Hydraulic power pack type LP

Turn-key version including tank with air driven hydraulic pump acc. to D 7280

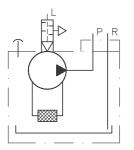


Cover plate

version for customer furnished tank, here with connection block type C 5 for direct pipe connection.

Order example and flow pattern symbol

LP 125-12 / D4-C5

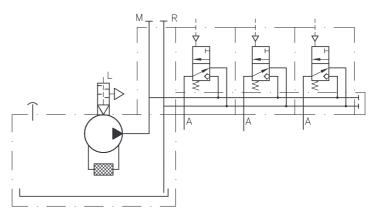




Hydraulic power pack with directly mounted directional seated valve type VB 11 acc. to D 7302

Order example and flow pattern symbol

LP 125-16 / B4 - VB 11LP - HHH - 1



1. General information

- Hydraulic power pack without connection block (retrofit) or with connection block for direct pipe connection
- Hydraulic power pack with connection block and directly mounted directional seated valve bank.

The connection blocks are available with/without pressure limiting valve.

There is usually no pressure limiting valve necessary for the hydraulic side, when the pneumatic pressure is set at the pressure reducing valve of the pneumatic maintenance unit accordingly to the hydraulic consumer specification. The pump will automatically come to a stand-still and restart depending on the pressure level at the hydraulic side. A connection block with a pressure limiting valve has to be utilized when a specific pressure on the hydraulic side must be maintained without altering the pressure on the pneumatic side e.g. necessary when several consumers are driven from one pneumatic source. Drawback is that the pump will run permanently with all excess delivery being returned to the tank via the pressure limiting valve on the hydraulic side The pump will come to a stop only when the pneumatic side is cut-off via a on/off valve.



D 7280 H Hydraulic power pack type LP

2.	Ava	aila	ble ve	rsions,	ma	in da	ita								
Order examples:							LP 160 - 25 / B 25								
							LP 80	-8 / B 4	4 C	C 5					
							LP 12	5 - 18 / B 1	10		- BW	'H 1	L-NN-	-33-1-G24	
							LP 12	5 - 12 / B 4	1 S <i>A</i>	\1/400) - VB	11 :	SP-HH	H-1	
									- 1-						
	Basio	c pum	p acc. to	D 7280											
Table 1a	a: Tan	ık size	e –								٦	Table		irect mounting of directio- al valve banks	
Coding Contair		Slab	Filling- volume	Usable volume	Mass (weig	s (ht) ap-	Suitable f	for combi- th basic					ct moun	ting limiting valve)	
				approx.(l) ⁴)			pump (D	7280)						eated valves type	
В4		D 4	7	5 (4.7)	5.7	7	LP 80-16 to -8					BWN 1L	acc. to D 7470 B/1		
Б4		J4	5.8	4 (3.8)		1	LP 125-3	0 to -8			BW	H 1L	(solenoid actuated)		
B 10		D 10	16.6	13.5 (13.3)	8.5 -		LP 125-30 to -8 LP 160-30 to -8				VB 0		acc. to D 7302		
510	L	010	13.5	11.5 (11.4)								VRJ	1L	(with various actuations)	
B 25	r	D 25	34	29	10		LP 125-30 to -8					-		connection block	
0 20		20	33	28	15.1		LP 160-30 to -8					(with pressure lim Type A (see tabl			
														eated valves type:	
Table 1	b: Op	otiona	Illy with flo	at switch or	level g	gauge		_		_			V 1S	acc. to D 7470 B/1	
	N	D-con	tact Techr			B4, B10 B25				BWH 1S	H 1S	(solenoid actuated)			
S ⁵)	Max. switch				60W / 6		60VA 30W / 30		/A			VB 01S		acc. to D 7302	
		Capacity DC/AC Max. current DC and AC 0.8 A (c					cos φ = 1)	φ = 1) 0.5 A				VB 11S (with various actuati			
	N	C-con	tact Max.		4710		i0 a. 60 Hz		a. 60 H	Iz					
D	_	-00		erature rang	е	-10	+80°C	-10 +8	0°C						
		$\langle \rangle$	Apro	tective circu	itry ha	is to he	nrovided f	or inductive	load						
к	1	evel	gauge				provided i		iouu.	-					
(K1, K			0 0	sition, see pa	age 3)										
Table 2	: Coi	nnect	ion blocks							I					
Coding	1	ac	c. to	Tapped p	orts	Pressu	ire	Flow	Inte	Integrated func		ctional elements		Brief description	
			mphlet	conf. DIN			-			Pressure		Optional			
				228/1 (BS	,				limiting valve		ve c	check valve			
					(bar) ²		2)								
no coo	ding		C	ustomer furn	ished	connec	tion block	; for hole pa	ttern s	ee sect	. 3.1				
C 5		D 6905 C G 1/4		G 1/4	700		12		no		no		10	Basic connection	
C 6				G 3/8			F	28	1					block	
		-						-						For single acting lif-	
В/		D	6905 B	G 1/4		450 (7	00)	8 25		yes		У	/es	ting or clamping devi-	
									-					ces	
A 1/	A 1/ A 2/ A 3/ A 4/		6905 A	G 1/4	G 1/4		(0) 700			yes		r	10	Most frequently used	
														connection blocks	
						in steps				yes		yes		with pressure limiting valve	
AP 1			D 6905 AP G 1/4		57		00	20	yes			no		Prop. pressure limiting	
AP 3		1								yes		yes		valve ³)	
AP 3			6905 TÜV	G 1/4		80 4	150	6 10		-				Dropouro limiting value	
and			0303 107	and		00 4		510		yes		У	/es	Pressure limiting valve with unit approval	
AX 3				G 3/8											

¹) Tank complete (cover plate, tank and piping) without pressure fluid. For basic pump, see D 7280

2) Max. perm. pressure with type LP 80 is 400 bar as standard hydraulic power pack (see D 7280, sect. 2.1).

Observe the max. pressure rating of the directly mounted directional valve banks it might be rated lower than 700 bar.

3) May be used also as idle circulation valve (approx. 5 bar) when the prop. solenoid is deenergized. Idle circulation circuits via solenoid actuated valves may be useful for frequently changing load/no-load periods within one cycle, where it is not practical to start and cut-off the pump for seconds only. In this case the pump will be cut-off after the cycle has been completed

4) The figures in brackets represent the approx. consumable volume, after which the float switch triggers a signal (table 1b).

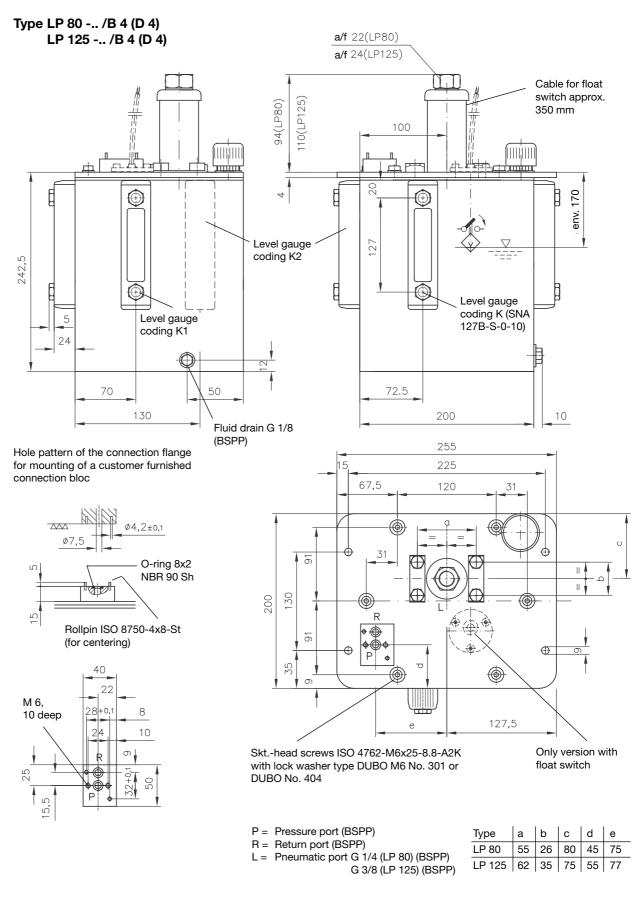
5) Only avail. for tank B4 and B10

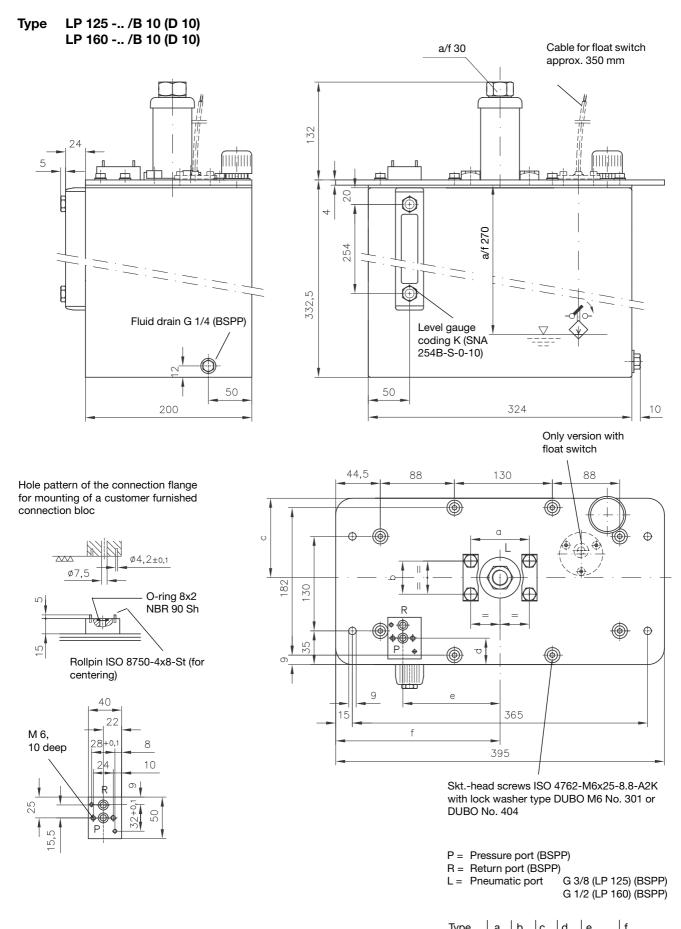
3. Unit dimensions

All dimensions in mm, subject to change without notice!

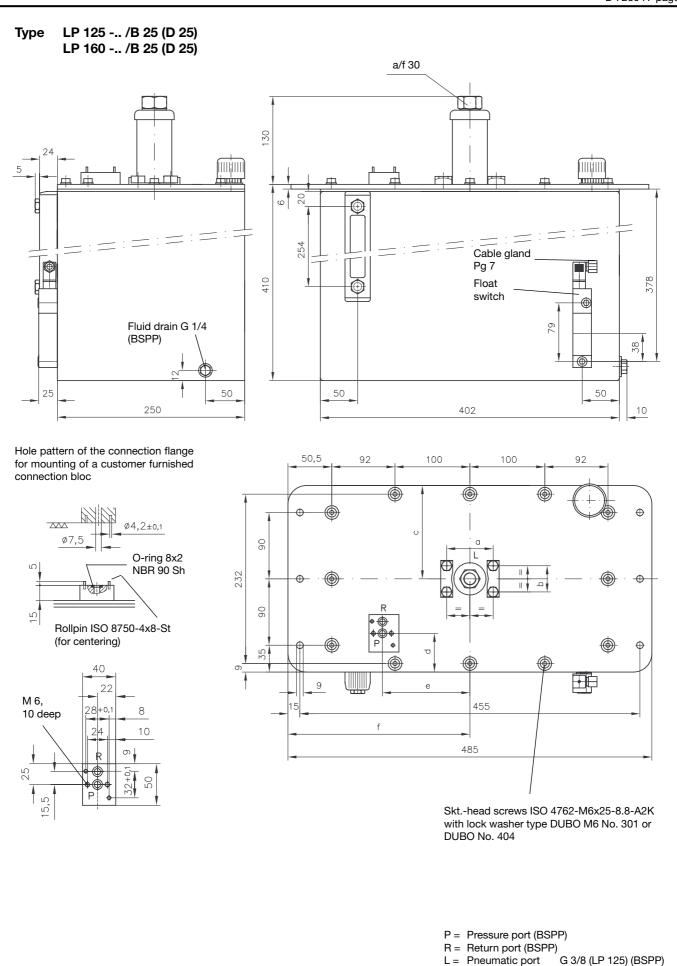
3.1 Hydraulic power pack (basic unit without connection block)

See sect. 3.2 for versions with connection blocks and sect. 3.3 for versions with directly mounted directional valve banks!





Туре	а	b	С	d	е	f
LP 125						155
LP 160	68	45	95	36	122,5	197,5



G 1/2 (LP 160) (BSPP)

Туре	a	b	с	d	е	f
LP 125						155
LP 160	68	45	125	56	122.5	242.5

3.2 Connection blocks

Version without pressure limiting valve

Type C 5 and C 6

Return port

Pressure port

G 1/4 (BSPP) with type C 5 G 3/8 (BSPP) with type C 6

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Version with pressure limiting valve

Example: Type A 1/..to A 4/.. acc. to D 6905 A)

Туре	В/
	AP 1(3
	AX 14(

 (acc. to D 6905 B)
 (acc. to D 6905 AP)

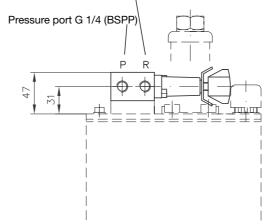
 (3)..
 (acc. to D 6905 AP)

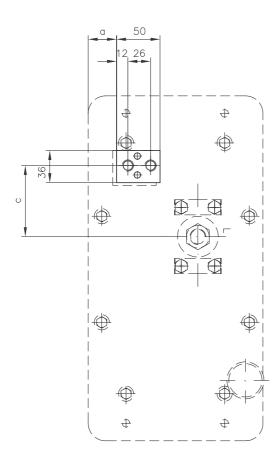
 (4(3)..
 (acc. to D 6905 TÜV)

Similar mounting; For dimensional drawings, see the respective pamphlets !

For versions with directly mounted directional valve banks, see sect. 3.3

Return port G 1/4 (BSPP)





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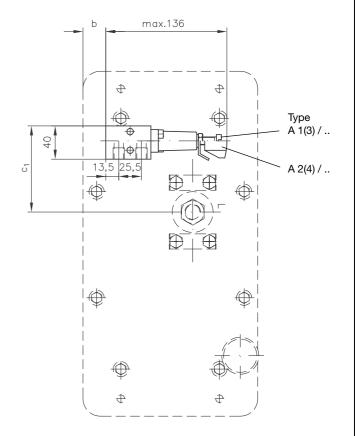
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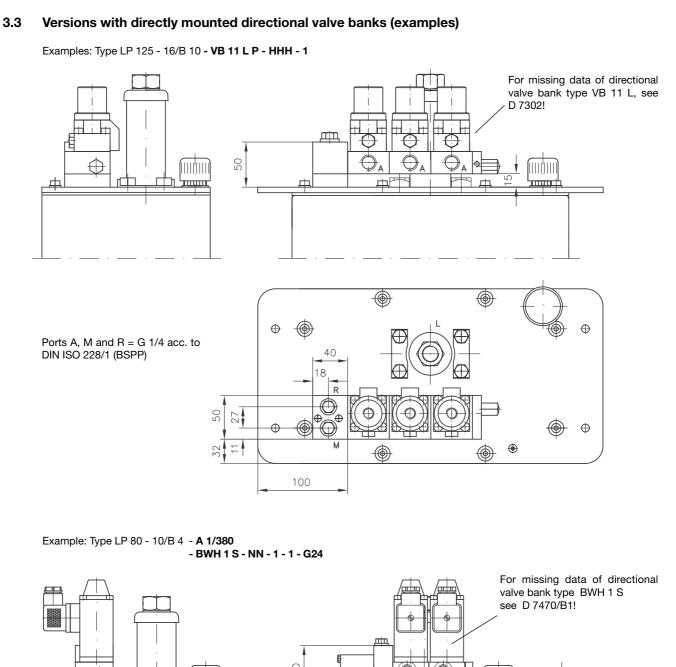
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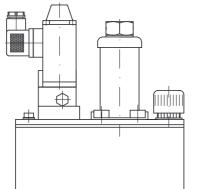
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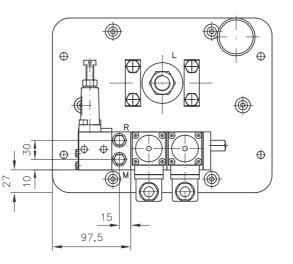


	а	b	с	c1
B 4 (D 4)				
B 4 (D 4)	31.5	27	77	95
B 10 (D 10)				
B 25 (D 25	81.5	77	77	95
B 10 (D 10)	12.5	8	122 5	140.5
B 25 (D 25)	32.5	18	122.0	
	B 4 (D 4) B 10 (D 10) B 25 (D 25 B 10 (D 10)	B 4 (D 4) 31.5 B 4 (D 4) 31.5 B 10 (D 10) 25 B 25 (D 25 81.5 B 10 (D 10) 12.5	B 4 (D 4) 31.5 27 B 10 (D 10) 31.5 27 B 25 (D 25 81.5 77 B 10 (D 10) 12.5 8	B 4 (D 4) 31.5 27 77 B 10 (D 10) 81.5 77 77 B 10 (D 10) 12.5 8 122.5





see D 7470/



Ports A, M and R = G 1/4 acc. to DIN ISO 228/1 (BSPP)