# **ACTUATORS & DAMPERS**

## **ROUND CONTROL DAMPERS**

**CDRS25 SERIES** 

#### DESCRIPTION

The **Ruskin CDRS25 Series round damper** frames are made of 20-gauge welded, galvanized steel, 7" in length. Blades are double-skin galvanized steel, strength-equivalent to 14-gauge steel but lighter to handle. Shaft extensions are 1/2" diameter with stainless steel bearings for long life damper actuation. Standard neoprene blade edge seals offer superior low-leakage performance. Optional aluminum or stainless steel construction is available, as well as an actuator mounting bracket.

#### FEATURES

- Round sizes from 4" to 24"
- Velocities up to 4000 FPM
- Neoprene blade seal standard
- 20-gauge frame
- Two-ply blade, strength equivalent to 14-gauge steel



The **CDRS25** is ideal for exhaust air modulation, supply air volume control, zone temperature control, minimum outdoor air intake control, and many other applications in both high-velocity and high-pressure systems. Made specifically for easy installation in spiral ductwork, stiffener beads allow for easy sealing of duct connections.



#### OPTIONS

- Edge seals (none, silicon, EPDM, Viton®)
- Stainless steel construction
- Aluminum construction
- Actuator mounting bracket

SPECIFICATIONS			
Size	4", 5", 6", 7", 8", 9", (10" to 24" even)	Leakage Class	
Туре	Round, single-blade, 90° rotation	With Seals	AMCA Class 1
Shaft		Without Seals	1.4% to 5.5% of maximum flow
Length	7" (17.8 cm)	Blade Seals	Optional (See ordering)
Diameter	1/2" (1.3 cm)	Frame	Galvanized 20-gauge steel
Actuator Bracket	Opt. galvanized or stainless steel,	Bearings	Stainless steel
	5.5"W x 9.3"L (to shaft center)	Blade Design	Riveted double-layer galvanized
Operating Torque	(4xD'') + 20 in-lb (with seals);		steel, full blade neoprene seals
- <b>1</b>	(1.5xD") + 20 in-lb (without seals)		(standard, others optional)
Maximum Static Pressure		Operating Temperature	• -50° to 250°F (-46° to 121°C)
4" to 6"	10" WC	Dimensions	4" through 24" diameter,
7" to 12"	8" WC	10	7" frame length
>12"	6" WC	Weight	Approximately 1 lb per inch diameter
Maximum Velocity	4000 ft/min (28.5 m/s)	Warranty	1 year
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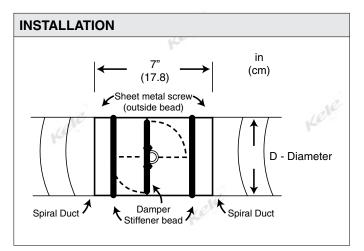
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### **ROUND CONTROL DAMPERS**

PERFORMANCE REFERENCE STANDARD PER AMCA

**CDRS25 SERIES** 



Pressure/	Leakage by Static Pressure, FT <sup>3</sup> /MIN/FT <sup>2</sup> (L/S/M <sup>2</sup> )			
Class	Require	d Rating	Extended R	anges (Opt.)
	1" WC (0.25 kPa)	4" WC (1.0 kPa)	8" WC (2.0 kPa)	12" WC (3.0 kPa)
1A	3 (15.2)	8 (40.6)	11 (55.9)	14 (71.1)
1	4 (20.3)	8 (40.6)	11 (55.9)	14 (71.1)
2	10 (50.8)	20 (102)	28 (142)	35 (178)
3	40 (203)	80 (406)	112 (569)	140 (711)

#### **ORDERING INFORMATION** MODEL DESCRIPTION CDRS25G Round galvanized steel control damper CDRS25A Round aluminum control damper CDRS25S Round 304\* stainless steel control damper BLADE SEAL OPTIONS N Standard neoprene seals, AMCA Class 1 leakage X No blade seals, no leakage class, approximate leakage 1.4% to 5.5% of maximum flow at 4" W.C., not recommended for OSA intake E EPDM blade seals, AMCA Class 1 leakage S Silicone blade seals, 400°F (204°C), AMCA Class 1 leakage V Viton blade seals, AMCA Class 1 leakage **AXLE CONSTRUCTION** Standard galvanized steel axle, 1/2" diameter, extending 5.5" outside damper Stainless steel axle, 1/2" diameter, extending 5.5" outside damper (Note: used on all stainless steel dampers) 2 MOTOR MOUNTING OPTIONS х No mounting bracket, with 5.5" shaft extension Galvanized steel actuator mounting plate, 16 AWG, 5.5"W x 12"L, with 4" shaft extension в SSB Stainless steel actuator mounting plate, 16 AWG, 5.5"W x 12"L, with 4" shaft extension SIZE (OUTSIDE DIAMETER IN INCHES) (OD) Duct outside diameter (4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24) inches available Note: All units are furnished approximately 1/8" smaller than the outside diameter dimension to facilitate spiral duct connection. Example: CDRS25N1B(12) CDRS25 round steel control damper, with seals and actuator mounting plate, 12" diameter. \* 316 stainless steel also available as special order, call Kele DEL ATEN DOODLICTO

	RELATED PRODUCTS
TS-470	Damper position switch with SPDT mercury switch, for 1/2" shaft
TS-470-2	Damper position switch with two SPDT mercury switches, for 1/2" shaft
TS-470-P	Damper position switch with SPDT mercury switch, for 1/2" shaft, stainless steel housing, and plenum-rated cable
TS-475	Non-mercury damper position switch, SPDT, for 1/2" damper shaft
TT-470	Tilt transducer with 1/2-in crank arm, 4-20 mA loop powered

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