ENGINEERING TOMORROW

Data Sheet

Hydraulic Steering Unit
OSPD

The OSPD is a dual displacement steering unit, which assures easy maneuverability of machines of most sizes.

Each unit in the complete steering range combines superior performance with the highest standards of safety, operator comfort and low noise levels.

Due to flexibility in combination of rotary meters, OSPD can be offered with many different ratios between emergency steering and normal steering displacement, ratios between 1:2 and 1:7.

OSPD also can be offered with external shift of displacement. In this way can be selected between different displacements to improve comfort and productivity.



Features

- The OSPD has 2 rotary meters (gear wheel sets). In the case of no pump supply only one rotary meter is active for emergency steering. In normal steering situations both rotary meters are active.
- With OSPD even heavy vehicles can in many cases fulfil legislations and be steered without the emergency steering pump.
- Ratio between normal steering displacement and emergency steering displacement from factor 2 up to 7.
- Low steering torque 0.8 to 3.0 N•m [7.08 to 26.55 lbf•in] in normal steering situations.
- Low noise.
- One or several built in valve functions possible: pressure relief, shock and suction in L + R, Non-return in P and in LS.

Applications

- Larger tractors
- Combines
- Backhoe loaders
- Telescopic handlers
- Wheel loaders etc.

Comprehensive technical literature online at *powersolutions.danfoss.com*

OSPD program

- Open center Non-reaction (ON)
- Open center Reaction (OR and ORM)
- Load Sensing non-reaction (LS) dynamic
- Load Sensing Reaction (LSR + LSRM) dynamic

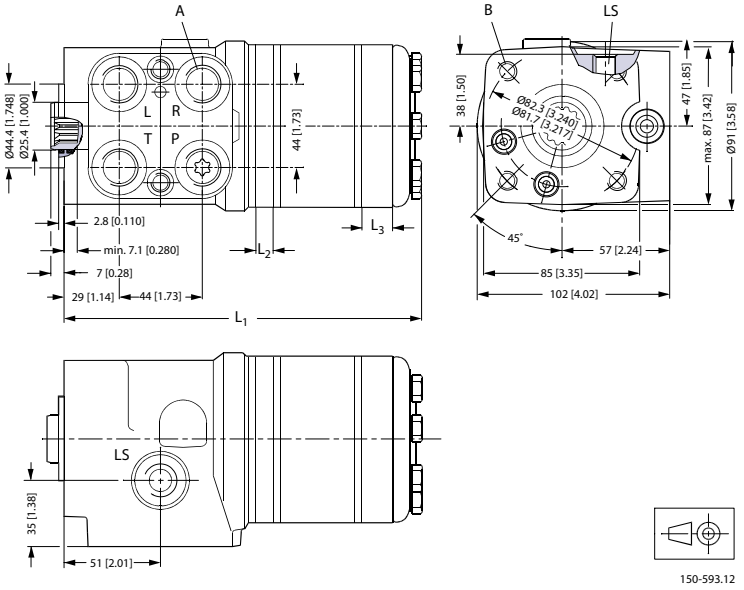
OSPD dimensions

Type	L_1 mm [in]	L_2 mm [in]	L_3 mm [in]	Weight kg [lb]
OSPD 60/185	191 [7.52]	9.1 [0.36]	16.2 [0.64]	7.5 [16.53]
OSPD 60/220	195 [7.68]	9.1 [0.36]	20.8 [0.82]	7.7 [16.98]
OSPD 70/195	190 [7.48]	9.1 [0.36]	16.2 [0.64]	7.5 [16.53]
OSPD 70/230	195 [7.68]	9.1 [0.36]	20.8 [0.82]	7.7 [16.98]
OSPD 100/260	199 [7.83]	13.0 [0.51]	20.8 [0.82]	7.8 [17.20]
OSPD 100/300	204 [8.03]	13.0 [0.51]	26.0 [1.02]	8.0 [17.64]
OSPD 125/285	202 [7.95]	16.2 [0.64]	20.8 [0.82]	7.9 [17.42]
OSPD 125/325	207 [8.15]	16.2 [0.64]	26.0 [1.02]	8.1 [17.86]
OSPD 125/440	222 [8.74]	16.2 [0.64]	40.9 [1.61]	8.7 [19.18]

OSPD specifications

Displacement (most common)	60/185, 60/220, 60/260, 70/195, 70/230, 100/260, 100/300, 125/285, 125/325 and 125/440 cc/rev		
Maximum system pressure/ max P-T port pressure	210 bar [3045 psi]		
Max. back pressure/ max. T-port pressure	40 bar [580 psi]		
Max. flow, Open center version	70 l/min [18.49 US gal/min]		
Input torque*	0.8 - 3 N•m [7.08-26.55 lbf•in]		
Valve functions	Check valve for manual steering standard on all versions. Possible pressure relief, shock and suction valves, check valve in P and in LS (dynamic only)		
Port options		P, T, L, R	LS
	DIN 3852-2	BSP G 1/2"	G 1/4"
	ISO 6149-1	M18x1.5	M12x1.5
	ISO 11926-1	3/4-16 UNF	7/16-20 UNF
Neutral pressure drop, ON/OR versions	3 bar [43.5 psi] at 20 l/min [5.28 US gal/min] and at viscosity 21 cSt		

* For standard neutral spring kit 150-4209



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