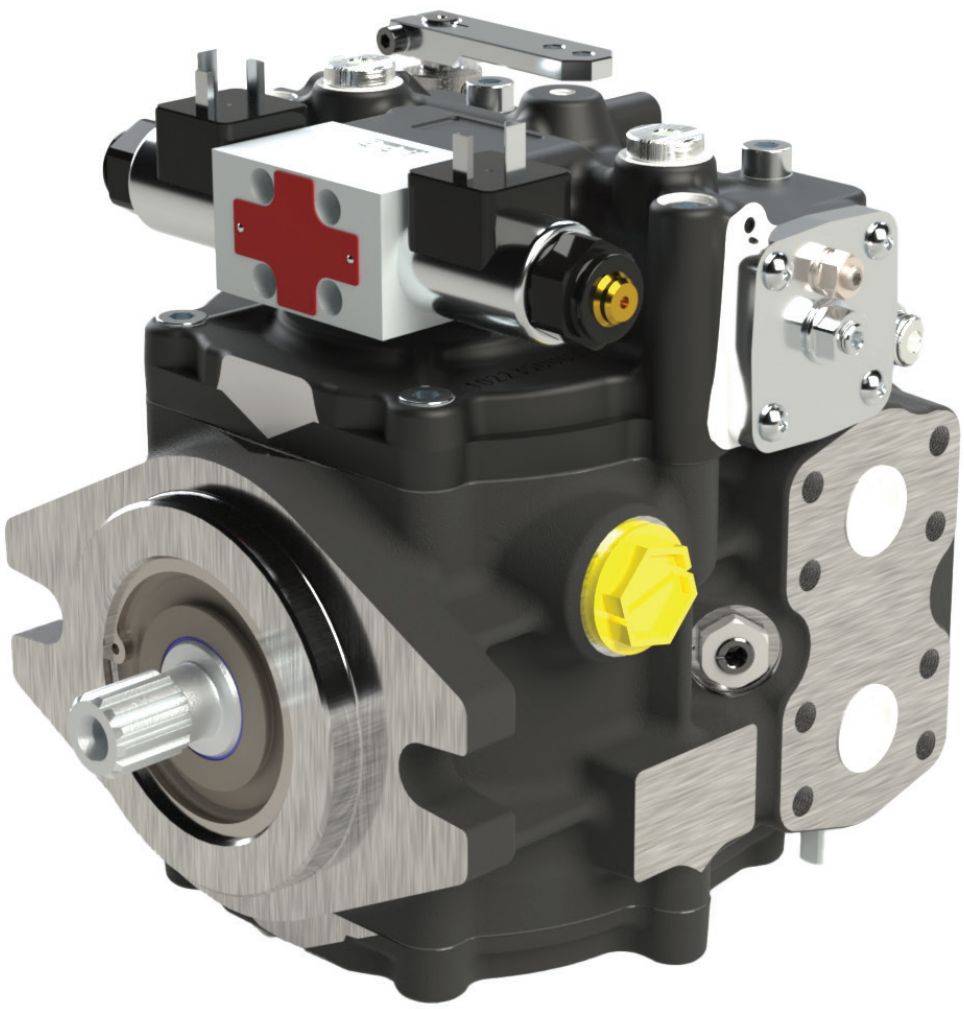
HANSA-TMP
MANUFACTURING YOUR SUCCESS

TPV 3800

NEW PRODUCT

The new **3800** pump is designed to withstand the most demanding conditions. With enhanced capabilities, it delivers high performance, increased pressure, and speed, ensuring optimal results even in the most challenging heavy-duty applications.



Applications:

- Construction Machinery
- Mining Equipment
- Off-Highway VehiclesUtility Vehicles
- Forestry Equipment
- Aviation Ground Support

ORDER CODE TPV 3800

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Model code single pump	TPV	3800	40	CR	SS3	F2	SE-CA1	OA	45	10	B1	000	2	FLT	N	AM-STD-P	18
Model code double pump	TPV1 TPV2		40|40				SE-CA1| SE-CA1	OA|OA	45|45				FLT|FLT			

0. Pump model

TPV = Single closed loop circuit pump

TPV-T1 = Double closed loop circuit pump with single boost pump (on secondary pump)

TPV-T2 = Double closed loop circuit pump with double boost pump

1. Pump series

38000 = TPV 3800

2. Displacement

26 = 26 cm3/n	28 = 28 cm3/n	30 = 30 cm3/n
32 = 32 cm3/n	34 = 34 cm3/n	36 = 36 cm3/n
38 = 38 cm3/n	40 = 40 cm3/n	43 = 43 cm3/n

3. Rotation

CR = Clockwise rotation (right)

CC = Counter-clockwise rotation (left)

4. Shaft (mounting side)

SS3 = Splined shaft SAE-B (ANSI B92.1A - 13T - 16/32 D.P.)

SS5 = Splined shaft SAE-B (ANSI B92.1A - 15T - 16/32 D.P.)

5. Mounting flange

F2 = SAE-B 2 bolt - pilot diam. 101,6 mm

6. Controls

SE-CA1 = Open center ON-OFF solenoid valve servo control 12V DC (AMP junior timer connector)

SE-CA1D = Open center ON-OFF solenoid valve servo control 12V DC (Deutsch connector)

SE-CA1EN = Open center ON-OFF solenoid valve servo control 12V DC (EN 175301 connector)

SE-CA2 = Open center ON-OFF solenoid valve servo control 24V DC (AMP junior timer connector)

SE-CA2D = Open center ON-OFF solenoid valve servo control 24V DC (Deutsch connector)

SE-CA2EN = Open center ON-OFF solenoid valve servo control 24V DC (EN 175301 connector)

Select in case of AUTOMOTIVE control pump

SE-CC1 = Closed center ON-OFF solenoid valve servo control 12V DC (AMP junior timer connector)

SE-CC1D = Closed center ON-OFF solenoid valve servo control 12V DC (Deutsch connector)

SE-CC1EN = Closed center ON-OFF solenoid valve servo control 12V DC (EN 175301 connector)

SE-CC2 = Closed center ON-OFF solenoid valve servo control 24V DC (AMP junior timer connector)

SE-CC2D = Closed center ON-OFF solenoid valve servo control 24V DC (Deutsch connector)

SE-CC2EN = Closed center ON-OFF solenoid valve servo control 24V DC (EN175301 connector)

SHI = Hydraulic servo control

SEI1.3 = Electro-proportional servo control 12V DC (AMP junior timer connector)

SEI2.3 = Electro-proportional servo control 24V DC (AMP junior timer connector)

SEI1.3D = Electro-proportional servo control 12V DC (Deutsch connector)

SEI2.3D = Electro-proportional servo control 24V DC (Deutsch connector)

SHIX = Hydraulic servo control with feed back

SMIX = Mechanical lever servo control with feed back

SMIX-NP = Mechanical lever servo control with feed back with neutral position

SEIX1.3 = Electro-proportional servo control with feed back 12V DC (AMP junior timer connector)

SEIX2.3 = Electro-proportional servo control with feed back 24V DC (AMP junior timer connector)

SEIX1.3D = Electro-proportional servo control with feed back 12V DC (Deutsch connector

SEIX2.3D = Electro-proportional servo control with feed back 24V DC (Deutsch connector)

7. Control devices position

OA = Upper position (Default for SHI - SEI - DM controls pump)

LA = Left lever upper position (only for LC - DMZ controls pump)

RA = Right lever upper position (only for LC - DMZ controls pump)

8. Relief valve pressure setting

20= 20 Mpa	25= 25 Mpa	28= 28 Mpa	45 = 45 Mpa
30= 30 Mpa	35= 35 Mpa	40 = 40 Mpa	

9. Boost pump

0 = Without boost pump (specify maximum external charge flow)

10 = Standard pump (10,3 cm^3/n) standard setting 2 Mpa at 1.000 n/min

10(XX) = Standard pump (10,3 cm^3/n) other pressure setting (between 2 and 3 Mpa at 1.000 n/min, please contact our Technical Department)

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10. Through drive connection for rear pump

C = Closed cover

B1 = for German standard pump group 1 mounting

SA9 = for SAE A 2 bolt mounting flange (T9 16/32” Dp female shaft)

SA11 = for SAE A 2 bolt mounting flange (T11 16/32” Dp female shaft)

SB13 = for SAE B 2 bolt mounting flange (T13 16/32” Dp female shaft)

11. Gear pump displacement

Group 1 (only B1)				
109 = 0,9 cm³/n	112 = 1,2 cm³/n	117 = 1,7 cm³/n	122 = 2,2 cm³/n	126 = 2,6 cm³/n
132 = 3,1 cm³/n	138 = 3,6 cm³/n	143 = 4,2 cm³/n	149 = 4,9 cm³/n	159 = 5,9 cm³/n
165 = 6,5 cm³/n	178 = 7,5 cm³/n	198 = 9,8 cm³/n		

Group 2 (only SAE A - SA9)			
204 = 4,2 cm³/n	206 = 6,0 cm³/n	209 = 8,4 cm³/n	211= 11 cm³/n
214 = 14,4 cm³/n	217 = 16,8 cm³/n	219 = 19,2 cm³/n	222 = 22,8 cm³/n
226 = 26,2 cm³/n	230 = 30,0 cm³/n	240 = 40,0 cm³/n	
211+206 = 11,00 cm³/n + 6,00 cm³		214+206 = 14,00 cm³/n + 6,00 cm³	

Double gear pumps

Group 3 (only SAE B - SB13)				
315 = 15,0 cm³/n	318 = 18,0 cm³/n	321 = 21,0 cm³/n	327 = 27,0 cm³/n	332 = 32,0 cm³/n
338 = 38,0 cm³/n	343 = 43,0 cm³/n	347 = 47,0 cm³/n	351 = 51,0 cm³/n	354 = 54,0 cm³/n
361 = 61,0 cm³/n	364 = 64,0 cm³/n	370 = 70,0 cm³/n	374 = 74,0 cm³/n	390 = 90,0 cm³/n

12. Voltage for MOB optional

0 = Without

1 = 12V Dc

2 = 24V Dc

13. Optional

0 = Without optional

SB = Screw By-Pass (Default)

VS = Purge valve

FLT = Filter without clogging indicator

FLTI = Filter with clogging indicator

FR = Pre-arranged for remote filter

MOB = Man on board

RS = Angle sensor

REV.S = RPM Senor

PRS = Pressure sensor

CO (--) = Pressure cut off (Pressure stetting) - please contact our Technical Department

XX = Restrictor diameter: 05=0,5; 06=0,6; 07=0,7; 08=0,8; 10=1,0; 12=1,2

14. Port threads

G = GAS (BSPP)

M = Metric

N = SAE (STD)

U = UNF

15. Automotive

0 = Without automotive

AM-IDR-P = Automotive with Hydraulic inching for primary pump

AM-MEC-P = Automotive with Mechanical inching for primary pump

AM-STD-P = Standard Automotive for primary pump

AM-IDR-S = Automotive with Hydraulic inching for secondary pump

AM-MEC-S = Automotive with Mechanical inching for secondary pump

AM-STD-S = Standard Automotive for secondary pump

16. Engine speed (RPM) for machine startup (Automotive Control)

10 = 1000 [rpm]	11 = 1100 [rpm]	12 = 1200 [rpm]	13 = 1300 [rpm]
14 = 1400 [rpm]	15 = 1500 [rpm]	16 = 1600 [rpm]	17 = 1700 [rpm]
18 = 1800 [rpm]	19 = 1900 [rpm]	20 = 2000 [rpm]	

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Technical data

TPV 3800 series										
Displacement	Cm^3/rev.	26	28	30	32	34	36	38	40	43
Flow rated at 3000 rpm	l/min	78	84	90	96	102	108	114	120	129
Power rating (at 3000 rpm and 30 MPa)	kW	62,4	67,2	72	76,8	81,6	86,4	91,2	96	103,2
Boost pump displacement	Cm^3/rev.	10,3								
Continuos working pressure	MPa	40								
Max pressure	MPa	42								
Max relief valve setting	MPa	45								
Boost pressur relief valve settings (at 1000 rpm)	MPa	2								
Suction pressure	MPa	>/=0.008								
Max housing pressure	MPa	0,2								
Minimum rotation speed	Rpm	500								
Maximum rotation speed	Rpm	3800								
Max fluid temperature	C°	80°								
Fluid viscosity	cSt	15-40								
Fluid contaminations		19/17/14 ISO 4406 (NAS 8)								
Mass (single pump with SHI basic version)	Kg	26,5								
Mass (double pump with SHI basic version)	Kg	55,2								

Hansa TMP – Your Partner in Hydraulics !

Since 1984, with headquarters and operations in the Hydraulic Valley of Modena-ITALY, we produce, design and distribute hydraulic components. We are specialized in the integration of complete hydraulic systems that involve the use of fluid technology in connection with electronics.

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