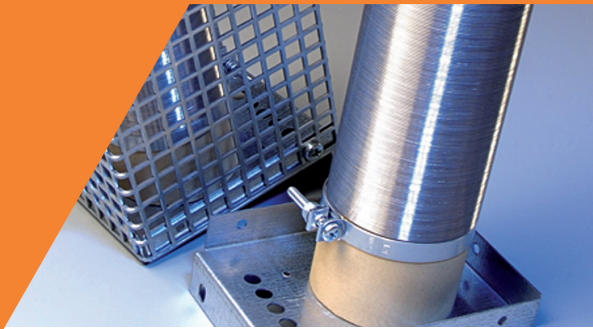


Wärtsilä JOVYLOAD WW

PRODUCT LEAFLET



Tube resistors of the type Wärtsilä JOVYLOAD WW are primarily applied in the range of brake resistors. They can be overloaded for short periods and can withstand high pulse loads. The tube resistors have a low temperature coefficient enabling high accuracy of the resistance values. The project planning and manufacturing of the tube resistors Wärtsilä JOVYLOAD WW is customised according to clients' requirements – we offer the optimal solution for any application, even for smaller quantities.

PARTICULARLY SUITED FOR PULSE LOADS

Resistors of the type Wärtsilä JOVYLOAD WW are wound-wire resistors of copper nickel CuNi44 on a ceramic tube. The housing is made of galvanised sheet steel. Connecting cables, terminal boxes or adjustable clips are optional items. The temperature rise during operation is calculated with the help of a simulation model in order to be able to adjust the tube resistors of the Wärtsilä JOVYLOAD WW series optimally to the impulse load. This enables us to best define the resistance for any impulse shape required by our customers. For higher loads further tube resistors

modules can be combined resulting in manifold application options for such types of resistors.

WIDE RANGE OF APPLICATION

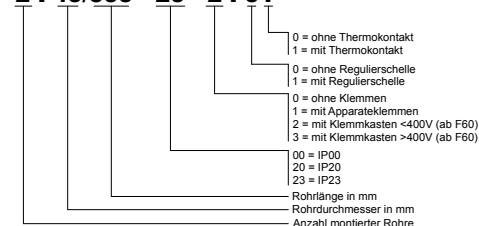
Wärtsilä JOVYLOAD WW resistors are applied as brake resistors/chopper resistors for frequency converters, as load resistors for transducers or as series resistors or limiting resistors. They deliver reliable service also as load resistors or testing resistors for test facilities and service segments or as damping/filter resistors.

MATERIAL:

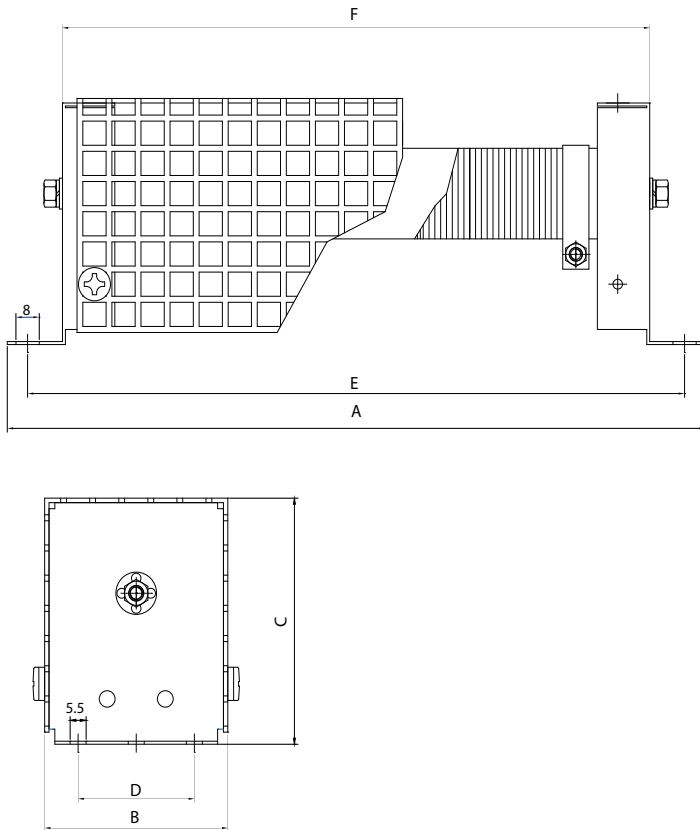
Ceramic Ø 16/30/40/60 mm, Pryrostat C511
Resistance wire Ø 0,1 - 3,3 mm, CuNi44 /CrNi30/20
Housing: side elements - steel, galvanised
Protection grid: steel, galvanised
Wiring: silicone-insulated
Resistance tolerance: standard ±10%

TYPE DEFINITION:

2 F40/600 - 20 - 2 . 01



Type	Permanent load [W]	Resistance value [Ω]	Current [A]	Type	Permanent load [W]	Resistance value [Ω]	Current [A]
1 F 16 / 70	ca. 15	1,0 - 2000	0,08 - 4	1 F 40 / 160	ca. 110	0,26 - 5560	0,14 - 25
1 F 16 / 95	ca. 22	1,4 - 3000	0,08 - 4	1 F 40 / 200	ca. 150	0,35 - 7420	0,14 - 25
1 F 30 / 100	ca. 45	0,22 - 4200	0,1 - 16	1 F 40 / 300	ca. 240	0,57 - 12100	0,14 - 25
1 F 30 / 120	ca. 60	0,28 - 4200	0,1 - 16	1 F 40 / 400	ca. 330	0,79 - 16700	0,14 - 25
1 F 30 / 150	ca. 80	0,39 - 7200	0,1 - 16	1 F 60 / 300	ca. 330	0,86 - 18100	0,14 - 25
1 F 30 / 180	ca. 100	0,49 - 9000	0,1 - 16	1 F 60 / 400	ca. 500	1,19 - 25000	0,14 - 25
1 F 30 / 200	ca. 110	0,56 - 10200	0,1 - 16	1 F 60 / 500	ca. 650	1,52 - 32000	0,14 - 25
1 F 40 / 120	ca. 75	0,17 - 3700	0,14 - 25	1 F 60 / 600	1000	1,85 - 39000	0,14 - 25

Tab.1 Dimensions Wärtsilä JOVYLOAD WW


- **HIGH PULSE LOADS POSSIBLE**
- **SHORT-TERM OVERLOAD CAPACITY**
- **LOW TEMPERATURE COEFFICIENT**
guarantees high accuracy of resistance values
- **ADJUSTABLE TAP CLAMPS**
- **LOW NOISE OPERATION**
- **GALVANISED HOUSING**
- **PROTECTION CLASS IP00/IP20**

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Diameter [mm]	Weight [kg]
1 F 16 / 70	112	20	39	/	94	73	4,8	0,052
1 F 16 / 95	137	20	39	/	119	98	4,8	0,065
1 F 30 / 100	140	63	82	40	126	102	5,5 x 8	0,18
1 F 30 / 120	160	63	82	40	146	122	5,5 x 8	0,21
1 F 30 / 150	190	63	82	40	176	152	5,5 x 8	0,24
1 F 30 / 180	220	63	82	40	206	182	5,5 x 8	0,28
1 F 30 / 200	240	63	82	40	226	202	5,5 x 8	0,3
1 F 40 / 120	160	73	92	48	146	122	5,5 x 8	0,47
1 F 40 / 160	200	73	92	48	186	162	5,5 x 8	0,6
1 F 40 / 200	240	73	92	48	226	202	5,5 x 8	0,7
1 F 40 / 300	340	73	92	48	326	302	5,5 x 8	1
1 F 40 / 400	440	73	92	48	426	402	5,5 x 8	1,3
1 F 60 / 300	340	93	112	64	326	302	5,5 x 8	1,6
1 F 60 / 400	440	93	112	64	426	402	5,5 x 8	2
1 F 60 / 500	540	93	112	64	526	502	5,5 x 8	2,5
1 F 60 / 600	640	93	112	64	626	602	5,5 x 8	2,7

Fig.1 Wärtsilä JOVYLOAD WW
