RUSKIN®

3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

MINIMUM TORQUE REQUIREMENTS FOR FIELD PROVIDED ACTUATORS ON STANDARD RUSKIN COMMERCIAL CONTROL DAMPERS

Model	With Seals	Without Seals
CD35, CD355	5 in. lbs./sq. ft.	2½ in. lbs./sq. ft.
CD36, CD356, IL35	7 in. lbs./sq. ft.	N/A
Opposed Blades: CD40, CD403, CD50, CD504, CD51, CD60, IL60	5 in. lbs./sq. ft.	N/A
Parallel Blades: CD40, CD403, CD50, CD504, CD51, CD60, IL60	7 in. lbs./sq. ft.	N/A
CDR25 (Diameter in inches)	([4 x Dia.] + 20) in. lbs.	(1½ x Dia.) in. lbs.
CDRS25 (Diameter in inches)	([4 x Dia.] + 20) in. lbs.	N/A
CDRS15 (Diameter in inches)	(1½ x Dia.) in. lbs.	(1½ x Dia.) in. lbs.
CD40x2	14 in. lbs./sq. ft.	N/A
CDT150, CDT150BF	11 in. lbs./sq. ft.	N/A
TED50, TED50XT	9 in. lbs./sq. ft.	N/A

NOTE:

Minimum torque requirement is 20 in. lbs. Torque values are given for system pressure below 2½" w.g. For higher pressures*, use the following formula:

$$\left(\frac{\text{Design Pressure (in. w.g.)}}{2\frac{1}{2}\text{" w.g.}}\right) \times \text{Ruskin Minimum Torque (in. lbs.)} = \text{Design Pressure Torque Requirement}$$

*Refer to specific model literature for pressure limitations

Example: At 5" w.g., a parallel blade CD36 with seals would require 14 in. lbs. of torque per square foot.

$$\left(\frac{5\text{" w.g}}{2\frac{1}{2}\text{" w.g.}}\right) \times 7 \text{ in lbs.} = 14 \text{ in. lbs.}$$

Newton Meter Conversion:
1 in. lb. = 0.113 newton meters
1 newton meter = 8.850 in. lbs.

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