0	160.0	108.0	108.0
					mm	9.0	6.5	16.0	15.1	17.5
				Max Dinamic	daN	640.0	1790.0	385.0	581.0	540.0
					mm	50.0	28.0	75.0	42.6	47.0
PWHS 11030-08	105	125	8	Max Static	daN	178.0	178.0	134.0	89.0	89.0
					mm	11.5	8.0	21.0	20.0	23.0
				Max Dinamic	daN	530.0	1398.0	315.0	438.0	408.0
					mm	65.0	30.0	98.0	54.3	58.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	≷
PWHS 11040-08	110	145	8	Max Static	daN	135.0	135.0	100.0	67.0	67.0
					mm	12.5	10.0	22.5	22.1	24.0
				Max Dinamic	daN	400.0	1255.0	250.0	417.0	375.0
					mm	68.0	45.0	102.0	67.3	70.0
PWHS 11050-08	125	145	8	Max Static	daN	135.0	135.0	102.0	67.5	67.5
					mm	15.0	10.0	27.0	25.1	29.0
				Max Dinamic	daN	405.0	1070.0	240.0	336.0	308.0
					mm	82.0	40.0	125.0	73.0	75.0
PWHS 11060-08	135	155	8	Max Static	daN	120.0	120.0	90.0	61.0	61.0
					mm	11.0	11.0	30.0	30.1	32.0
				Max Dinamic	daN	362.0	955.0	215.0	290.0	272.0
					mm	90.0	40.0	140.0	78.2	80.0

CHARACTERISTICS

Quality Factor: <3
Equivalent Viscous Critical Damping Ratio: 0,10 to 0,20
Working Frequencies: Depend on Weight and Input level
Working Configuration: Every ortogonal direction
Operating Temperature: -180 C to +300 C

BAR FIXING



PWHS125 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 12510-08	75	90	8	Max Static	daN	350.0	350.0	300.0	125.0	125.0
					mm	6.6	3.7	10.0	4.8	5.2
				Max Dinamic	daN	1040.0	1300.0	775.0	665.0	385.0
					mm	25.0	10.3	43.0	18.4	15.4
PWHS 12520-08	90	105	8	Max Static	daN	300.0	300.0	200.0	125.0	125.0
					mm	8.3	5.0	8.8	8.3	10.4
				Max Dinamic	daN	1220.0	1700.0	485.0	530.0	275.0
					mm	53.0	18.3	40.0	27.5	21.7
PWHS 12530-08	95	120	8	Max Static	daN	250.0	250.0	175.0	112.5	112.5
					mm	10.0	5.0	10.8	9.0	10.3
				Max Dinamic	daN	745.0	750.0	375.0	310.0	165.0
					mm	40.0	14.0	39.5	20.7	15.5

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 12540-08	125	145	8	Max Static	daN	235.0	235.0	175.0	110.0	110.0
					mm	13.5	9.0	25.0	23.1	25.0
				Max Dinamic	daN	710.0	475.0	425.0	650.0	560.0
					mm	75.0	23.0	115.0	70.0	65.0
PWHS 12550-08	135	155	8	Max Static	daN	205.0	205.0	155.0	100.0	100.0
					mm	15.5	10.5	28.0	8.0	30.0
				Max Dinamic	daN	615.0	1650.0	370.0	530.0	480.0
					mm	85.0	40.0	130.0	82.0	78.0
PWHS 12560-08	110	150	8	Max Static	daN	175.0	175.0	125.0	70.0	70.0
					mm	17.5	9.0	16.3	12.0	11.5
				Max Dinamic	daN	550.0	475.0	255.0	225.0	138.0
					mm	70.0	23.0	52.5	38.5	24.8

PWHS160 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 16010-08	100	110	8	Max Static	daN	500.0	500.0	450.0	250.0	250.0
					mm	5.8	2.5	7.5	6.0	9.0
				Max Dinamic	daN	1290.0	3375.0	1100.0	665.0	430.0
					mm	21.3	15.0	35.0	18.0	18.0
PWHS 16020-08	100	125	8	Max Static	daN	500.0	500.0	400.0	250.0	250.0
					mm	7.5	4.5	10.0	8.0	9.3
				Max Dinamic	daN	2125.0	2875.0	1020.0	550.0	835.0
					mm	51.0	20.5	50.0	21.7	30.0
PWHS 16030-08	110	135	8	Max Static	daN	450.0	450.0	350.0	225.0	225.0
					mm	10.0	8.3	12.5	11.0	13.8
				Max Dinamic	daN	1330.0	1710.0	810.0	600.0	778.0
					mm	43.0	25.0	51.0	32.5	40.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 16040-08	125	150	8	Max Static	daN	420.0	420.0	315.0	210.0	210.0
					mm	11.0	10.0	19.0	19.1	20.5
				Max Dinamic	daN	1262.0	4398.0	795.0	1550.0	1440.0
					mm	60.0	48.0	90.0	78.2	70.0
PWHS 16050-08	135	180	8	Max Static	daN	320.0	320.0	242.0	162.0	162.0
					mm	13.5	12.5	24.5	24.7	26.0
				Max Dinamic	daN	970.0	3500.0	615.0	1150.0	1090.0
					mm	75.0	62.0	110.0	99.0	90.0
PWHS 16060-08	145	185	8	Max Static	daN	310.0	310.0	235.0	155.0	155.0
					mm	15.5	13.5	28.0	27.1	29.0
				Max Dinamic	daN	935.0	3120.0	585.0	1010.0	965.0
					mm	85.0	62.0	125.0	103.0	95.0

PWHS190 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 19010-08	105	125	8	Max Static	daN	1000.0	1.000	748.0	500.0	500.0
					mm	7.0	6.0	12.5	12.0	13.5
				Max Dinamic	daN	2990.0	9665.0	1855.0	3463.0	3350.0
					mm	40.0	28.0	60.0	31.0	42.0
PWHS 19020-08	125	160	8	Max Static	daN	640.0	640.0	480.0	320.0	320.0
					mm	10.5	9.5	19.0	19.0	20.5
				Max Dinamic	daN	1920.0	6750.0	1208.0	2272.0	2195.0
					mm	58.0	47.0	90.0	60.0	68.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 19030-08	145	185	8	Max Static	daN	510.0	510.0	385.0	255.0	255.0
					mm	14.0	12.5	25.5	25.0	26.5
				Max Dinamic	daN	1530.0	5230.0	960.0	1695.0	1642.0
					mm	75.0	60.0	115.0	82.0	90.0
PWHS 19040-08	175	215	8	Max Static	daN	410.0	410.0	310.0	205.0	205.0
					mm	19.0	15.5	35.0	33.0	35.0
				Max Dinamic	daN	1235.0	3900.0	760.0	1250.0	1190.0
					mm	105.0	68.0	155.0	103.0	110.0

PWHS220 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 22010-08	150	185	8	Max Static	daN	1000.0	1000.0	750.0	300.0	300.0
					mm	9.0	8.8	11.5	6.0	5.8
				Max Dinamic	daN	2875.0	3375.0	1750.0	800.0	1030.0
					mm	55.0	29.0	57.0	24.4	36.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 22030-08	160	195	8	Max Static	daN	1000.0	1000.0	500.0	400.0	400.0
					mm	13.8	10.0	12.5	13.8	14.0
				Max Dinamic	daN	2600.0	3600.0	1390.0	1100.0	1500.0
					mm	64.5	40.0	55.0	50.0	60.0

PWHS285 Series

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 28510-08	185	210	8	Max Static	daN	1850.0	1850.0	1380.0	920.0	920.0
					mm	13.0	11.0	23.0	22.6	24.0
				Max Dinamic	daN	5530.0	18770.0	3460.0	6650.0	6500.0
					mm	70.0	52.0	10.0	66.0	77.0

P/Number	h	v	W	F		▼	▲	▲45	▲▼	▶◀
PWHS 28520-08	215	240	8	Max Static	daN	1620.0	1620.0	1215.0	810.0	810.0
					mm	20.0	13.5	35.0	34.1	36.0
				Max Dinamic	daN	4860.0	13580.0	2925.0	4390.0	4280.0
					mm	105.0	53.0	155.0	86.0	95.0

REFERENCES

For Example, Part Number:

PWHS22010-08M2
- PWHS — Series
- 22 — Type
- 01 — Number of Loops (W)
- 08 — Bar Fixing
- M2

IDENTIFICATIONS

Internal Bar Marking:

POWERFLEX
DAMPING SYSTEM ENGINEERING

Powerflex Srl

6 VIA CAMPITIELLO

82030 LIMATOLA (BN)

ITALY

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E info@powerflex.it

SINCERT

CERMET

REG. N. 3344-A
UNI EN ISO 9001:2000

TOTAL PROTECTION FROM SHOCK AND VIBRATION

Mod. 10/001 Depliant PWHS 01/10

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