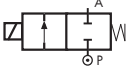


## D298/299 Series, High Pressure – 2/2 Normally Closed

Specifications	
Function (single acting)	 <p>Flow direction overseat 1 → 2</p>
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Stainless Steel 1.4305 EN 10088 (AISI 303)
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)	Ruby
Standard Connection Type	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
High Power Coil Voltage DC (=)	24 V
High Power Coil Voltage AC 50 Hz (-)	24 V, 110 V, 230 V
High Power Coil Voltage AC 60 Hz (-)	24 V, 120 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 H 180 °C
Power Rating (High Power)	AC 25 VA (holding) AC 50 VA (inrush) DC 22 Watts

### Features and Benefits

- Direct Acting
- Robust construction for industrial applications
- 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 materials
- Wide range of available orifices
- Response time 5 to 25 ms



Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code <sup>1</sup>
			AC Voltages	DC Voltages			
¼"	0.05	0.04	0 - 200	0 - 110	1.2	RUBY	D299D <u>R</u> B1
¼"	0.08	0.07	0 - 200	0 - 80	1.5	RUBY	D299D <u>R</u> C1
¼"	0.16	0.14	0 - 140	0 - 30	2.0	RUBY	D299D <u>R</u> E1
¼"	0.23	0.20	0 - 90	0 - 23	2.5	RUBY	D299D <u>R</u> G1
¼"	0.32	0.27	0 - 50	0 - 14	3.0	RUBY	D299D <u>R</u> H1

NOTE: Not 100% leak-proof when used with air/gases. Approx leak rate is 1.5ml/min at max OPD.

<sup>1</sup> ATTENTION: when high pressure valves are supplied without a coil, their nameplates display the max OPD of the valve when equipped with an AC (25VA) and DC (22W) coil. If fitting coils with a different power rating OPD will vary, please consult supplier for more details.

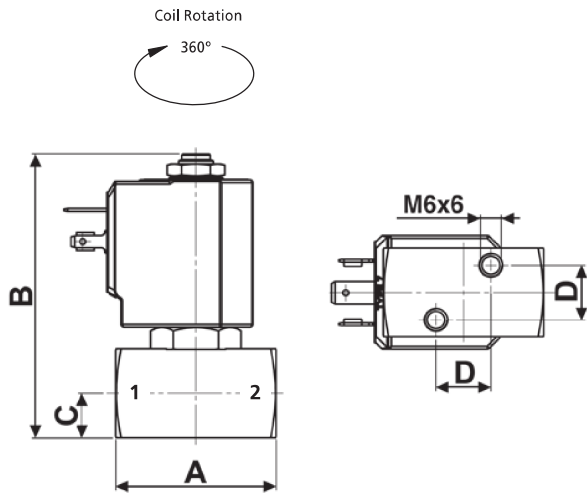
### Options Available

Valve Options (see coding chart)
Body threaded connection G ½"
NPT Threads (minimum batch may be required)
Anticorrosion treatment recommended with aggressive fluids
Silver shading ring

Seal Material <sup>1</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
RUBY (-10 °C to +130 °C)	Water, oil, air, aggressive fluids	-10 °C	+50 °C

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

# D298/299 Series, High Pressure – 2/2 Normally Closed



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
1/8" - 1/4"	45	80	12.5	15.4	0.36

Dimensions (mm)

## Solenoid enclosures

### 7-K1 & 7-Z1 Type Coil - Insulation class H

External material: PPS (glass fiber & mineral filled)  
 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\*



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

### Type 600 011- Plug

Rated Voltage (max.): 250 VAC / 300 VDC  
 Nominal Current: 10A (rated) / 16A (max)  
 Wire cross-section: 1.5 mm<sup>2</sup> max  
 Cable Entry: PG9 (6 to 8mm)  
 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



## Coding chart

### Main Valve Assembly

Pipe Size	
8	1/8"
9	1/4"

Orifice		Option	
B	1.2	A	Silver shading ring
C	1.5	F	Anticorrosion treatment <sup>1</sup>
E	2.0	N	NPT
G	2.5		w/o option
H	3.0		

### Coil options

Voltage / Frequency - Class H, High Power	
72Z1	24 VDC
72K1	24 V / 50/60 Hz
74K1	110 V / 50 Hz - 120 V / 60 Hz
77K1	230 V / 50 Hz - 240 V / 60 Hz

### Plug

Plug	
	w/o plug
0A1	c/w plug

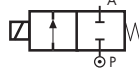
D	2	9	•	D	R	•	•	1	•	•	•	•	•	•	•	•	•
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<sup>1</sup> Recommended with aggressive fluids.

## Product coding example:

D298DRC1 72Z1 0A1  
 1/8" G, auto operation, stainless steel body, RUBY seals, 1.5 mm orifice, 24 VDC, with plug.

## D262DR-1/263DR-1 Series, High Pressure – 2/2 Normally Closed

Specifications	
Function (single acting)	 <p>Flow direction overseat 1 → 2</p>
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)	RUBY
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
High Power Coil Voltage DC (=)	24 V
High Power Coil Voltage AC 50 Hz (-)	24 V, 110 V, 230 V
High Power Coil Voltage AC 60 Hz (-)	24 V, 120 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 H 180 °C
Power Rating (High Power)	AC 25 VA (holding) AC 50 VA (inrush) DC 22W

### Features and Benefits

- Direct Acting
- Robust construction for industrial applications
- 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 materials
- 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			
¼"	0.05	0.04	0 - 200	0 - 60	1.2	RUBY	D263DRB1
¼"	0.09	0.08	0 - 200	0 - 35	1.5	RUBY	D263DRC1
¼"	0.15	0.13	0 - 120	0 - 25	2.0	RUBY	D263DRE1
¼"	0.32	0.27	0 - 50	0 - 11	3.0	RUBY	D263DRH1

NOTE: Not 100% leak-proof when used with air/gases. Approx leak rate is 1.5ml/min at max OPD.

ATTENTION: when high pressure valves are supplied without a coil, their nameplates display the max OPD of the valve when equipped with an AC (25VA) and DC (22W) coil. If fitting coils with a different power rating OPD will vary, please consult supplier for more details.

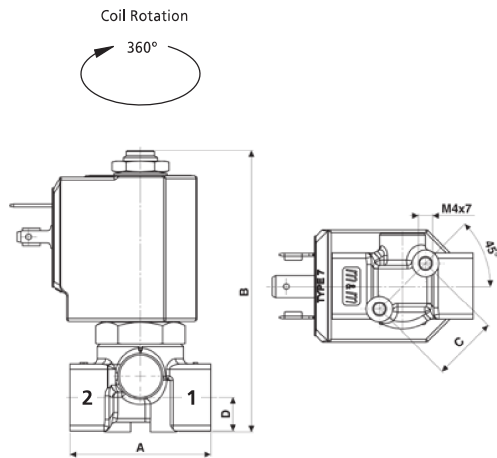
### Options Available

Valve Options (see coding chart)
Body threaded connection G ½"
NPT threads (minimum batch may be required)

Seal Material <sup>1</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
RUBY (-10 °C to +130 °C)	Water, oil, air, aggressive fluids	-10 °C	+50 °C

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

# D262DR-1/263DR-1 Series, High Pressure – 2/2 Normally Closed



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
1/8" - 1/4"	40	77.5	18.5	9.5	0.26

Dimensions (mm)

## Solenoid enclosures

### 7-K1 & 7-Z1 Type Coil - Insulation class H

- External material: PPS (glass fiber & mineral filled)
- 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 mm<sup>2</sup> 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

Pipe Size
2 1/8"
3 1/4"

Orifice	Option
B 1.2	N NPT
C 1.5	M Manual override
E 2.0	w/o option
H 3.0	

### Coil options

Voltage / Frequency - Class H, High Power	
72Z1	24 VDC
72K1	24 V / 50/60 Hz
74K1	110 V / 50 Hz - 120 V / 60 Hz
77K1	230 V / 50 Hz - 240 V / 60 Hz

### Plug

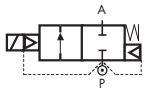
Plug
w/o plug
0A1 c/w plug



### Product coding example:

D263DRB1 72Z1 0A1  
 1/4" G, auto operation, brass body, RUBY seals, 1.2 mm orifice, 24 VDC, with plug.

## D634/635/636DTT1 Series, High Pressure – 2/2 Normally Closed

Specifications	
Function (single acting)	 <p>Flow direction overseat 1 → 2</p>
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)
Piston Material	Brass CW614N (EN 12164)
Springs	Stainless Steel AISI 302
Seal Material (Std)	PTFE
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
High Power Coil Voltage DC (=)	24 V
High Power Coil Voltage AC 50 Hz (-)	24 V, 110 V, 200 V, 230 V
High Power 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 H 180 °C
Power Rating (High Power)	AC 25 VA (holding) AC 50 VA (inrush) DC 22 W

### Features and Benefits

- Pilot operated
- Robust construction for industrial applications
- 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 materials
- 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			
¼"	1.47	1.26	0.3 - 140	0.3 - 35	10	PTFE	D634DIT1
⅜"	1.68	1.44	0.3 - 140	0.3 - 35	10	PTFE	D635DIT1
½"	1.76	1.50	0.3 - 140	0.3 - 35	10	PTFE	D636DIT1

**NOTE:** Not 100% leak-proof when used with air/gases. Approx leak rate is 1.5ml/min at max OPD.

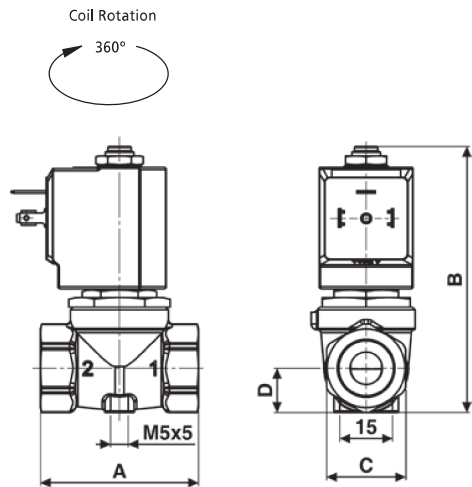
**ATTENTION:** when high pressure valves are supplied without a coil, their nameplates display the max OPD of the valve when equipped with an AC (25VA) and DC (22W) coil. If fitting coils with a different power rating OPD will vary, please consult supplier for more details.

### Options Available

Seal Material <sup>1</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
PTFE (-10 °C to +130 °C)	Water, oil, liquids	-10 °C	+50 °C

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

# D634/635/636DTT1 Series, High Pressure – 2/2 Normally Closed



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
¼"	54	100	HEX 27	15	0.5
¾" to ½"	54	100	HEX 27	15	0.45

Dimensions (mm)

## Solenoid enclosures

### 7-K1 & 7-Z1 Type Coil - Insulation class H

- External material: PPS (glass fiber & mineral filled)
- 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 mm<sup>2</sup> 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

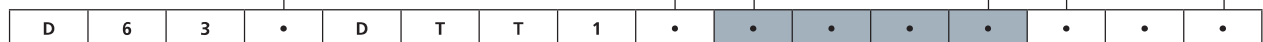
Pipe Size
4 ¼"
5 ¾"
6 ½"

### Coil options

Option	Voltage / Frequency - Class H, High Power
w/o option	72Z1 24 VDC
	72K1 24 V / 50/60 Hz
	74K1 110 V / 50 Hz - 120 V / 60 Hz
	77K1 230 V / 50 Hz - 240 V / 60 Hz

### Plug

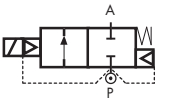
Plug
w/o plug
0A1 c/w plug



### Product coding example:

D634DTT1 72Z1  
¼" G, auto operation, brass body, PTFE seals, 10 mm orifice, 24 VDC, without plug.

## D232/233/234 Series, High Pressure & Compressed Air – 2/2 Normally Closed

Specifications	
Function (single acting)	 Flow direction overseat 1 → 2
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
Operator Seal Material <sup>1</sup>	RUBY
Diaphragm Material	FKM
Main Seal Material <sup>1</sup>	PTFE
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

<sup>1</sup> For D23-D<sub>Y</sub>W operator seal material is foodgrade FKM and main seal material is FKM.

### Features and Benefits

- Pilot operated
- Robust construction for industrial applications
- 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 materials
- Response time 50 to 500 ms



Pipe Size	Cv (gpm)	Kv (m <sup>3</sup> /h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code
			AC Voltages	DC Voltages			
3/8"	2.95	2.52	1 - 50	1 - 50	16	PTFE	D232D <sub>I</sub> W <sup>2</sup>
1/2"	3.23	2.76	1 - 50	1 - 50	16	PTFE	D233D <sub>I</sub> W <sup>2</sup>
3/4"	3.37	2.88	1 - 50	1 - 50	16	PTFE	D234D <sub>I</sub> W <sup>2</sup>
3/8"	2.95	2.52	1 - 25	1 - 25	16	FKM	D232D <sub>Y</sub> W <sup>3</sup>
1/2"	3.23	2.76	1 - 25	1 - 25	16	FKM	D233D <sub>Y</sub> W <sup>3</sup>
3/4"	3.37	2.88	1 - 25	1 - 25	16	FKM	D234D <sub>Y</sub> W <sup>3</sup>

<sup>2</sup> Not 100% leak-proof when used with air/gases. Approximate leak rate is 1,5 ml/min at max. OPD.

<sup>3</sup> Non standard, MOQ required.

### Options Available

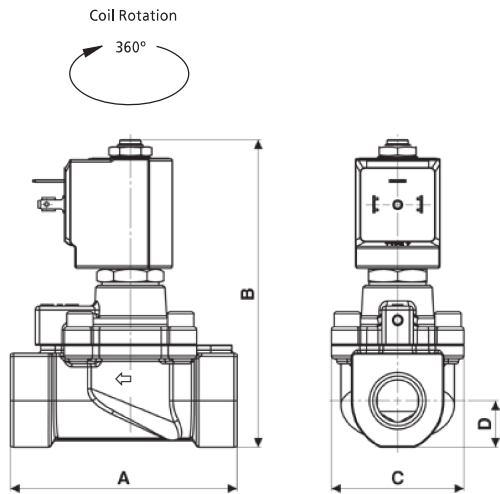
Valve Options (see coding chart)
NPT threads (minimum batch may be required)

Seal Material <sup>4</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
PTFE (-10 °C to +130 °C)	Water <sup>5</sup> , oil, air	-10 °C	+50 °C
FKM (-10 °C to +130 °C)	Water <sup>5</sup> , oil, air	-10 °C	+50 °C

<sup>4</sup> See corrosion reference guide and sealing solutions for material compatibility.

<sup>5</sup> When using liquid fluids waterhammer and pressures higher than 20 barg can cause the diaphragm to tear.

# D232/233/234 Series, High Pressure & Compressed Air – 2/2 Normally Closed



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
3/8"	86	116.5	50.2	17.5	1
1/2" - 3/4"	86	116.5	50.2	17.5	0.9

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 mm<sup>2</sup> 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

Pipe Size	
2	3/8"
3	1/2"
4	3/4"

Seals	
T	PTFE
V	FKM

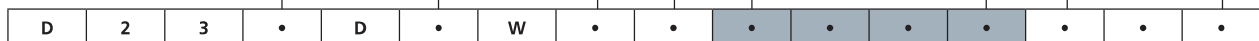
Option	
N	NPT
	w/o option

### 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	
	w/o plug
0A1	c/w plug

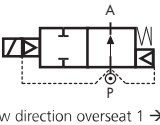


## Product coding example:

D232DTW 7200  
 3/8" G, auto operation, brass body, PTFE main seal, 16 mm orifice, 24 V / 50/60 Hz, without plug.



## RD232/233/234 Series, High Pressure – 2/2 Normally Open

Specifications	
Function (single acting)	 Flow direction overseat 1 → 2
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	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
Operator Seal Material <sup>1</sup>	RUBY
Diaphragm Material	FKM
Main Seal Material <sup>1</sup>	PTFE
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 H 180 °C
Power Rating (Standard)	AC 18 VA (holding) AC 36 VA (inrush) DC 14 W

<sup>1</sup> For RD23-DVW operator seal material is foodgrade FKM and main seal material is FKM.

### Features and Benefits

- Pilot operated
- Robust construction for industrial applications
- 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 materials
- Response time 50 to 500 ms



Pipe Size	Cv (gpm)	Kv (m <sup>3</sup> /h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code
			AC Voltages	DC Voltages			
3/8"	2.95	2.52	1 - 50	1 - 50	16	PTFE	RD232DIW <sup>2</sup>
1/2"	3.23	2.76	1 - 50	1 - 50	16	PTFE	RD233DIW <sup>2</sup>
3/4"	3.37	2.88	1 - 50	1 - 50	16	PTFE	RD234DIW <sup>2</sup>
3/8"	2.95	2.52	1 - 25	1 - 25	16	FKM	RD232DVW <sup>3</sup>
1/2"	3.23	2.76	1 - 25	1 - 25	16	FKM	RD233DVW <sup>3</sup>
3/4"	3.37	2.88	1 - 25	1 - 25	16	FKM	RD234DVW <sup>3</sup>

<sup>2</sup> Not 100% leak-proof when used with air/gases. Approximate leak rate is 1,5 ml/min at max. OPD.

<sup>3</sup> Non standard, MOQ required.

### Options Available

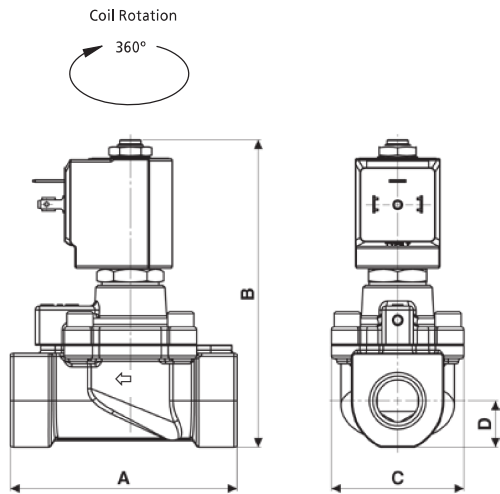
Valve Options (see coding chart)
NPT threads (minimum batch may be required)

Seal Material <sup>4</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
PTFE (-10 °C to +130 °C)	Water <sup>5</sup> , oil, air	-10 °C	+50 °C
FKM (-10 °C to +130 °C)	Water <sup>5</sup> , oil, air	-10 °C	+50 °C

<sup>4</sup> See corrosion reference guide and sealing solutions for material compatibility.

<sup>5</sup> When using liquid fluids waterhammer and pressures higher than 20 barg can cause the diaphragm to tear.

# RD232/233/234 Series, High Pressure – 2/2 Normally Open



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
3/8"	86	116.5	50.2	17.5	1
1/2" - 3/4"	86	116.5	50.2	17.5	0.9

Dimensions (mm)

## Solenoid enclosures

### 7--1 Type Coil - Insulation class H

External material: PPS (glass fiber & mineral filled)  
 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 mm<sup>2</sup> 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

Pipe Size	
2	3/8"
3	1/2"
4	3/4"

Seals	
T	PTFE
V	FKM

Option	
N	NPT
	w/o option

Voltage / Frequency - Class H	
7251	24 VDC
7201	24 V / 50/60 Hz
7401	110 V / 50 Hz - 120 V / 60 Hz
7601	200 V / 50 Hz - 220 V / 60 Hz
7701	230 V / 50 Hz - 240 V / 60 Hz

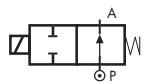
Plug	
	w/o plug
0A1	c/w plug

RD	2	3	.	D	.	W	.	.	.	.	.	.	.	.	.
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### Product coding example:

RD233DTW 7701 0A1  
 1/2" G, auto operation, brass body, PTFE seals, 16.5 mm orifice, 230 V / 50 Hz - 240 V / 60 Hz, with plug.

## RD236DR-1 Series, High Pressure – 2/2 Normally Open

Specifications	
Function (single acting)	 <p>Flow direction overseat 1 → 2</p>
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)	Ruby
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
High Power Coil Voltage DC (=)	24 V
High Power Coil Voltage AC 50 Hz (-)	24 V, 110 V, 230 V
High Power Coil Voltage AC 60 Hz (-)	24 V, 120 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 H 180 °C
Power Rating (High Power)	AC 25 VA (holding) AC 50 VA (inrush) DC 22 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 materials
- 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			
¼"	0.04	0.03	0 - 180	0 - 180	1.0	RUBY	RD236DBA1
¼"	0.09	0.08	0 - 150	0 - 150	1.5	RUBY	RD236DRC1
¼"	0.14	0.12	0 - 60	0 - 60	2.0	RUBY	RD236DBE1
¼"	0.20	0.17	0 - 37	0 - 37	2.5	RUBY	RD236DRG1
¼"	0.25	0.21	0 - 28	0 - 28	3.0	RUBY	RD236DRH1

NOTE: Not 100% leak-proof when used with air/gases. Approx leak rate is 1.5ml/min at max OPD.

ATTENTION: when high pressure valves are supplied without a coil, their nameplates display the max OPD of the valve when equipped with an AC (25VA) and DC(22W) coil. If fitting coils with a different power rating OPD will vary, please consult supplier for more details.

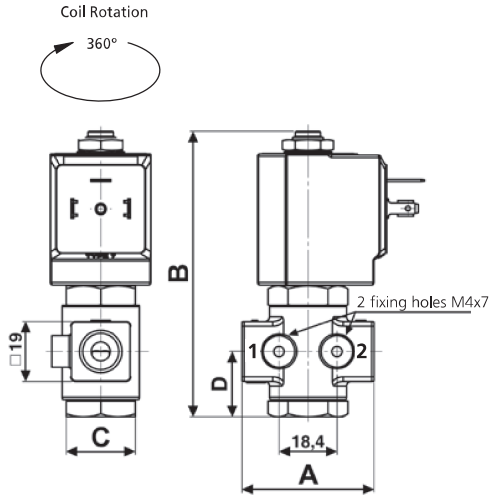
### Options Available

Valve Options (see coding chart)
Coils with additional protection by impregnation with Loctite® Resinol RTC for humid environments

Seal Material <sup>1</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
RUBY (-10 °C to +130 °C)	Water, oil, air, aggressive fluids	-10 °C	+50 °C

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

# RD236DR-1 Series, High Pressure – 2/2 Normally Open



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
1/4"	47	91	Hex 22	20.75	0.25

Dimensions (mm)

## Solenoid enclosures

### 7-K1 & 7-Z1 Type Coil - Insulation class H

External material: PPS (glass fiber & mineral filled)  
 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 mm<sup>2</sup> 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

Orifice	
A	1.0
C	1.5
E	2.0
G	2.5
H	3.0

Option	
w/o option	

Voltage / Frequency - Class H, High Power	
72Z1	24 VDC
72K1	24 V / 50/60 Hz
74K1	110 V / 50 Hz - 120 V / 60 Hz
77K1	230 V / 50 Hz - 240 V / 60 Hz
Voltage / Frequency - Class H, High Power, Impregnated	
D2Z1	24 VDC
D2K1	24 V / 50/60 Hz
D4K1	110 V / 50 Hz - 120 V / 60 Hz
D7K1	230 V / 50 Hz - 240 V / 60 Hz

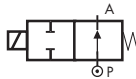
Plug	
0A1	c/w plug
	w/o plug



### Product coding example:

RD236DRC1 72K1  
 1/4" G, auto operation, brass body, RUBY seals, 1.5 mm orifice, 24 VDC, without plug.

## RD201 Series High Pressure – 2/2 Normally Open

Specifications	
Function (single acting)	 <p>Flow direction overseat 1 → 2</p>
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Brass CW617N (EN 12165)
Orifice Material	Stainless Steel 1.4305 EN 10088 (AISI 303)
Flange	Stainless Steel 1.4305 EN 10088 (AISI 303)
Tube	Stainless Steel AISI 304
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)	Ruby
Connection Type (Std)	Flanged 32x32mm
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 H 180 °C
Power Rating (Standard)	AC 18 VA (holding) AC 36 VA (inrush) DC 14 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 materials
- 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			
Flanged	0,09	0,08	0 - 55	0 - 55	1,5	Ruby	RD201DRC
Flanged	0,24	0,20	0 - 25	0 - 25	2,0	Ruby	RD201DBE
Flanged	0,32	0,27	0 - 10	0 - 10	3,0	Ruby	RD201DBH

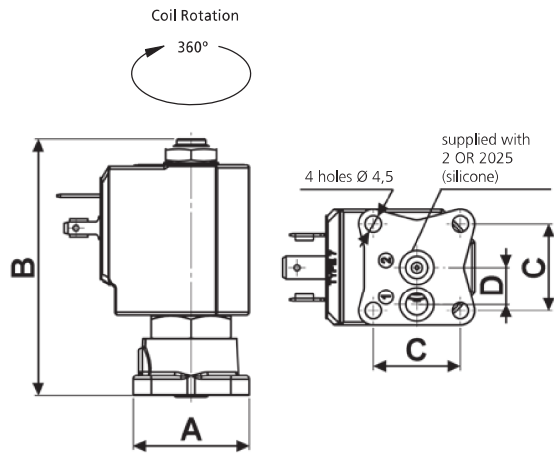
NOTE: Not 100% leak-proof when used with air/gases. Approx leak rate is 1.5ml/min at max OPD.

### Options Available

Seal Material <sup>1</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
RUBY (-10 °C to +130 °C)	Water, oil, liquids	-10 °C	+50 °C

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

# RD201 Series High Pressure – 2/2 Normally Open



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
Flanged	32	68,4	24	10,25	0,3

Dimensions (mm)

## Solenoid enclosures

### 7--1 Type Coil - Insulation class H

- External material: PPS (glass fiber & mineral filled)
- 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 mm<sup>2</sup> 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



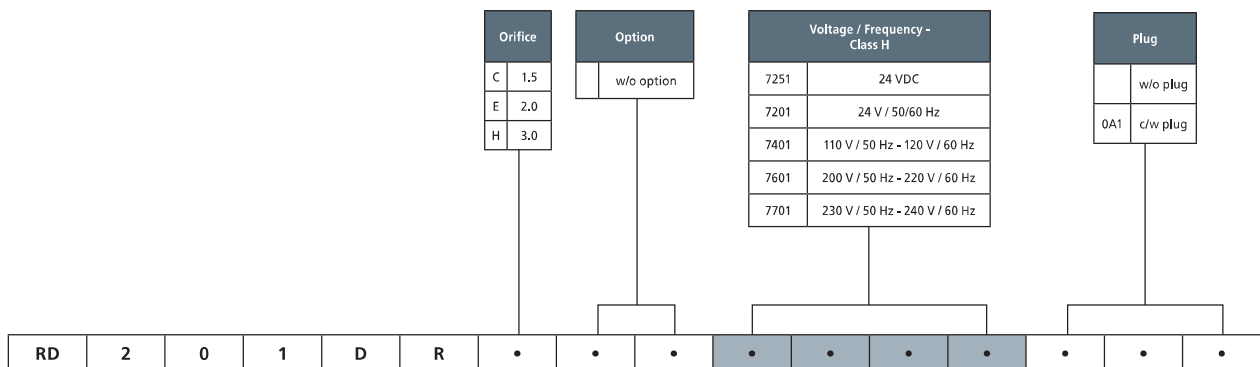
\* Plug and gasket not supplied as standard, must be ordered separately.

## Coding chart

### Main Valve Assembly

### Coil options

### Plug



### Product coding example:

RD201DRC 7201  
 Flanged connection, auto operation, brass body, RUBY seals, 1.5 mm orifice, 24 V / 50 Hz/60 Hz, without plug.