



With two separate flows and directly mounted By-Pass valve, the SCPD 56/26 is the most flexible compact fixed flow pump on the market. SCPD 56/26 By-Pass is ideal for combination vehicles which require different flows and where there is a need to operate equipment while moving.

The pump is primarily intended for enginemounted power take offs. The constant engagement is made possible by the By-Pass valve, which immediately relieves the load on the pump and power take off when oil is not required.

Pump SCPD 56/26 DIN By -Pass A normal ratio for enginemounted power take offs today is 1.2. This gives a pump flow of 67 and 31 l/min respectively at 1000 engine rpm.

The displacements are 56.0 and 26.0 cm<sup>3</sup>/revs respectively and max pressure is 40 MPa.

The high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process. SCPD 56/26 is speed optimized and therefore supplied in either left (L) or right (R) handed versions. The pressure drop of the By-Pass valve is very low, so its function is energy efficient.

Other advantages of SCPD 56/26

- High self-priming speed
- Constant low noise level
- Long life due to high demands on material selection, such as bearings, seals, etc
- O-rings on all contact surfaces as well as double shaft seals eliminate oil leakage from the pump and power take off
- The By-Pass valve can relieve the load from full operating pressure of 40 MPa
- The valve's 24 V solenoids have integrated electrical cables which meet protection class ADR

## Pump SCPD 56/26 DIN By-Pass

Theoretical oil flow A+B at pump speed	rpm	l/min			
	600	33.5 + 15.5 = 49			
	1000	56.0 + 26.0 = 82			
	1200	67.0 + 31.0 = 98			
	1500	84.0 + 39.0 = 123			
	1800	100.5 + 46.5 = 147			
Displacement A+B	cm <sup>3</sup> /rev	56.0 + 26.0			
Max pump speed A+B	rpm	1850			
Max pump speed A	rpm	1850			
Max pump speed B	rpm	2200			
Max pump speed, relieved	rpm	2700			
Max operating pressure	bar	continuous			
		intermittent			
		350			
		400			
Weight without valve	kg	18			
Weight with valve	kg	22.5			
Tare-weight torque without valve	Nm	21			
Tare-weight torque with valve	Nm	25.5			
Nominal power at pressure and pump speed	rpm	200 Bar	300 Bar	400 Bar	
		600	11.2 + 5.2 = 16.4 kW	16.8 + 7.8 = 24.6 kW	22.4 + 10.4 = 32.8 kW
		1200	22.4 + 10.4 = 32.8 kW	33.6 + 15.6 = 49.2 kW	44.8 + 20.8 = 65.6 kW
		1800	33.6 + 15.6 = 49.2 kW	50.4 + 23.4 = 73.8 kW	67.2 + 31.2 = 98.4 kW
Nominal torque on pump shaft at different pressures		200 Bar	300 Bar	400 Bar	
			178 + 83 = 261 Nm	267 + 124 = 391 Nm	356 + 165 = 521 Nm



# VERSIONS, MAIN DATA

Example

SC	P	012	L	N	I41	W25	Z1	G	3	00
Line	1	2	3	4	5	6	7	8	9	10

Line	SC	Sunfab Compact, bent-axis design
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1. Type	P	Pump
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2. Displacement	012	017	025	034	040	047	056	064	084	090	130
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3. Direction of rotation	L	Left
	R	Right

4. Sealing	N	Nitrile
	H	High pressure, nitrile
	V	Viton

5. Mounting flange	ISO 3019-2	012	017	025	034	040	047	056	064	084	090	108	130
I41	ISO 4-h Ø80	X	X	-	-	-	-	-	-	-	-	-	-
I42	ISO 4-h Ø100	O	O	X	X	-	-	-	-	-	-	-	-
I43	ISO 4-h Ø125	-	-	-	X	X	X	X	X	-	-	-	-
I44	ISO 4-h Ø140	-	-	-	-	-	-	-	-	X	X	(X)	(X)
I45	ISO 4-h Ø160	-	-	-	-	-	-	-	-	(X)	(X)	X	X

6. Shaft		012	017	025	034	040	047	056	064	084	090	108	130
Spline DIN 5480													
W20	W20x1.25x14x9g	X	X	-	-	-	-	-	-	-	-	-	-
W25	W25x1.25x18x9g	X	X	X	(X)	-	-	-	-	-	-	-	-
W30	W30x2x14x9g	-	-	X	X	X	X	X	O	-	-	-	-
W32	W32x2x14x9g	-	-	-	-	X	X	X	O	-	-	-	-
W35	W35x2x16x9g	-	-	-	-	X	X	X	X	X	-	-	-
W40	W40x2x18x9g	-	-	-	-	-	-	-	-	X	X	X	O
W45	W45x2x21x9g	-	-	-	-	-	-	-	-	X	X	X	X
Key DIN 6885													
K20	Ø 20 k6	X	X	-	-	-	-	-	-	-	-	-	-
K25	Ø 25 k6	X	X	X	(X)	-	-	-	-	-	-	-	-
K30	Ø 30 k6	O	O	X	X	X	X	X	O	-	-	-	-
K35	Ø 35 k6	-	-	-	-	X	X	X	X	-	-	-	-
K40	Ø 40 k6	-	-	-	-	-	-	-	-	X	X	(X)	-
K45	Ø 45 k6	-	-	-	-	-	-	-	-	X	X	X	X

X = Standard, preferred  
 (X) = Available, option  
 O = Available on request, contact Sunfab

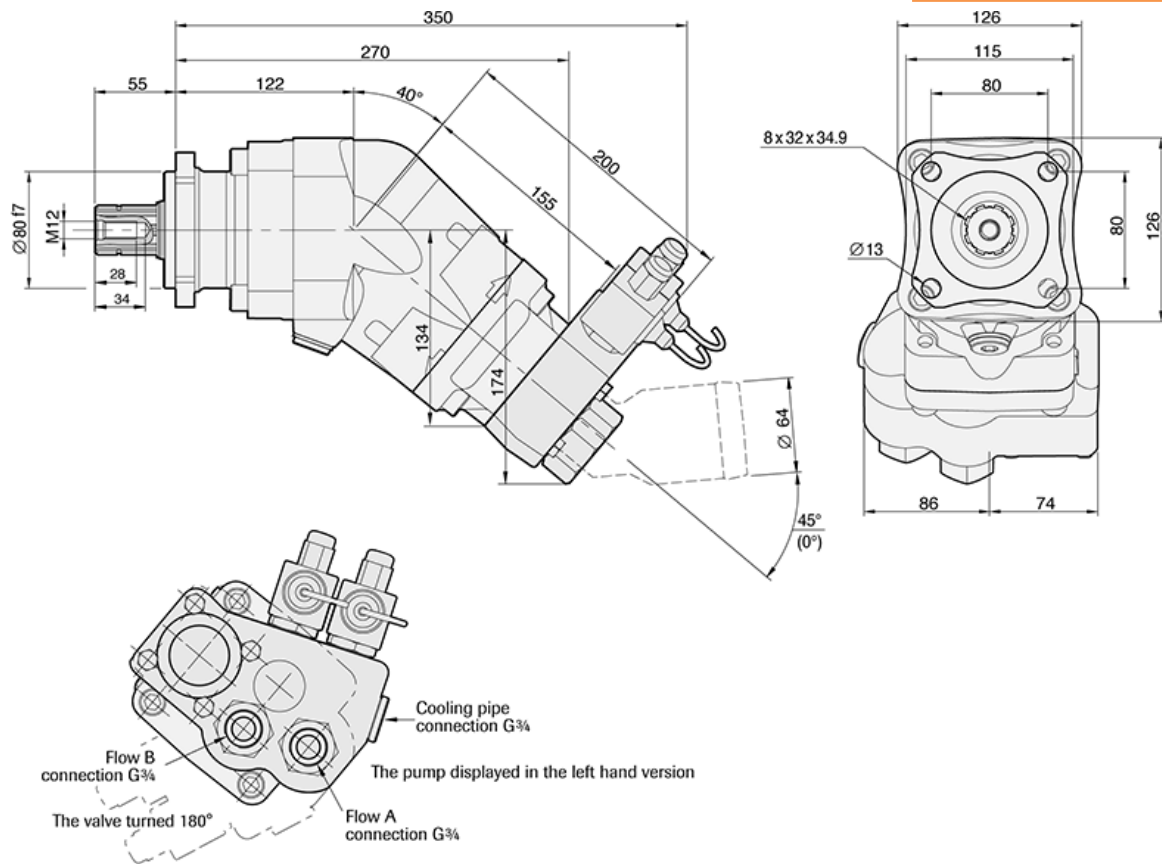
7. Connection cover		012	017	025	034	040	047	056	064	084	090	108	130
Z1	Suction rear, pressure at side	X	X	X	X	X	X	X	X	X	X	X	X

8. Connections		012	017	025	034	040	047	056	064	084	090	108	130
G	ISO G*	X	X	X	X	-	-	-	-	-	-	-	-
M	Metric **	-	-	X	X	X	X	X	X	X	X	X	X

\* Only threaded connections  
 \*\* Only flanged connections

9. Additional	3	External drainage + optimized
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10. Accessories	00	No accessories available
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**WARNING**

When the pump is running:

1. Do not touch the pressure hose
2. Watch out for rotating parts
3. The pump and hoses may be hot

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