

Solenoid Valve - 2/2 - Normally Open

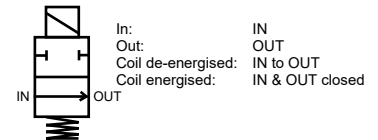
Benefits & Features

- Water, air, general fluids etc
- Media temperature: -10°C to +120°C
- Two way normally open
- Compact design with side flow path
- brass body
- IP65 safe area



Specification

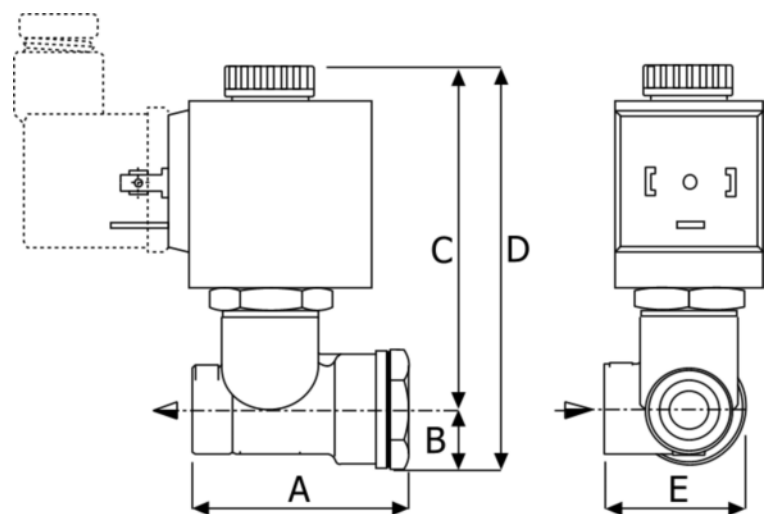
Configuration	Pilot piston
Port Sizes	3/8" BSP
Orifice	8.7mm
Kv	18
Body	Brass
Media	Air, water, liquids etc. Subject to material compatibility



Technical Data

A	N15	B	C	D	E	Port Size BSP	Orifice mm	Design Pressure	Min. / Max. Differential Pressures. Bar.				KV Flow Factor L/Min.	
									Min.	Max. Pressures		60		
										Coil C3	Coil C4			
									0.3	AC	DC	AC	DC	18
										60	-	-	60	

Weight Kg	Dimensions mm				
	A	B	C	D	E
0.8	58	15	74	89	38

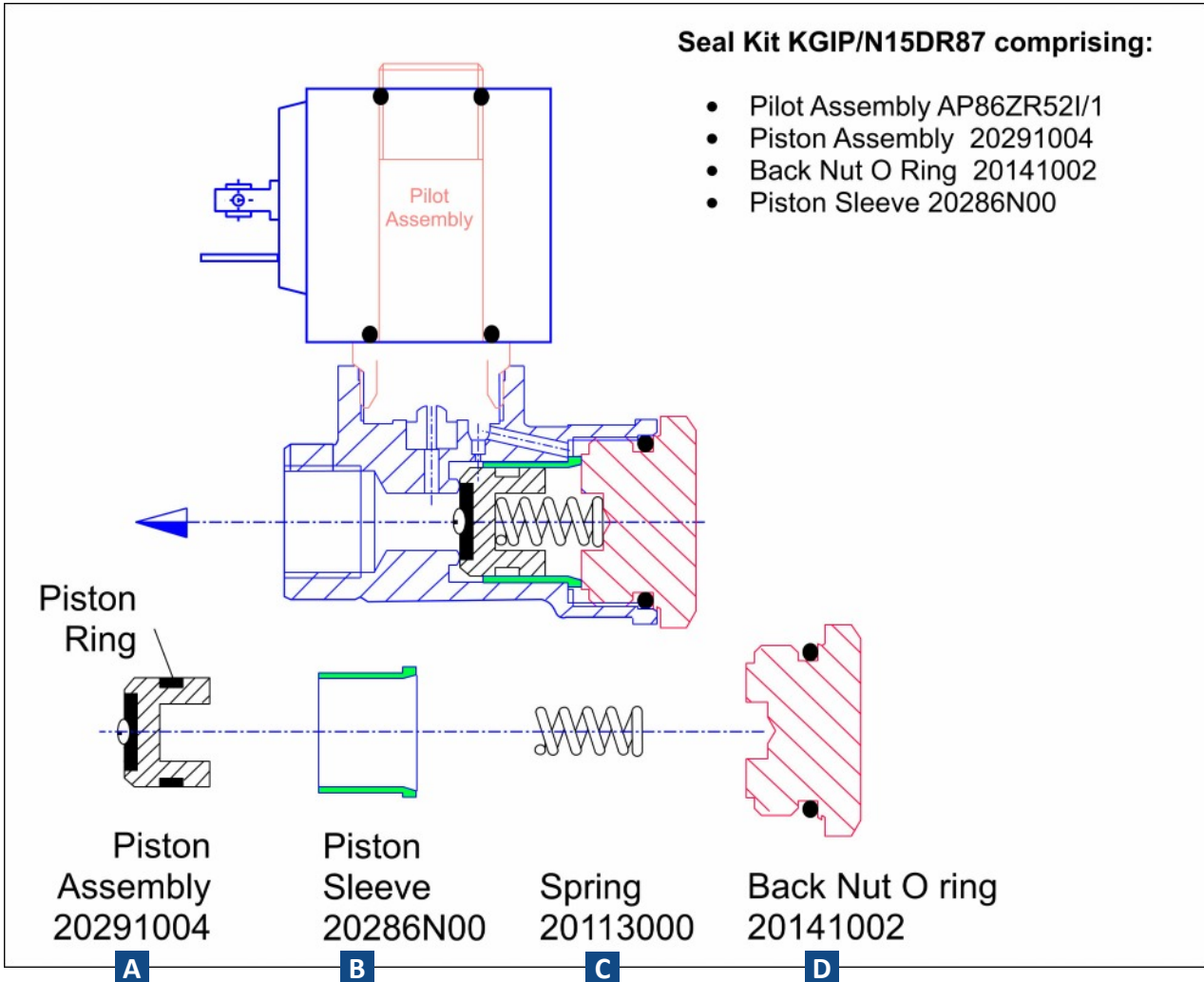


Order Codes

A	Coil Voltage	B	Port	C	Seals (fluid temp. min / max)	D	Body Material	E	Options
A	AC	D	3/8" BSP	B	RULON (-10°C to + 120°C)	T	Brass		
C	DC					N	Nickel Plated Brass		

Solenoid Valve - 2/2 - High Pressure - Normally Open

Parts List



Parts List Order Codes

RULON Seals

Order Code	Description
A 20291004	Piston Assembly
B 20286000	Brass Piston Sleeve
C 20113000	Return Spring
D 20141002	O Ring Back-Nut



UREPAN Seals (for Liquid CO2)

Order Code	Description
A 20291014	Nickel Plated Piston Assembly
B 20286N00	Nickel Plated Piston Sleeve
C 20113000	Return Spring
D 20141002	O Ring Back-Nut



Solenoid Valve - Model N15 - Spare Parts List



Pilot Assembly



Seal Material	AC power supply	DC power supply
RULON	AP86ZR11	CP86ZR11



Piston Assembly Kits



Seal Material	Order Code
RULON	KGIP/N15DR87



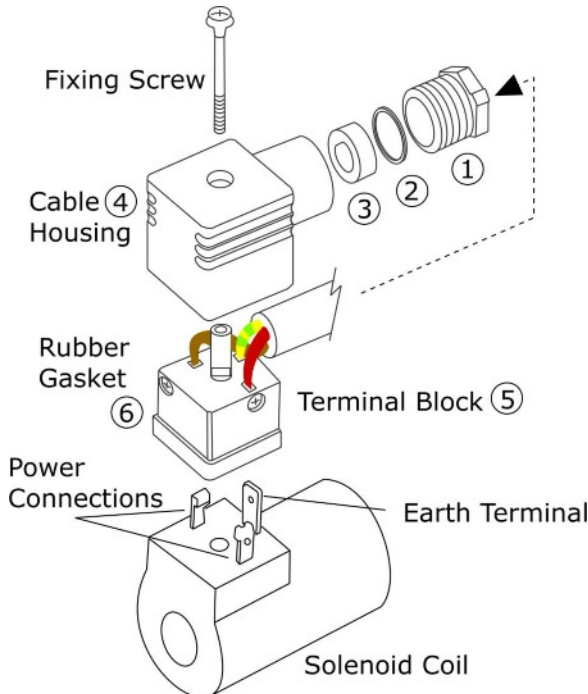
C4 Solenoid Coil
H=39mm, W=36mm, D=48mm

Solenoid Coil



Voltage	Port Size (AC power supply)	Port Size (DC Power Supply)
Pressure Range	0.5-100bar	0.5-60bar
12	4AN04	40H09
24	4BN04	41H09
48	4CN04	42H09
110	4DN04	43H09
220	4EN04	44H09

DIN electrical socket connectors to protect solenoid coil terminals and wiring.



Section 1: DIN Connector Assembly

- Insert the electrical power cable through the gland assembly (1,2,3)
- Push the cable through cable housing (4)
- Connect power and earth cables to terminal block 5
- Push terminal block (5) backwards, inside cable housing (4)
- Place rubber gasket (6) on terminal block (5) front face
- Push terminal block onto solenoid coil terminals
- Push fixing screw through complete assembly
- Tighten fixing screw with small screwdriver
- Do not over tighten
- Tighten cable gland (1,2,3) by hand

Section 2: How to install Solenoid Valves

Solenoid Valves can normally be installed and operate in any orientation. However, certain models are designed to operate in horizontal installations. Please contact Red Dragon for further information.

Installation Procedure:

Check that the Solenoid Valve is the correct product ordered for the application:

- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc. Leave until cool/safe.
- Insert the valve onto the pipe, ensuring that the flow direction is observed....IN for incoming media, or an arrow stamped on the valve body.
- Ensure that the pipe connections are free from burrs or loose pipe thread tape
- Tighten all pipe joints
- Connect electrical power supply via DIN electrical socket connector, as detailed in section 1
- Ensure that DIN connector is properly connected to solenoid coil and the gasket is installed correctly
- Apply media pressure and check for leaks

Section 3: Maintenance Procedure for Solenoid Valves

In the unlikely event of a valve malfunction, or routine maintenance, follow these instructions:

- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc.
- Remove the solenoid coil by unscrewing the coil retention nut anti-clockwise
- Remove the coil tube stem by unscrewing anti-clockwise
- Carefully remove the plunger assembly (inside the coil stem)
- Check the plunger assembly for damage or worn seals
- Check the face inside the coil stem for foreign particles that could prevent correct operation
- For Pilot Diaphragm Solenoid Valves: remove the top cover housing and check the diaphragm for damage and blocked transfer port.
- Re-assemble the valve in reverse order, ensuring that all parts are cleaned and assembled correctly