

InLine variable displacement axial piston pump type V60N

The InLine variable displacement pump type V60N works according to the swash plate principle usually driven via the ancillary drive. It is intended for open circuit operation in mobile hydraulics. In optional thrushaft enables direct mounting of additional variable displacement pumps or a feed pump. These pumps are suited for a wide range of applications due to their low running noise and various pump controllers. The direct mounting at the gear box is either via a SAE-flange or a flange conforming ISO 7653. The flange area at the suction port enables optimized hose



connection with little back pressure. Main benefit of these pumps are the sturdy design, the good performance/weight ratio and long service life due to oversized bearings.

Nomenclature:	Variable displacement axial piston pump
Design:	Individual pump Pump combination
p _{max} :	350 bar (continuous) 420 bar (peak)
Q _{max} :	130 160 lpm (1450 rpm)
V _{g max} :	60 110 cm³/rev

Basic type and main parameter

Basic type	Geom. dis-	Delivery flow	Nom.	Self-suction
	placement		pressure	speed
	V _g (cm ³ /rev)	Q _{max} (lpm) 1)	p _{nom} (bar) ²)	n (rpm)
V60N -060	60	87	350 (400)	2700
-090	90	130	350 (400)	2400
-110	110	160	350 (400)	2200

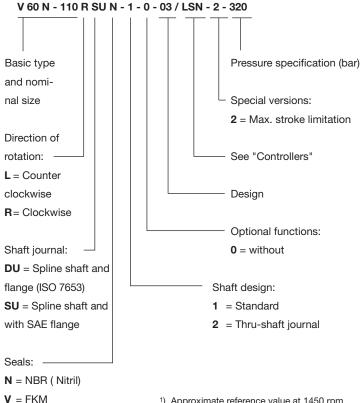
Symbols



Additional versions (basic types)

• Double pumps Additional pumps may be mounted directly via flanges conforming to SAE-A

Type coding



- 1) Approximate reference value at 1450 rpm
- ²) Figures in brackets = p_{max} (bar)

Controllers type V60N

Description (type)

• Power controller:

L - Limitation of the driving torque

• Load-Sensing-controller:

LSN - For proportional directional spool valves with pressure limitation

• Pressure controller:

N - Suited for constant pressure systems

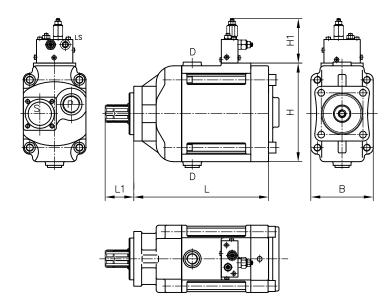
Order examples

V60N - 090 R DU N - 1 - 0 - 01 / LSN - 2 - 320

Pump type V60N, nom. size 090, for clockwise rotation suited for truck ancillary drives (DU) and NBR seals, standard shaft (no thru-shaft). Load-Sensing-controller and pressure limitation, stroke limitation (coding 2), LSN-controller with operation pressure set for max. 320 bar.

Dimensions

(see order example)



Basic type	L	L1	В	н	H1	m (kg)
V60N -060	254	55	115	181	50	23
-090	277	55	120	189	50	26.7
-110	279	55	125	191	50	29

All dimensions in mm, subject to change without notice!

Ports at type V60N-090 (-110):

P = Pressure outlet G 1 (BSPP)

S = Suction port \emptyset 1 1/2

D = Leakage port G 1/2 (BSPP)

LS = LS-signal port G 1/4 (BSPP)

	Add	litional	infor	mation
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Variable displacement axial piston pump type V60N		D 7960 N
 Axial piston motor type M60N 		D 7960 M
Fixed displacement axial piston pump type K60N		D 7960 K
• InLine variable displacement axial p	iston pump	
	type V30D	D 7960
	type V30E	D 7960 E
	type V30Z	D 7960 Z
• Prop. directional spool valve type P	D 7700-2	
type P	SL/PSV size 3	D 7700-3
type P	SL/PSV size 5	D 7700-5

type PSLF/PSVF size 3/5

• Load holding valves	type LHK	D 7100
	type LHDV	D 7770
	type LHT	D 7918

• see also section "Devices for special applications" (mobile hydraulics)

For section and page of the additionally listed devices, see type index

D 7700-F