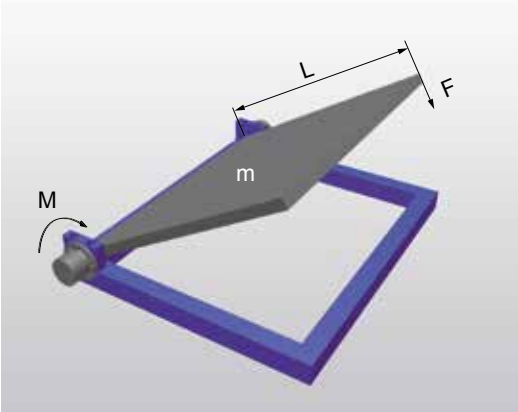
Rotary Dampers high-torque range
WRD-H

FEATURES

- Controlled damping with rotary movements
- High torques up to 700 Nm (6196 in lbs)
- Damping: Both sides, clockwise and anti-clockwise
- Adjustable from WRD 2515
- Fixed setting up to WRD 2010
- Material: Aluminium, steel
- Temperatur range: -10°C - +60°C (14°F - +140°F)
- Special solutions possible with small piece counts
- RoHS - conform - Directive 2002/95/EC



Example	Formula & Calculation	Selection
m = 50,0 kg L = 0,30 m	M = g x m x L/2 = 73,58 Nm	**WRD-H 6030R**
F = 200,0 N L = 0,10 m	M = F x L = 20 Nm	**WRD-H 4025R**

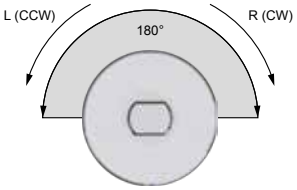
m	(kg)	Mass	**M**	(Nm)	Torque
L	(m)	Lenght	**g**	(m/s^2)	Accerelation due to gravity (9.81 m/s^2)
F	(N)	Force			

PRODUCT OVERVIEW

Clockwise	Anti-clockwise	Clockwise and anticlockwise	Torque	Opening angle	Weight
			Nm (in lbs)	°	g (oz)
WRD-H 0607-R	WRD-H 0607-L	WRD-H 0607-C	0,08 (0.71)	180	4 (0.141)
WRD-H 0805-R	WRD-H 0805-L	WRD-H 0805-C	0,2 (1.77)	180	5 (0.176)
WRD-H 1208-R	WRD-H 1208-L	WRD-H 1208-C	1,1 (9.74)	180	14 (0.494)
WRD-H 1610-R	WRD-H 1610-L	WRD-H 1610-C	2,6 (23.01)	180	22 (0.776)
WRD-H 2010-R	WRD-H 2010-L	WRD-H 2010-C	3,5 (30.98)	180	27 (0.952)
WRD-H 2515-R	WRD-H 2515-L	WRD-H 2515-C	10 (88.5)	180	80 (2.822)
WRD-H 3015-R	WRD-H 3015-L	WRD-H 3015-C	14 (123.9)	180	107 (3.774)
WRD-H 4025-R	WRD-H 4025-L	WRD-H 4025-C	40 (354.0)	180	352 (12.416)
WRD-H 6030-R	WRD-H 6030-L	WRD-H 6030-C	110 (973.6)	180	767 (27.055)
WRD-H 7550-R	WRD-H 7550-L	WRD-H 7550-C	250 (2213)	180	4500 (158.733)
WRD-H 9565-R	WRD-H 9565-L	WRD-H 9565-C	500 (4425)	180	10000 (352.740)
WRD-H 12070-R	WRD-H 12070-L	WRD-H 12070-C	700 (6196)	180	17400 (613.767)

WRD-H 0607 / 0805 / 1208 / 1610 / 2010

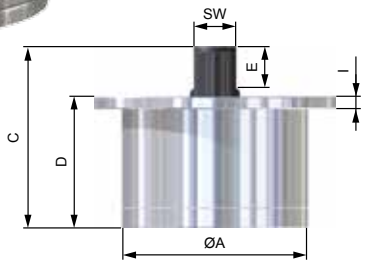
R (CW)*	L (CCW)*	C*	M* (Nm / in lbs)	Material*
WRD-H 0607-R	WRD-H 0607-L	WRD-H 0607-C	0,08 (0.71)	Aluminum / Steel
WRD-H 0805-R	WRD-H 0805-L	WRD-H 0805-C	0,2 (1.77)	
WRD-H 1208-R	WRD-H 1208-L	WRD-H 1208-C	1,1 (9.74)	
WRD-H 1610-R	WRD-H 1610-L	WRD-H 1610-C	2,6 (23.01)	
WRD-H 2010-R	WRD-H 2010-L	WRD-H 2010-C	3,5 (30.98)	

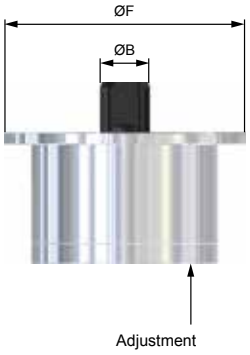


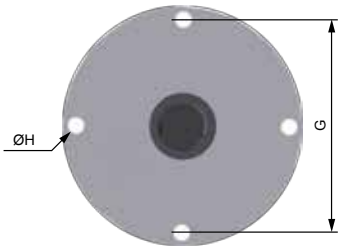
	ØA	ØB	C	D	E	F	SW	SW1
WRD-H 0607	9 (0.35)	3 (0.12)	18,7 (0.74)	13,0 (0.51)	4 (0.16)	2 (0.08)	2,6 (0.10)	8 (0.31)
WRD-H 0805	12 (0.47)	4 (0.16)	17.2 (0.68)	11.5 (0.45)	5 (0.2)	3 (0.12)	3 (0.12)	11 (0.43)
WRD-H 1208	18 (0.71)	5 (0.2)	20.6 (0.81)	15.5 (0.61)	5 (0.2)	3 (0.12)	4 (0.16)	15 (0.59)
WRD-H 1610	21 (0.83)	6 (0.24)	26 (1.02)	19 (0.75)	10 (0.39)	6 (0.24)	4 (0.16)	18 (0.71)
WRD-H 2010	24 (0.94)	6 (0.24)	25 (0.98)	18 (0.71)	10 (0.39)	6 (0.24)	4 (0.16)	22 (0.87)

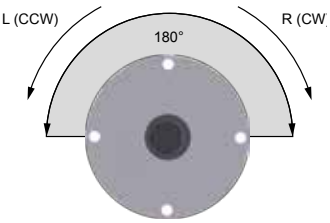
WRD-H 2515 / 3015 / 4025 / 6030

R (CW)*	L (CCW)*	C*	M* (Nm / in lbs)	Material*
WRD-H 2515-R	WRD-H 2515-L	WRD-H 2515-C	10 (88.5)	Aluminum / Steel
WRD-H 3015-R	WRD-H 3015-L	WRD-H 3015-C	14 (123.9)	
WRD-H 4025-R	WRD-H 4025-L	WRD-H 4025-C	40 (354.0)	
WRD-H 6030-R	WRD-H 6030-L	WRD-H 6030-C	110 (973.6)	









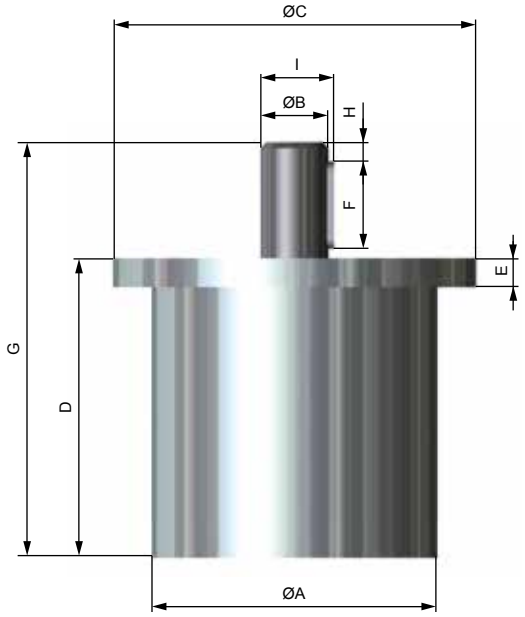
	ØA	ØB	C	D	E	ØF	G	ØH	SW	I
WRD-H 2515	32 (1.26)	7 (0.28)	39,8 (1.57)	30 (1.18)	9 (0.35)	47 (1.85)	40 (1.57)	4,1 (0.16)	5 (0.2)	5 (0.2)
WRD-H 3015	38 (1.5)	8 (0.31)	39 (1.54)	29 (1.14)	9 (0.35)	56 (2.2)	47,5 (1.87)	5,1 (0.2)	6 (0.24)	5 (0.2)
WRD-H 4025	55 (2.17)	10 (0.39)	59 (2.32)	45 (1.77)	14 (0.55)	77 (3.03)	66 (2.6)	6,6 (0.26)	8 (0.31)	10 (0.39)
WRD-H 6030	75 (2.95)	20 (0.79)	73 (2.87)	53 (2.09)	16,6 (0.65)	97 (3.82)	86 (3.39)	6,6 (0.26)	17 (0.67)	5 (0.2)

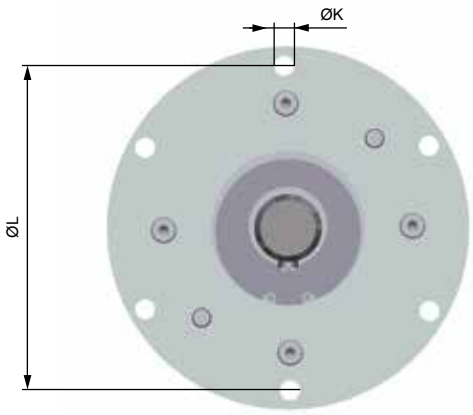
* **R (CW):** Clockwise
L (CCW): Anti-clockwise
C: Clockwise and anti-clockwise
M: Torque
Material

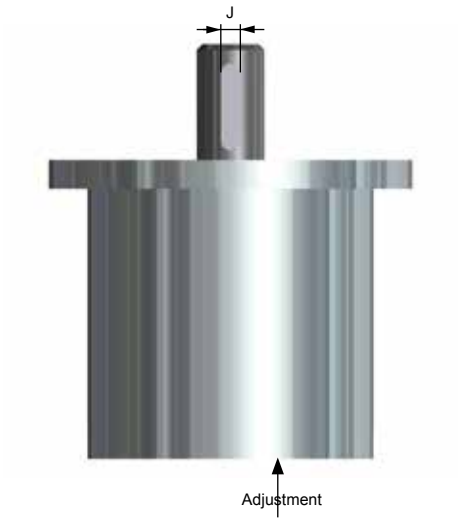
WRD-H 7550 / 9565 / 12070

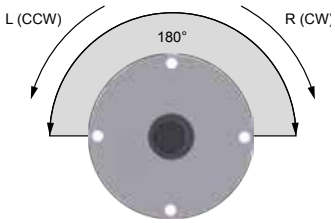
R (CW)*	L (CCW)*	C*	M* (Nm / in lbs)	Material*
WRD-H 7550-R	WRD-H 7550-L	WRD-H 7550-C	250 (2213)	Steel
WRD-H 9565-R	WRD-H 9565-L	WRD-H 9565-C	500 (4425)	
WRD-H 12070-R	WRD-H 12070-L	WRD-H 12070-C	700 (6196)	

	ØA	ØB	ØC	D	E	F	G	H	I	J	ØK	L	X
WRD-H 7550	90 (3.54)	25 (0.98)	130 (5.12)	100 (3.94)	10 (0.39)	25 (0.98)	140 (5.51)	6,4 (0.25)	8 (0.31)	28 (1.1)	8,2 (0.32)	110 (4.33)	6 (0.24)
WRD-H 9565	120 (4.72)	30 (1.18)	155 (6.1)	125 (4.92)	15 (0.59)	32 (1.26)	175 (6.89)	9 (0.35)	10 (0.39)	33 (1.3)	8,2 (0.32)	137,5 (5.41)	6 (0.24)
WRD-H 12070	148 (5.83)	35 (1.38)	188 (7.4)	155 (6.1)	15 (0.59)	45 (1.77)	215 (8.46)	10 (0.39)	10 (0.39)	38 (1.5)	10,5 (0.41)	168 (6.61)	4 (0.24)









* **R (CW):** Clockwise
L (CCW): Anti-clockwise
C: Clockwise and anti-clockwise
M: Torque
Material

Stainless Steel Rotary Dampers
WRD-H

FEATURES

› Material: Housing Stainless steel V2A / DIN 1.4305 / AISI 303
› Piston rod: DIN 1.4125 / AISI 440C
› Corrosion resistance in wet environments
› Solid housing
› Quick delivery times
› Special model available
› Temperatur range: -10°C - +60°C (14°F - +140°F)
› Special oils: Food-grade according to USDA-H1

Applications:
› Food industry, Outside machinery

Clockwise	Anti-clockwise	Clockwise and anti-clockwise	Torque	Page
			Nm (in lbs)	
WRD-H 0607-R-VA	WRD-H 0607-L-VA	WRD-H 0607-C-VA	0,08 (0.71)	178
WRD-H 0805-R-VA	WRD-H 0805-L-VA	WRD-H 0805-C-VA	0,2 (1.77)	178
WRD-H 1208-R-VA	WRD-H 1208-L-VA	WRD-H 1208-C-VA	1,1 (9.74)	178
WRD-H 1610-R-VA	WRD-H 1610-L-VA	WRD-H 1610-C-VA	2,6 (23.01)	178
WRD-H 2010-R-VA	WRD-H 2010-L-VA	WRD-H 2010-C-VA	3,5 (30.98)	178
WRD-H 2515-R-VA	WRD-H 2515-L-VA	WRD-H 2515-C-VA	10 (88.5)	179
WRD-H 3015-R-VA	WRD-H 3015-L-VA	WRD-H 3015-C-VA	14 (123.9)	179
WRD-H 4025-R-VA	WRD-H 4025-L-VA	WRD-H 4025-C-VA	40 (354.0)	179
WRD-H 6030-R-VA	WRD-H 6030-L-VA	WRD-H 6030-C-VA	110 (973.6)	179
WRD-H 7550-R-VA	WRD-H 7550-L-VA	WRD-H 7550-C-VA	250 (2213)	179
WRD-H 9565-R-VA	WRD-H 9565-L-VA	WRD-H 9565-C-VA	500 (4425)	179
WRD-H 12070-R-VA	WRD-H 12070-L-VA	WRD-H 12070-C-VA	700 (6196)	179