Weforma

Rotary Dampers

with high-torque range

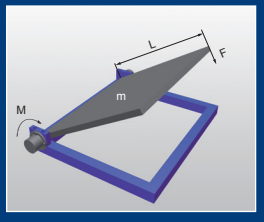
WRD-H 2515

WRD-H 3015

WRD-H 4025

WRD-H 6030

ONLINE
CALCULATION AND
2D / 3D CAD DOWNLOAD



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Deceleration Technology

06.6.2018

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Benefits

Material:
- Aluminium and steel

Applications:
- Mechanical and plant engineering
- Vendingmachines, Counters
- Car industry and sanitary industry

RoHS-conform:
- Directive 2002/95/EC

Temperature:
- Standard: -10°C - +60°C

Deceleration:
- Controlled damping with rotary movements
- Torques up to 700 Nm
- Both sides, Right-turning and left-turning
- Adjustable

Special models:
Stainless steel VA:
- Housing Stainless steel
  V2A / DIN 1.4305 / AISI 303
- Piston rod DIN 1.4125 / AISI 440C
  Applications:
- Food industry, Outside machinery,
  Medical technology

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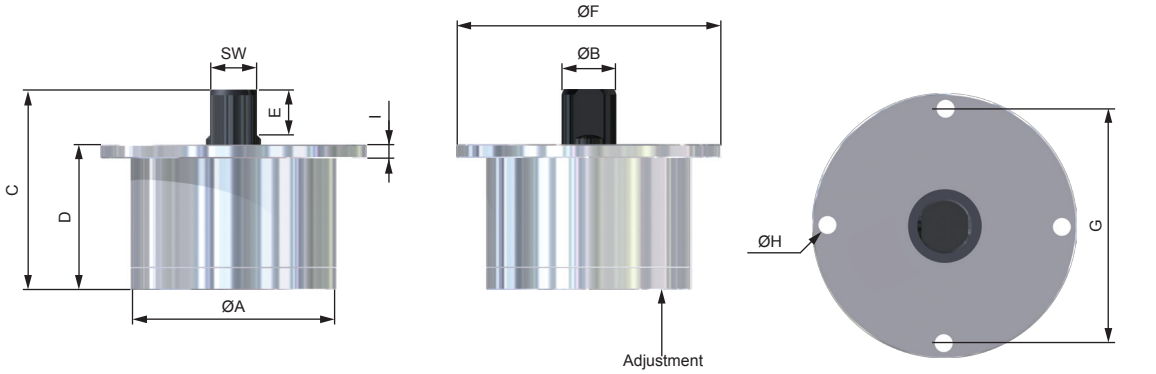
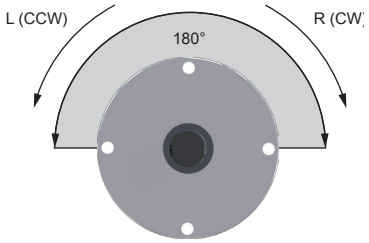
R (CW)*	L (CCW)*	C*	M* (Nm)	Material*
WRD-H 2515-R	WRD-H 2515-L	WRD-H 2515-C	10	Aluminium / Steel
WRD-H 3015-R	WRD-H 3015-L	WRD-H 3015-C	14	
WRD-H 4025-R	WRD-H 4025-L	WRD-H 4025-C	40	
WRD-H 6030-R	WRD-H 6030-L	WRD-H 6030-C	110	



	ØA	ØB	C	D	E	ØF	G	ØH	SW	I
WRD-H 2515	32	7 h7	39,8	30	9,0	47	40,0	4,1	5	5
WRD-H 3015	38	8 h7	39,0	29	9,0	56	47,5	5,1	6	5
WRD-H 4025	55	10 f7	59,0	45	14,0	77	66,0	6,6	8	10
WRD-H 6030	75	20 f7	73,0	53	16,6	97	86,0	6,6	17	5



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

Stainless steel

Clockwise	Anti-clockwise	Clockwise and anti-clockwise	**Torque**
			Nm
WRD-H 2515-R-VA	WRD-H 2515-L-VA	WRD-H 2515-C-VA	10
WRD-H 3015-R-VA	WRD-H 3015-L-VA	WRD-H 3015-C-VA	14
WRD-H 4025-R-VA	WRD-H 4025-L-VA	WRD-H 4025-C-VA	40
WRD-H 6030-R-VA	WRD-H 6030-L-VA	WRD-H 6030-C-VA	110

TORQUE

Clockwise	Anti-clockwise	Clockwise and anti-clockwise	Torque	Opening angle	Weight
			Nm	°	g
WRD-H 2515-R	WRD-H 2515-L	WRD-H 2515-C	10	180	80
WRD-H 3015-R	WRD-H 3015-L	WRD-H 3015-C	14	180	107
WRD-H 4025-R	WRD-H 4025-L	WRD-H 4025-C	40	180	352
WRD-H 6030-R	WRD-H 6030-L	WRD-H 6030-C	110	180	767

Idle: At the beginning of the deceleration max. 5°

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Important Information

Rotary dampers can not be used as end stop; external stop must be provided before the end of the stroke.

Temperature

WRD-H: -10 ºC - +60 ºC

Reference temperature for all technical information:20°C
At a higher temperatures the energy absorption or torque is reduced.

Fix the rotary damper at the intended bores and flats. It is not allowed to loaded rotary dampers in a static way or to fix them by welding.
Rotary damper can not be used with agressive fluids.Exception WRD-H...VA

Adjustment

If the mass in a trial run impacts excessively hard on the end position select the next model with higher torque for the series
Rotary dampers of the series WRD-H 2515, 3015, 4025 and 6030 are adjustable. If the damping is not sufficient, increase the damping continously by rotating the adjustment to „+“.
If the mass don´t reach the end position or the time is to long, decrease the damping continously by rotating the adjustment to „-“. If the adjustment
is not sufficient in an end position contact Weforma.

Rotary dampers should under no circumstance be loaded over the damping angle mentioned in the catalogue.

Fundamentals

Rotary dampers may under no circumstances be:

-painted -welded -held with clamps



The products must be protected against contamination, fluids and air pressure. We offer special solutions for these applications. When rotary dampers are used parallel the size of the model and the used degree of hardness / used adjustment has to be the same. The load has to be distributed equally. When a shock absorber is used for an emergency case, an external end stop must be provided. If the absorption should be insufficient, please contact Weforma or the respective representation. You will find further technical informations to the series in our catalogue.

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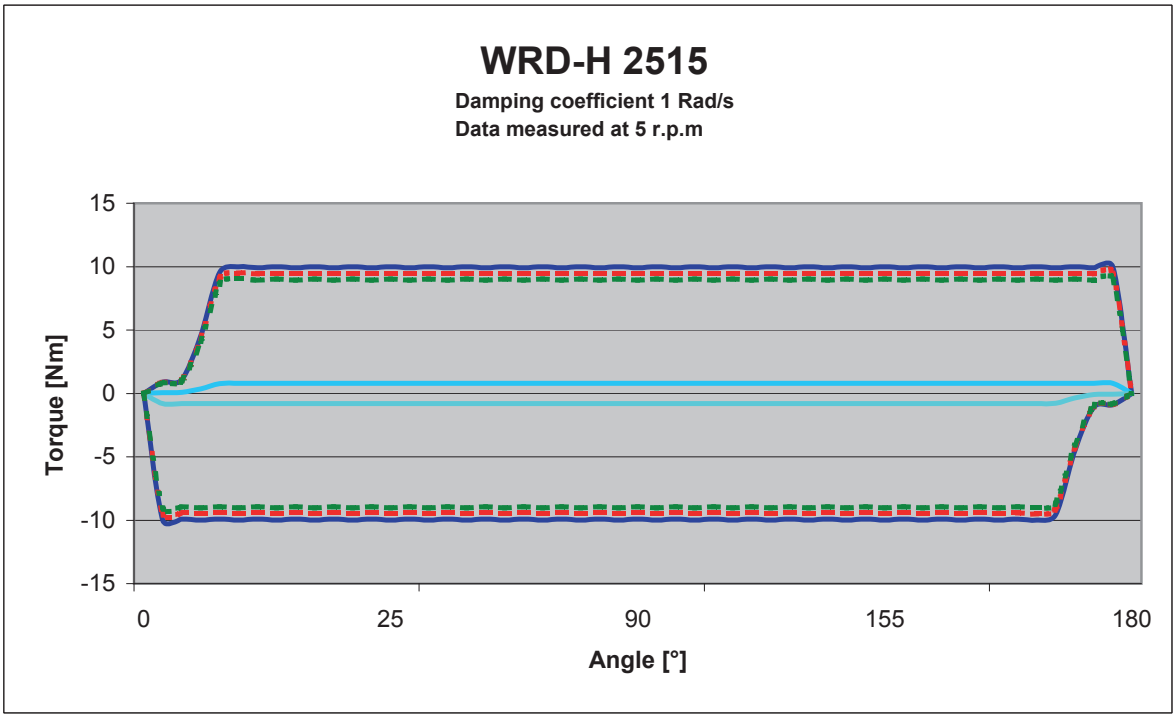

Execution WRD-H 2515 C maximum damping in both directions at 20 ° C

Execution WRD-H 2515 C maximum damping in both directions at 40 ° C

Execution WRD-H 2515 C maximum damping in both directions at 60 ° C

Execution WRD-H 2515 R maximum returndamping at 20 ° C

Execution WRD-H 2515 L maximum returndamping at 20 ° C

Maximum angle 180°

Execution "R" and "L" only in one direction

The values may vary depending on the adjustment and the speed

This damper is adjustable

Subject to technical changes

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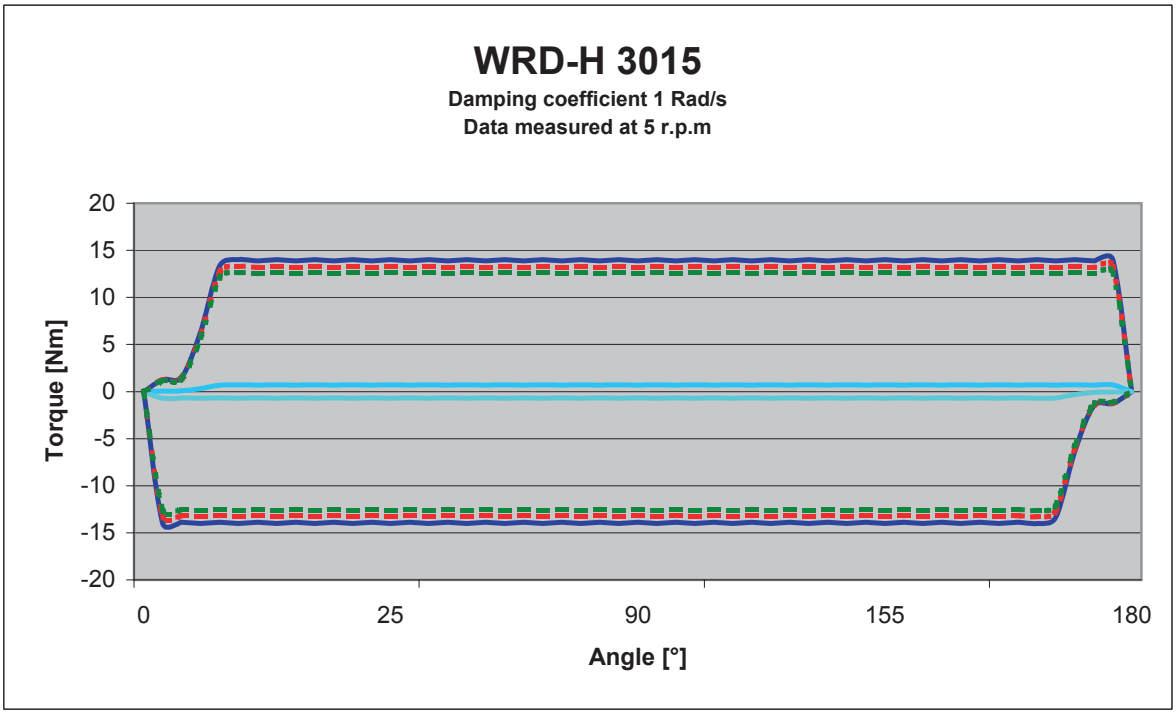

Execution WRD-H 3015 C maximum damping in both directions at 20 ° C

Execution WRD-H 3015 C maximum damping in both directions at 40 ° C

Execution WRD-H 3015 C maximum damping in both directions at 60 ° C

Execution WRD-H 3015 R maximum returndamping at 20 ° C

Execution WRD-H 3015 L maximum returndamping at 20 ° C

Maximum angle 180°

Execution "R" and "L" only in one direction

The values may vary depending on the adjustment and the speed

This damper is adjustable

Subject to technical changes

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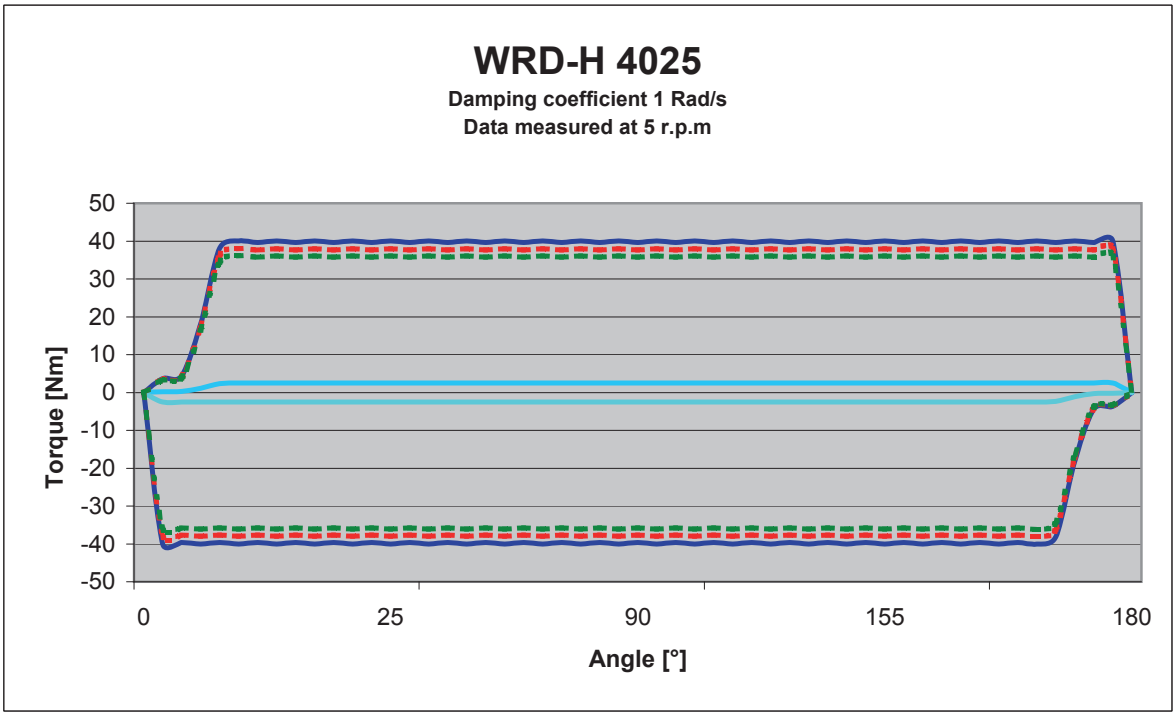


Execution WRD-H 4025 C maximum damping in both directions at 20 ° C

Execution WRD-H 4025 C maximum damping in both directions at 40 ° C

Execution WRD-H 4025 C maximum damping in both directions at 60 ° C

Execution WRD-H 4025 R maximum returndamping at 20 ° C

Execution WRD-H 4025 L maximum returndamping at 20 ° C

Maximum angle 180°

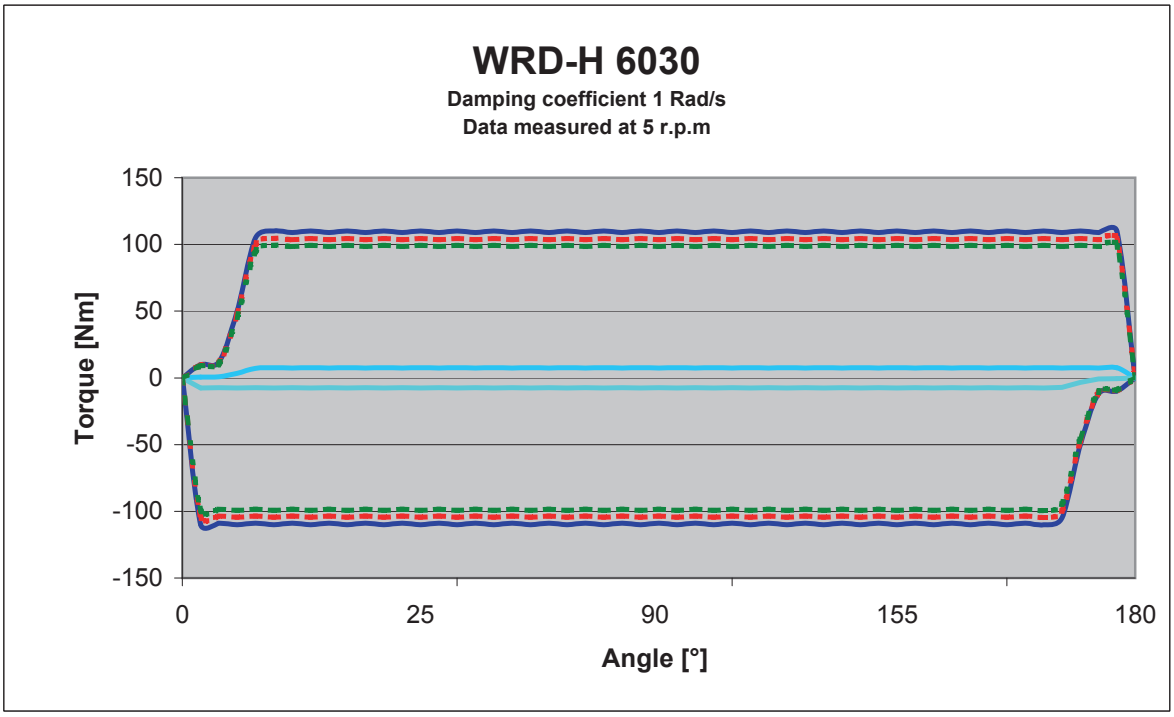
Execution "R" and "L" only in one direction

The values may vary depending on the adjustment and the speed

This damper is adjustable

Subject to technical changes

Weforma



Execution WRD-H 6030 C maximum damping in both directions at 20 ° C

Execution WRD-H 6030 C maximum damping in both directions at 40 ° C

Execution WRD-H 6030 C maximum damping in both directions at 60 ° C

Execution WRD-H 6030 R maximum returndamping at 20 ° C

Execution WRD-H 6030 L maximum returndamping at 20 ° C

Maximum angle 180°

Execution "R" and "L" only in one direction

The values may vary depending on the adjustment and the speed

This damper is adjustable

Subject to technical changes