



Technical Information

Pump Side Modules for Variable Displacement Pumps

PVPV, PVPVM



Revision history*Table of revisions*

Date	Changed	Rev
May 2014	Drawing change, page 9	EF
Feb 2014	Converted to Danfoss layout – DITA CMS	EE
Oct 2012	Misspelling, Spec sheet.	ED
Jul 2012	Main document title, back standard page.	EC
Dec 2010	Back cover	EB
Jan 2010	Handle on drawing	EA

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Introduction
PVPV, PVPVM application

Danfoss is able to supply pump side modules type PVPV and PVPVM for systems with variable pumps.

The modules offer the following advantages:

- P- and T-connection ports: 1" [1 5/16 UN]
- Lower pressure drop
- PVPVM enables the use of LS-pumps with flows up to 230 l/min [61 US gal/min]
- Relief of pressure peaks with PVLP 63

Versions and code numbers

Symbol	Description	Code number	
		BSP port P, T = G1	SAE port 1 5/16 UN
<p style="text-align: right;">157-315,10</p>	PVPV Closed center pump side module for pumps with variable displacement With pilot supply for electrical actuation Max. pump pressure = 350 bar [5075 psi] Max. pump flow = 150 l/min [40 US gal/min]	157B5938	157B5911
<p style="text-align: right;">157-329,10</p>	PVPV Closed center pump side module for pumps with variable displacement With pilot supply for electrical actuation With shock and suction valve PVLP 63 Max. pump pressure = 350 bar [5075 psi] Max. pump flow = 150 l/min [40 US gal/min]	157B5941	157B5913
<p style="text-align: right;">157-316,10</p>	PVPVM Closed center pump side module for pumps with variable displacement With pilot supply for electrical actuation Max. pump pressure = 350 bar [5075 psi] Max. pump flow = 230 l/min [61 US gal/min]	157B5937	157B5912
<p style="text-align: right;">157-330,10</p>	PVPVM Closed center pump side module for pumps with variable displacement With pilot supply for electrical actuation With shock and suction valve PVLP 63 Max. pump pressure = 350 bar [5075 psi] Max. pump flow = 230 l/min [61 US gal/min]	157B5940	157B5914

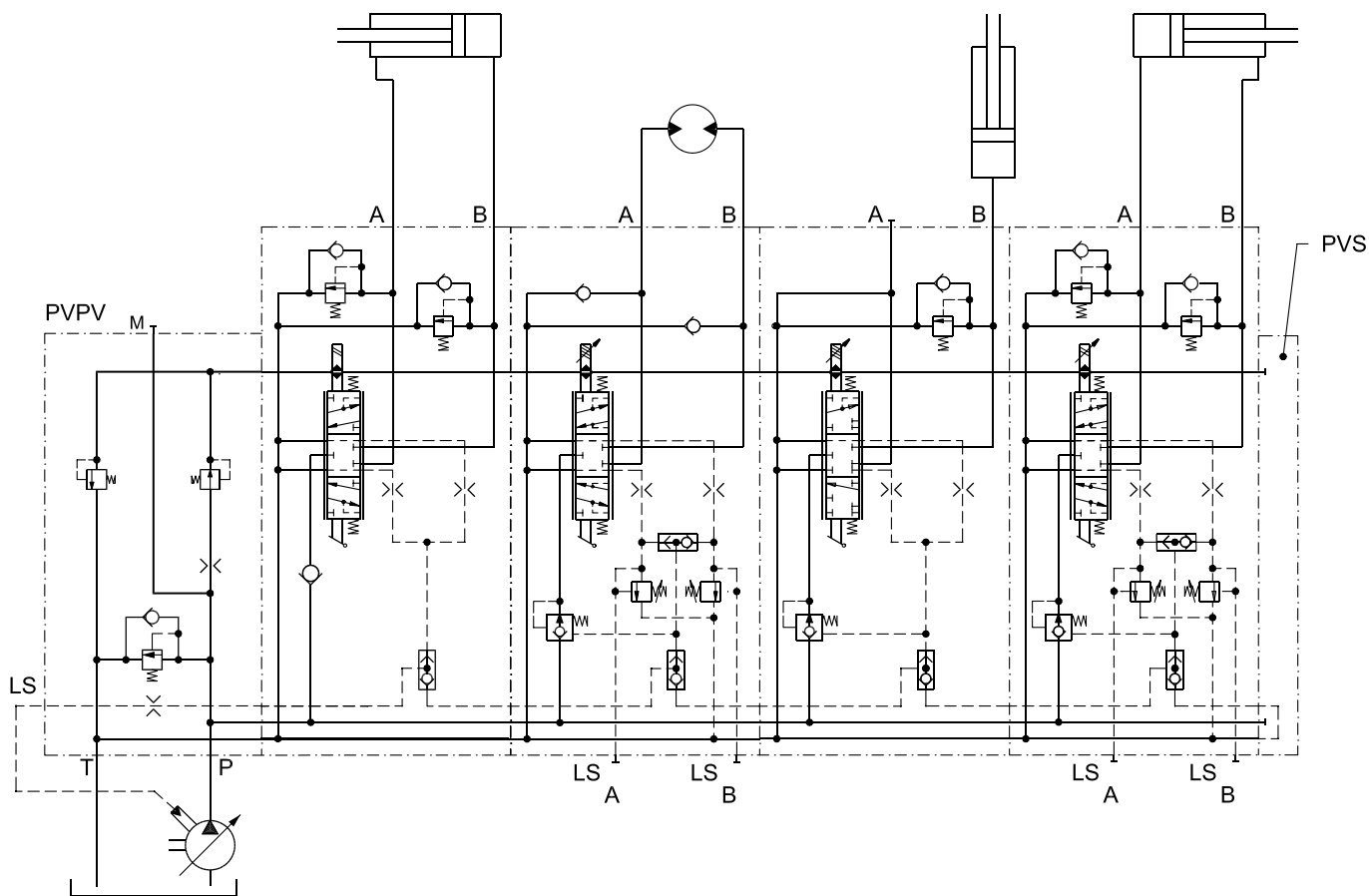
PVPV hydraulic schematic

When ordering PVPV fitted with PVLP 63, please state the sales- and code No. in space **0** in the order form. Always state the PVLP 63 opening pressure in space **0**, see the [PVG 32 specification sheet](#) or the literature *PVG 32 Specification Sheet*, **520L0515**. See example:

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Example:	Code number
0 157B 5941	157B2100
$p = 100 \text{ bar [1450 psi]}$	157B -

PVPV hydraulic schematic



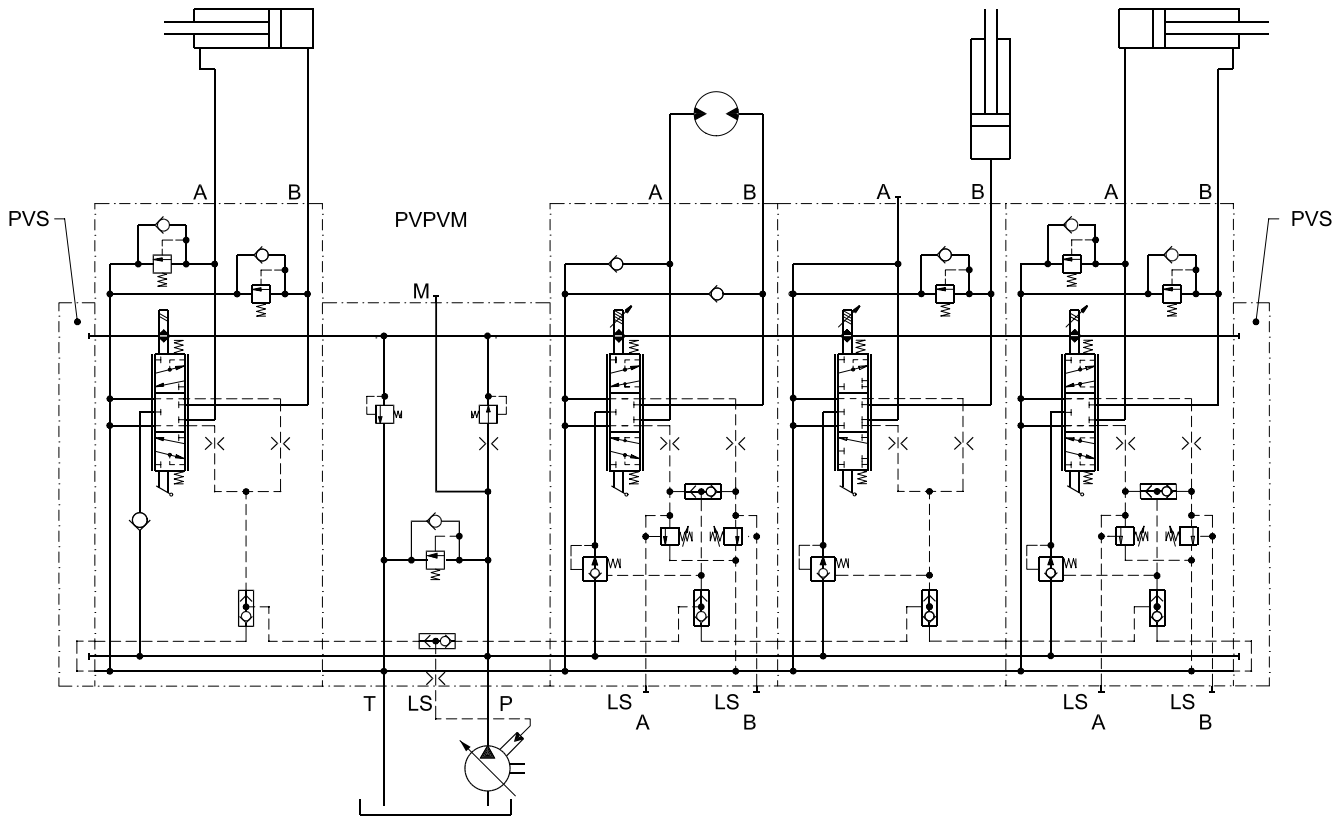
157-318.10

PVPVM hydraulic schematic

To order PVG 32 fitted with PVPVM, use standard order form, see the [PVG 32 specification sheet](#) or the literature *PVG 32 Specification Sheet*, **520L0515**. When ordering PVPVM fitted with PVL 63, please state the sales- and code No. in space **b** in the order form. Also, always state the PVL 63 opening pressure in space **0**.

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PVPVM hydraulic schematic



157-317.10

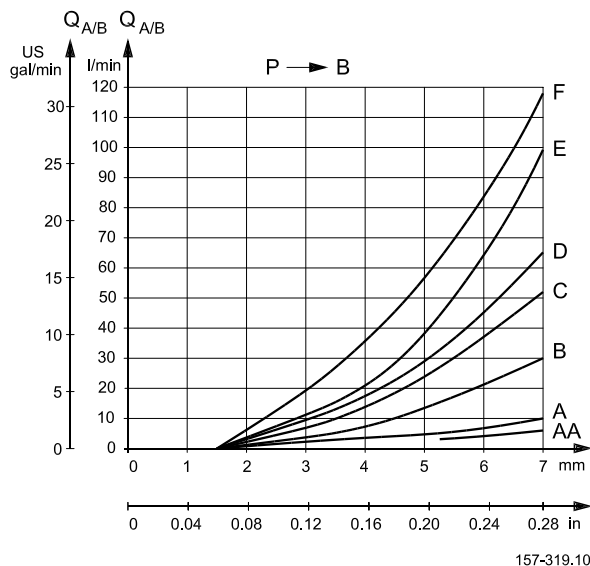
Flow characteristics for PVPV/PVPVM

Flow from PVB (without pressure compensator) left and right of PVPVM respectively.

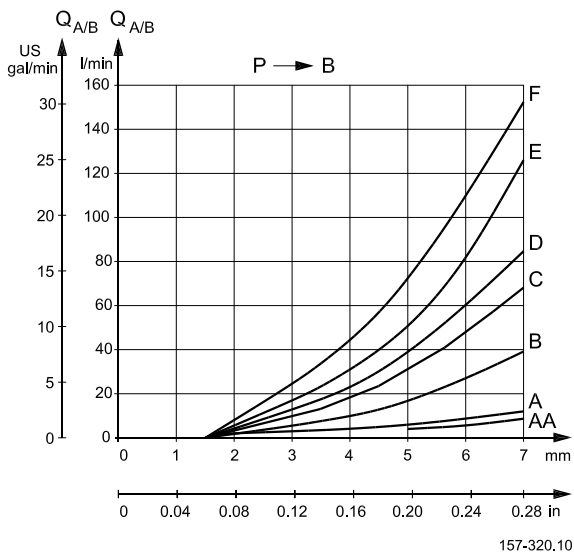
Under certain circumstances systems with large pump flows may occasionally generate pressure peaks. For advice on systems of this nature, please contact the Danfoss Sales Organisation.

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Set pressure difference between pump pressure and LS signal = 10 bar [145 psi]



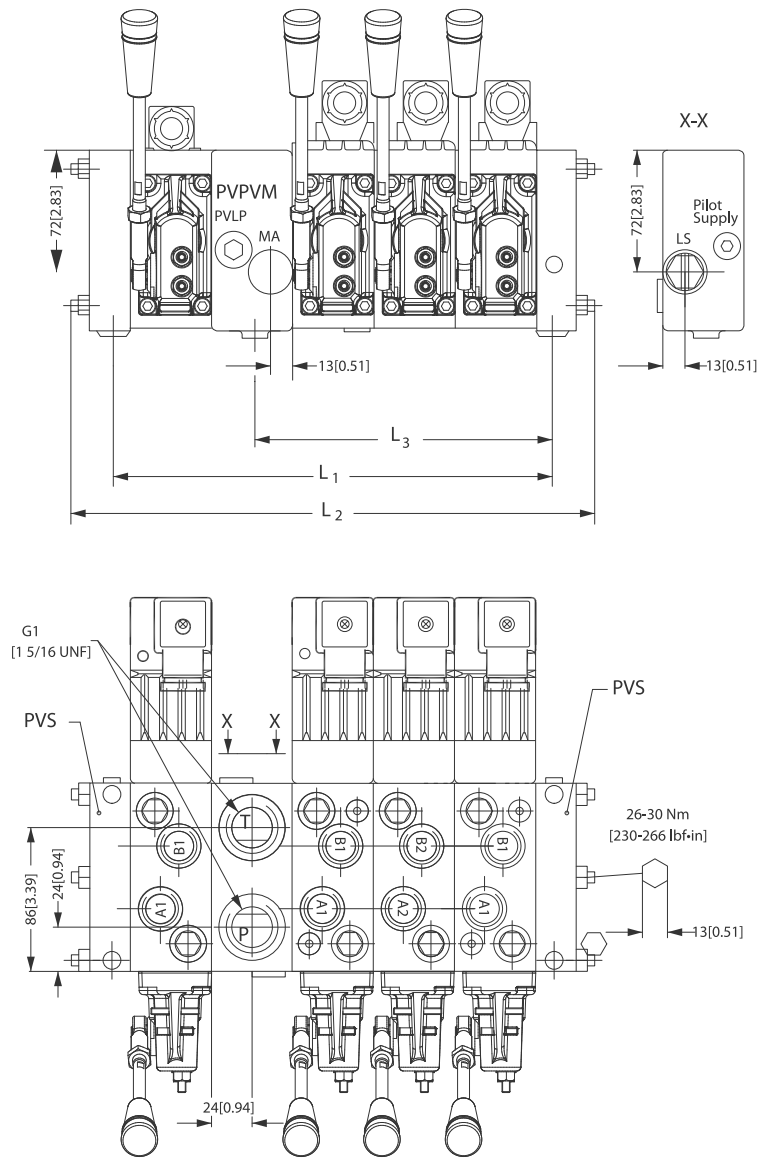
Set pressure difference between pump pressure and LS signal = 15 bar [218 psi]



The oil flow depends on the pressure difference between pump pressure and LS-signal. Normally, the pressure difference can be set on the LS-pump control.

Introduction

PVPVM dimensions



V310124.B

MA, LS : G $\frac{1}{4}$ [9/16 - 18 UNF]

Stay bolt set, PVAS for PVPVM

In PVG 32 valve groups fitted with PVPV use standard PVAS, 157B8001 → 8010.

For pump pressures over 320 bar [4641 psi], use stay bolt set 157B8041 → 8050.

Qty., basic modules	L ₁	L ₂	L ₃	Weight kg [lb]		Code number
1	116	165	83	0.25	[0.5]	157B8021
2	166	213	131	0.30	[0.6]	157B8022
3	214	262	179	0.35	[0.7]	157B8023
4	262	311	227	0.45	[0.9]	157B8024

Introduction

Qty., basic modules	L₁	L₂	L₃	Weight kg [lb]		Code number
5	310	360	275	0.50	[1.0]	157B8025
6	358	409	323	0.55	[1.1]	157B8026
7	406	458	371	0.65	[1.3]	157B8027
8	454	507	419	0.70	[1.4]	157B8028
9	502	551	467	0.75	[1.5]	157B8029
10	550	600	515	0.85	[1.7]	157B8030

Introduction

PVG 32 specification sheet



**PVG 32
Specification Sheet**

Subsidiary / Dealer	PVG No.
Customer	Customer No.
Application	Revision No.

Function	A-port	B-port
0 Inlet		P = <input type="text"/> bar
1	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
2	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
3	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
4	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
5	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
6	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
7	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
8	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
9	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
10	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
11	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
12	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
13	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
14	a	f <input type="text"/> e
	b	LS _A = <input type="text"/> bar LS _B = <input type="text"/> bar
15 End section		
16 PVAS section		
17 Reserved for painting		

Comments
Filled in by <input type="text"/> Date <input type="text"/>



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