



TECHNICAL DATA

Technical data with mineral oil

HL or HLP mineral oil based hydraulic fluid to DIN 51524				LVP 30	LVP 48	LVP 75	LVP 90
Max. displacement (theor.) Vmax	cm ³ /rev			29	46	73	87,9
Inlet pressure	bar abs.	min.		0,8			
		max.		25			
Max. outlet pressure pmax		continuous		280	280	280	250
		intermittent		315	315	315	280
		peak		350	350	350	315
Max. drain line pressure	bar abs.			1,5			
Max. speed nmax	min ⁻¹	at Vmax (1)		3000	2600	2200	1850
Max. delivery (theor.)	l/min	at nmax		87	119,6	160,6	162,6
		at 1800 min ⁻¹		52,2	82,8	131,4	158,2
		at 1500 min ⁻¹		43,5	69	109,5	131,9
Max. power (theor.) p = pmax cont.)	kW	at nmax		40,6	55,8	74,9	67,8
		at 1800 min ⁻¹		24,4	38,6	61,3	65,9
		at 1500 min ⁻¹		20,3	32,2	51,1	54,9
		at pmax cont.		129,2	205	325,3	349,8
Max. torque (theor.)	Nm	at 100 bar		46,2	73,2	116,2	139,9
Moment of inertia (kgm ²)				0,002	0,003	0,008	0,008
Fill capacity (l)				0,7	0,9	1,5	1,5
Mass without oil (kg)				18	24	33	33
Seals				N= Buna		V= Viton	
Operating temperature (°C)		min.		-25		-10	
		max. cont.		80		110	
		max. peak.		100		125	

(1) = with an inlet pressure of 14.5 psi (1 bar abs)

Technical data restrictions with fire resistant fluid

Water - glycol (35 55 % of water) - HFC				LVP 30	LVP 48	LVP 75	LVP 90
Max. outlet pressure pmax	bar	continuous		170			
		intermittent		185			
		peak		200			
Max. speed nmax	min ⁻¹	at Vmax (1)		2100	2000	1700	1700
Seals				N= Buna		V= Viton	
Operating temperature (°C)		min.		0			
		max.		90			
Life bearing	%			75			

Phosphate ester - HFD				LVP 30	LVP 48	LVP 75	LVP 90
Max. outlet pressure pmax	bar	continuous		200			
		intermittent		220			
		peak		240			
Max. speed nmax	min ⁻¹	at Vmax (1)		2100	2000	1700	1700
Seals				V= Viton			
Operating temperature (°C)		min.		-10			
		max.		50			
Life bearing	%			90			



HOW TO ORDER SINGLE PUMPS

1	2	3	4	5	6	7	8	9	10					
Pump type	Rotation	-	Drive Shaft	Mounting flange	-	Ports position	Ports IN/OUT	-	Seals	-	Regulators	-	Additional options	Fluid
LVP30	S	-	04	S5	-	L	MD/QB	-	N	-	RP0	-	E	...

1	Pump type (max displacement)	
cm ³ /rev	Code	
29	LVP 30	
46	LVP 48	
73	LVP 75	
87,9	LVP 90	

2	Rotation	
	Code	
Anti-clockwise	S	
Clockwise	D	

3	Drive shaft	
	Code	
SAE "B" spline (13 teeth)	04	
SAE "B" straight	32	
Straight ø 22	65	
SAE "BB" spline (15teeth)	05	
SAE "BB" straight	33	
Straight ø 25	69	
SAE "C" spline (14 teeth)	06	
SAE "C" straight	34	
Straight 32	70	

4	Mounting flange	
	Code	
SAE "B" 2 holes	S5	
ISO 100	Z1	
SAE "C" 2 holes	S7	
ISO 125	Z2	

5	Ports position	
	Code	
Slide	L	
Rear	P	

6	Inlet/outlet ports			
SAE FLANGED PORTS METRIC THREAD (SSM)				
Nominal size				
Pump type	Inlet IN	Outlet OUT	Code	
		SAE 3000	SAE 6000	
LVP 30	1 1/4"	3/4"	MD/QB	
LVP 48	1 1/2"	1"	ME/QC	
LVP 75	2"	1"1/4"	MF/QD	
LVP 90	2"	1"1/4"	MF/QD	
SAE FLANGED PORTS UNC THREAD (SSS)				
Nominal size				
Pump type	Inlet IN	Outlet OUT	Code	
		SAE 3000	SAE 6000	
LVP 30	1 1/4"	3/4"	SD/VB	
LVP 48	1 1/2"	1"	SE/VC	
LVP 75	2"	1"1/4"	SF/VD	
LVP 90	2"	1"1/4"	SF/VD	

7	Seals	
	Code	
Buna (standard)	N	
Viton	V	

8	Regulators	
	Code	
Pressure compensator - setting range 20 - 350 bar (a)	RP0	
Flow compensator (b)	LS0	
Flow compensator for remote control (b)	LS2	
Flow compensator for internal control (b)	LS3	
Torque limiter - standard	RN0	
Torque limiter - internal pilot	RN1	
Pressure and flow digital regulator (c)	DES	
Pressure and flow digital regulator with sequence module RES (c)	DESR	

9	Additional options	
	Code	
Without additional options (no code)		
Max. displacement limiter (e)	E	
Min. displacement limiter (e)	F	
Min. and max. displacement limiter (e)	G	
Unloading valve (f)	U..	

10	Fluid	
	Code	
Mineral oil (no code)		
HF fire resistant fluid (please consult our sales department)	H	

- a) Standard setting 280 bar.
- b) Differential pressure standard setting 14 bar setting range 10 - 40 bar
- c) For more informations, please consult our sales department.
- d) For additional options, please consult our sales department.
- e) Max. up to 50% of the displacement.
- f) More voltages availability .



HOW TO ORDER MULTIPLE PUMPS

1	2	3	4	5	6	7	8	9	10	11	12
Pump type	Rotation	Drive Shaft	Mounting flange	Ports position	Ports IN/OUT	Seals	Regulators	Additional options	Fluid	Interm flange	Coupling
LVP30	S*	04	S5	L	MD/QB	N#	RP0	E	...	AS5	04

Front section

LVP30	S*	04	S5	L	MD/QB	N#	RP0	E
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Rear section

1	Pump type (max displacement)
cm ³ /rev	Code
29	LVP 30
46	LVP 48
73	LVP 75
87,9	LVP 90

2	Rotation
	Code
Anti-clockwise	S
Clockwise	D

3	Drive shaft
	Code
SAE "B" spline (13 teeth)	04
SAE "B" straight	32
Straight ø 22	65
SAE "BB" spline (15teeth)	05
SAE "BB" straight	33
Straight ø 25	69
SAE "C" spline (14 teeth)	06
SAE "C" straight	34
Straight 32	70

4	Mounting flange
	Code
SAE "B" 2 holes	S5
ISO 100	Z1
SAE "C" 2 holes	S7
ISO 125	Z2

5	Ports position
	Code
Slide	L
Rear	P

6	Inlet/outlet ports		
SAE FLANGED PORTS METRIC THREAD (SSM)			
Nominal size			
Pump type	Inlet IN	Outlet OUT	Code
		SAE 3000	SAE 6000
LVP 30	1 1/4"	3/4"	MD/QB
LVP 48	1 1/2"	1"	ME/QC
LVP 75	2"	1"1/4	MF/QD
LVP 90	2"	1"1/4	MF/QD
SAE FLANGED PORTS UNC THREAD (SSS)			
Nominal size			
Pump type	Inlet IN	Outlet OUT	Code
		SAE 3000	SAE 6000
LVP 30	1 1/4"	3/4"	SD/VB
LVP 48	1 1/2"	1"	SE/VC
LVP 75	2"	1"1/4	SF/VD
LVP 90	2"	1"1/4	SF/VD

7	Seals
	Code
Buna (standard)	N
Viton	V

8	Regulators
	Code
Pressure compensator - setting range 20 - 350 bar (a)	RP0
Flow compensator (b)	LS0
Flow compensator for remote control (b)	LS2
Flow compensator for internal control (b)	LS3
Torque limiter - standard	RN0
Torque limiter - internal pilot	RN1
Pressure and flow digital regulator (c)	DES
Pressure and flow digital regulator with sequence module RES (c)	DESR

9	Additional options
	Code
Without additional options (no code)	
Max. displacement limiter (e)	E
Min. displacement limiter (e)	F
Min. and max. displacement limiter (e)	G
Unloading valve (f)	U..

10	Fluid
	Code
Mineral oil (no code)	
HF fire resistant fluid (please consult our sales department)	H

11	Intermediate flange
	Code
SAE "A" 2 holes	AS1
SAE "B" 2 holes	AS5
SAE "C" 2 holes	AS7

12	Regulators
	Code
SAE "A" spline (9 teeth)	03
SAE "A" straight	31
SAE "B" spline (13 teeth)	04
SAE "B" straight	32
SAE "BB" spline (15 teeth)	05
SAE "BB" straight	33
SAE "C" spline (14 teeth)	06
SAE "C" straight	34

- a) Not available for front sections.
- b) Standard setting 4060 psi (280 bar).
- c) Differential pressure standard setting 14 bar setting range 10 - 40 bar.
- d) For more informations, please consult our sales department.
- e) For additional options, please consult our sales department.
- f) Max. up to 50% of the displacement.
- g) LVP30 flange AS5, LVP75 and LVP90 flange AS7 are not available.
- h) For voltages availability please see page 28.

* For multiple pumps, the rotation code letter is added at the end of the complete ordering code.

Omit code only if ordering assembled multiple pumps.