

246 Series, Dry Armature – 2/2 Normally Closed

Specifications	
Function (single acting)	
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (DSR)	Brass CW617N (EN 12165)
Body Material (DSQ)	POM (Natural hostaform C13021)
Tube	Stainless Steel AISI 304
Flange	POM
Plunger	Stainless Steel 1.4105 EN 10088 (AISI 430F) or equivalent
Top Stop	Stainless Steel 1.4105 EN 10088 (AISI 430F)
Springs	Stainless Steel AISI 302
Seal Material (Std)	Silicone FDA compliant
Vent pipe length (Std)	85mm
Connection Type (Std)	see table
Shading Ring	Copper
Electrical Characteristics	
Standard Coil Voltage DC (=)	24 V
Standard Coil Voltage AC 50 Hz (-)	24 V, 110 V, 200 V, 230 V
Standard Coil Voltage AC 60 Hz (-)	24 V, 120 V, 220 V, 240 V
Voltage Tolerance	+10% to -15% (AC)
	+10% to -5% (DC)
Duty Cycle	100% ED
Protection Class	IP65 (EN 60529) with plug and gasket correctly fitted *
Electrical Connection	to industrial form B
Coil Insulation	Class F 155 °C
Power Rating (Standard)	AC 10 VA (holding) AC 16 VA (inrush) DC 10 W

How to use the flow chart

1. Select the required flow.
2. Note the corresponding pressure drop.
3. Based on where the two points intersect select the most appropriate model.

Features and Benefits

- Direct Acting
- Robust construction for industrial applications
- Zero pressure rated
- Stainless steel AISI 430F operators with low residual magnetism
- Coils tested 100% in compliance to RoHS directive and to relevant international standards
- High quality seal material
- Total separation between internal parts and medium
- Flow regulation screw as standard
- Response time 5 to 25 ms



Body Material	Connection Type		OPD (bar)		Seal Material	Valve Code ²
	Left Hole	Right Hole	AC Voltages	DC Voltages		
Brass	cap	¼" G	0 - 0.2	0 - 0.1	Silicone	246DSRE0
	¼" G	cap				246DSRE0E
	¼" G	¼" G				246DSR00
POM	closed	¼" G	0 - 0.2	0 - 0.1	Silicone	246DSQG0
	¼" G	closed				246DSQ0G
	¼" G	¼" G				246DSQ00

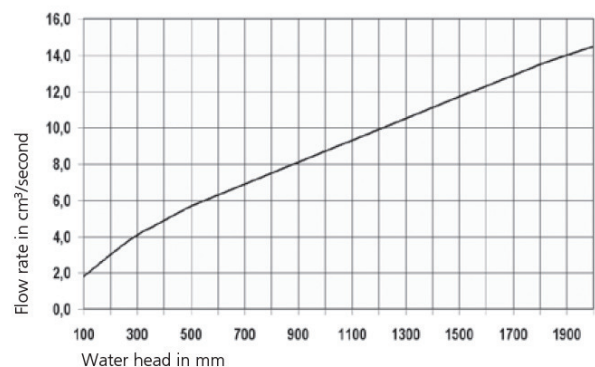
² Product subject to phase-out, please contact sales office for availability.

Options Available

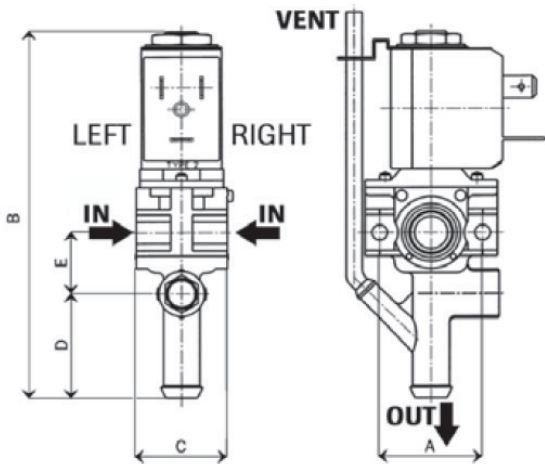
Seal Material ¹ and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
Silicone FDA compliant (-10 °C to +130 °C)	Water, food and beverages	-10 °C	+50 °C

¹ See corrosion reference guide and sealing solutions for material compatibility.

Flow chart



Coil Rotation



Preferred Valve Mounting Options



Valve Type	A	B	C	D	E	Weight (kg)
246DSR--	28	101	25	29	17	0.2
246DSQ--	28	101	25	29	17	0.125

Dimensions (mm)

Solenoid enclosures

2--0 Type Coil - Insulation class F

- External material: PBT (reinforced fiberglass 30%)
- Electrical connection: Industrial form B
- Winding insulation: Class H (E180)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with plug and gasket correctly fitted*



Type 600 001- Plug

- Rated Voltage (max.): 250 VAC / 300 VDC
- Nominal Current: 10A (rated) / 16A (max)
- Wire cross-section: 1.5 mm² max
- Cable Entry: PG9 (6 to 8 mm)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with supplied gasket
- Insulation class: group C- VDE 0110
- Housing colour: black
- UL approved, file No: E205538



* Plug and gasket not supplied as standard, must be ordered separately.

Coding chart

Main Valve Assembly

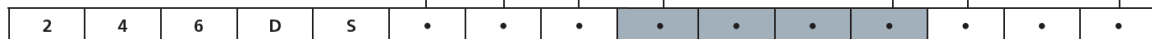
Body Material	Option Brass Body Left hole - right hole
R Brass	E0 cap - 1/4" G
	0E 1/4" G - cap
Q POM	00 1/4" G - 1/4" G
Option POM body Left hole - right hole	
	G0 closed - 1/4" G
	0G 1/4" G - closed
	00 1/4" G - 1/4" G

Coil options

Voltage / Frequency - Class F (High Power DC only)	
22V0	24 VDC
2200	24 V / 50/60 Hz
2400	110 V / 50 Hz - 120 V / 60 Hz
2600	200 V / 50 Hz - 220 V / 60 Hz
2700	230 V / 50 Hz - 240 V / 60 Hz

Plug

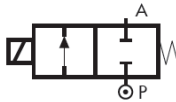
Plug	
0B1	c/w plug
	w/o plug



Product coding example:

246DSR0E 2700
Brass body 1/4" G - cap, auto operation, silicone seals, 230 V / 50 Hz - 240 V / 60 Hz, without plug.

D211 Series, Dry Armature – 2/2 Normally Closed

Specifications	
Function (single acting)	
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Brass CW617N (EN 12165)
Orifice Material	Stainless Steel 1.4305 EN 10088 (AISI 303)
Flange Tube (Seamless)	Stainless Steel 1.4305 EN 10088 (AISI 303)
Plunger	Stainless Steel 1.4106 EN 10088 (AISI 430F)
Top Stop	Stainless Steel 1.4105 EN 10088 (AISI 430F)
Springs	Stainless Steel AISI 302
Seal Material (Std)	Silicone FDA compliant
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
Standard Coil Voltage DC (=)	24 V
Standard Coil Voltage AC 50 Hz (~)	24 V, 110 V, 200 V, 230 V
Standard Coil Voltage AC 60 Hz (~)	24 V, 120 V, 220 V, 240 V
Voltage Tolerance	+10% to -15% (AC)
	+10% to -5% (DC)
Duty Cycle	100% ED
Protection Class	IP65 (EN 60529) with plug and gasket correctly fitted *
Electrical Connection	to EN 175301 - 803 - A (ex DIN 43650)
Coil Insulation	Class F 155 °C
Power Rating (Standard)	AC 18 VA (holding) AC 36 VA (inrush) DC 14 W

Options Available

Valve Options (see coding chart)
Electroless nickel plating

Features and Benefits

- Direct Acting
- Robust construction for industrial applications
- Zero pressure rated
- Stainless steel AISI 430F operators with low residual magnetism
- Coils tested 100% in compliance to RoHS directive and to relevant international standards
- High quality seal material
- Total separation between internal parts and medium
- Response time 5 to 25 ms



Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code
			AC Voltages	DC Voltages			
3/8"	see flow chart		0 - 0.3	-	10.5	Silicone FDA	D211D _{SU}
3/8"			-	0 - 0.2	10.5	Silicone FDA	CD211D _{SU}

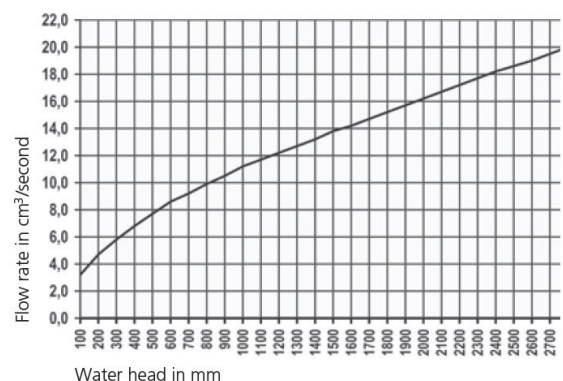
Seal Material ¹ and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
Silicone FDA compliant (-10 °C to +95 °C)	Water and beverages	-10 °C	+50 °C

¹ See corrosion reference guide and sealing solutions for material compatibility.

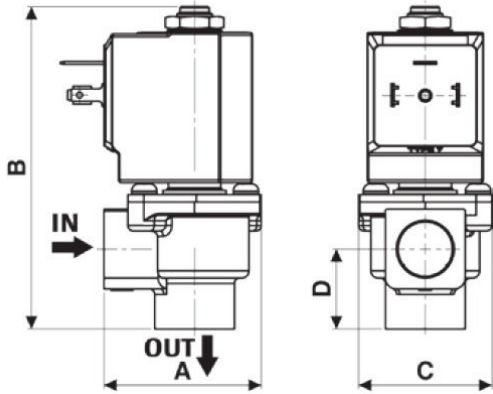
How to use the flow chart

1. Select the required flow.
2. Note the corresponding pressure drop.
3. Based on where the two points intersect select the most appropriate model.

Flow chart



Coil Rotation



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
3/8"	43.4	88.8	36	22	0.34

Dimensions (mm)

Solenoid enclosures

7--0 Type Coil - Insulation class F

- External material: PBT (reinforced fiberglass 30%)
- Electrical connection: DIN EN 175301-803 form A
- Winding insulation: Class H (E180)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with plug and gasket correctly fitted*



Type 600 011- Plug

- Rated Voltage (max.): 250 VAC / 300 VDC
- Nominal Current: 10A (rated) / 16A (max)
- Wire cross-section: 1.5 mm² max
- Cable Entry: PG9 (6 to 8 mm)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with supplied gasket
- Insulation class: group C- VDE 0110
- Housing colour: black
- UL approved, file No: E205538



* Plug and gasket not supplied as standard, must be ordered separately.

Coding chart

Main Valve Assembly

Valve Type	
D	AC
CD	DC

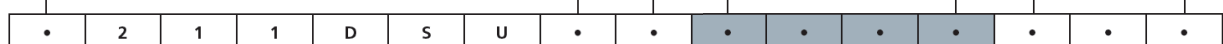
Option	
K	Electroless nickel plating
	w/o option

Coil options

Voltage / Frequency - Class F	
7250	24 VDC
7200	24 V / 50/60 Hz
7400	110 V / 50 Hz - 120 V / 60 Hz
7600	200 V / 50 Hz - 220 V / 60 Hz
7700	230 V / 50 Hz - 240 V / 60 Hz

Plug

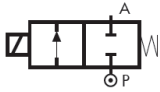
Plug	
0A1	c/w plug
	w/o plug



Product coding example:

D211DSU 7250
 3/8" G, auto operation, brass body, silicone FDA seals, 10.5 mm orifice, 24 VDC, without plug.

WB251 Series, Dry Armature – 2/2 Normally Closed

Specifications	
Function (single acting)	
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Natural polysulphone FDA compliant (PSU)
Tube	Stainless Steel AISI 304
Flange	POM
Plunger	Stainless Steel 1.4105 EN 10088 (AISI 430F) or equivalent
Top Stop	Stainless Steel 1.4105 EN 10088 (AISI 430F)
Springs	Stainless Steel AISI 302
Seal Material (Std)	Silicone FDA compliant
Connection Type (Std)	See table
Shading Ring	Copper
Electrical Characteristics	
Standard Coil Voltage DC (=)	24 V
Standard Coil Voltage AC 50 Hz (-)	24 V, 110 V, 200 V, 230 V
Standard Coil Voltage AC 60 Hz (-)	24 V, 120 V, 220 V, 240 V
Voltage Tolerance	+10% to -15% (AC)
	+10% to -5% (DC)
Duty Cycle	100% ED
Protection Class	IP65 (EN 60529) with plug and gasket correctly fitted *
Electrical Connection	to industrial form B
Coil Insulation	Class F 155 °C
Power Rating (Standard)	AC 10 VA (holding) AC 16 VA (inrush) DC 10 W

Features and Benefits

- Direct Acting
- Robust construction for industrial applications
- Zero pressure rated
- Stainless steel AISI 430F operators with low residual magnetism
- Coils tested 100% in compliance to RoHS directive and to relevant international standards
- High quality seal material
- Total separation between internal parts and medium
- Flow regulation screw as standard
- Flat gasket included (see drawing)
- Response time 5 to 25 ms



Connection Type	OPD (bar)		Orifice (mm)	Seal Material	Valve Code ²
	AC Voltages	DC Voltages			
Ø 12 x L=35	0 - 0.07	0 - 0.05	9	Silicone	WB251DSS
	0 - 0.07	0 - 0.05	9	Silicone	WB251DSS1

² Product subject to phase-out, please contact sales office for availability.

NOTE: Vent pipe length for WB251DSS is 130 mm - vent pipe length for WB251DSS1 is 270 mm.

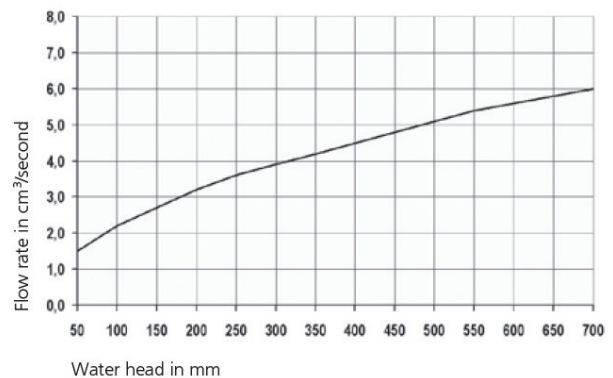
Seal Material ¹ and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
Silicone FDA compliant (-10 °C to +95 °C)	Water and beverages	-10 °C	+50 °C

¹ See corrosion reference guide and sealing solutions for material compatibility.

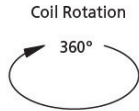
How to use the flow chart

1. Select the required flow.
2. Note the corresponding pressure drop.
3. Based on where the two points intersect select the most appropriate model.

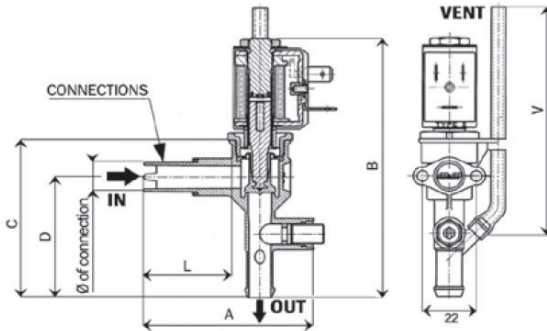
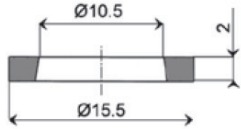
Flow chart



Preferred Valve Mounting Options



Flat gasket



Valve Type	A	B	C	D	E	Weight (kg)
WB251DSS	70	108	65.5	50.2	95	0.175
WB251DSS1	70	108	65.5	50.2	235	0.175

Dimensions (mm)

Solenoid enclosures

2--0 Type Coil - Insulation class F

- External material: PBT (reinforced fiberglass 30%)
- Electrical connection: Industrial form B
- Winding insulation: Class H (E180)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with plug and gasket correctly fitted*



Type 600 001- Plug

- Rated Voltage (max.): 250 VAC / 300 VDC
- Nominal Current: 10A (rated) / 16A (max)
- Wire cross-section: 1.5 mm² max
- Cable Entry: PG9 (6 to 8 mm)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with supplied gasket
- Insulation class: group C- VDE 0110
- Housing colour: black
- UL approved, file No: E205538



* Plug and gasket not supplied as standard, must be ordered separately.

Coding chart

Main Valve Assembly

Coil options

Plug

Option	
-	tube 6 x 4 x 130mm
1	tube 6 x 4 x 270 mm

Voltage / Frequency - Class F (High Power DC only)	
22V0	24 VDC
2200	24 V / 50/60 Hz
2400	110 V / 50 Hz - 120 V / 60 Hz
2600	200 V / 50 Hz - 220 V / 60 Hz
2700	230 V / 50 Hz - 240 V / 60 Hz

Plug	
0B1	c/w plug
	w/o plug

WB	2	5	1	D	S	S
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Product coding example:

WB251DSS 22V0
PSU body with vent pipe length 130 mm, auto operation, silicone seals, 24 VDC, without plug.