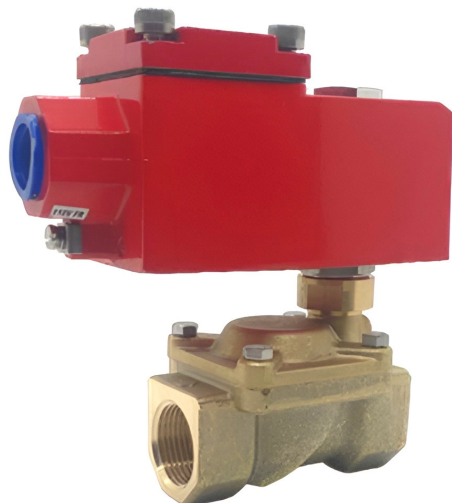


R2SP-R2SR EX 2/2 way Normally Closed Pilot Operated ATEX Solenoid Valve



Construction:

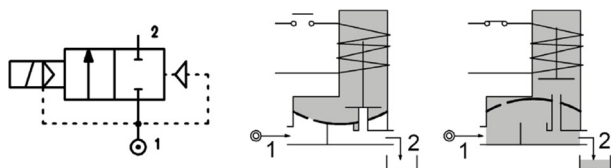
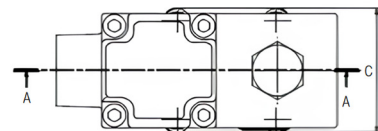
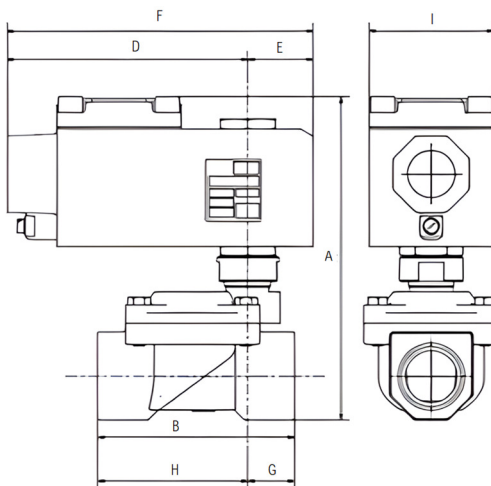
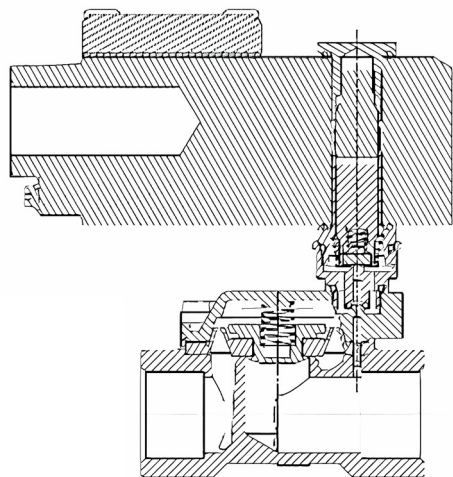
Body: Brass CW614N
Armature Tube: Stainless Steel AISI 303
Seals: NBR, FKM, EPDM
Plunger and Core: Stainless Steel AISI 430FR
Springs: Stainless Steel AISI 302
Electrical Housing: Aluminium Epoxy Resin

Maximum allowable pressure: 26bar
Maximum fluid viscosity: 25cSt (mm²/s)
Protection class IP66/IP67
Surge suppressor diode included

ATEX protection grade:

II 2GD Ex db IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db, IP66/IP67
T122 ATEX 278 X
-40°C<Ta<60°C FOR T6
-40°C<Ta<70°C FOR T5

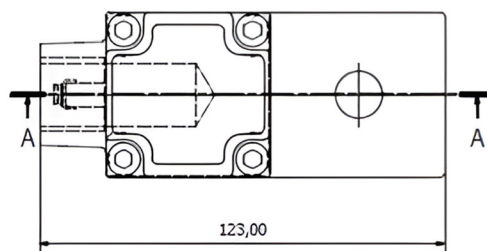
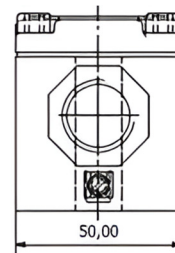
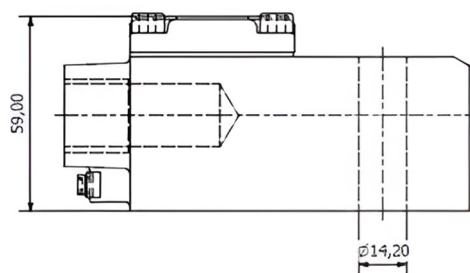
ATEX / IECEx system available on request
Stainless Steel AISI 316 ATEX housing on request



Valve Type	Dimensions								
	A	B	C	D	E	F	G	H	I
R2SP-A G3/8"	123	58	46	97	27	123	14	44	50
R2SP-A G1/2"	123	58	46	97	27	123	14	44	50
R2SP-A G3/4"	131	78	56	97	27	123	19	60	50
R2SP-A G1"	140	95	74	97	27	123	19	78	50
R2SR G 1 1/4"	151	130	96	97	27	123	23	107	50
R2SR G 1 1/2"	151	130	96	97	27	123	23	107	50
R2SR G 2"	168	155	122	97	27	123	22	133	50

Code	Port Size ISO 228	Orifice mm	Flow Rate Kvs m ³ /h	Switch-On Time	Switch-Off Time	Differential Pressure (bar)			Coil		Seal
						min	max. AC (*)	Max.DC (*)	series	width mm	
R2SPCCG12/AEX/ <u>Coil</u>	3/8"	13	2.2	30ms	50ms	0.15	10	10	50Ax	50	NBR=B EPDM=E FPM=V
R2SPCDG12/AEX/ <u>Coil</u>	1/2"	13	2.5			0.15	10	10			
R2SPCEG18/AEX/ <u>Coil</u>	3/4"	19	5.5	50ms	80ms	0.15	10	10			
R2SPCFG25/AEX/ <u>Coil</u>	1"	25	10.2			0.15	10	10			
R2SPCGG32/AEX/ <u>Coil</u>	1 1/4"	32	18	150 to 1000ms	150 to 1000ms	0.15	6	6			
R2SPCHG40/AEX/ <u>Coil</u>	1 1/2"	40	21			0.15	6	6			
R2SPCG50/AEX/ <u>Coil</u>	2"	50	36			0.15	6	6			

(*) Performance with voltage tolerance +/-10%



Coil	Coil P/N	Voltage	Nominal Power			Electrical Connection	Connectors
			AC VA Inrush	AC VA Holding	DC Watt		
Series 50Ax Width 50mm	50A1	24V DC/AC	-	-	8	Terminal Box	1/2NPT cable Gland (not included)
	50AD	110V DC/AC	-	-	8		
	50AE	230V DC/AC	-	-	8		

(*) Other voltages available on request

Information:

100% ED

Voltage Tolerance: +20% -10%

Bore size: 14mm

Encapsulated Coil

Electrical housing: Aluminium Epoxy Resin

Maximum dissipated power: 30W

Degree of protection: IP66/IP67

ATEX protection grade:

II 2GD Ex db IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db, IP66/IP67
T122 ATEX 278 X
-40°C<Ta<60°C FOR T6
-40°C<Ta<70°C FOR T5

ATEX / IECEX system available on request

Stainless Steel AISI 316 ATEX housing on request

R2MH EX 2/2 way Normally Closed Assisted Lift ATEX Solenoid Valve



Construction:

Body: Brass CW617N
 Armature Tube: Stainless Steel AISI 303
 Seals: NBR, FKM, EPDM
 Plunger and Core: Stainless Steel AISI 430FR
 Springs: Stainless Steel AISI 302
 Electrical Housing: Aluminium Epoxy Resin

Maximum allowable pressure: 26bar

Maximum fluid viscosity: 25cSt (mm²/s)

Protection class IP66/IP67

Surge suppressor diode included

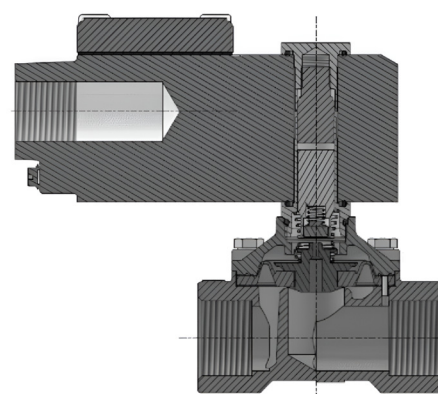
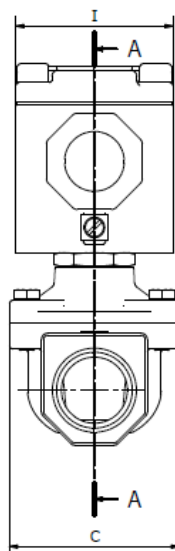
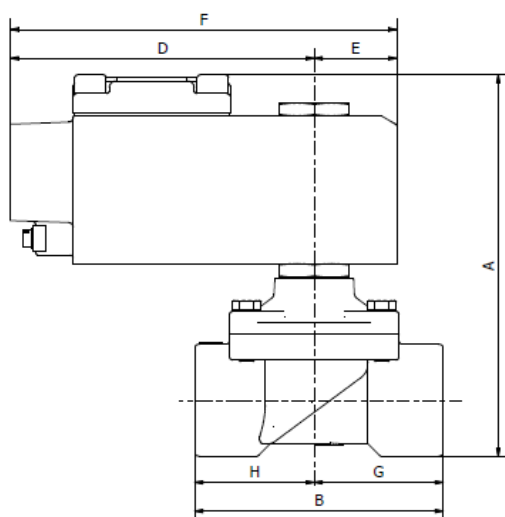


ATEX protection grade:

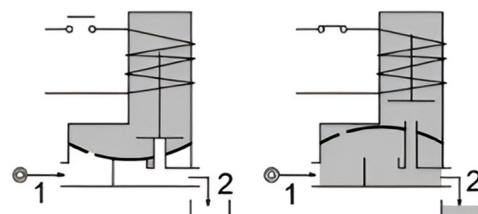
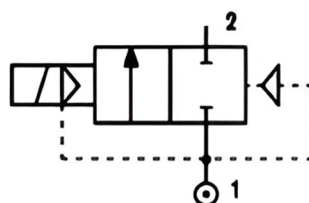
II 2GD Ex db IIC T6/T5 Gb
 Ex tb IIIC T80°C/T95°C Db, IP66/IP67
 T122 ATEX 278 X
 -40°C<Ta<60°C FOR T6
 -40°C<Ta<70°C FOR T5

ATEX / IECEX system available on request

Stainless Steel AISI 316 ATEX housing on request

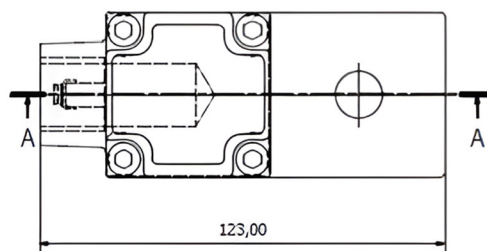
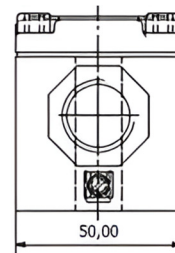
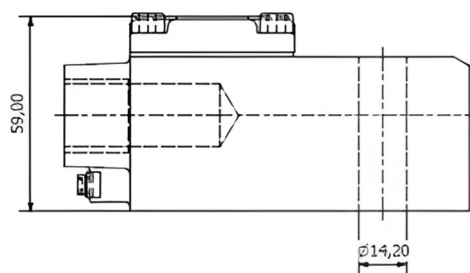


Valve Type	Dimensions								
	A	B	C	D	E	F	G	H	I
R2MH G3/8"	110	59	45	26	97	123	31	28	50
R2MH G1/2"	110	59	45	26	97	123	31	28	50
R2MH G3/4"	121	79	54	26	97	123	41	38	50
R2MH G1"	130	96	72	26	97	123	48	48	50



Code	Port Size ISO 228	Orifice mm	Flow Rate Kvs m ³ /h	Differential Pressure (bar)			Coil		Seal
				min	max. AC (*)	Max.DC (*)	series	width mm	
R2MHCCGV12/EX/Coil	3/8"	13	2.2	0	6	6	50Ax	50	NBR=B
R2MHCDGV12/EX/Coil	1/2"	13	2.5	0	6	6			EPDM=E
R2MHCEGV18/EX/Coil	3/4"	19	5.5	0	6	6			FPM=V

(*) Performance with voltage tolerance +/-10%



Coil	Coil P/N	Voltage	Nominal Power			Electrical Connection	Connectors
			AC VA Inrush	AC VA Holding	DC Watt		
Series 50Ax Width 50mm	50A1	24V DC/AC	-	-	8	Terminal Box	1/2NPT cable Gland (not included)
	50AD	110V DC/AC	-	-	8		
	50AE	230V DC/AC	-	-	8		

(*) Other voltages available on request

Information:

100% ED

Voltage Tolerance: +20% -10%

Bore size: 14mm

Encapsulated Coil

Electrical housing: Aluminium Epoxy Resin

Maximum dissipated power: 30W

Degree of protection: IP66/IP67

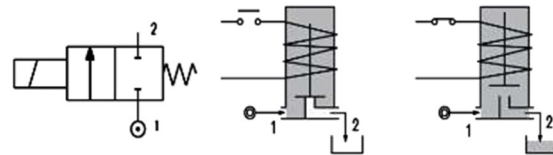
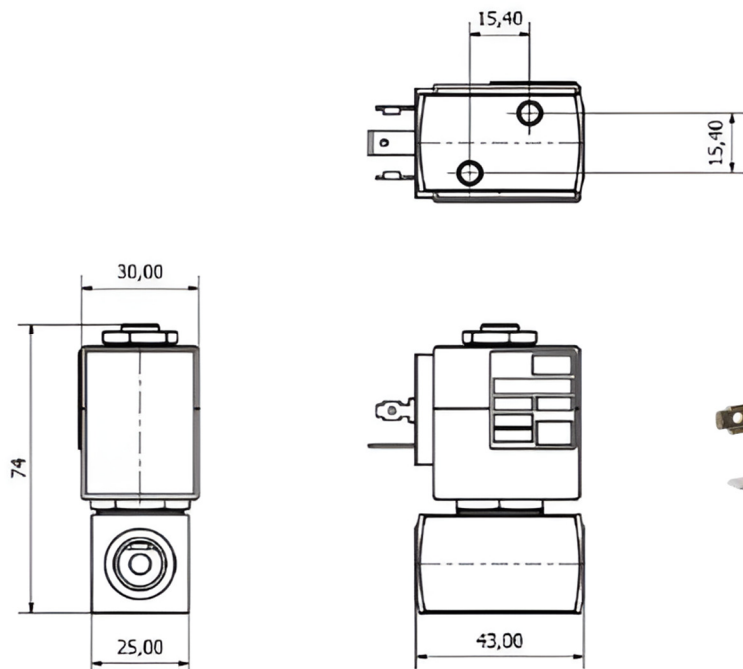
ATEX protection grade:

II 2GD Ex db IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db, IP66/IP67
T122 ATEX 278 X
-40°C<Ta<60°C FOR T6
-40°C<Ta<70°C FOR T5

ATEX / IECEX system available on request

Stainless Steel AISI 316 ATEX housing on request

R2IC 2/2 way Normally Closed Direct Acting Stainless Steel Solenoid Valve



Page 1:

High power coil (3600) valve performance specification

Page 2:

Low power coil (3000) & ATEX coil (30Nx) valve performance

Page 3:

3000 and 3600 coil specification & additional valve information

Page 4:

30Nx ATEX coil full specification

Valve Performance: High Power Coil - 3600 series

Code	Connection G ISO 228	Orifice mm	Flow Rate Kvs m³/h	Differential Pressure (bar)			Coil		Seal	Temp Range °C
				min	max. AC	Max.DC	series	width mm		
R2ICCBG#12/// 3600	1/4"	1.2	0.05	0	100	100	3600	36	NBR=B	-10 +90
R2ICCBG#15/// 3600		1.5	0.07	0	80	80			EPDM=E	-10 +160
R2ICCBG#20/// 3600		2	0.1	0	50	40				
R2ICCBG#25/// 3600		2.5	0.15	0	35	32			FPM=V	-10 +160
R2ICCBG#35/// 3600		3.5	0.32	0	20	19				
R2ICCBG#45/// 3600		4.5	0.41	0	14	13			PTFE = P	-40 +180
R2ICCBG#52/// 3600		5.2	0.47	0	10	9				
R2ICCCG#35/// 3600	3/8"	3.5	0.32	0	20	19			FFKM = K	-20 +180
R2ICCCG#45/// 3600		4.5	0.41	0	14	13				
R2ICCCG#52/// 3600		5.2	0.47	0	10	9				
R2ICCDG#35/// 3600	1/2"	3.5	0.32	0	20	19			RUBY = R	-40 +180
R2ICCDG#45/// 3600		4.5	0.41	0	14	13				
R2ICCDG#52/// 3600		5.2	0.47	0	10	9				

Note: For Industrial Oxygen use, FKM sealing has to be used and Max pressure is limited to 25 bar
The maximum allowable pressure PS for steam is 6bar with PTFE seals and 2.5bar with EPDM

R2IC 2/2 way Normally Closed Direct Acting Stainless Steel Solenoid Valve

Valve Performance: *Low Power Coil - 3000 series and ATEX Coil - 30Nx series*

Code	Connection G ISO 228	Orifice mm	Flow Rate Kvs m³/h	Differential Pressure (bar)			Coil		Seal	Temp Range °C
				min	max. AC	Max.DC	series	width mm		
R2ICCBG#12/// 3000	1/4"	1.2	0.05	0	100	60	3000 30Nx (ATEX)	30	NBR=B	-10 +90
R2ICCBG#15/// 3000		1.5	0.07	0	30	25				
R2ICCBG#20/// 3000		2	0.1	0	22	20				
R2ICCBG#25/// 3000		2.5	0.15	0	16	14			EPDM=E	-10 +160
R2ICCBG#35/// 3000		3.5	0.32	0	10	8				
R2ICCBG#45/// 3000		4.5	0.41	0	6.5	4			FPM=V	-10 +160
R2ICCBG#52/// 3000		5.2	0.47	0	4	1.8			PTFE = P	-40 +180
R2ICCCG#35/// 3000	3/8"	3.5	0.32	0	10	8				
R2ICCCG#45/// 3000		4.5	0.41	0	6.5	4			FFKM = K	-20 +180
R2ICCCG#52/// 3000		5.2	0.47	0	4	1.8				
R2ICCDG#35/// 3000	1/2"	3.5	0.32	0	10	8			RUBY = R	-40 +180
R2ICCDG#45/// 3000		4.5	0.41	0	6.5	4				
R2ICCDG#52/// 3000		5.2	0.47	0	4	1.8				

Note: For Industrial Oxygen use, FKM sealing has to be used and Max pressure is limited to 25 bar
The maximum allowable pressure PS for steam is 6bar with PTFE seals and 2.5bar with EPDM



30Nx coil: ATEX Rated - Ex nA zone 2 (Non-Sparking)

Standard Coil Specification

Stainless Steel Solenoid Valve

Coil	Coil P/N	Voltage	Nominal Power			Electrical Connection	Connectors
			AC	AC	DC		
			VA Inrush	VA Holding	Watt		
Series 3600 (High Power) Width 36mm	3601	24V DC	-	-	24	DIN 43650A	A1B09-1-2A
	360B	24V AC	30	24	-		
	360E	230V AC	30	24	-		
Series 3000 (Low Power) Width 30mm	3001	24V DC	-	-	10		
	300B	24V AC	15	12	-		
	300D	110 AC	15	12	-		
	300E	230 AC	15	12	-		

Description:

- Solenoid valve 2 ways, direct acting
- Stainless Steel AISI 303.
- Switch-On time 18ms.
- Switch-Off time 23ms.

Construction:

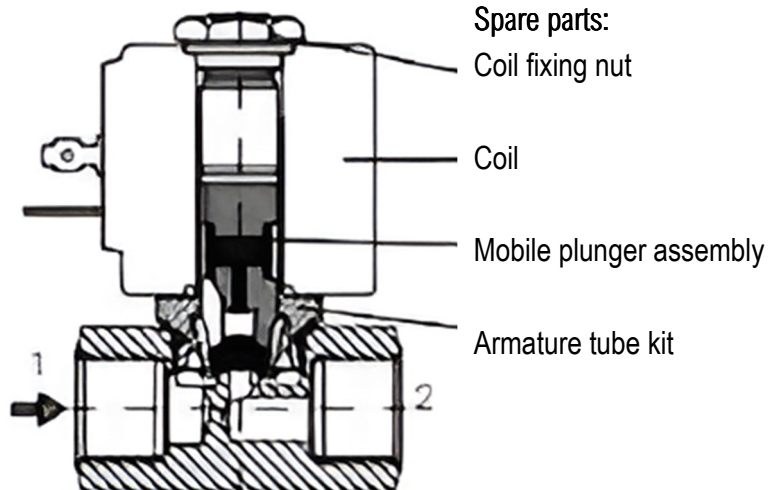
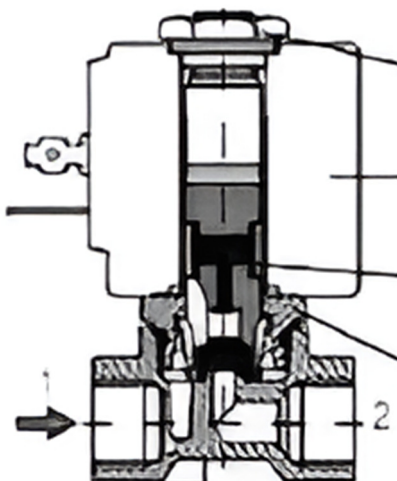
- Body: Stainless Steel AISI 303
- Armature tube: Stainless steel AISI 303
- Plunger and core: Stainless steel 430Fr
- Springs: Stainless steel AISI 302
- Seal material: NBR - FPM – EPDM - PTFE

Features:

- Maximum allowable pressure: 100bar
- Maximum fluid viscosity: 27cSt (mm²/s)
- Ambient temperature:
with class F coil -10°C +55°C
with class H coil -10°C +80°C
- Above 80°C please consult our tech department for support
- Universal mounting position

Options:

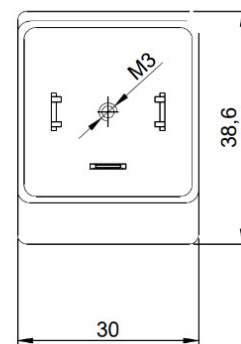
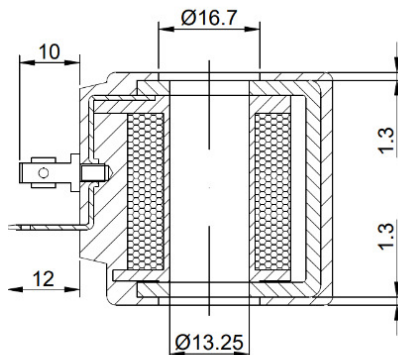
- Manual override
- Degreased for Industrial Oxygen use
- Add "/B" suffix to part number for Back pressure resistant (for more details ask our tech. dept.)
- Others on request



ATEX Ex Coil Electrical Connection DIN43650 A (EN175301-803 ISO 4400)

13mm Armature Tube

ED 100%



Coil	Voltage	Nominal Power		Voltage Tolerance	Service	
		AC (VA)	DC (W)			
30NA	12V 50/60Hz	15	-	+15%	ED 100%	
30NB	24V 50/60Hz					
30NC	48V 50/60Hz			-10%		
30ND	110V 50/60Hz					
30NE	220/230V 50/60Hz					
30N0	12V DC	-	10	+/-10%		
30N1	24V DC					

Information:

100% ED

Voltage Tolerance: +15% -10% (AC Voltages) +/-10% (DC Voltages)

Bore size: 13mm

Encapsulated Coil

Available as Class F (+155°C) or Class H (+180°C)

Construction:

Class F: Fiber-Glass reinforced Nylon

Class H: Fiber-Glass reinforced Polyester

Magnetic Circuit: Zinc-plated steel

Windings: Class H - insulated copper wires

Ambient Temperature:

Class F: -10°C +55°C

Class H: -10°C +80°C

Degree of protection: IP65

ATEX protection grade:

II 3G Ex nA IIC T3 Gc

II 3D Ex tc IIIC T200°C Dc IP65