

H-Series Motorised Valves



H-Series Motorised Valves Paddle and Shoe Type

- Available in 2-port, 3-port diverter and 3-port mid-position versions
- Interchangeable actuators
- All H-series valves can be purchased as separate valve bodies and actuators or in convenient sets.
- For the ease of installation and serviceability, actuators are fitted to the valve bodies on site at the time of installation
- Wide range of valve body sizes



.



H-Series Motorised Valves Paddle Type

Danfoss

Central heating and hot water circulation in wet domestic central heating systems. Available in 2-port, 3-port diverter and 3-port mid-position versions.

H-series 'paddle' valves are available in 2-port and 3-port versions in a wide range of sizes for both copper and iron pipework. All valves offer 100% tight shut-off. Actuators for mid-position, diverter and 2-port on/off applications complete the range.

Valve bodies and actuators may be purchased separately or in convenient sets. For ease of installation and serviceability, assembly of the actuator to the valve body is made on site, using the screws provided.

The spring return actuators have auxiliary switches and one metre of cable with Industry Standard wire colours. A lever enables the valves to be opened manually, useful when filling the system.

Danfoss Randall valve actuators are designed for direct in-service replacement of actuators on other makes of motorised valves (see compatibility chart opposite).



2-Port Paddle Valve



H-Series 2-Port Valve Body

3-Port Paddle Valves (Spring Return to Heating Closed) (4)						
V 1 6: 0		Complete Valv	Valve Body Only			
Valve Size & Connection Details	Mid Position (1)		Diverter (2)		Tura	Code No
Connection Details	Туре	Code No	Type	Code No	Type	Code No
22mm (ext. compression)	HS3B	087N664600	HS3DB22	087N6653000	HSV3B	087N662500
28mm (ext. compression)	HS3B28	087N665100	HS3DB28	087N666000	HSV3B28	087N663000
15mm/½"BSP (int.comp.)	HS3B15	087N665000	HS3DB15	087N665900	HSV3B15	087N662900
3/4" BSP (female)	HS3B0.75	087N664800	HS3DB0.75	087N665400	HSV3B0.75	087N662600
1" BSP (female)	HS3B1.0	087N664900	HS3DB1.0	087N665800	HSV3B1.0	087N662800
notes: (1) Includes HSA3 Actuator (2) Includes HSA3D Actuator						

2-Port Paddle Valves (Spring Return to Closed)(4)						
Valve Size & Connection Details	Complete Valve Body & Actuator		Actuator Only		Valve Body Only	
	Type	Code No	Type	Code No	Type	Code No
22mm (ext. compression)	HP22B	087N664200	HPA2	087N657900	HPV22B	087N662200
28mm (ext. compression)	HP28B	087N664400	HPA2	087N657900	HPV28B	087N662400
28mm (ext. compression)	HP28BC(3)	087N664500	HPA2C	087N658000	HPV28B	087N662400
15mm/½"BSP (int.comp.)	HP15B	087N664000	HPA2	087N657900	HPV15B	087N662100
3/4" BSP (female)	HP0.75B	087N663400	HPA2	087N657900	HPV0.75B	087N661800
1"BSP (female)	HP1.0B	087N663700	HPA2	087N657900	HPV1.0B	087N662000

notes:

(3) For Gravity Hot Water Systems

(4) Max flow temperature 95°C, max working pressure 10 bar, max differential pressure 15mm, 22mm, 1/2" & 3/4" = 1.0 bar; 28mm & 1" = 0.7bar

28mm & 1 = 0.70ar							
Motorised Valve Actuators							
Description	Code No	Type	Voltage	Aux. Switch Detail			
3-Port Mid-Position Valve Actuator	087N658700	HSA3	230Vac ±15%	SPST ⁽⁵⁾			
3-Port Diverter Valve Actuator	087N658900	HSA3D	230Vac ±15%	SPST Aux. Sw.			
2-Port Valve Actuator (normally closed)	087N657900	HPA2	230Vac ±15%	SPST (volt free)			
2-Port Valve Actuator (normally closed)	087N65800	HPA2C	230Vac ±15%	SPDT Aux. Sw.			
notes: (5) Linked Internally							

Danfoss Randall Ltd

H-Series Motorised Valves Shoe Type



Central heating and hot water circulation in wet domestic central heating systems. Available in 2-port, 3-port diverter and 3-port mid-position versions.

H-series 'shoe' valves are available in 2-port and 3-port versions in a wide range of sizes for both copper and iron pipework. Actuators for midposition, diverter and 2-port on/off applications complete the range.

Valve bodies and actuators may be purchased separately or in convenient sets. For ease of installation and serviceability, assembly of the actuator to the valve body is made on site, using the screws provided.

The high capacity bodies incorporate two selfcleaning positive shut-off shoes. Flow through the 2-port valves can be in either direction.

The spring return actuators have auxiliary switches and one metre of cable with Industry Standard wire colours. A lever enables the valves to be opened manually, useful when filling the system.

Danfoss Randall valve actuators are designed for direct in-service replacement of actuators on other makes of motorised valves (see compatibility chart below).





2-Port Shoe Valve



H-Series 3-Port BSP

3-Port Shoe Valves (Spring Return to Heating Closed) (4)						
V 1 6: 0	Complete Valve Body & Actuator				Valve Body Only	
Valve Size & Connection Details	Mid Position (1)		Diverter (2)		Tuna	Code No
Connection Details	Type	Code No	Type	Code No	Type	Code No
22mm (ext. compression)	HS3	087N661300	HS3D	087N661400	HSV3	087N659900
notes: (1) Includes HSA3 Actuator						

notes: (1) Includes HSA3 Actuator (2) Includes HSA3D Actuator

2-Port Shoe Valves (Spring Return to Closed)(5)						
Valve Size & Connection Details	Complete Valve Body & Actuator		Actuator Only		Valve Body Only	
Connection Details	Туре	Code No	Type	Code No	Туре	Code No
22mm (ext. compression)	HP22	087N660900	HPA2	087N657900	HPV22	087N659700
28mm (ext. compression)	HP28	087N661100	HPA2	087N657900	HPV28	087N659800
28mm (ext. compression)	HP28C ⁽³⁾	087N661200	HPA2C	087N658000	HPV28	087N659800
15mm (int. compression)	HP15	087N660800	HPA2	087N657900	HPV15	087N659600
3/4" BSP (female)	HP0.75B	087N660200	HPA2	087N657900		087N659400
1"RSD (female)	HP1 0R	087N660400	НРД 2	087N657000	HDV/1 0	087N650500

notes: (3) For Gravity Hot Water Systems

Motorised Valve Actuators						
Description	Type	Code No	Voltage	Aux. Switch Detail		
3-Port Mid-Position Valve Actuator	HSA3	087N658700	230Vac ±15%	SPST ⁽⁴⁾		
3-Port Diverter Valve Actuator	HSA3D	087N658900	230Vac ±15%	SPST Aux. Sw.		
2-Port Valve Actuator (normally closed)	HPA2	087N657900	230Vac ±15%	SPST (volt free)		
2-Port Valve Actuator (normally closed)	HPA2C	087N65800	230Vac ±15%	SPDT Aux. Sw.		

notes: (4) Linked Internally

(5) Max flow temp 95°C, max working pressue 10 bar, max differential pressure 15mm, 22mm, 1/2" & 3/4" = 1.0 bar; 28mm & 1" = 0.7bar

ndis & Gyr (ext.)	Landis & Gyr (int.)	Pegler Sunvic	Potterton
		,	rotterton
SK3	SK3	SD1701/2701	PMV3
LT8322	LT2701 ⁽⁶⁾	EDT1702	PMV3
SK2	SK2	SZ1301/2301	PMV2
LL8222	LL4453 ⁽⁶⁾	EML3454	PMV2
-	33 4501	EML3503	-
	LT8322 SK2	LT8322 LT2701 ⁽⁶⁾ SK2 SK2 LL8222 LL4453 ⁽⁶⁾	LT8322 LT2701 ⁽⁶⁾ EDT1702 SK2 SK2 SZ1301/2301 LL8222 LL4453 ⁽⁶⁾ EML3454

notes: (6) These references are for older types of L&G valve bodies, having internal compression fittings - some pipework change will be required.

Literature Service



Product Range	Туре	Part No.	Quantity
Product Selection Guide	Catalogue	028	
Underfloor Heating Product & System Guide	Catalogue	438	
RA2000 Commercial Radiator Thermostats	Catalogue	410	
Radiator Thermostats	catalogue		
	[c. l l d x	250	<u> </u>
RAS-C ² Revolver Radiator Thermostats, incl. push-fit versions	Sales Leaflet* Sales Leaflet*	250 336	
RAS-D ² Domestic Revolver Radiator Thermostats, incl. push-fit versions	 		
RA2000 Commercial Radiator Sensors RA Plus Programmable Radiator Thermostats	Datasheet Datasheet	VDVBE122 VD53P102	
RA-FN, RA-G Commercial Valve Bodies	Datasheet	VD53P102 VD51Q102	
RA-N Commercial Valve Bodies	Datasheet	VD51Q102 VD51G802	
RLV-D Domestic Lockshield Valves, including push-fit versions	Datasheet	VD31G802 VD35E202	
RLV Commercial Lockshield Valves	Datasheet	VD35L202 VD35D102	
H Pieces & Sensors	Datasheet	VD35C102	
Bathroom Solutions - RA-URX Towel Rail	Sales Leaflet	580	
Bathroom Solutions - RA-URX Towel Rail	Datasheet	VD31B102	
Replacement Sensors RA-V & RA-VL	Datasheet	VDULY102	
Time Controls	Datasneet	VDOLITOZ	<u> </u>
	I		Т
MK18 Time Controls - TS715 Si, CP715 Si & FP715 Si	Sales Leaflet	334	
MK18 Time Controls, Compatibility Guide	Sales Leaflet	196	
TS975 & FP975 Replacement Time Controls	Datasheet	208	
GP Time Controls - 102, 102E5, 102E7, 103, 103E5 & 103E7	Sales Leaflet	582	
Set Range - SET1E, SET2E, SET3E & SET3M	Sales Leaflet	188	
MK3 Programmers - 3020P, 3060 & 4033 Commercial Time Controls - MK8	Datasheet	040	
	Sales Leaflet	606	
Electric Thermostats			
TP4 & TP5 Programmable Room Thermostat	Sales Leaflet	022	
TP6000M Mains Powered Programmable Room Thermostat	Sales Leaflet	630	
TP5000/RT51/RT52, including RF versions	Sales Leaflet*	586	
TP7000 Programmable Room Thermostats	Sales Leaflet*	594	
HC6000 Heat/Cool Thermostats	Sales Leaflet*	596	-
TP9 Programmable Thermostat with Hot Water Time Control	Datasheet	318	-
Programmable Hot Water Thermostat - WP75RF	Sales Leaflet*	282	-
RMT/RET Room Thermostats	Sales Leaflet*	584	
RET Electronic Room Thermostats with Function Switches	Sales Leaflet*	592	
RET230 HC & HCW Heat/Cool Thermostats	Datasheet	660	-
Battery Room Thermostats RET B plus RF versions RET-MD & RET-M Room Thermostats	Sales Leaflet* Sales Leaflet*	588 590	
	t		
Cylinder, Pipe & Frost Thermsotats - ATC, ATP, ATF & RET230F Immersion Thermostats - ITC, ITL & ITD	Datasheet Datasheet	374 374	-
	Datasneet	3/4	<u> </u>
Underfloor Heating Controls	I		Т
Underfloor Heating Product & System Guide	Catalogue	438	
Electric Underfloor Heating Mat	Sales Leaflet*	628	-
FH-WC Hard Wireless Zone Control	Datasheet	620	
FH-BU Wireless Zone Control FHV Valves for Underfloor Heating	Datasheet Sales Leaflet*	622	-
Thermal Actuators TWA	Datasheet	476 VDSAP112	+
	Datasneet	VD3AF112	<u> </u>
Motorised Valves & Other Controls	[c.i. 1	424	
Control Packs	Sales Leaflet*	120	-
Wireless Controls Pools W075 P5	Instructions	39917	-
Wireless Controls Packs WP75-RF	Datasheet	408	+
H Series Motorised Valves Paddla Type	Sales Leaflet*	192A	-
H Series Motorised Valves Paddle Type	Sales Leaflet*	192B	-
Domestic Bypass Valves ADVO	Datasheet	062	-
Domestic Bypass Valves ARV22 Thermal Actuators TWA	Datasheet	380 VDSAB112	-
	Datasheet	VDA2W112	-
AB-QM Balancing Valves AB-QM Balancing Valves	Datasheet Sales Leaflet	VDA2W112 VBA2Z102	
Thermostatic Cylinder Controls RAVI	Datasheet	240	+
		346	
Climate Control Range - FEK, FEV & FED	Catalogue	340	<u> </u>

Ordering Literature

To obtain copies of individual product sales leaflets and datasheets please photocopy this page and complete your personal details and the literature quantites you require and fax this form to

> UK 0845 1217 515

Republic of Ireland 353 - 1- 6269 334

Company Name:
Address
Postcode
Contact Name

Datasheets

* Denotes that datasheets are also available. Please use the space below to indicate which datasheet you would like to order.

Datasheet	Quantity

Danfoss Randall Ltd