



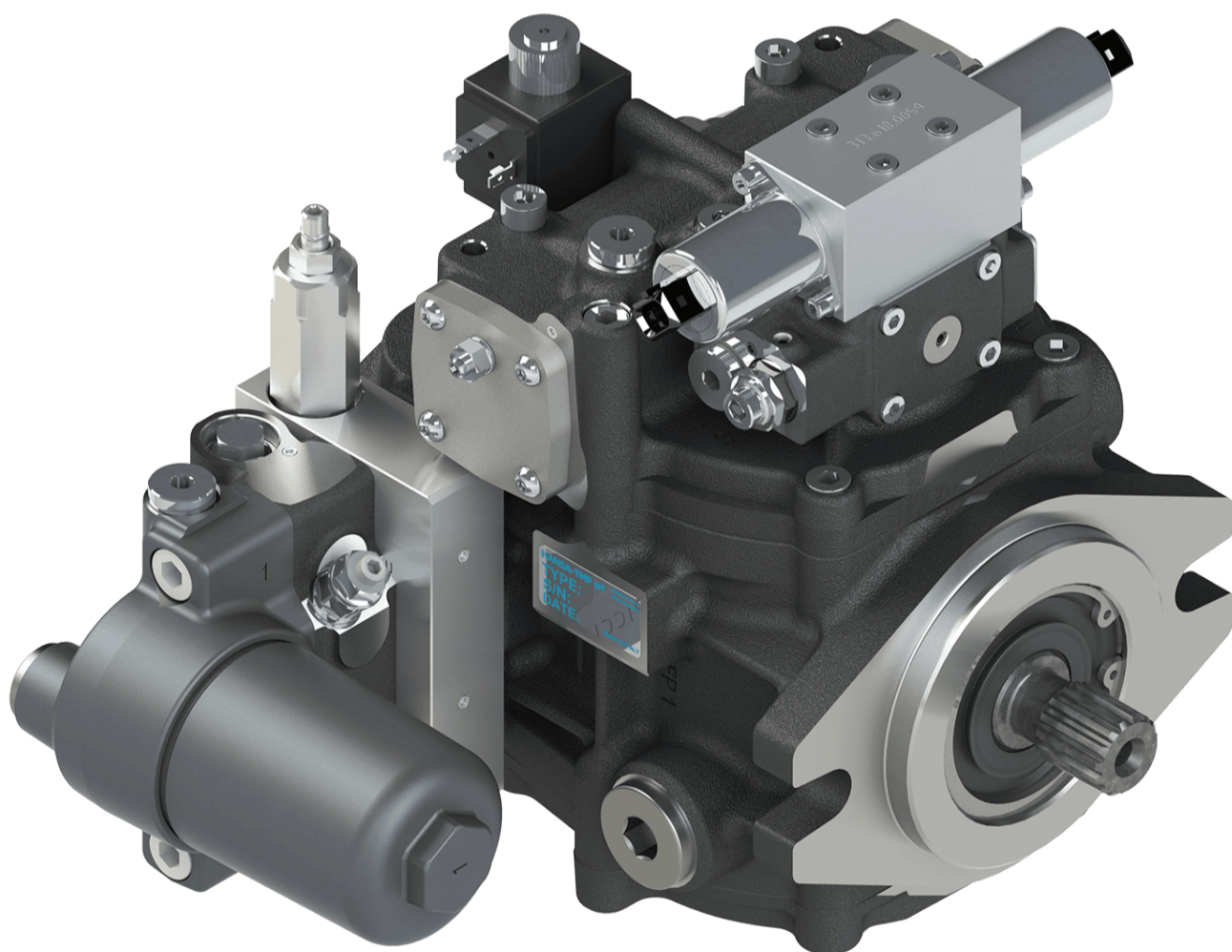
HANSA-TMP

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 Vehicles Utility Vehicles
- » Forestry Equipment
- » Aviation Ground Support

ORDER CODE TPV 3800

Model code single pump

Model code double pump

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TPV	3800	40	CR	SS3	F2	SE-CA1	OA	45	10	B1	000	G	FLT	N	AM-STD-P	18
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 cm ³ /n	28 = 28 cm ³ /n	30 = 30 cm ³ /n
32 = 32 cm ³ /n	34 = 34 cm ³ /n	36 = 36 cm ³ /n
38 = 38 cm ³ /n	40 = 40 cm ³ /n	43 = 43 cm ³ /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)

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)

Select in case of AUTOMOTIVE control pump

7. Control devices position

OA = Position A (Default)

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 cm³/n) standard setting 2 Mpa at 1.000 n/min
10(XX) = Standard pump (10,3 cm³/n) other pressure setting (between 2 and 3 Mpa at 1.000 n/min, please contact our Technical Department)

Model code single pump

Model code double pump

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TPV	3800	40	CR	SS3	F2	SE-CA1	OA	45	10	B1	000	G	FLT	N	AM-STD-P	18
TPV1		40 40				SE-CA1	SE-CA1	OA OA	45 45				FLT FLT			
TPV2																

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				
109 = 0,9 cm³/h	112 = 1,2 cm³/h	117 = 1,7 cm³/h	122 = 2,2 cm³/h	126 = 2,6 cm³/h
132 = 3,1 cm³/h	138 = 3,6 cm³/h	143 = 4,2 cm³/h	149 = 4,9 cm³/h	159 = 5,9 cm³/h
165 = 6,5 cm³/h	178 = 7,5 cm³/h	198 = 9,8 cm³/h		
Group 2 (only SAE A)				
204 = 4,2 cm³/h	206 = 6,0 cm³/h	209 = 8,4 cm³/h	211= 11 cm³/h	
214 = 14,4 cm³/h	217 = 16,8 cm³/h	219 = 19,2 cm³/h	222 = 22,8 cm³/h	
226 = 26,2 cm³/h	230 = 30,0 cm³/h	240 = 40,0 cm³/h		
211+206 = 11,00 cm³/h + 6,00 cm³		214+206 = 14,00 cm³/h + 6,00 cm³		
Group 3 (only SAE B)				
315 = 15,0 cm³/h	318 = 18,0 cm³/h	321 = 21,0 cm³/h	327 = 27,0 cm³/h	332 = 32,0 cm³/h
338 = 38,0 cm³/h	343 = 43,0 cm³/h	347 = 47,0 cm³/h	351 = 51,0 cm³/h	354 = 54,0 cm³/h
361 = 61,0 cm³/h	364 = 64,0 cm³/h	370 = 70,0 cm³/h	374 = 74,0 cm³/h	390 = 90,0 cm³/h

Double gear pumps

12. Voltage for MOB optional

- G = Without
- M = 12V Dc
- N = 24V Dc

13. Optional

- O = 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

- O = 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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