

Data Sheet

ECO80

EVPN Pneumatic Actuation

New for ECO80LS, the EVPN is an On-Off pneumatic actuator solution designed for mainly on-road applications with focus on the vast number of refuse and snow & ice applications requiring lowering loads during "dead engine" conditions.

There are two EVPN versions:

Pneumatic Actuation: Designed for all- pneumatic operator control and adapts to any system that actuates each control spool individually with external air supply lines to actuate the spools from neutral to spool-in & spool-out position.

Electro-Pneumatic Actuation: This patented technology is designed to adapt to vehicle systems that utilize electric-over-pneumatic operator controls. This EVPN version eliminates the need for individual pneumatic tubing installation at each valve section and eliminates remotely mounted electro-pneumatic control stations. Two on board electro-pneumatic solenoid valves mounted to each valve section actuate the spools from neutral to Spool-in & Spool-out position, solenoids are fed from an unique air supply from end plate (EVO) that's can be used to air supply

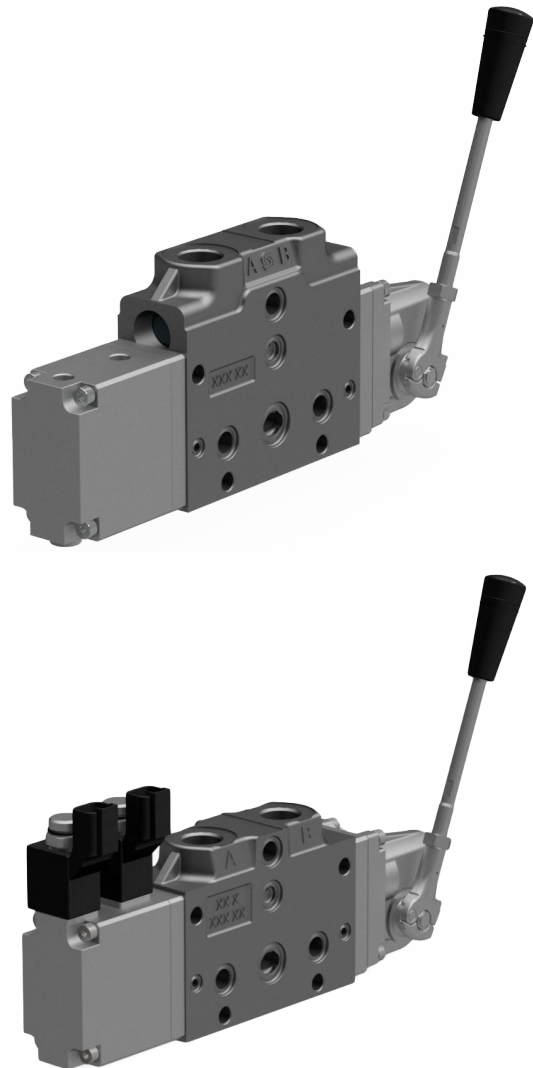
Features

Control specification

Supply Voltage (UDC)	Rated	12 VDC	24 VDC
	Range	11 – 15 VDC	22 – 30 VDC
Current (A)	22°C - Coil temp	500 mA	250 mA
Resistance (Ω)		24 Ω	96 Ω
Power (W)		6 W	6 W
Reaction time from neutral position to max. spool travel		Max. 50 ms	

Enclosure

Connector type	Protection class
Deutsch DT04-2P	IP 67

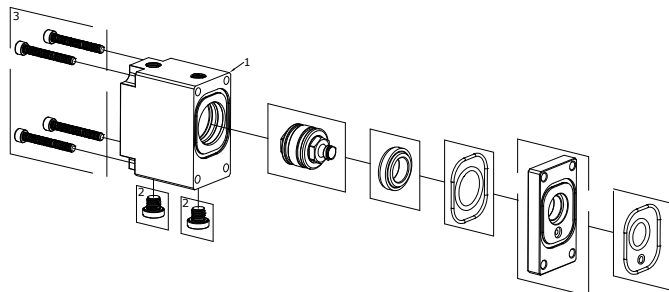


Operating Conditions

Pilot air supply pressure (bar)	Minimum	5 bar
	Maximum	12 bar
Tank pressure (bar)	Static	25 bar
	Dynamic	40 bar
Oil temperature (°C)	Recommended	30 → 60 °C
	Minimum	-30 °C
	Maximum	90 °C
Ambient temperature	Minimum	-30 °C
	Maximum	60 °C
Oil viscosity	Operating range	12 - 75 mm ² /s
	Minimum viscosity	4 mm ² /s
	Maximum viscosity	460 mm ² /s
Filtration / maximum contamination according to ISO 4406		23/19/16

EVPN, Pure Pneumatic

EVPN, Pure pneumatic exploded view

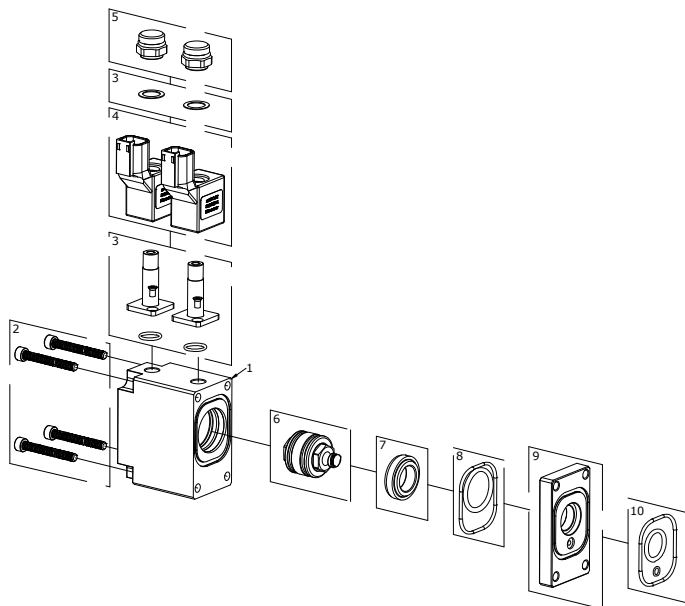


Part numbers EVPN, Pure pneumatic

Description	Part number
EVPN-ACTUATOR-TOP-PN	11198492

EVPN, Electrical Pneumatic

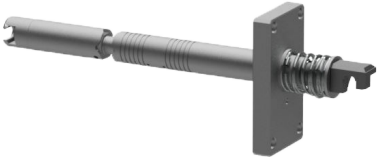
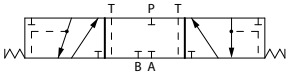
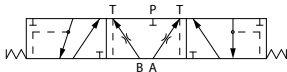
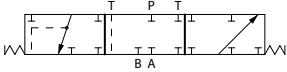
EVPN, Electrical Pneumatic exploded view



Part numbers EVPN, Electrical pneumatic

Description	Part number
EVPN-ACTUATOR-TOP-DT-12V-A	11193722
EVPN-ACTUATOR-TOP-DT-24V-A	11193723

Product details
Part numbers EVBS, Spool module

Symbol	Code number	
	Spool size, flow range l/min	
	C	E
	40	80
 4-way, 3-position Closed neutral position	11194019	11194025
 4-way, 3-position Throttled, open neutral position	11194018	11194024
 3-way, 3-position Closed neutral position, P -> A	11194020	11194026

Service kit EVHCO

Description	Part number
SVC KIT-EVPN-COIL-DT-12V	11234123
SVC KIT-EVPN-COIL-DT-24V	11234124
SVC KIT-EVPN-SEALS	11230331

EVPN, Specification Sheet as ref.: Four section valve with electro pneumatic actuation
Specification Sheet

Valve type:

ECO 80


Subsidiary / Dealer		Danfoss Sold-To Party No.		Customer	
Valve No.		Customer Part No.		Application	
Filled in by:		Date	Revision No	EAU	

Function		B-Port		A-Port	
1	Inlet		11172981 210	EVP80 bar	
2	Slice 1 - EVPN 12V 80 l/min	EVM80 PVLP	11145204 157B2240	11168508 EVB80	11194025 EVBS80
3	Slice 2 - EVPN 12V 80 l/min	EVM80 PVLP	11145204 157B2240	11168508 EVB80	11194025 EVBS80
4	Slice 3 - EVPN 12V 40 l/min	EVM80	11145204	11168507 EVB80	11194019 EVBS80
5	Slice 4 - EVPN 12V 40 l/min	EVM80	11145204	11168507 EVB80	11194019 EVBS80
6	End Plate Pneumatic port: 1/8 BSP		11191584	EVO80	
7					
8					
9					
10					
11					
12					
13					
14					
15					
18	PVAS	1.	11173105	2.	3.
19	Painting (write no if paint not wanted)		No	No paint	Business Type:
20	Customer Text on Group Label		PVE Programming:		
21	Customer Text on Packaging Label (Box)				
22	Comment:				

