ENGINEERING TOMORROW

Data Sheet

EVGI
PVG32/ECO80 Interface

The EVGI Interface enhances ECO80LS with PVG32 and PVG16 performance features.

The EVGI, PVG32/ECO80 Interface combines PVG 32, PVG16 and ECO 80 into a single valve group. (Both PVG32 and ECO80LS assembly kits fasten into the EVGI module) (Compatible with T0 or non-T0 PVG32 modules.)



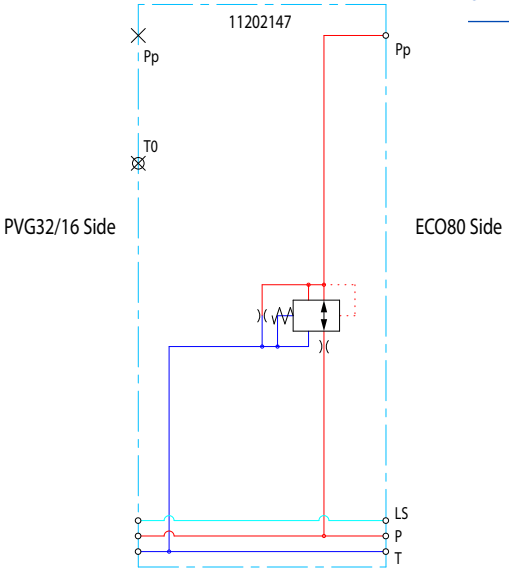
Benefits

- Increased fixed and variable pump flow capacity from PVG32 standard and mid-inlet
- Increased safety disabling downstream ECO80LS functions using PVSKM
- Prioritization of downstream ECO80LS functions using PVSPM

Features

- Independent Pilot Pressure Reducing Valve for ECO80 EVHC / EVHCO actuation
- Designed to align to single mounting surface

Interface hydraulic schematic



Part numbers interface

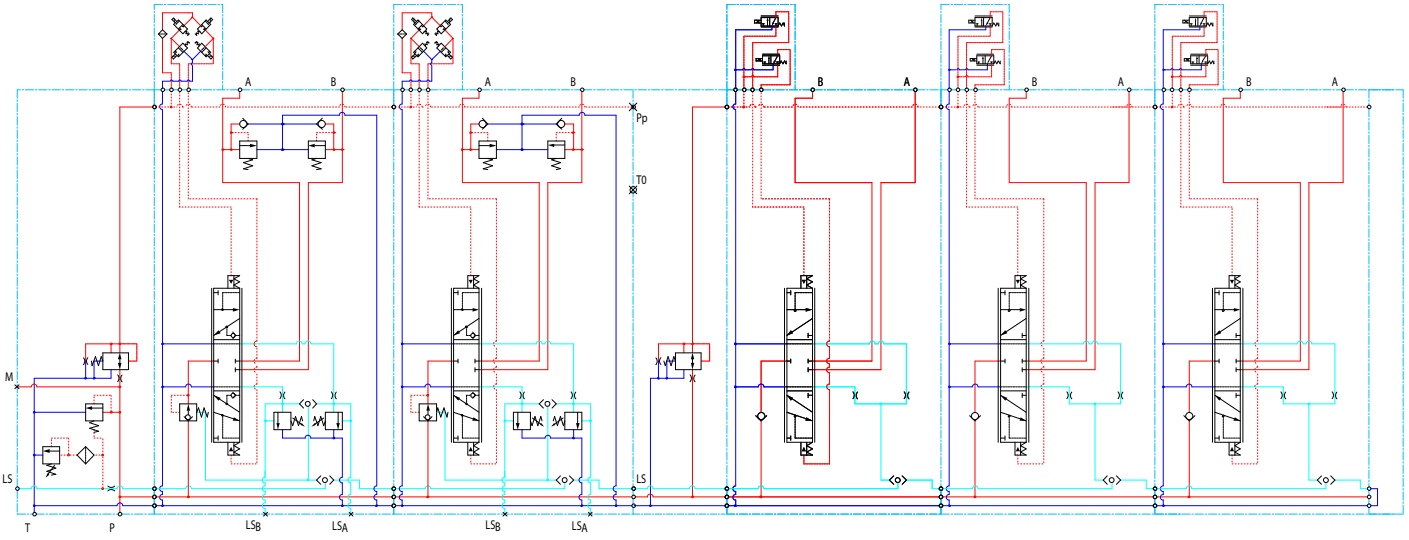
Description	Part number
EVGI-INTERFACE-ECO80LS-PPRV-A	11202147

Comprehensive technical literature is online at *www.danfoss.com*

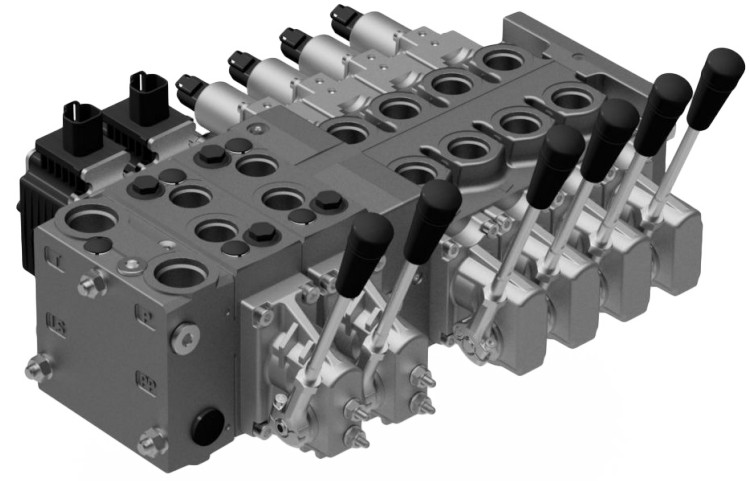
Operating conditions

Pump Pressure	Maximum	280 bar
Tank pressure (bar)	Static	25 bar
	Dynamic	40 bar
Pilot Pressure at ECO side	Maximum	28 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

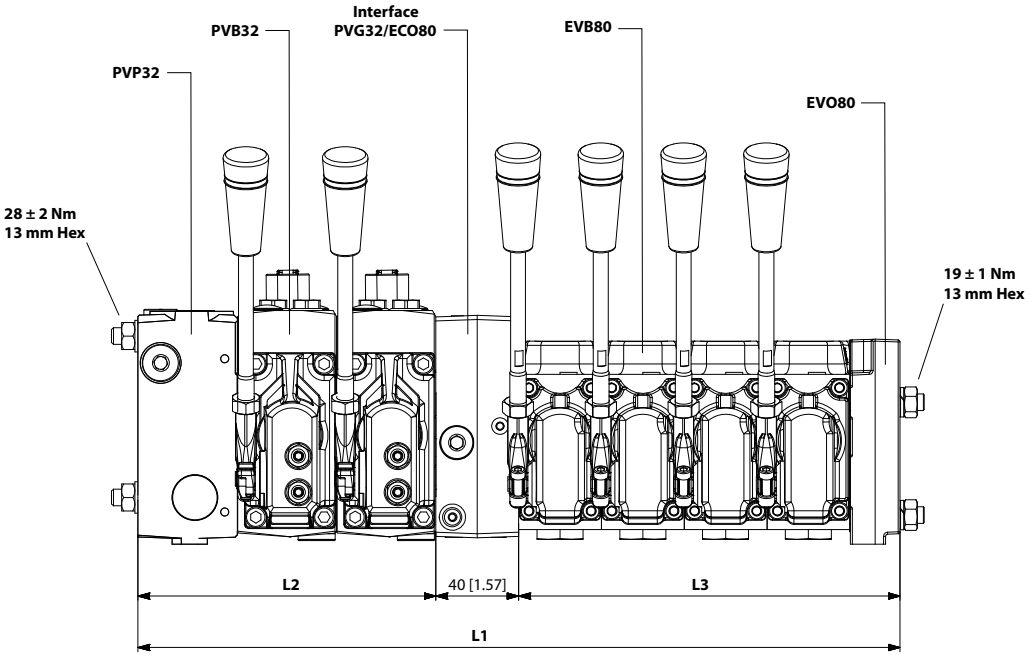
PVG32/ECO80 Hydraulic Schematic



PVG32/ECO80 3D view



PVG32/ECO80 assembly kits (tie rods) / dimensions



Warning

To avoid the possibility of thread failure, tie rod kits parts (such as tie rod bars, nuts and washers) must not be mixed.

PVG32/ECO80 assembly kits, how to specify

Maximum Stack valve length allowed

PVG/ECO Maximum Stack valve length allowed: L1 [mm] L1 = L2 + L3 + 40 mm	632 mm

ECO80 assembly kit Part Numbers / PVG Maximum length allowed depending on EVB80's quantity

ECO assemble kit PN / PVG length												
EVB80 (Qty)	1	2	3	4	5	6	7	8	9	10	11	12
ECO length: L3 [mm]	64	104	144	184	224	264	304	344	384	424	464	504
EVT 80 Assembly Kit, Part Number	-	11173102	11173103	11173104	11173105	11173106	11173107	11173108	11173109	11173110	11173111	11173112
PVG Maximum length allowed depending on EVB80's quantity: L2 = L1 - L3 – 40mm												
L2 [mm]	528	488	448	408	368	328	288	248	208	168	128	88

PVB 32 and PVB 16 modules combination, L2 length depending on the amount of valve groups

L2 [mm] length depending on the PVB amount of valve groups

Modules in mm		PVB16 (Qty)												
		0	1	2	3	4	5	6	7	8	9	10	11	12
PVB32 (Qty)	0	48	88	128	168	208	248	288	328	368	408	448	488	528
	1	96	136	176	216	256	296	336	376	416	456	496	-	-
	2	144	184	224	264	304	344	384	424	464	504	-	-	-
	3	192	232	272	312	352	392	432	472	512	-	-	-	-
	4	240	280	320	360	400	440	480	520	-	-	-	-	-
	5	288	328	368	408	448	488	528	-	-	-	-	-	-
	6	336	376	416	456	496	-	-	-	-	-	-	-	-
	7	384	424	464	504	-	-	-	-	-	-	-	-	-
	8	432	472	512	-	-	-	-	-	-	-	-	-	-
	9	480	520	-	-	-	-	-	-	-	-	-	-	-
	10	528	-	-	-	-	-	-	-	-	-	-	-	-

PVAS part numbers according to accumulated length interval PVG 32/16, L2 [mm]

Length, mm [in]	Part number		Length, mm [in]	Part number
20 - 48 [0.79 - 1.89)	11188219		289 - 300(11.38 - 11.81)	11188208
49-60 [1 .93- 2.36)	11188218		301- 312 (11.85 - 12.28)	157B8005
61 - 72 [2.40 - 2.83)	157B8000		313-324 (12.32-12.76)	11188207
73-84 (2.87 - 3.31)	11188217		325 - 336(12.80 - 13.23)	157B8025
85 - 96 [3.35 - 3.78)	157B8031		337 - 348 [13.27 - 13.70)	11188206
97 - 108 [3.82 - 4.25)	11188216		349 - 360 (13.74 - 14.17)	157B8006
109- 120(4.29- 4.72)	157B8001		361-372 [14.21- 14.65)	11188205
121 - 132 (4.76 - 5.20)	11188215		373 - 384 [14.69- 15.121	157B8026
133- 144 (5.24 - 5.67)	157B8021		385 - 396 [15.16 - 15.59)	11188204
145 - 156[5.71 - 6.14)	11188214		397 - 408 (15.63- 16.06)	157B8007
157 - 168 (6.18 - 6.61)	157B8002		409 - 420 (16.10 - 16.54)	11188203
169- 180(6.65-7.09)	11188213		421 - 432 (16.58 - 17.0 1)	157B8027
181- 192 (7.13- 7.56)	157B8022		433 - 444 (17.05 - 17.48)	11188202
193-204 (7.60 - 8-03)	11188212		445 - 456 [17.52 - 17.95)	157B8008
205 - 216 (8.07 - 8.50)	157B8003		457 -468 (17.99- 18.43)	11188201
217 -228 (8.54 - 8.98)	11188211		469 - 480 [18.47 - 18.90)	157B8028
229 - 240 [9.02 - 9.45)	157B8023		481 - 492 [18.94- 19.37)	11188200
241 - 252 [9.49- 9.92)	11188210		493-504 (19.41- 19.84)	157B8009
253 - 264 (9.96 - 10.39)	157B8004		505 - 516 (19.88-20.31)	11188199
265 - 276 [10.43 - 10.87)	11188209		517 - 528 [20.35 - 20.79)	157B8029
277 -288 [10.91 - 11.34)	157B8024			

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed.
All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.