



NORTH AMERICAN HYDRAULICS

Variable & Fixed Displacement Axial Piston Pumps & Motors

Compact Design

Low Noise Level

High Power Density

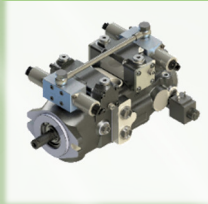
High Rotation Speed

Multiple Pump Assemblies

**TPV 1000
Single Pump**



**TPV 1200 BTB
Tandem Pump**



**TPV 1500
Single Pump**



**TPVTC 1500
Tandem Pump**



**TPV 3200
Single Pump**



**TPVT 3200
Tandem Pump**



**TPV 3600
Single Pump**



**TPVT 3600
Tandem Pump**



**TPV 4300
Single Pump**



**TPVT 4300
Tandem Pump**



**TPV 5000
Single Pump**



**TPVT 5000
Tandem Pump**



**TPV 9000
Single Pump**



**TMF 600
Motor**



**TMF 900
Motor**



**TMV 550
Motor**





NORTH AMERICAN HYDRAULICS

North American Hydraulics,
(NAHI, LLC), partnering with
Hansa-Tmp offering Variable
Displacement Closed Loop Axial
Piston Pumps.



Axial Piston Pumps
Solution Providers

Variable Displacement Closed Loop Axial Piston Pumps

Model	Displacement cm ³ /n	Rated Pressure psi	Peak Pressure psi	Max Speed rpm	Charge Pump ccm	Shaft Output	Mounting Output	Through Drive Flanges (Input)	Through Drive Shafts (Input)	Wgt S or T lbs
TPV 1000 Single TPV1200 BTB Tandem	6, 8, 9, 11, 12, 13	3,045	4,350	3,600	3.9 4.7 5.4	9T – 16/32DP (SAE A) 11T – 16/32 (SAE AH)	SAE "A" 2B SAE "B" 2B	SAE "A" 2B	9T – 16/32DP (SAE A)	19-S 42-T
	15, 17		4,060							
	18		3,915							
	19, 21	2,900	3,625	3,200						
TPV 1500 Single TPVTC 1500 Tandem	17,18, 19, 21	5,075	5,800	3,600	5.8	13T – 16/32DP (SAE B)	SAE "B" 2B	SAE "A" 2B	9T – 16/32DP (SAE A)	31-S 51-T
TPV 3200 Single TPVT 3200 Tandem	21, 28	3,625	5,075	3,600	11.0	13T – 16/32DP (SAE B) 15T – 16/32DP (SAE BB)	SAE "B" 2B	SAE "A" 2B SAE "B" 2B	9T – 16/32DP (SAE A) 13T – 16/32DP (SAE B) 15T – 16/32DP (SAE BB)	48-S 100-T
TPV 3600 Single TPVT 3600 Tandem	26, 28, 30, 31, 32, 34, 36, 38	5,075	6,525	3,600	10.3	13T – 16/32DP (SAE B) 15T – 16/32DP (SAE BB)	SAE "B" 2B	SAE "A" 2B SAE "B" 2B	9T – 16/32DP (SAE A) 13T – 16/32DP (SAE B)	28-S 119-T
TPV 4300 Single TPVT 4300 Tandem	32, 38, 45, 50	3,625	5,057	3,600	14.0	15T – 16/32DP (SAE BB)	SAE "B" 2B	SAE "A" 2B SAE "B" 2B	9T – 16/32DP (SAE A) 13T – 16/32DP (SAE B)	51-S 110-T
TPV 5000 Single TPVT 5000 Tandem	46, 50, 64	4,350	5,800	3,600	13.0	13T – 16/32DP (SAE B) 15T – 16/32DP (SAE BB)	SAE "B" 2B	SAE "A" 2B SAE "B" 2B	9T – 16/32DP (SAE A) 13T – 16/32DP (SAE B) 15T – 16/32DP (SAE BB)	64-S 133-T
TPV 9000 Single	55	5,800	6,525	4,000	20.0 28.0	14T – 12/24DP (SAE C) 21T – 16/32DP (SAE CC) 23T – 16/32DP (SAE CC)	SAE "C" 4B	SAE "A" 2B SAE "B" 2B	9T – 16/32DP (SAE A) 13T – 16/32DP (SAE B)	150-S
	72			4,100						
	90			4,000						
	110			3,800						

Proven Solutions for:

- Construction Applications
- Utility Machines
- Material Handling Applications
- Agricultural Applications
- Forestry Applications

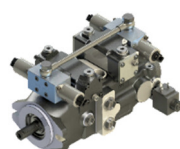
Please contact NAHI for additional
information.

The above information should be used as a
guide and is subject to change without notice.

Please contact NAHI for proper selection.



TPV 1000 Single



TPV 1200 BTB Tandem



TPV 1500 Single



TPVTC 1500 Tandem



TPV 3200 Single



TPVT 3200 Tandem



TPV 3600 Single



TPVT 3600 Tandem



TPV 4300 Single



TPVT 4300 Tandem



TPV 5000 Single



TPVT 5000 Tandem

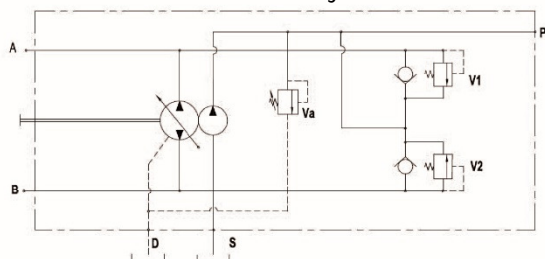


TPV 9000 Single

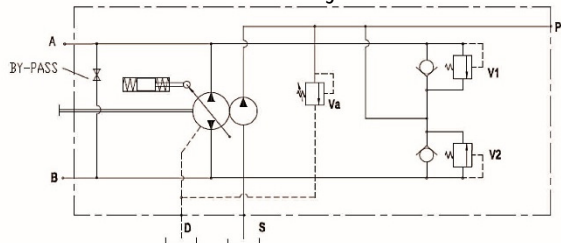
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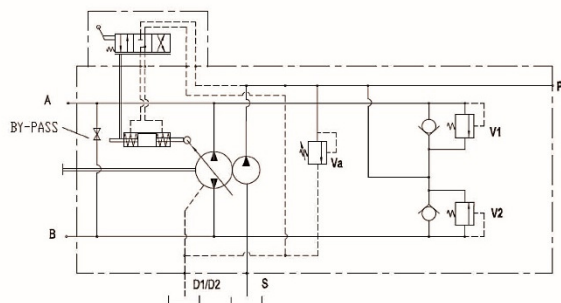
Manual Without Zeroing Control



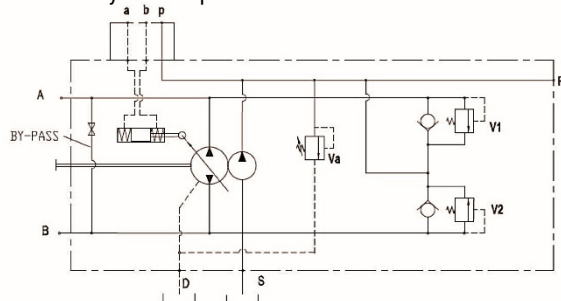
Manual With Zeroing Control



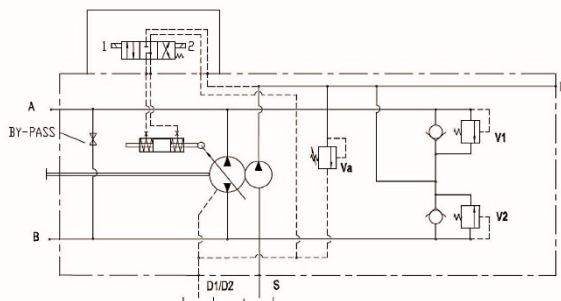
Manual Lever With Feed-Back Control



Hydraulic Proportional Without Feed-Back Control



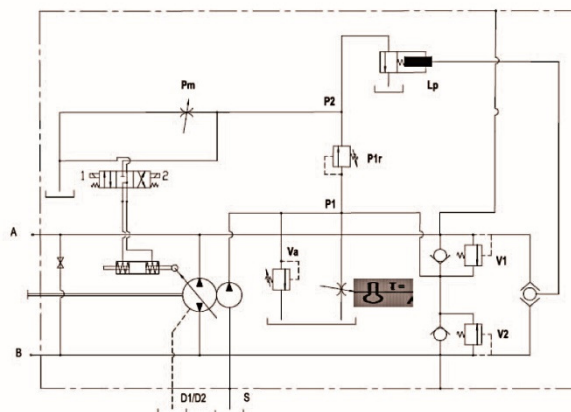
Electric Two Position On-Off



Controls - Options

	1000	1200	1500	3200	3600	4300	5000	9000
CONTROLS								
Direct mechanical (own lever)	■	■		■				
Direct manual lever	■	■		■				
Direct manual level with return to zero	■	■		■				
Manual lever w/feedback			■	■	■	■	■	■
Hydraulic servo-control (proportional)	■	■	■	■	■	■	■	■
Hydraulic servo-control w/feedback			■	■	■	■	■	■
Electro servo 12V or 24V (proportional)	■	■	■	■	■	■	■	■
Electro servo 12V or 24V w/feedback			■	■	■	■	■	■
Electric two position 12V or 24V			■	■	■	■	■	■
Automotive 12V or 24V			■	■	■	■	■	■
OPTIONS								
Lever bypass A&B	■				■			
Purge valve (hot oil shuttle)	■	■	■	■	■	■	■	■
Screw by pass A&B	■	■	■	■	■	■	■	■
Lever by pass and purge (hot oil shuttle)	■							
Flange SAE A2B to SAE B2B	■	■						
Shaft Coupling 9T to 13T	■	■						
Viton Seals		■						■
Man on board 12V or 24V		■	■	■	■	■	■	■
Ported for external mounted filter			■	■	■	■	■	■
On pump charge filter			■	■	■	■	■	■
Swashplate angle sensor			■	■	■	■	■	■
Pressure sensor			■	■	■	■	■	■
RPM sensor			■	■	■	■	■	■
Displacement adjustments	■	■	■	■	■	■	■	■
Power limiter			■	■	■	■	■	■
Pressure cut off valve			■	■	■	■	■	■
Hydraulic inching			■	■	■	■	■	■
Mechanical inching			■	■	■	■	■	■
Automotive hydraulic			■	■	■	■	■	■

Automotive Control



North American Hydraulics, (NAHI, LLC), partnering with Hansa-Tmp offering Fixed Displacement and Variable Displacement Axial and Bent Axis Piston Motors.

Features and Options:

- Compact Design
- Excellent Weight/Power Ratio
- High Pressure
- High Rotation Speed
- High Starting Torque
- Excellent Volumetric and Mechanical Efficiency
- Long Service Life

Proven Solutions for:

- Construction Applications
- Utility Machines
- Material Handling Applications
- Agricultural Applications
- Forestry Applications



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Please contact NAHI for proper selection.



Axial & Bent Axis Piston Motors Solution Providers



TMF 600 - Fixed Displacement Motor

Displacement cm ³ /n	Rated Pressure psi	Peak Pressure psi	Maximum Speed rpm	Weight lb	Shaft Output	Mounting Output
22, 28	5,075	6,090	4,200	25	0.875"-13T 1.0"-15T 1.0"-Keyed	SAE A2B SAE B2B
35, 40, 46			4,000	39	0.875"-13T 1.0"-15T 1.0"-Keyed	SAE B2B
50		5,945	3,600			
63, 71, 75, 92		6,090	3,500	72	1.25"-14T 1.50"-17T 1.50"-Keyed	SAE C4B
100		5,945	3,240			

TMF 900 - Fixed Displacement Motor

Displacement cm³/n	Rated Pressure psi	Peak Pressure psi	Maximum Speed rpm	Weight lb	Shaft Output	Mounting Output
72	5,800	6,525	4,100	62	1.375"-21T	SAE C4B
90			4,000	75		
110			3,800			

TMV 550 - Variable Displacement Motor

Displacement cm³/n	Rated Pressure psi	Peak Pressure psi	Maximum Speed rpm	Weight lb	Shaft Output	Mounting Output
46 / 23	4,350	5,800	3,600	44	0.875"-13T 1.0"-15T	SAE B2B
50 / 25						
64 / 32						
Note: Controls		Hydraulic servo-control; Electric 12V or 24V				

TMB 700 - Fixed Displacement Bent Axis Piston Motor

Displacement cm³/n	Rated Pressure psi	Peak Pressure psi	Maximum Speed rpm	Weight lb	Shaft Output	Mounting Output
12.6, 17.6	5,075	5,800	7,500	20	0.875"-13T	SAE B2B SAE B4B
25.4, 34.2			5,000			
41.2, 47.1, 56.0, 63.6			5,300	33	1.375"-21T	SAE C4B
83.6, 90.7			4,400	40		
108.0, 130.0			4,200	77		
Shaft Output: 1.25"-14T – Available for Displacements 25.4, 34.2, 41.2, 47.1, 56.0, 63.6, 83.6						
Mounting Output: SAE C4B – Also available for Displacements 25.4, 34.2						

Other Products Offered by Hansa - Tmp
Variable Displacement Closed Loop Axial Piston Pumps

Compact Design

Low Noise Level

High Power Density

High Rotation Speed

Multiple Pump Assemblies

