

Data Sheet

ECO80LS EVB-HPCO

ECO80LS High Pressure Carry Over

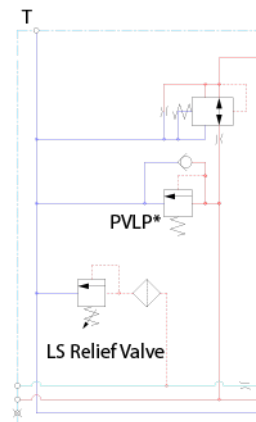
ECO80LS EVB-HPCO (High Pressure Carry Over) is module designed to deliver excess pump flow downstream of the ECO80LS valve to other open center valves

Features

- Full pressure and flow available to downstream open center valve while ECO80LS valve sections are not in use.
- Enables the standard EVP inlet "T" port to function as "HPCO" port.
- Includes "T" port for ECO80LS return flow to reservoir
- Includes pilot pressure supply eliminating the need for EVP inlet pilot supply.
- Includes adjustable LS relief valve controlling max working pressure to ECO80LS valve.
- Include fixed shock valve facility (PVLP) for pressure peak protection to downstream open center valve.

Benefits

- Manages all open center (fixed) pump flow while adding priority to ECO80LS functions
- Reduces the number of pumps and plumbing connections to multiple open center valves



**PVLP pressure in EVB-HPCO should be a minimum of 20 bar above setting on the EVB-HPCO relief valve.*

Comprehensive technical literature is
online at www.danfoss.com

Data Sheet
ECO80 EVB-HPCO

EVB-HPCO, basic module hydraulic schematic

ECO80LS EVB-HPCO

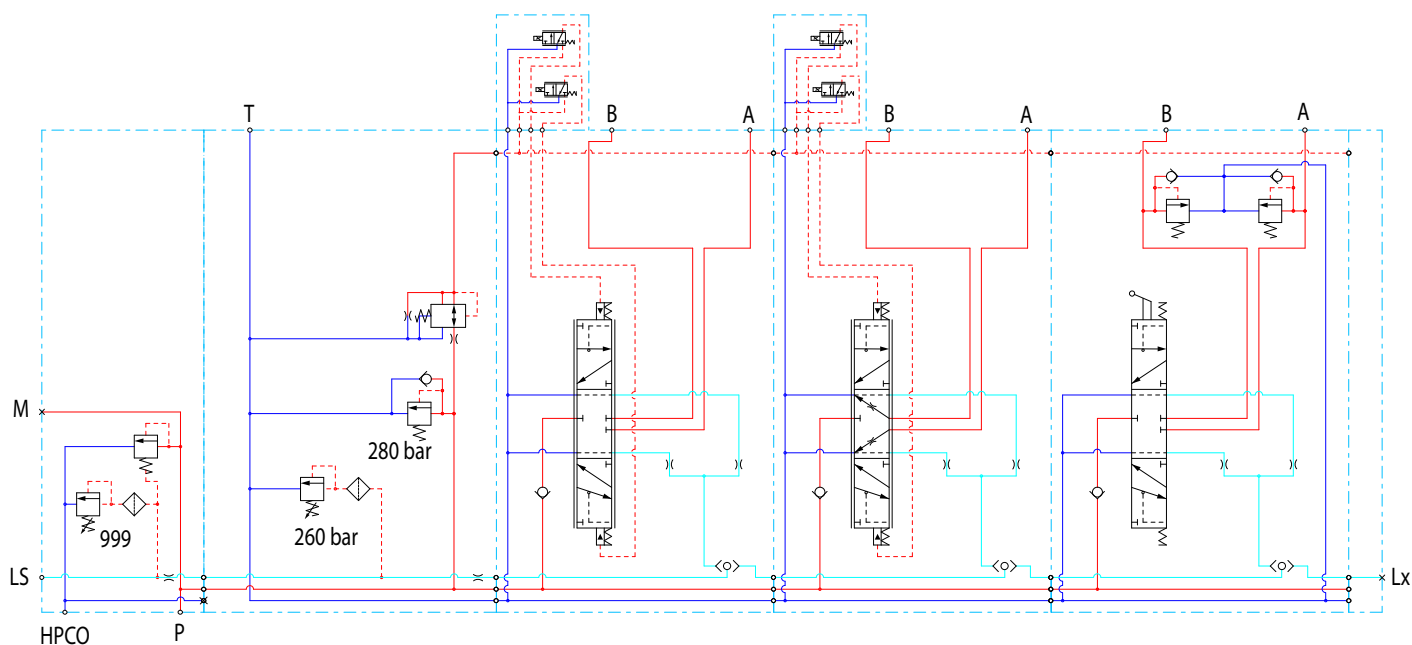
Part numbers for EVB-HPCO Basic Modules

Part numbers	T – thread port
11226551	7/8-14 UNF
11226582	G 1/2

Technical data

Pump Pressure	Maximum	280 bar [4061 psi]
Tank pressure	Static	25 bar [363 psi]
	Dynamic	40 bar [580 psi]
Pilot Pressure	Maximum	28 bar [406 psi]
Pump Flow	Maximum	100 l/min [26.4 US gal/min]
Oil temperature	Recommended	30 → 60 °C [86 → 140 °F]
	Minimum	-30 °C [-22 °F]
	Maximum	90 °C [194 °F]
Ambient temperature	Minimum	-30 °C [-22 °F]
	Maximum	60 °C [140 °F]
Oil viscosity	Operating range	12 - 75 mm ² /s [65 to 347 SUS]
	Minimum viscosity	4 mm ² /s [39 SUS]
	Maximum viscosity	460 mm ² /s [2128 SUS]
Oil cleanliness	23/19/16 (according to ISO 4406)	

EVB-HPCO, stack valve hydraulic schematic



EVB-HPCO, Specification sheet example

EVB-HPCO: Three section valve with HPCO module

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	A-Port				B-Port			
1	Open Center Mechanical Inlet		11172981	EVP80				
	Close LS relief valve: "999"		999	bar				
2	HPCO	PVLP	157B2280	LSA= 11226551	EVB80	LSB=	bar	
	Specify PVLP and LS pressure			260	bar			
3	Slice 1	EVM80	11167001	11168507	EVB80	11170461	EVBS80	11162297
	EH actuation			bar		bar		EVHC80
4	Slice 2	EVM80	11167001	11168507	EVB80	11170459	EVBS80	11162297
	EH actuation			bar		bar		EVHC80
5	Slice 3	EVOS80	11175314	11168502	EVB80	11169737	EVBS80	11169579
	Mechanical actuation	PVLP	157B2280	LSA=	bar	LSB=	bar	157B2175
6	Endcover			11191582	EVOS80			
				bar		bar		
17				LSA=	bar	LSB=	bar	
18	PVAS	1. 11173105	2.	3.				Business Type:
19	Painting (write no if paint not wanted)		Primer	ES-1053				PVE Programming:
20	Customer Text on Group Label							
21	Customer Text on Packaging Label (Box)							
22	Comment:	How to specify HPCO						EX Certification:
								None

Should consider the EVB-HPCO as one EVB to determine the Assembly kit length