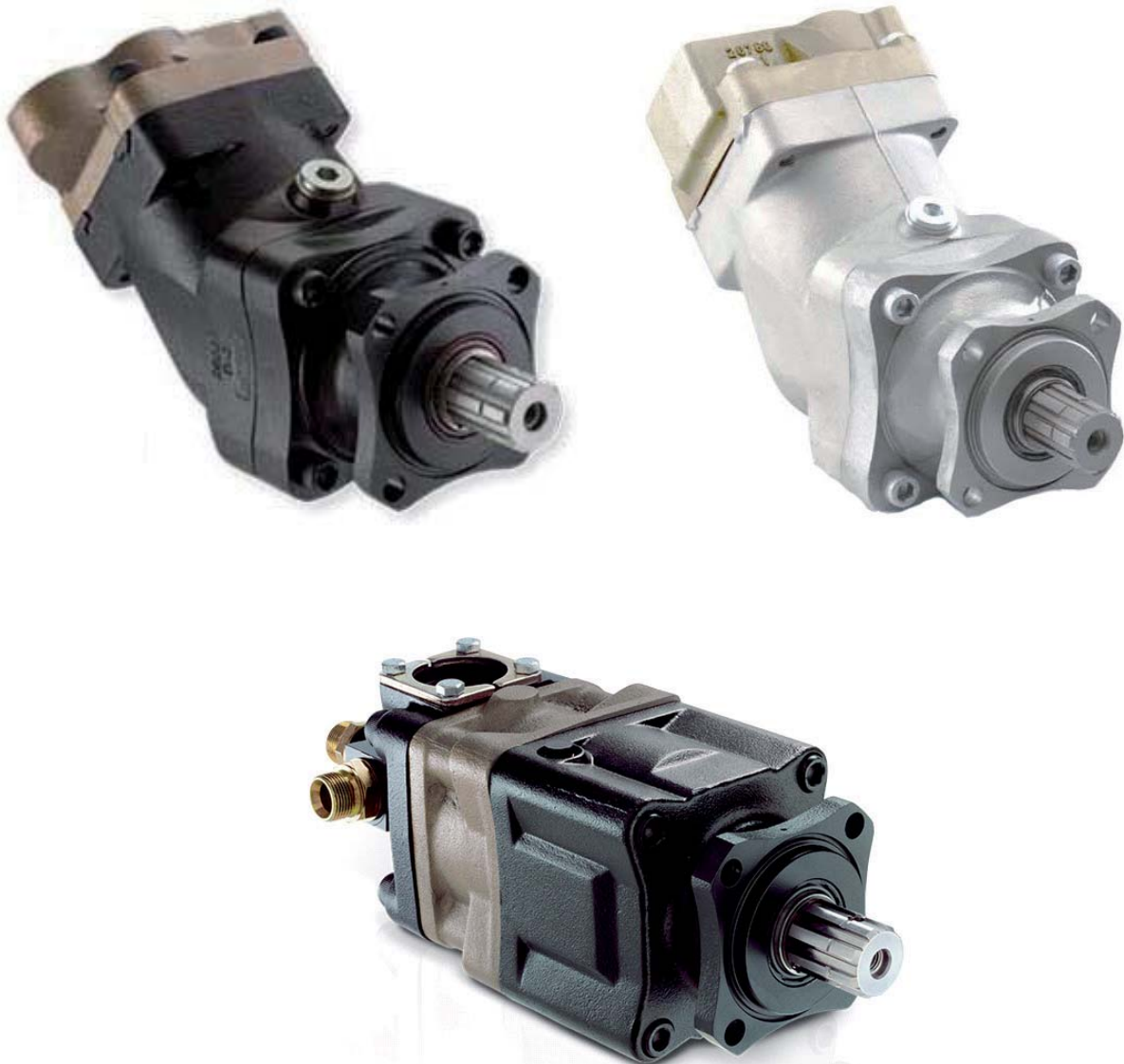


## Fixed Displacement Dual Flow Pumps

### Bent Axis SCPD Series In-Line SLPD Series





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## SCPD 56/26 DIN



**SCPD 56/26 DIN is a double pump with two separate flows of different sizes.**

SCPD 56/26 DIN gives 56.0 and 26.0 cm<sup>3</sup>/rev. and supports a maximum working pressure of 400 bar. It can effectively be directly mounted on gear boxes equipped with engageable and disengageable power take-offs. It is speed optimised and therefore supplied for either left (L) or right (R) rotation direction.

**Other advantages:**

- 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

**VERSIONS, MAIN DATA**

Example

SC	PD	-	56/26	L	-	V	-	DL4	-	L35	-	S0	S	-	2	00
Line	1		2	3		4		5		6		7	8		9	10

Line	
SC	Compact

7. Connection cover	
S0	Standard

1. Type	
PD	Dual flow pump

8. Connections	
S	Standard

2. Displacement	
	56/26

9. Additional	
2	Optimized

3. Direction of rotation	
L	Left
R	Right

10. Accessories	
00	No accessories available

4. Sealing	
V	HNBR

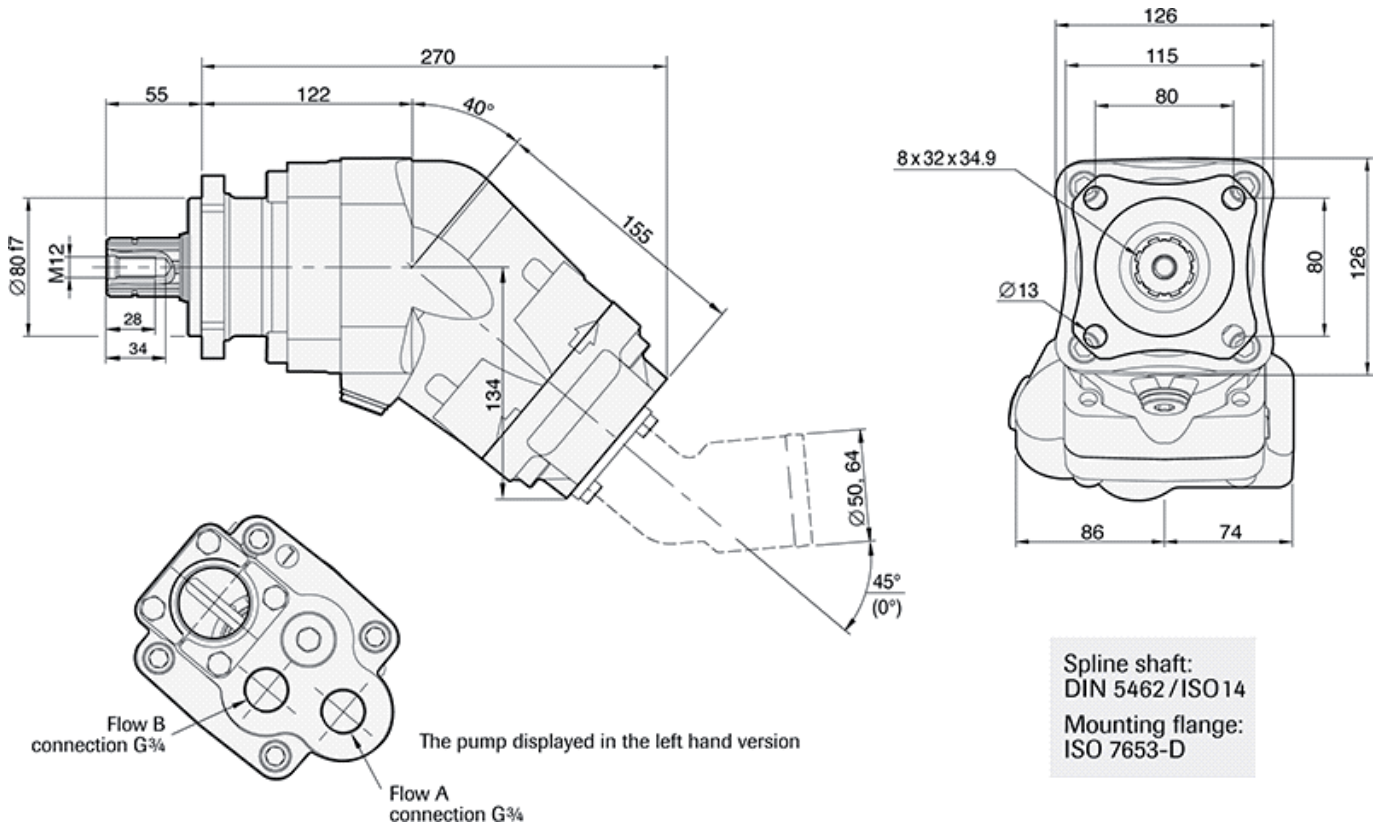
5. Mounting flange	
DL4	DIN 4-h (ISO 76530)

6. Shaft	
L35	DIN 5462/ISO14

X = Standard, preferred  
 (X) = Available, option  
 O = Contact our Tech Dpt.

**Pump SCPD 56/26 DIN**

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	rpm	1850		
Max working pressure	bar	400		
Weight	kg	18		
Tare-weight torque without valve	Nm	21		
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
	Direction of rotation	Left (L) or Right (R)		



## SCPD 56/26 DIN BY-PASS



**With two separate flows and a directly mounted By-Pass valve, the SCPD 56/26 By-Pass DIN is the most flexible compact fixed flow pump on the market.**

SCPD 56/26 DIN 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 engine-mounted 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. The pressure drop of the By-Pass valve is very low, so its function is energy efficient.

### **Other advantages:**

- The By-Pass valve can relieve the load from full operating pressure of 400 bar, which allows emergency stop function
- The valve's 24 V solenoids have integrated electrical cables which meet protection class ADR

**VERSIONS, MAIN DATA**

Example

SC	PD	-	56/26	L	-	V	-	DL4	-	L35	-	S0	S	-	2	00
Line	1		2	3		4		5		6		7	8		9	10

Line	
SC	Compact

7. Connection cover	
S0	Standard

1. Type	
PD	Dual flow pump

8. Connections	
S	Standard

2. Displacement	
	56/26

9. Additional	
2	Optimized

3. Direction of rotation	
L	Left
R	Right

10. Accessories	
00	No accessories available

4. Sealing	
V	HNBR

Double by-pass valve Art. no 20536 is ordered separately.

5. Mounting flange	
DL4	DIN 4-h (ISO 76530)

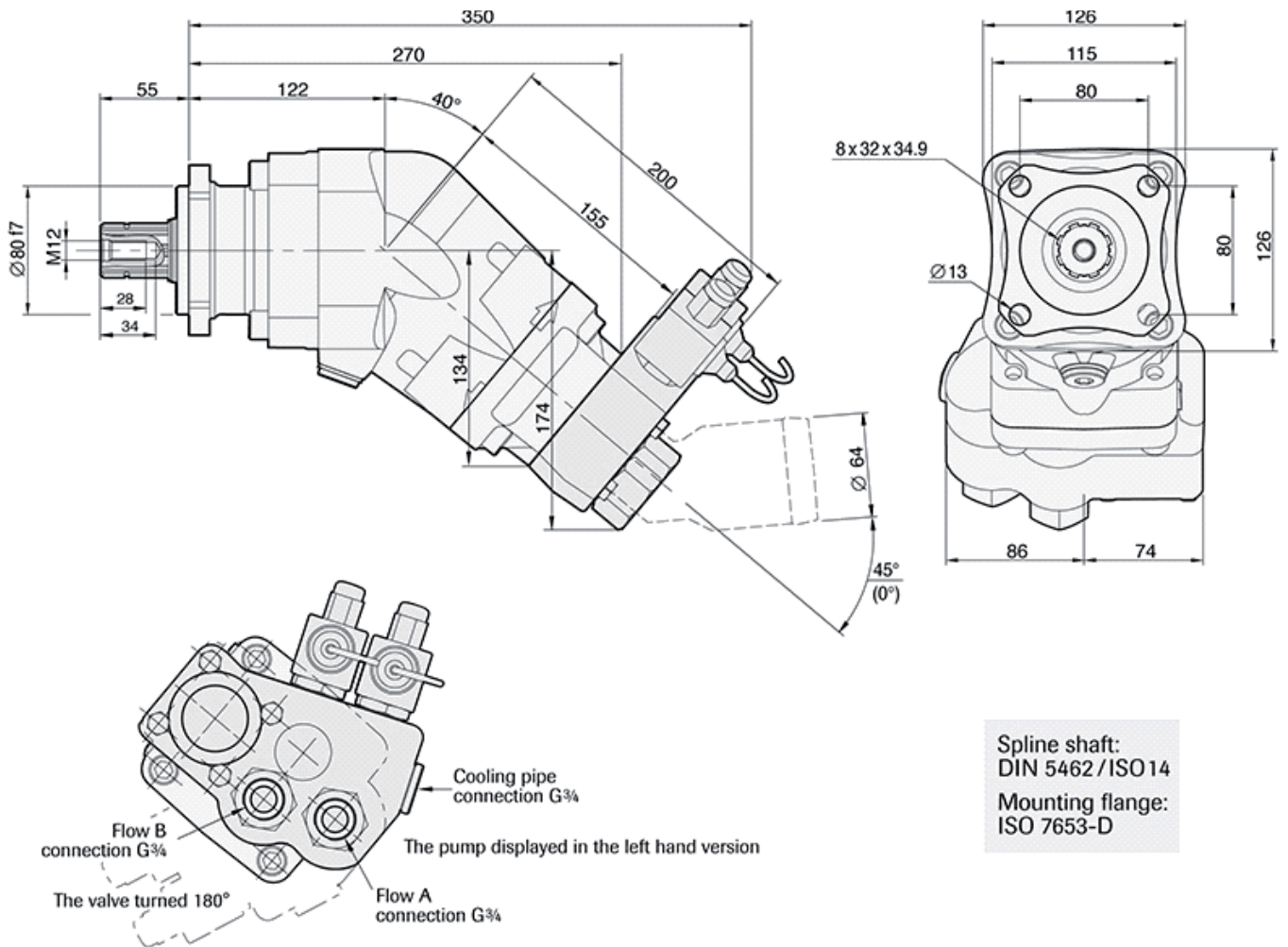
6. Shaft	
L35	DIN 5462/ISO14

X = Standard, preferred  
(X) = Available, option  
O = Contact our Tech Dpt.



**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 working pressure	bar	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	
Direction of rotation	Left (L) or Right (R)			



## SLPD 20/20-64/32 DIN



**SLPD 20/20-64/32 DIN is a series of in-line dual flow pumps with extremely low noise levels for demanding mobile hydraulics.**

SLPD 20/20-64/32 DIN comes in eight different sizes, where three models feature differentiated flows. Pumps with differentiated flow increase the field of application as they can provide three different flows: one small, one large and one combined flow. Maximum pressure is 330-350 bar depending on the model. Its slim pump housing makes direct mounting on the power take-off possible in very confined areas.

SLPD 20/20-64/32 DIN is also ideal for installation using a frame bracket via an intermediate shaft.

It is available in a version with a Savtec valve for applications where the hydraulics need to be used while the vehicle is on the move.

### **Other advantages:**

- Independent direction of rotation
- A cost effective total solution in relation to a conventional installation using two pumps with a splitter gear box
- Smooth operation over the entire speed range
- 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

**VERSIONS, MAIN DATA**

Example

SL	PD	-	46/46	W	-	N	-	DL4	-	L35	-	S4	S
Line	1		2	3		4		5		6		7	8

Line

SL	In-Line
----	---------

1. Type

PD	Dual flow pump
----	----------------

2. Displacement

20/20 28/28 40/20 35/35 56/28 46/46 53/53 64/32
---

3. Direction of rotation

W	Independent
---	-------------

4. Sealing

N	Nitrile
---	---------

5. Mounting flange

DL4	DIN 4-h (ISO 7653D)
-----	---------------------

6. Shaft

L35	DIN 5462 / ISO 14
-----	-------------------

7. Connection cover

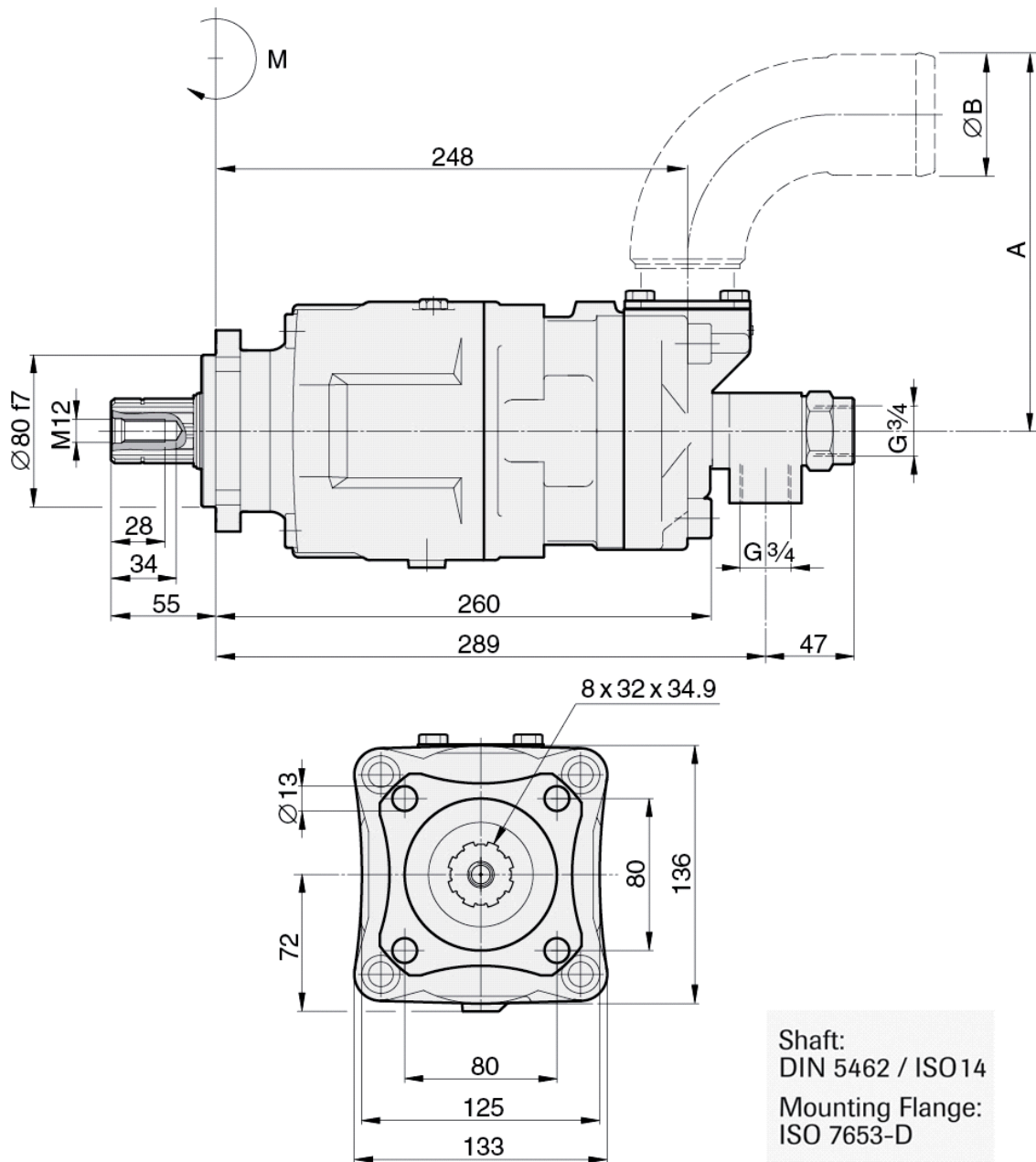
S4	Standard SLPD
----	---------------

8. Connections

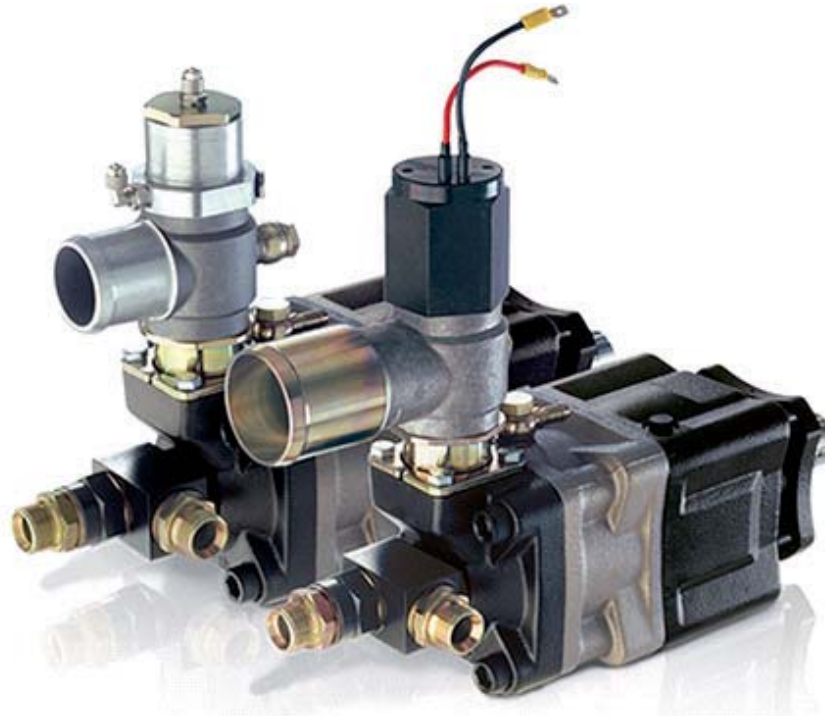
S	Standard
---	----------

X = Standard, preferred  
(X) = Available, option  
O = Contact our Tech Dpt.

Pump SLPD 20/20-64/32 DIN			20/20	28/28	40/20	35/35	56/28	46/46	53/53	64/32
Theoretical oil flow at pump speed	rpm	500	10.1 +10.1	13.7 +13.7	20.3 +10.1	16.9 +16.9	27.4 +13.7	22.9 +22.9	26.2 +26.2	31.5 +15.7
		1000	20.3 +20.3	27.5 +27.5	40.7 +20.3	33.9 +33.9	54.9 +27.5	45.8 +45.8	52.5 +52.5	63 + 31.5
		1500	30.4 +30.4	41.3 +41.3	61.0 +30.4	50.8 +50.8	82.3 +41.2	68.7 +68.7	78.7 +78.7	94.5 +47.2
Displacement	cm <sup>3</sup> /rev		20.3 +20.3	27.5 + 27.5	40.7 + 20.3	33.9 + 33.9	54.9 + 27.5	45.8 + 45.8	52.5 + 52.5	63.0 + 31.5
Max pump speed	rpm		2200	1800	2200	2200	1800	1800	1600	1600
Max working pressure	bar		350	350	350	330	350	330	330	350
Weight	kg		22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Dimensions	mm	A	133	133	133	133	166	166	166	166
		B	50	50	50	50	64	64	64	64
Tare-weight torque (M)	Nm		26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
Direction of rotation	Independent									



## SLPD 20/20-64/32 DIN SAVTEC



**SLPD 20/20-64/32 DIN Savtec is equipped with a SAVTEC shut-off valve. Using a Savtec valve makes it possible to control the SLPD pump so it only feeds oil when required.**

SLPD 20/20-64/32 DIN Savtec's valve is available for electrical 24 V or pneumatic remote control. The signal is obtained from a panel switch or automatically from, e.g. the parking brake, pressure sensor or diode gate. With a closed Savtec valve it generates neither flow nor pressure, and in doing so does not load the power take-off. This has a positive effect on fuel economy. SLPD 20/20-64/32 DIN Savtec features extra lubrication ducts on the bearings for lubrication even when the pump is run with the Savtec-valve closed.

The pump comes in eight different sizes, where three models feature differentiated flows. Pumps with differentiated flow increase the field of application as they can provide three different flows: one small, one large and one combined flow. Max pressure is 330-350 bar depending on the model.

### **Other advantages:**

- Independent direction of rotation
- A cost effective total solution in relation to a conventional installation using two pumps in a splitter gear box
- Extremely low noise level
- Smooth operation over the entire speed range
- 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 Savtec valve can also be used as an emergency stop

## VERSIONS, MAIN DATA

Example

SL	PD	-	46/46	W	-	V	-	DL4	-	L35	-	S4	S	-	4
Line	1		2	3		4		5		6		7	8		9

Line	
SL	In-Line

1. Type	
PD	Dual flow pump

2. Displacement	
20/20 28/28 40/20 35/35 56/28 46/46 53/53 64/32	

3. Direction of rotation	
W	Independent

4. Sealing	
V	HNBR

5. Mounting flange	
DL4	DIN 4-h (ISO 7653D)

6. Shaft	
L35	DIN 5462 / ISO 14

7. Connection cover	
S4	Standard SLPD

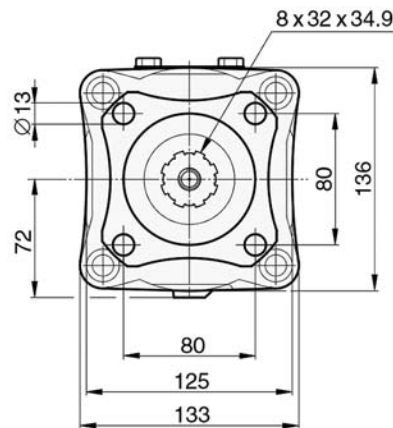
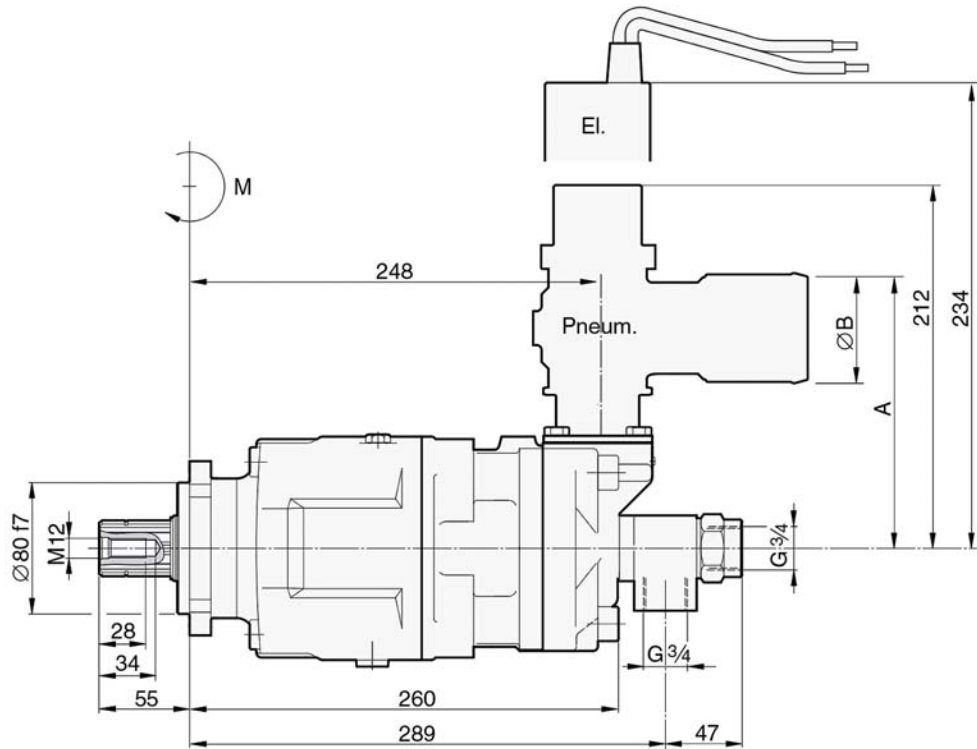
8. Connections	
S	Standard

9. Additional	
4	Savtec

Savtec valve is ordered separately.  
Indicate when ordering  
- Electric or Pneumatic  
- Suction connection 50 or 64 mm.

**Pump SLPD 20/20-64/32 DIN SAVTEC**

		20/20	28/28	40/20	35/35	56/28	46/46	53/53	64/32	
Theoretical oil flow at pump speed	rpm	500	10.1 + 10.1	13.7 + 13.7	20.3 + 10.1	16.9 + 16.9	27.4 + 13.7	22.9 + 22.9	26.2 + 26.2	31.5 + 15.7
		1000	20.3 + 20.3	27.5 + 27.5	40.7 + 20.3	33.9 + 33.9	54.9 + 27.5	45.8 + 45.8	52.5 + 52.5	63 + 31.5
		1500	30.4 + 30.4	41.3 + 41.3	61.0 + 30.4	50.8 + 50.8	82.3 + 41.2	68.7 + 68.7	78.7 + 78.7	94.5 + 47.2
Displacement	cm <sup>3</sup> /rev	20.3 + 20.3	27.5 + 27.5	40.7 + 20.3	33.9 + 33.9	54.9 + 27.5	45.8 + 45.8	52.5 + 52.5	63.0 + 31.5	
Max pump speed	rpm	2200	1800	2200	2200	1800	1800	1600	1600	
Max speed, idling	rpm	3000	2500	3000	3000	2500	2500	2500	2500	
Max working pressure	bar	350	350	350	330	350	330	330	350	
Weight	kg	24.5/23.5	24.5/23.5	24.5/23.5	24.5/23.5	24.5/23.5	24.5/23.5	24.5/23.5	24.5/23.5	
Dimensions	mm	A	133	133	133	133	166	166	166	
Min. dimensions	mm	B	50	50	50	50	64	64	64	
Tare-weight torque	(M) Nm	32.5/29.5	32.5/29.5	32.5/29.5	32.5/29.5	32.5/29.5	32.5/29.5	32.5/29.5	32.5/29.5	
Direction of rotation	Independent									



Shaft:  
DIN 5462 / ISO 14  
Mounting Flange:  
ISO 7653-D

## SLPD 40/20-64/32 SAE



**SLPD 40/20-64/32 SAE is a series of in-line double pumps with extremely low noise levels for demanding mobile hydraulics.**

SLPD 40/20-64/32 SAE pumps are equipped with shafts and flanges according to the SAE-C standard. They are available in five different sizes. Its slim pump housing enables direct installation on the power take-off in very confined spaces. SLPD is also easy to install with frame mountings via an intermediate shaft. The high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.

### **Other advantages:**

- Independent direction of rotation
- A cost effective total solution in relation to a conventional installation using two pumps with a splitter gear box
- Smooth operation over the entire speed range
- 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



**VERSIONS, MAIN DATA**

Example

SL	PD	-	46/46	W	-	N	-	SC4	-	C14	-	S4	S	-	0
Line	1		2	3		4		5		6		7	8		9

Line	SL	In-Line
------	----	---------

1. Type	PD	Dual flow pump
---------	----	----------------

2. Displacement	40/20	35/35	56/28	46/46	53/53	64/32
-----------------	-------	-------	-------	-------	-------	-------

3. Direction of rotation	W	Independent
--------------------------	---	-------------

4. Sealing	N	Nitrile
------------	---	---------

5. Mounting flange	SC4	SAE C4
--------------------	-----	--------

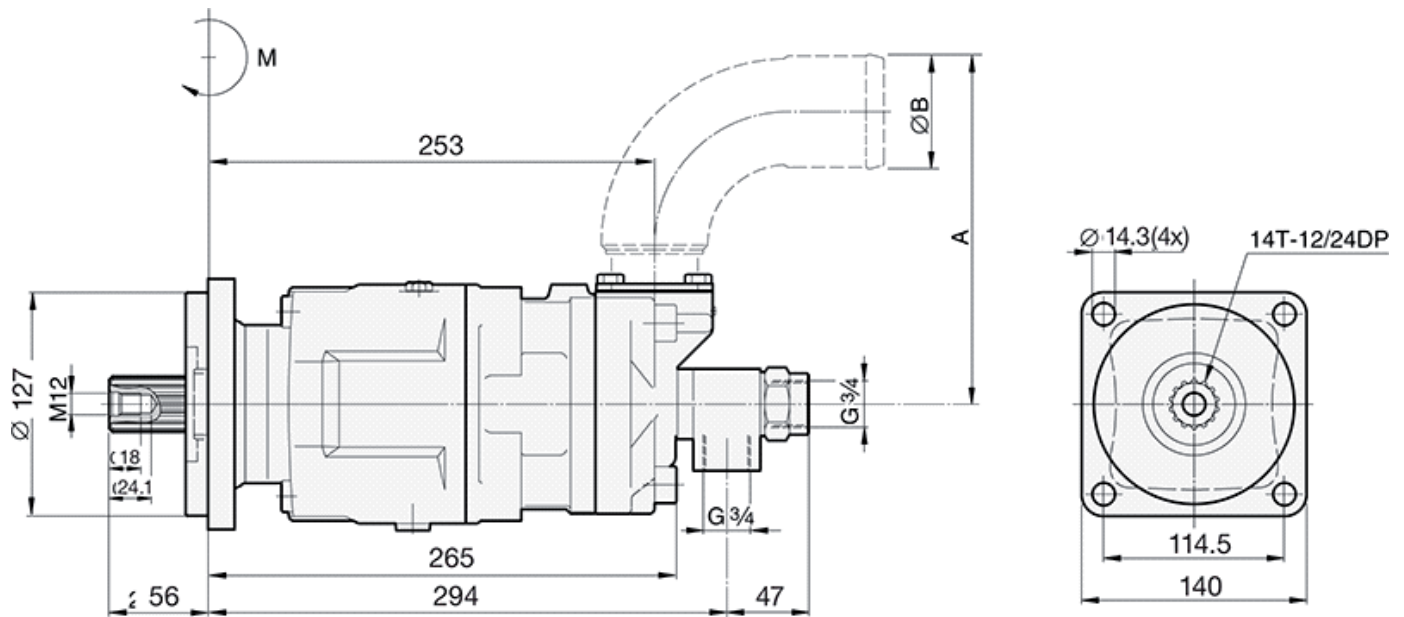
6. Shaft	C14	SAE C 14t-12/24DP
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7. Connection cover	S4	Standard SLPD
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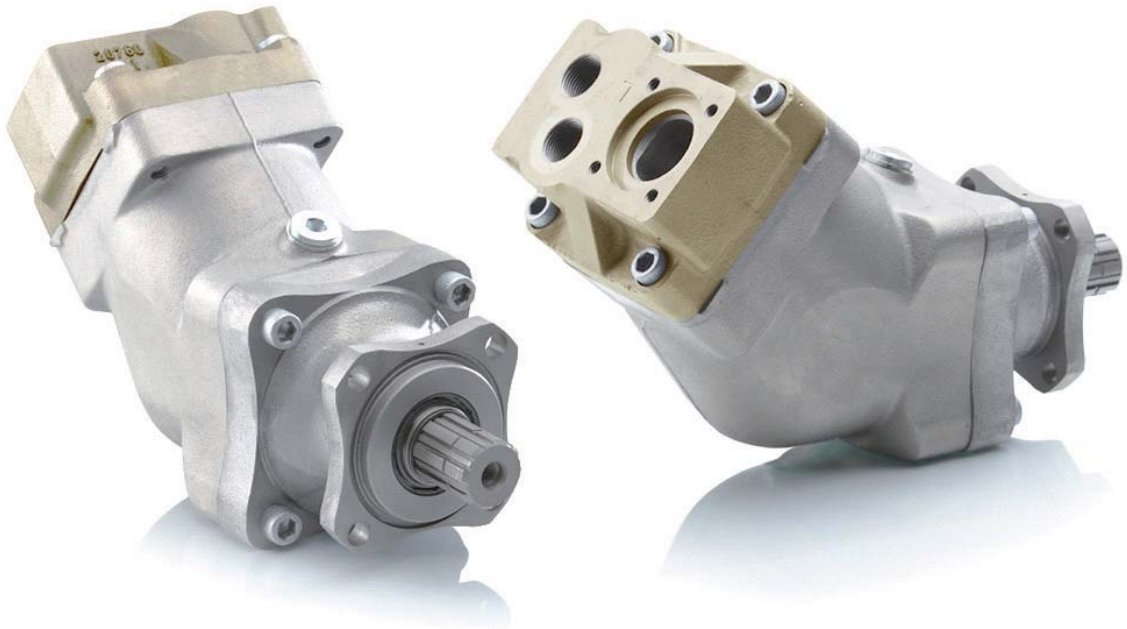
8. Connections	S	Standard
----------------	---	----------

9. Additional Connections	0	-
---------------------------	---	---

Pump SLPD 40/20-64/32 SAE			40/20	35/35	56/28	46/46	53/53	64/32
Theoretical oil flow at pump speed	rpm	500	20.3 + 10.1	16.9 + 16.9	27.4 + 13.7	22.9 + 22.9	26.2 + 26.2	31.5 + 15.7
		1000	40.7 + 20.3	33.9 + 33.9	54.9 + 27.5	45.8 + 45.8	52.5 + 52.5	63.0 + 31.5
		1500	61.0 + 30.4	50.8 + 50.8	82.3 + 41.2	68.7 + 68.7	78.7 + 78.7	94.5 + 47.2
Displacement	cm <sup>3</sup> /rev		40.7 + 20.3	33.9 + 33.9	54.9 + 27.5	45.8 + 45.8	52.5 + 52.5	63.0 + 31.5
Max pump speed	rpm		2200	2200	1800	1800	1600	1600
Max working pressure	bar		350	330	350	330	330	350
Weight	kg		22	22	22	22	22	22
Dimensions	mm	A	133	133	166	166	166	166
Min. dimensions		B	50	50	64	64	64	64
Tare-weight torque (M)	Nm		26.5	26.5	26.5	26.5	26.5	26.5
Direction of rotation			Independent					



## SCPD 76/76 DIN



**SCPD 76/76 DIN is a dual flow pump with two separate flows of equal sizes.**

SCPD 76/76 DIN gives a maximum flow of  $127 + 127 = 254$  lit/min and supports a maximum working pressure of 350 bar. It can effectively be directly mounted on gear boxes equipped with engageable and disengageable power take-offs.

SCPD 76/76 is a modern, compact pump, which meets the market's high demands on flow performance, pressure, efficiency and small installation dimensions.

It is speed optimized and therefore supplied for either left (L) or right (R) rotation direction.

### Other advantages:

- Large displacement gives the possibility of low engine speeds and low noise levels.
- 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 takeoff.
- Highest displacement-to-size-ratio on the market.

**VERSIONS, MAIN DATA**

Example

SC	PD	-	76/76	L	-	N	-	DL4	-	L35	-	S0	S	-	2	00
Line	1		2	3		4		5		6		7	8		9	10

Line

SC	Compact
----	---------

7. Connection cover

S0	Standard
----	----------

1. Type

PD	Dual flow pump
----	----------------

8. Connections

S	Standard
---	----------

2. Displacement

	76/76
--	-------

9. Additional

2	Optimized
---	-----------

3. Direction of rotation

L	Left
R	Right

10. Accessories

00	No accessories available
----	--------------------------

4. Sealing

N	Nitrile
---	---------

5. Mounting flange

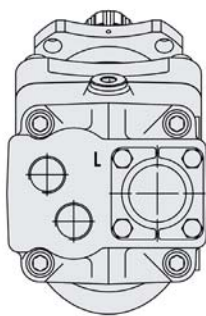
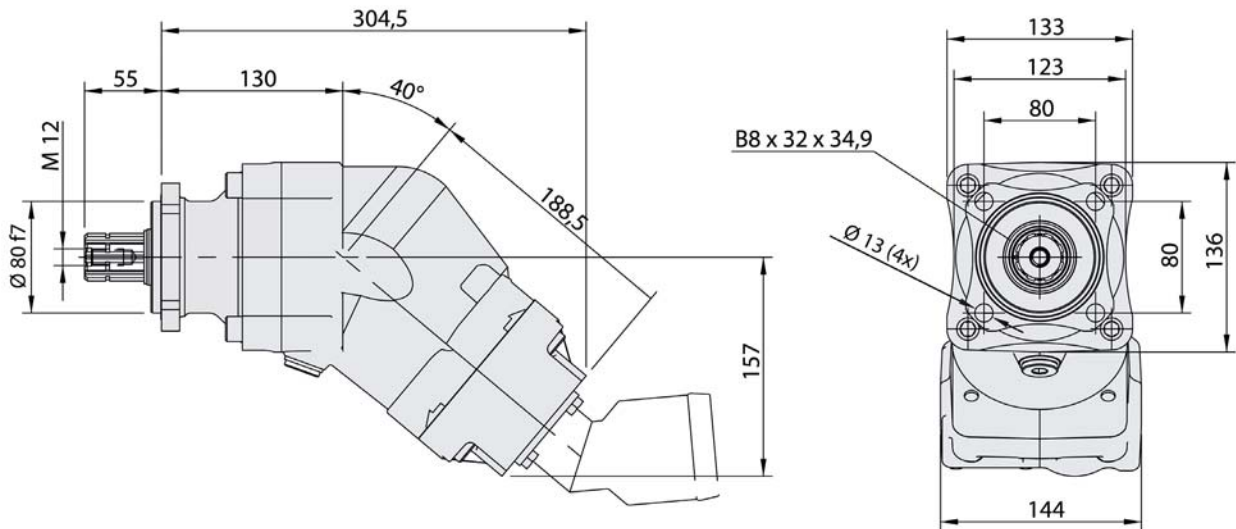
DL4	DIN 4-h (ISO 7653-D)
-----	----------------------

6. Shaft

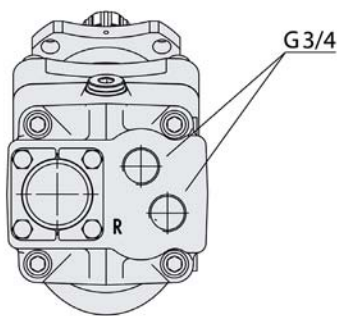
L35	DIN 5462/ISO 14
-----	-----------------

**SCPD 76/76 DIN**

Theoretical oil flow at pump speed	rpm	500	l/min		
		1000	37.5 + 37.5 = 75		
		1500	75.0 + 75.0 = 150		
Displacement	cm <sup>3</sup> /rev	75 + 75			
Max pump speed continuous	rpm	1500			
		1700			
Max working pressure	bar	350			
Weight	kg	23.2			
Tare-weight torque without valve	Nm	34.5			
Theoretical power at pressure and pump speed	rpm	500	200 Bar	250 Bar	350 Bar
		1000	12.5 + 12.5 = 25.0 kW	15.6 + 15.6 = 31.2 kW	21.9 + 21.9 = 43.8 kW
		1500	25.0 + 25.0 = 50.0 kW	31.3 + 31.3 = 62.6 kW	43.8 + 43.8 = 87.6 kW
Nominal torque on pump shaft at different pressures	rpm	500	200 Bar	250 Bar	350 Bar
		1000	37.5 + 37.5 = 75 kW	46.9 + 46.9 = 93.8 kW	65.6 + 65.6 = 131.2 kW
		1500	239 + 239 = 478 Nm	298 + 298 = 596 Nm	418 + 418 = 836 Nm
Direction of rotation	Left (L) or Right (R)				



Left hand rotation



Right hand rotation

Spline shaft:  
DIN 5462 / ISO 14  
Mounting flange:  
ISO 7653-D





As HANSA-TMP has a very extensive range of products and some products have a variety of applications, the information supplied may often only apply to specific situations.

If the catalogue does not supply all the information required, please contact HANSA-TMP.

In order to provide a comprehensive reply to queries we may require specific data regarding the proposed application.

Whilst every reasonable endeavour has been made to ensure accuracy, this publication cannot be considered to represent part of any contract, whether expressed or implied.

The data in this catalogue refer to the standard product. The policy of HANSA-TMP consists of a continuous improvement of its products. It reserves the right to change the specifications of the different products whenever necessary and without giving prior information.



**HYDRAULIC COMPONENTS**  
**HYDROSTATIC TRANSMISSIONS**  
**GEARBOXES - ACCESSORIES**

Via M. L. King, 6 - **41122 MODENA (ITALY)**  
Tel: +39 059 415 711  
Fax: +39 059 415 729 / 059 415 730  
INTERNET: <http://www.hansatmp.it>  
E-MAIL: [hansatmp@hansatmp.it](mailto:hansatmp@hansatmp.it)