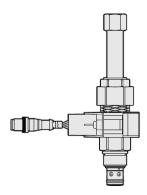


Overview



Description

A solenoid-operated, 2 port, normally open, poppet-type, screw-in hydraulic cartridge valve, designed to function as a load holding or blocking valve in applications requiring low internal leakage.

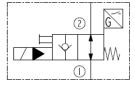
Operation

When de-energized, the SV10-P23A allows flow from 2 to 1 and from 1 to 2. when energized, the valve closes, blocking flow from 2 to 1. In this mode, flow from 1 to 2 will be allowed after overcoming the solenoid force.

Features

- Integral position sensor indicates when valve is shifted.
- · Continuous-duty rated coil.
- · Hardened seat for long life and low leakage.
- · Optional coil voltages and terminations.
- · Efficient wet-armature construction.
- · Cartridges are voltage interchangeable.
- · Waterproof E-Coils rated up to IP69K.
- · Unitized, molded coil design.
- 960 hour salt-spray rated solenoid tubes and coils.

Symbol



Ratings

Pressure Ratings

207 bar (3000 psi) Pressure rating 345 bar (5000 psi) Proof pressure 827 bar (12000 psi) Burst pressure

Flow Ratings

56.8 lpm (15 gpm) Flow rating

5 drops/min - Note: Max at 207 bar (3000 psi) Maximum internal leakage

- Note: Typical flow (leakage) in transition at 207 bar 0.3 lpm (0.07 gpm) (3000 psi). (see "Flow vs % Valve Shift" graph for flow in transition from valve close to valve open).

Other Ratings

63 ms - Note: Pull-in. Response times measured per NFPA/T3.5.30-2008 *Inlet pressure at port 2 is 207 bar (3000 psi) *Valve oriented vertically and Response

purged of air

201 ms - Note: Drop-out. Response times measured per NFPA/T3.5.30-2008 *Inlet pressure at port 2 is 207 bar (3000 psi) *Valve oriented vertically and

- Note: With urethane seals *See Position

purged of air

10.2 Vdc - Note: 12 Vdc coil Minimum pull-in voltage

Temperature Ratings

Storage temperature

Ambient temperature

-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals Operating fluid temperature - Note: With fluorocarbon seals *See Position

-26 to 204 °C (-15 to 400 °F) sensor operating temperature* -54 to 107 °C (-65 to 225 °F)

sensor operating temperature* -40 to 70 °C (-40 to 160 °F)

-40 to 70 °C (-40 to 160 °F)

-40 to 110 °C (-40 to 230 °F) - Note: Sensor element operating temperature

Position sensor operating limits the operating temperature of the entire assembly temperature

SV10-P23A 24OCT2023 16:48 hydraforce.com

SOLENOID CARTRIDGE VALVE POPPET, 2 PORT, NORMALLY OPEN WITH INTEGRAL POSITION SENSOR



Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

Position Sensor Specifications

Electrical Parameters

Supply voltage 9 to 32 Vdc - Note: Vcc

Output voltage with target present Vcc

Output clamp current 40 to 65 mA - Note: For Vcc up to 32 Vdc

Ratings

ESD ±8 kV - Note: Air discharge

EMI 30 V/m - Note: From 400 MHz to 2 GHz

IP rating IP67

Vibration 10 G - Note: 10 to 2000 Hz sinosudial

Mechanical shock 50 G - Note: 11 ms, half-wave sinosudial

Position sensor operating -40 to 110 °C (-40 to 230 °F) - Note: Sensor element operating temperature

temperature limits the operating temperature of the entire assembly

Properties

Connector Deutsch DT04-4P - Note: Option N3 (dual output)

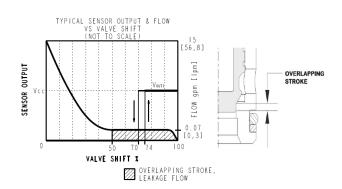
M12 - Note: Option M3 (dual output)

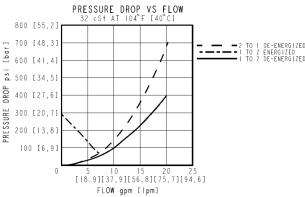
Properties

Unit weight 0.52 kg (1.15 lb) - Note: SV10-P23A with M12 connector

Internal wetted surface area 249 cm² (38.6 in²)

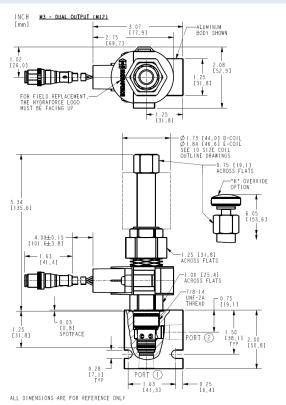
Performance







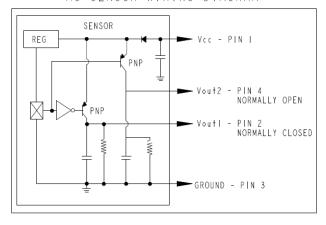
Dimensions



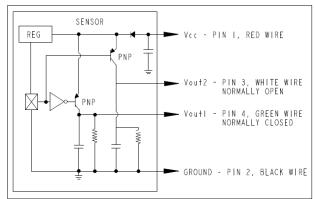
FOR FIELD REPLACEMENT, THE HYDRAFORCE LOGO MUST BE FACING UP 2.78 [70,6]

Wiring Diagrams

M3 SENSOR WIRING DIAGRAM



N3 SENSOR WIRING DIAGRAM



Installation Specifications

Cavity VC10-2

Cartridge installation torque 32.5 to 35.3 N-m (24 to 36 ft-lb)
Coil nut torque 5.8 to 9.5 N-m (5 to 7 ft-lb)

Orientation restriction None

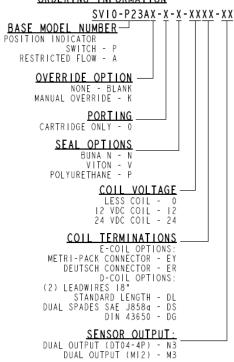
Accessories

Seal kit SK10-2X-T - Note: X = Seal option

Order Code



ORDERING INFORMATION



Model Options

SV10-P23AEG-H-J-L-M

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
K	Momentary Push Override, Knob
Р	Momentary Push Override, Button

G Screen

CODE	DESCRIPTION
BLANK	NONE
S	100 Mesh Screen

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
2B	Aluminum BSPP 1/4" (2)
3B	Aluminum BSPP 3/8" (3)
4B	Aluminum BSPP 1/2" (4)
4BD	Ductile Iron BSPP 1/2" (4)

J Seal

CODE	DESCRIPTION
N	Buna-N

SOLENOID CARTRIDGE VALVE POPPET, 2 PORT, NORMALLY OPEN WITH INTEGRAL POSITION SENSOR



CODE	DESCRIPTION
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane

I Coil

CODE DESCRIPTION 0 No Coil 10DG 10 VDC, D-Coil, DIN 43650 10DL 10 VDC, D-Coil, Dual Lead Wires 10DR/D 10 VDC, D-Coil, Deutsch with Diode 10DS 10 VDC, D-Coil, Dual Spade 10EL 10 VDC, E-Coil, Dual Lead Wires 10ER 10 VDC, E-Coil, Deutsch 10ER/Z 10 VDC, E-Coil, Deutsch with Zener Diode 12DG 12 VDC, D-Coil, Dual Lead Wires, 18 inches long 12DL 12 VDC, D-Coil, Dual Lead Wires, 36 inches long 12DL/W 12 VDC, D-Coil, Dual Lead Wires with Weatherpak 12DL/W 12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode 12DR/D 12 VDC, D-Coil, Deutsch with Diode 12DR/D 12 VDC, D-Coil, Deutsch with Zener Diode 12DR/Z 12 VDC, D-Coil, Deutsch with Zener Diode 12DR/Z 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EJ 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/J 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/WZ 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode	L Coil	
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12DL/W 12 VDC, D-Coil, Dual Lead Wires with Weatherpak 12DL/WD 12 VDC, D-Coil, Deutsch 12DR 12 VDC, D-Coil, Deutsch 12DR/D 12 VDC, D-Coil, Deutsch with Diode 12DR/D 12 VDC, D-Coil, Deutsch with Zener Diode 12DR/Z 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Deutsch Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Deutsch 24AG 24 VDC, D-Coil, Dink 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
12DL/W/D 12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode 12DR 12 VDC, D-Coil, Deutsch 12DR/D 12 VDC, D-Coil, Deutsch with Diode 12DR/Z 12 VDC, D-Coil, Deutsch with Zener Diode 12DR 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Deutsch with Diode 20DR 20 VDC, D-Coil, Deutsch with Diode 24AG 24 VDC, D-Coil, Din 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
12DR 12 VDC, D-Coil, Deutsch 12DR/D 12 VDC, D-Coil, Deutsch with Diode 12DR/Z 12 VDC, D-Coil, Deutsch with Zener Diode 12DS 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, AMP Jr. 12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Deutsch with Diode 12DR/D 20 VDC, D-Coil, Deutsch with Diode 12DR/D 20 VDC, D-Coil, Deutsch 12DR/D 24 VDC, D-Coil, DIN 43650 12DR/D 24 VDC, D-Coil, DIN 43650 12DR/D 24 VDC, D-Coil, Dual Lead Wires 12DR/D 24 VDC, D-Coil, Dua	12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
12DR/D 12 VDC, D-Coil, Deutsch with Diode 12DR/Z 12 VDC, D-Coil, Deutsch with Zener Diode 12DS 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, AMP Jr. 12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR 20 VDC, D-Coil, Deutsch With Diode 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DiN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DL/W/D	12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
12DR/Z 12 VDC, D-Coil, Deutsch with Zener Diode 12DS 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, AMP Jr. 12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR 20 VDC, D-Coil, Deutsch 24AG 24 VDC, D-Coil, DiN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, Dual Lead Wires 24DL 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DR	12 VDC, D-Coil, Deutsch
12DS 12 VDC, D-Coil, Dual Spade 12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, AMP Jr. 12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DR/D	12 VDC, D-Coil, Deutsch with Diode
12EG 12 VDC, E-Coil, DIN 43650 12EJ 12 VDC, E-Coil, AMP Jr. 12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DR/Z	12 VDC, D-Coil, Deutsch with Zener Diode
12EJ 12 VDC, E-Coil, AMP Jr. 12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DlN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12DS	12 VDC, D-Coil, Dual Spade
12EL 12 VDC, E-Coil, Dual Lead Wires, 18 inches long 12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, Dlal Spade 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DlN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EG	12 VDC, E-Coil, DIN 43650
12EL/36 12 VDC, E-Coil, Dual Lead Wires, 36 inches long 12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EJ	12 VDC, E-Coil, AMP Jr.
12EL/W/Z 12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
Diode 12EL/W. Diode 12EL/Z 12 VDC, E-Coil, Dual Lead Wires with Zener Diode 12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DR/D 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DC 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
12ER 12 VDC, E-Coil, Deutsch 12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EL/W/Z	
12ER/Z 12 VDC, E-Coil, Deutsch with Zener Diode 12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
12EY 12 VDC, E-Coil, Metri-Pack 150 12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, DIN 43650 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12ER	12 VDC, E-Coil, Deutsch
12EY/Z 12 VDC, E-Coil, Metri-Pack 150 with Zener Diode 20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
20DR/D 20 VDC, D-Coil, Deutsch with Diode 20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EY	12 VDC, E-Coil, Metri-Pack 150
20DS 20 VDC, D-Coil, Dual Spade 20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
20ER 20 VDC, E-Coil, Deutsch 24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	20DR/D	20 VDC, D-Coil, Deutsch with Diode
24AG 24 VDC, D-Coil, DIN 43650 24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	20DS	20 VDC, D-Coil, Dual Spade
24AP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires 24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	20ER	20 VDC, E-Coil, Deutsch
24DG 24 VDC, D-Coil, DIN 43650 24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	24AG	24 VDC, D-Coil, DIN 43650
24DL 24 VDC, D-Coil, Dual Lead Wires 24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	24AP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DL/W 24 VDC, D-Coil, Dual Lead Wires with Weatherpak 24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	24DG	24 VDC, D-Coil, DIN 43650
24DL/W/D 24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode	24DL	24 VDC, D-Coil, Dual Lead Wires
	24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
24DP 24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires	24DL/W/D	24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
	24DP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires

SOLENOID CARTRIDGE VALVE POPPET, 2 PORT, NORMALLY OPEN WITH INTEGRAL POSITION SENSOR



CODE	DESCRIPTION
24DR	24 VDC, D-Coil, Deutsch
24DR/D	24 VDC, D-Coil, Deutsch with Diode
24DS	24 VDC, D-Coil, Dual Spade
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
24EY	24 VDC, E-Coil, Metri-Pack 150
24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode
36DS	36 VDC, D-Coil, Dual Spade
115AG	115 VAC, D-Coil, DIN 43650
115AP	115 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires
230AG	230 VAC, D-Coil, DIN 43650
230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires

M Position Sensor Termination

CODE	DESCRIPTION
BLANK	No Position Sensor
МЗ	Neutral Sense, M12-4P, Dual Output NC/NO
N3	Neutral Sense, DT04-4P, Dual Output NC/NO