



Zone Valve Packs

Compact & Versatile
ZONE VALVES
From Danfoss!



Shown with ABRA Actuator

Shown with TWA Actuator

Basic Package Includes:

ABRA or TWA Actuators	Straight valve with solder unions
• 24 vac Actuator c/w end switch • Low power consumption (2VA) • Long, trouble free life • Silent operation • Compact size for tight installations	• 1/2" or 3/4" versions • Solder unions for quick installation and removal • Compact size • Proven performance in millions of installations

Deluxe Package Includes:

Basic package plus 2 Wire Thermostat
• Micro processor PI Control. Optimum control for radiant heating applications • LED display for set temperature, actual temperature and thermostat status (°F or °C) • Battery powered with low battery indicator

Ordering Information:

Code No.	Description
TWA4200	1/2" Basic Zone Valve Package
TWA4400	3/4" Basic Zone Valve Package
TWA42RETB	1/2" Deluxe Zone Valve Package
TWA44RETB	3/4" Deluxe Zone Valve Package
ABRA4200	1/2" Basic Zone Valve Package
ABRA4400	3/4" Basic Zone Valve Package
ABRA42RETB	1/2" Deluxe Zone Valve Package
ABRA44RETB	3/4" Deluxe Zone Valve Package

DANFOSS
ACTUATORS

- Low Power Consumption (2 VA)
- Operate Silently
- Do Not Cause Water Hammer
- Long Life Cycle
- Easily Installed or Removed

DANFOSS
VALVES

- Proven In Countless Installations
- Cover A Wide Range of Flow Requirements
- Available In A Variety of Configurations

TOGETHER

They Provide A **Cost Effective Compact Zone Valve** And Can Be Configured To Fit Almost Any Application.

(Mercury Free)

THERMOSTATS

The Ease of Analog With The Precision of Microprocessor PI Control.



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Zone Valves
Hydronic Accessories

www.na.heating.danfoss.com



Other Products

Thermostats

Thermostatic Radiator Valves

Electric Zone Valves

Balancing Valves

Thermostatic Mixing Valves

3 & 4 Way Valves

Electronic Controls

Air Separators

Automatic By-Pass Valves

Temperature Regulators



Valves and Actuators

Zone Valves, Injection Valves, Radiant Manifold Control Valves, Constant Flow Valves...

The TWA-actuator is used to electrically activate RA-2000, VMT, KOVM and RAV valves on hot water heating systems, where slow opening and closing is desirable to eliminate water hammer associated with quick acting valves. The TWA is a low voltage (24 V), low power consumption actuator equipped with a visual indicator to show the open or closed position of the valve. The actuator can be used with RET-B, RET-24, MTC, MTD or MTW electronic room thermostats.

All Danfoss actuators are thermo-hydraulic. The slow opening and closing of these units eliminate water hammer associated with synchro type motors. Operation is quiet through the entire cycle. These units provide a long trouble-free life, and if the need arises, are easily removed from the valve for replacement. Danfoss valves have proven themselves in countless operations. They are available in a variety of configurations and cover a wide

range of flow requirements. Each valve body has a compatible actuator allowing you to configure a valve to your specific requirements. Zone valves, injection valves, radiant manifold control valves and constant flow valves can all be created using a combination of Danfoss valves and actuators. For full specifications on Danfoss valve bodies, consult individual data sheets.

Type		TWA-A	TWA-V	ABNM	AVB	ABRA
Mounts to valve:		RA 2000 (HW)	All KOVM / Some VMT (HW)	RA 2000 (HW, Steam)	VMT/KOVM (HW)	RA 2000 (HW, Steam)
Features (All) - Compact size, easy mount Silent operation, long life		- NC - NO - NC with end switch	- NC - NO - Visual status indicator	- Modulating for use in 0 - 10V DC, DDC systems - Visual status indicator	- Adjustable flow limitation & manual operation	- NC 4 wire actuator with end switch - Visual status indicator
Voltage		24V AC/DC	24V AC/DC	24V AC	24V AC	24V AC
Power Consumption		2 VA	2 VA	1.5 VA	9 VA	2 VA
Max. Ambient Temp.		140 °F (60 °C)	140 °F (60 °C)	140 °F (60 °C)	140 °F (60 °C)	140 °F (60 °C)
Code No.:	NC	088H3110	088H3120	082F1091	082F0052	N/A
	NO	088H3111	088H3121	N/A	082F0002	N/A
	NC + end switch	088H3114	N/A	N/A	N/A	082F1085
Max. Dia		1 19/32"	1 19/32"	2 3/32"	2 3/4"	2 3/32"

Vavle Style	Code No.	Description	CV Valve	Standard Connections		* Compatibility														
				Inlet	Outlet	L1	L2	H				L1	L2	H	L1	L2	H	L1	L2	H
	013G8042	1/2" Solder Union Straight Valve Body	1.60	Solder Union	Solder Union	2 5/8"	3 15/16"	3 3/4"	-	-	-	2 5/8"	3 15/16"	3 7/16"	-	-	-	2 5/8"	3 15/16"	3 5/8"
	013G8044	3/4" Solder Union Straight Valve Body	2.70	Solder Union	Solder Union	2 15/16"	4 5/8"	3 7/8"	-	-	-	2 15/16"	4 5/8"	3 5/8"	-	-	-	2 15/16"	4 5/8"	3 7/8"
									L1	L2	H				L1	L2	H			
	065F0102	1/2" Straight Union Solder	1.60	Solder Union	Solder Union	-	-	-	2 5/8"	3 15/16"	3 9/16"	-	-	-	2 5/8"	3 15/16"	4 3/8"	-	-	-
	065F0104	3/4" Straight Union Solder	2.70	Solder Union	Solder Union	-	-	-	2 5/16"	4 5/8"	3 5/8"	-	-	-	2 5/16"	4 5/8"	4 3/8"	-	-	-
	065F8960	1/2" Straight Union Solder	3.30	Solder Union	Solder Union	-	-	-	-	-	-	-	-	-	2 5/8"	3 15/16"	4 17/32"	-	-	-
	065F8961	3/4" Straight Union Solder	5.90	Solder Union	Solder Union	-	-	-	-	-	-	-	-	-	2 5/16"	4 5/8"	4 5/8"	-	-	-
	065F1242	1" Straight Union Male, NPT	9.40	NPT Tail piece	NPT Tail piece	-	-	-	-	-	-	-	-	-	3 17/32"	6 13/32"	4 7/8"	-	-	-
						L1	L2	H				L1	L2	H				L1	L2	H
	013G8015	1/2" NPT Straight valve body	1.60	FNPT	NPT Tail piece	2 5/8"	3 3/4"	3 3/4"	-	-	-	2 5/8"	3 3/4"	3 7/16"	-	-	-	2 5/8"	3 3/4"	3 5/8"
	013G8020	3/4" NPT Straight valve body	2.70	FNPT	NPT Tail piece	2 29/32"	4 3/16"	3 7/8"	-	-	-	2 29/32"	4 3/16"	3 5/8"	-	-	-	2 29/32"	4 3/16"	3 7/8"
	013G8025	1" NPT Straight valve body	2.80	FNPT	NPT Tail piece	3 17/32"	4 31/32"	3 7/8"	-	-	-	3 17/32"	4 31/32"	3 5/8"	-	-	-	3 17/32"	4 31/32"	3 7/8"
	013G8032	1-1/4" NPT Straight valve body	2.80	FNPT	NPT Tail piece	4 1/4"	5 9/32"	4"	-	-	-	4 1/4"	5 9/32"	3 23/32"	-	-	-	4 1/4"	5 9/32"	4"
	013G8013	1/2" NPT Side Mount Angle valve body	1.60	FNPT	NPT Tail piece	1 1/8"	2 1/4"	4 1/4"	-	-	-	1 1/8"	2 1/4"	3 15/16"	-	-	-	1 1/8"	2 1/4"	4 1/4"
	013G8018	3/4" NPT Side Mount Angle valve body	2.10	FNPT	NPT Tail piece	1 11/32"	2 5/8"	4 1/4"	-	-	-	1 11/32"	2 5/8"	4"	-	-	-	1 11/32"	2 5/8"	4 1/4"
	013G8023	1" NPT Side Mount Angle valve body	2.80	FNPT	NPT Tail piece	1 9/16"	3"	4 1/4"	-	-	-	1 9/16"	3"	4"	-	-	-	1 9/16"	3"	4 1/4"
	013G8030	1-1/4" NPT Side Mount Angle valve body	2.80	FNPT	NPT Tail piece	1 3/4"	3 3/8"	4 1/4"	-	-	-	1 3/4"	3 3/8"	4"	-	-	-	1 3/4"	3 3/8"	4 1/4"
	013G8014	1/2" NPT Angle valve body	1.60	FNPT	NPT Tail piece	1 3/16"	2 9/32"	3 3/4"	-	-	-	1 3/16"	2 9/32"	3 7/16"	-	-	-	1 3/16"	2 9/32"	3 5/8"
	013G8019	3/4" NPT Angle valve body	2.70	FNPT	NPT Tail piece	1 11/32"	2 5/8"	3 7/8"	-	-	-	1 11/32"	2 5/8"	3 5/8"	-	-	-	1 11/32"	2 5/8"	3 7/8"
	013G8024	1" NPT Angle valve body	2.80	FNPT	NPT Tail piece	1 9/16"	3"	3 7/8"	-	-	-	1 9/16"	3"	3 5/8"	-	-	-	1 9/16"	3"	3 7/8"
	013G8031	1-1/4" NPT Angle valve body	2.80	FNPT	NPT Tail piece	1 3/4"	3 3/8"	3 7/8"	-	-	-	1 3/4"	3 3/8"	3 5/8"	-	-	-	1 3/4"	3 3/8"	3 7/8"
									L1	L2	H									
	013U3017	KOVM 1/2" NPT valve body	1.75	FNPT	FNPT	-	-	-	1 3/32"	3 7/32"	4 5/8"	-	-	-	-	-	-	-	-	-
	013U3015	KOVM 1/2" valve body, Compression Fittings	1.75	1/2" OD compression	1/2" OD compression	-	-	-	1 3/32"	3 7/32"	4 5/8"	-	-	-	-	-	-	-	-	-
	013U3020	KOVM 1/2" valve body, Compression Fittings	2.34	1/2" OD compression	1/2" OD compression	-	-	-	1 3/32"	3 7/32"	4 5/8"	-	-	-	-	-	-	-	-	-

* Actuator can only be used with corresponding valve body where dimensions are indicated

