



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
<ul style="list-style-type: none"> • 24 vac Actuator c/w end switch • Low power consumption (2VA) • Long, trouble free life • Silent operation • Compact size for tight installations 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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
TWA42RET B	1/2" Deluxe Zone Valve Package
TWA44RET B	3/4" Deluxe Zone Valve Package
ABRA4200	1/2" Basic Zone Valve Package
ABRA4400	3/4" Basic Zone Valve Package
ABRA42RET B	1/2" Deluxe Zone Valve Package
ABRA44RET B	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.



Danfoss Inc.
6711 Mississauga Road, Suite 410
Mississauga, ON, L5N 2W3
Tel.: 905-285-2050, Fax: 905-285-2055

Danfoss Inc.
7941 Corporate Drive
Baltimore, MD 21236 USA
Tel.: 443 512 0266, Fax: 443 512 0270



Zone Valves

Hydronic Accessories

www.na.heating.danfoss.com



Other Products



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"

Valve Style	Code No.	Description	CV Valve	Standard Connections		* Compatibility														
				Inlet	Outlet	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"
	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"	-	-	-	
	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"
	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