



HYDRAULIC COMPONENTS  
HYDROSTATIC TRANSMISSIONS  
GEARBOXES - ACCESSORIES

Certified Company ISO 9001 - 14001

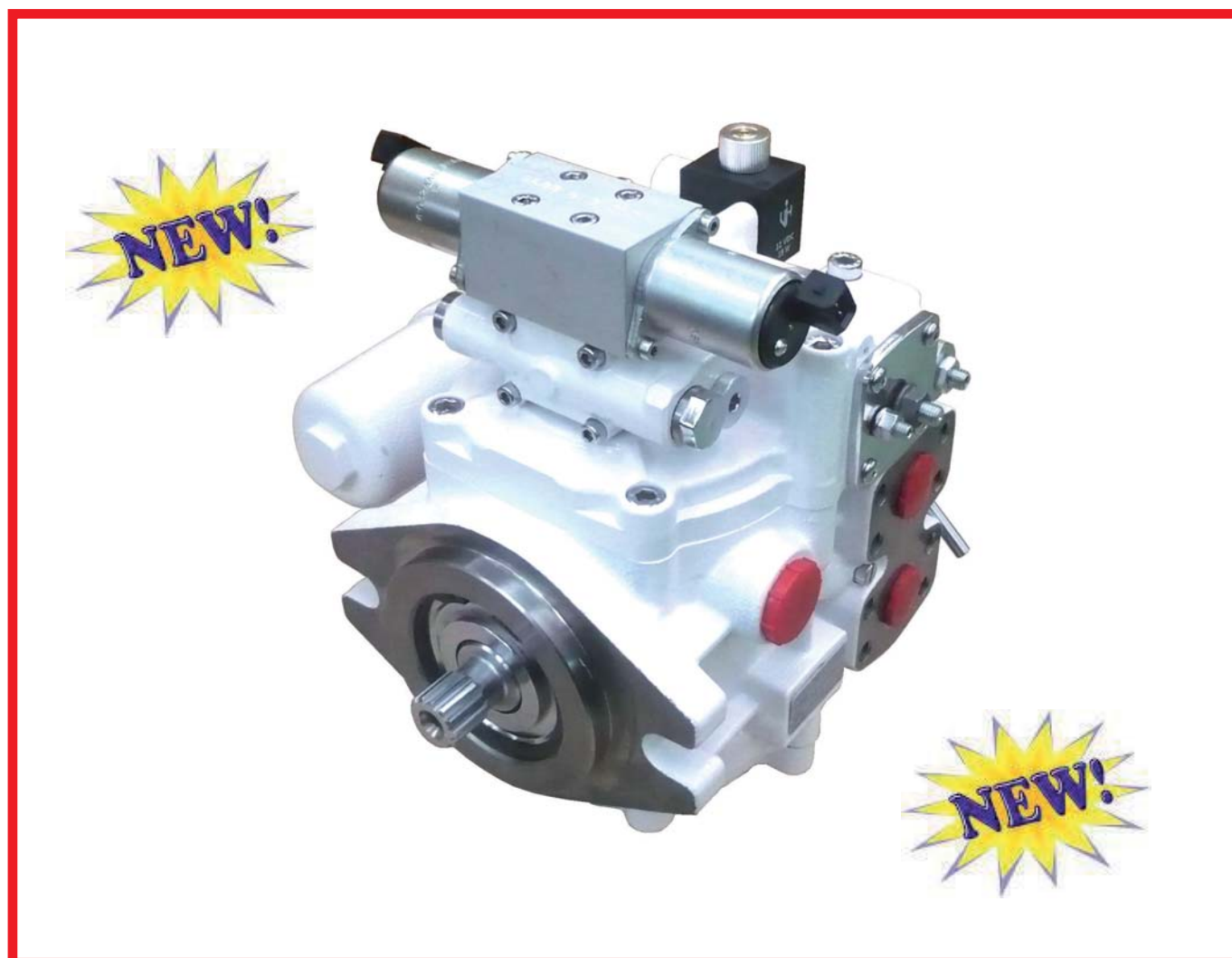


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HT 16 / M / 4001 / 0316 / E / V

THE PRODUCTION LINE OF HANSA-TMP

## Variable Displacement Closed Loop System Axial Piston Pump TPV 3600



**Preliminary Information**

The new TPV 3600 is a variable displacement axial piston pump for closed loop circuit. The pump is designed to meet the high demanding performances of the new machines: high efficiency, high pressure rate and high reliability.

The pump can be equipped with speed, angle and pressure sensors to integrate the hydrostatic transmission with the electronic control board of the machine and improve the efficiency and the performance of the system.

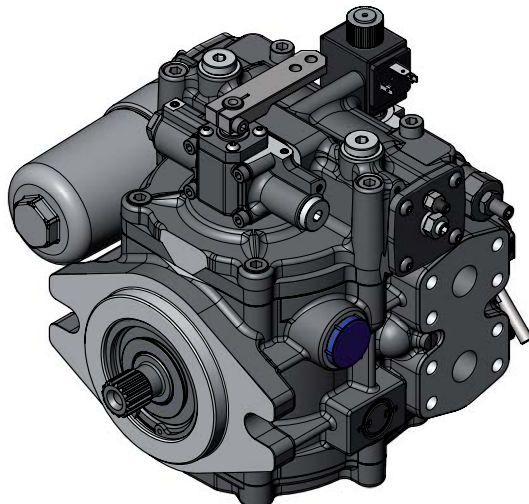
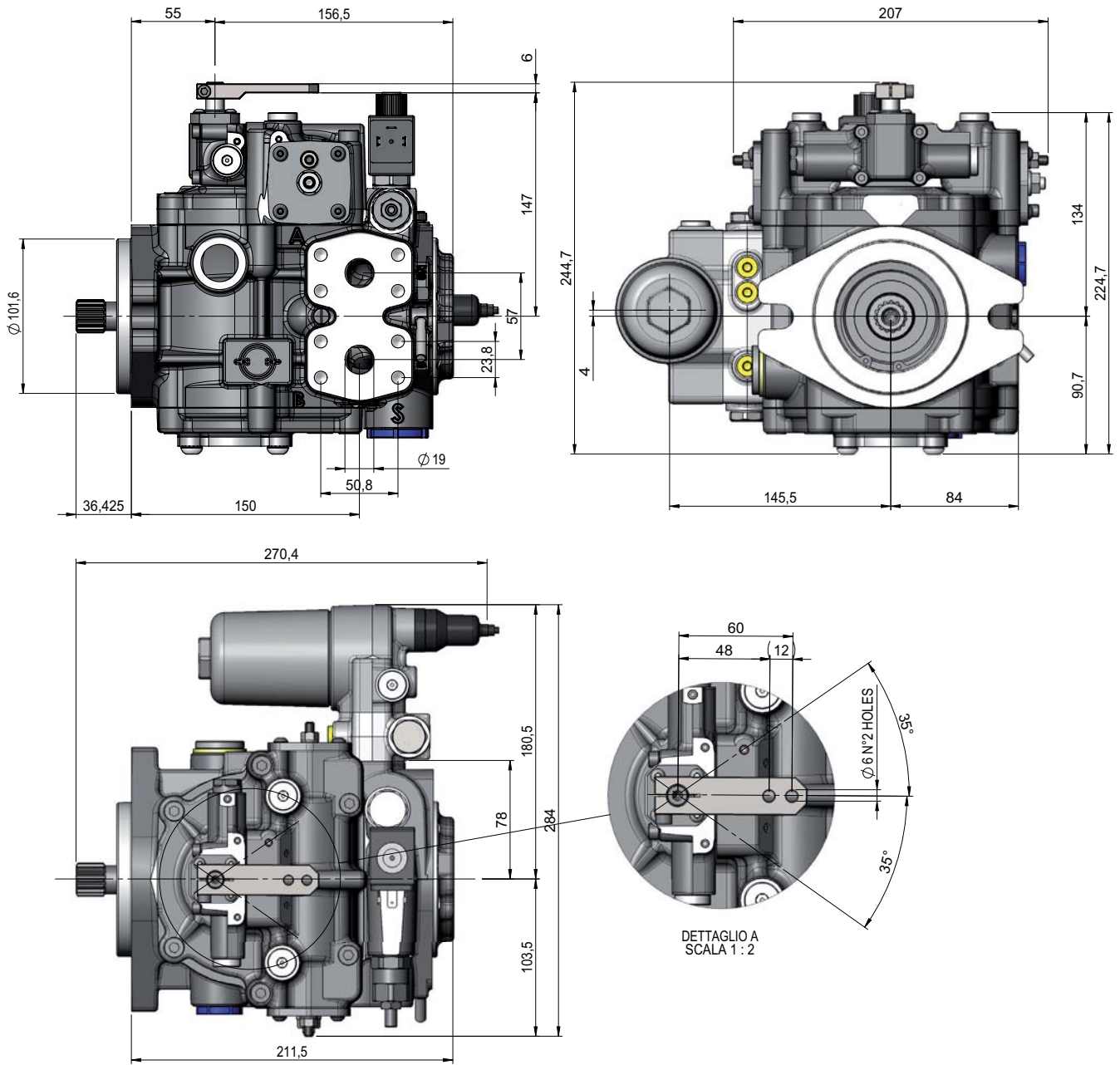
**Main features:**

- Displacement from 28 to 38 cc/rev.
- Pressure up to 450 bar
- Wide range of controls with mechanical feedback.
- SAE B standard mounting flange
- Built in pressure filter (optional)
- Built in flushing valve (optional)
- Built in by-pass valve (optional)
- Man on board safety valve
- 10.3 c.c./rev charge pump
- Full featured through drive options

**Typical applications:**

- Construction equipment
- Agricultural machines
- Utility vehicles
- Forestry machines
- Remote controlled vehicles

AXIAL PISTON PUMP TPV 3600			
<i>Technical Data (theoretical values)</i>			
Displacement	V	cc/rev.	28-38
Maximum speed	$n_{max-cont.}$	min <sup>-1</sup>	3,600
Continuous pressure	$P_{nom.}$	bar	350
Maximum pressure	$P_{max.}$	bar	450
Fluid contamination	19/17/14 according to ISO 4406		
Weight (SMIX version)	TPV	Kg	28
	TPVTC	Kg	51



Order Code

3600	TPV	38	CR	SS3	F2	SMIX	OA	20	10	C	0	SB
0	1	2	3	4	5	6	7	8	9	10	11	12

- 0 Pump series**
- 3600 = TPV 3600
- 1 Pump model**
- TPV - TPVT = Single/double closed loop circuit pump
- 2 Pump displacement**
- 26 28 30 31 32 34 36 38
- 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**
- 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
- 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 = Position A
- OB = Position B
- 8 Relief valve pressure setting**
- 10 = 10 Mpa 15 = 15 Mpa 18 = 18 Mpa 20 = 20 Mpa
- 25 = 25 Mpa 30 = 30 Mpa 35 = 35 Mpa 40 = 40 Mpa
- 9 Boost pump**
- 0 = Without boost pump
- 10 = Standard pump (10,3 cm<sup>3</sup>/n) standard setting 2 Mpa at 1.000 n/min
- 10(XX) = Other pressure setting on request (between 2 and 3 Mpa, please contact our Tech Dept.)
- 10 Through drive connection for rear pump**
- C = Closed cover
- B1 = For German standard pump group 1 mounting
- B2 = For German standard pump group 2 mounting
- SA = for SAE A 2 bolt mounting flange (T9 16/32" Dp female shaft)
- SB = for SAE B 2 bolt mounting flange (T13 16/32" Dp female shaft)
- 11 Gear pump displacement**
- 000 = without gear pump
- Group 1**
- 112 = 1,2 cm<sup>3</sup>/n 117 = 1,7 cm<sup>3</sup>/n 122 = 2,2 cm<sup>3</sup>/n 126 = 2,6 cm<sup>3</sup>/n
- 132 = 3,1 cm<sup>3</sup>/n 138 = 3,6 cm<sup>3</sup>/n 143 = 4,2 cm<sup>3</sup>/n 149 = 4,9 cm<sup>3</sup>/n
- 159 = 5,9 cm<sup>3</sup>/n 165 = 6,5 cm<sup>3</sup>/n 178 = 7,5 cm<sup>3</sup>/n
- Group 2**
- 204 = 4,2 cm<sup>3</sup>/n 206 = 6,0 cm<sup>3</sup>/n 209 = 8,4 cm<sup>3</sup>/n 211 = 10,8 cm<sup>3</sup>/n
- 214 = 14,4 cm<sup>3</sup>/n 217 = 16,8 cm<sup>3</sup>/n 219 = 19,2 cm<sup>3</sup>/n 222 = 22,8 cm<sup>3</sup>/n
- 226 = 26,2 cm<sup>3</sup>/n 230 = 30,0 cm<sup>3</sup>/n 240 = 40,0 cm<sup>3</sup>/n
- Group 3**
- 315 = 15,0 cm<sup>3</sup>/n 318 = 18,0 cm<sup>3</sup>/n 321 = 21,0 cm<sup>3</sup>/n 327 = 27,0 cm<sup>3</sup>/n
- 332 = 32,0 cm<sup>3</sup>/n 338 = 38,0 cm<sup>3</sup>/n 343 = 43,0 cm<sup>3</sup>/n 347 = 47,0 cm<sup>3</sup>/n
- 351 = 51,0 cm<sup>3</sup>/n 354 = 54,0 cm<sup>3</sup>/n 361 = 61,0 cm<sup>3</sup>/n 364 = 64,0 cm<sup>3</sup>/n
- 370 = 70,0 cm<sup>3</sup>/n 374 = 74,0 cm<sup>3</sup>/n 390 = 90,0 cm<sup>3</sup>/n
- 12 Control devices position**
- 0 = Without
- 1 = 12V DC
- 2 = 24V DC
- 13 Optional**
- 0 = Without
- VS = Purge valve
- SB = Screw by-pass
- FLT = Filter without clogging indicator
- FLTI = Filter with clogging indicator
- MOB = Man on board
- RS = Angle sensor
- REV.S = RPM Sensor
- PRS = Pressure sensor
- G/J/M/- = Port threads and restrictor diameter