



ACTUATORS & DAMPERS

ROUND DAMPERS

D690 SERIES

DESCRIPTION

The Honeywell D690 Series round control dampers are low-leakage, single blade dampers designed for use in conventional air handling system round ductwork. They come standard with an actuator mounting bracket that accommodates the Honeywell ML6161/ML7161/MN6105/MN7505 which are shown as the **DM7600 Series** model numbers. These can also be used with the Kele KA-35/KA-44 direct-coupled actuators. The dampers are available for standard same-day shipping from Kele with or without an actuator pre-mounted.

FEATURES

- **Neoprene seal for tight closing and low leakage**
- **Oilite bearings for long life**
- **Optional Honeywell or Kele actuator pre-mounted**

APPLICATION

The **D690 Series** is intended to be used in commercial zoning systems as an individual zone damper controlled by a zone thermostat, or as a bypass damper controlled by a duct static pressure sensor/controller.



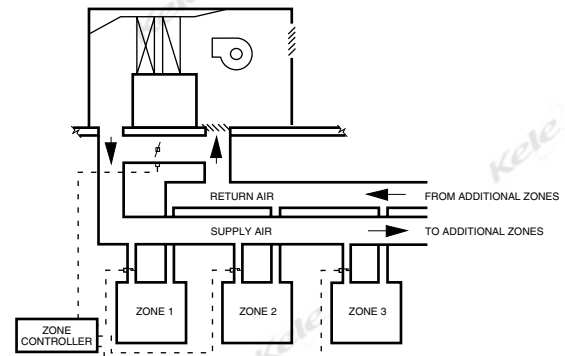
D690A1044



D690A1044/KA-35-VAV



ZONE DAMPER APPLICATION



SPECIFICATIONS

Size	6" round through 16" round (even sizes)
Type	Round, single-blade, 90° rotation
Shaft	1/2" (1.3 cm) diameter shaft, 3.9" (9.9 cm) length, CW to open, 90°
Actuator Bracket	Pre-drilled holes to fit Honeywell or Kele 35 in-lb or 44 in-lb actuators
Operating Torque	Less than 35 in-lb (4 Nm)
Maximum Static Pressure	4" WC (1.0 kPa)
Maximum Velocity	2500 ft/min (17.8 m/s)
Leakage Class	12.5 cfm per sq. ft. @ 1" WC 17.6 cfm per sq. ft. @ 2" WC 21.6 cfm per sq. ft. @ 3" WC 25.0 cfm per sq. ft. @ 4" WC
Frame	
6" through 10"	Mill galvanized, 24 gauge, sleeve-type, spiral duct, crimped on downstream side for mounting
12" through 16"	Mill galvanized, 22 gauge, sleeve-type, spiral duct, crimped on downstream side for mounting
Bearings	Flanged bronze oilite, pressed onto frame
Blade Design	16 gauge galvanized steel blade with closed-cell neoprene seal
Operating Temperature	32° to 130°F (0° to 54°C)
Warranty	1 year

PRESSURE DROP AND FLOW RATE

Model	Pressure drop "WC (kPa)	Flow rate CFM
D690A1002	0.05 (0.012)	180
	0.075 (0.019)	210
	0.10 (0.025)	240
D690A1010	0.05 (0.012)	410
	0.075 (0.019)	485
	0.10 (0.025)	580
D690A1028	0.05 (0.012)	693
	0.075 (0.019)	849
	0.10 (0.025)	980
D690A1036	0.05 (0.012)	1200
	0.075 (0.019)	1460
	0.10 (0.025)	1600
D690A1044	0.05 (0.012)	1336
	0.075 (0.019)	1636
	0.10 (0.025)	1890
D690A1051	0.05 (0.012)	1690
	0.075 (0.019)	2080
	0.10 (0.025)	2400

ACTUATORS & DAMPERS

ROUND DAMPERS D690 SERIES



1

ACTUATORS & DAMPERS

DIMENSIONS

Model	Dimensions	Weight with Plate only	Weight with KA-35-P or ML7161A2008	Weight with KA-35-VAV or ML6161A2009
D690A1002	6" diameter, 12" length	3.0 lb (1.36 Kg)	4.3 (1.95 Kg)	4.1 (1.86 Kg)
D690A1010	8" diameter, 12" length	4.0 lb (1.81 Kg)	5.3 (2.40 Kg)	5.1 (2.31 Kg)
D690A1028	10" diameter, 12" length	5.0 lb (2.27 Kg)	6.3 (2.86 Kg)	6.1 (2.77 Kg)
D690A1036	12" diameter, 13" length	6.0 lb (2.72 Kg)	7.3 (3.80 Kg)	7.1 (3.22 Kg)
D690A1044	14" diameter, 15" length	8.0 lb (3.63 Kg)	9.3 (4.22 Kg)	9.1 (4.13 Kg)
D690A1051	16" diameter, 17" length	10.0 lb (4.54 Kg)	11.3 (5.13 Kg)	11.1 (5.04 Kg)

ORDERING INFORMATION

MODEL

D690A1002
D690A1010
D690A1028
D690A1036
D690A1044
D690A1051
D690A1002/KA-35-P
D690A1010/KA-35-P
D690A1028/KA-35-P
D690A1036/KA-35-P
D690A1044/KA-35-P
D690A1051/KA-35-P
D690A1002/KA-35-VAV
D690A1010/KA-35-VAV
D690A1028/KA-35-VAV
D690A1036/KA-35-VAV
D690A1044/KA-35-VAV
D690A1051/KA-35-VAV
D690A1002/ML7161A2008
D690A1010/ML7161A2008
D690A1028/ML7161A2008
D690A1036/ML7161A2008
D690A1044/ML7161A2008
D690A1051/ML7161A2008
D690A1002/ML6161A2009
D690A1010/ML6161A2009
D690A1028/ML6161A2009
D690A1036/ML6161A2009
D690A1044/ML6161A2009
D690A1051/ML6161A2009

DESCRIPTION

6" round damper with actuator mounting plate, 12" spiral duct length
 8" round damper with actuator mounting plate, 12" spiral duct length
 10" round damper with actuator mounting plate, 12" spiral duct length
 12" round damper with actuator mounting plate, 13" spiral duct length
 14" round damper with actuator mounting plate, 15" spiral duct length
 16" round damper with actuator mounting plate, 17" spiral duct length
 6" D690A1002 with Kele non-spring return proportional actuator
 8" D690A1010 with Kele non-spring return proportional actuator
 10" D690A1028 with Kele non-spring return proportional actuator
 12" D690A1036 with Kele non-spring return proportional actuator
 14" D690A1044 with Kele non-spring return proportional actuator
 16" D690A1051 with Kele non-spring return proportional actuator
 6" D690A1002 with Kele non-spring return floating actuator
 8" D690A1010 with Kele non-spring return floating actuator
 10" D690A1028 with Kele non-spring return floating actuator
 12" D690A1036 with Kele non-spring return floating actuator
 14" D690A1044 with Kele non-spring return floating actuator
 16" D690A1051 with Kele non-spring return floating actuator
 6" D690A1002 with Honeywell non-spring return proportional actuator
 8" D690A1010 with Honeywell non-spring return proportional actuator
 10" D690A1028 with Honeywell non-spring return proportional actuator
 12" D690A1036 with Honeywell non-spring return proportional actuator
 14" D690A1044 with Honeywell non-spring return proportional actuator
 16" D690A1051 with Honeywell non-spring return proportional actuator
 6" D690A1002 with Honeywell non-spring return floating actuator
 8" D690A1010 with Honeywell non-spring return floating actuator
 10" D690A1028 with Honeywell non-spring return floating actuator
 12" D690A1036 with Honeywell non-spring return floating actuator
 14" D690A1044 with Honeywell non-spring return floating actuator
 16" D690A1051 with Honeywell non-spring return floating actuator

RELATED PRODUCTS

TS-470
TS-475
TT-470

Damper position switch with SPDT switch, for 1/2" shaft
 Non-mercury damper position switch, SPDT, for 1/2" damper shaft
 Tilt transducer with 1/2-in crank arm, 4-20 mA loop powered