





300 PSI (100kPa)

6.5Watts, 7 VA

close-off

glycol

hot and chilled water, up to 50%

24VAC @ 50/60Hz, 110/120VAC @ 50/60Hz, 230VAC @ 50Hz/60Hz

power stroke 13 to 18 seconds, spring return stroke 4 to 5 seconds

zero leakage 100% bubble-tight



# **Technical Data**

Operating Pressure Limits Server

Motor Voltage

Power Consumption

Stroke Speed

Seat Leakage

**Body Materials** 

 Body
 forged brass

 Stem
 nickel-plated

 Seat
 brass

 Paddle
 NBR

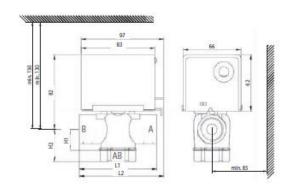
Actuator Materials stainless steel base plate, plastic

cover

Ambient Temperature limits

Shipping & Storage -40° to +160° (-40 to +71°)
Operating fluid 32° to 200° (0 to 93°)
Operating Ambient 32° to 104° (0 to 40°)

#### Dimensions



Туре	DN	Inches	L1	L2	H1	H2
EXT-SW-E15	15	1/2"	70	86	23	-
EXT-SW-E20	20	3/4"	70	86	37	
EXT-SW-E25	25	1"	87	93	23	-
EXT-SW-E15	15	1/2"	87	93	-	37
EXT-SW-E20	20	3/4"	94	95	-	25
EXT-SW-E25	25	1"	94	95	-	42

# **Applications**

- Fan coil units and baseboards where fail safe operation or 2-wire control is required
- . Hydronic systems with variable or constant flow

#### Mode of Operation

Zone valves provide a convenient way to create individual zones or equipment isolation in a hydronic system.

Utilizing one pump along with multiple zone valves, flow can be started, stopped, or diverted through the system

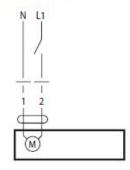
to provide individual room or area comfort control and energy savings.

#### **Product Features**

Zone valve is designed to fit in compact areas where on/off control is required using 24 VAC, 120VAC or 230VAC.

	2-Way S	weat Valves	s	V/// (10 m)	
Part Numbers	Size in [DN]	Cv [Kvs]	ΔΡ	Weight	
EXT-SW-SE152C1	1/2" [15]	1	74	.70Kg	
EXT-SW-SE152C2	1/2" [15]	2.5	49	.70Kg	
EXT-SW-SE152C3	1/2" [15]	3.5	29	.70Kg	
EXT-SW-SE202C3	3/4" [20]	3.5	29	.85Kg	
EXT-SW-SE202C5	3/4" [20]	5	25	.85Kg	
EXT-SW-SE252C8	1' [25]	8	19	1.00Kg	
	3-Way S	weat Valve	3		
EXT-SW-SE153C1	1/2" [15]	1.5	74	.75Kg	
EXT-SW-SE153C2	1/2" [15]	3	49	.75Kg	
EXT-SW-SE153C3	1/2" [15]	5	29	.75Kg	
EXT-SW-SE203C3	3/4" [20]	3	29	.90Kg	
EXT-SW-SE203C5	3/4" [20]	5	25	.90Kg	
EXT-SW-SE253C8	1" [25]	8	19	1.05Kg	
	2-Way	NPT Valves	3000	10	
EXT-SW-NE152C1	1/2" [15]	1	74	.70Kg	
EXT-SW-NE152C2	1/2" [15]	2.5	49	.70Kg	
EXT-SW-NE152C3	1/2" [15]	3.5	29	.70Kg	
EXT-SW-NE202C3	3/4" [20]	3.5	29	.85Kg	
EXT-SW-NE202C5	3/4" [20]	5	25	.85Kg	
EXT-SW-NE252C8	1" [25]	8	19	1.00Kg	
	3-Way	NPT Valves			
EXT-SW-NE153C1	1/2" [15]	1.5	74	.75Kg	
EXT-SW-NE153C2	1/2" [15]	3	49	.75Kg	
EXT-SW-NE153C3	1/2" [15]	5	29	.75Kg	
EXT-SW-NE203C3	3/4" [20]	3	29	.90Kg	
EXT-SW-NE203C5	3/4" [20]	5	25	.90Kg	
EXT-SW-NE253C8	1" [25]	8	19	1.05Kg	
EVT OW W	DAMAG NG 1				
EXT-SW-V1	and the second second second second	24VAC, NC Actuator			
EXT-SW-V2	120VAC, NC Actuator				
EXT-SW-V4	230VAC, NC Actuator				

### **Wiring Diagram**



L1	B-A = 0%	
11 1	B-A = 100%	B
Rotary actuator	Rotary valve	
L1 /_	AB-B = 0% AB-A = 100% B-A = 0%	~
300	AB - B = 100%	B

AB-A = 0% B-A = 0%

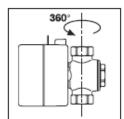
Rotary actuator Rotary valve

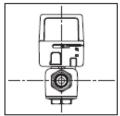
Installation

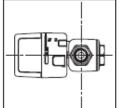


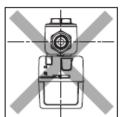
# INSTALLATION

The valve can be installed vertically or horizontally, but not below horizontal.





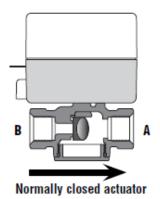




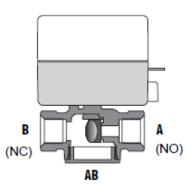
- A 3-way valve cannot be transformed into a 2-way valve and visa versa.
- The 2-way flow is from B to A (see diagram below) and must be installed so the paddle closes against the direction of flow.
- The 2-way valves can be installed on the supply or on the return; for correct installation it is necessary to respect the direction of flow indicated by the arrow on the body valve.
- 3-way zone valves can be rotated 180° for NO application.

	2-WAY	3-WAY
N.C. without power	Port "A" closed	Port "B" closed Port "a" open Port "AB" open
N.C. open with power	Port "A" open	Port "B" open Port "a" closed Port "AB" open
N.C. manually open	Port "A" open	Port "B" open Port "A" open Port "AB" open

# 2-way Valve



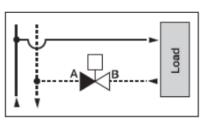




Normally closed actuator

# Normally closed actuator Normally closed actuator Normally closed actuator Normally closed actuator

Installed on the supply



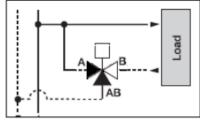
Installed on the return

Installed on the supply in diverting

configuration

Installed on the return

Installed on the supply in diverting configuration



Installed on the return