FEATURES

The Northman 2520V Series double pump is a fixed displacement, hydraulic balanced vane pump. This high performance intravane pump for industrial applications features high pressure capability with 12 vanes for low noise. The available flow ratings for the 2520V series are from 10 GPM to 21 GPM at 1200 RPM on the shaft end and from 2 to 14 GPM at 1200 RPM on the cover end. Viton seals are standard. Standard rotation is right-hand (clockwise), with left-hand rotation (counterclockwise) available ("L" option). The flange mounting is the SAE "B" two-bolt standard. The outlet port may be oriented in any one of four positions.

SYMBOL

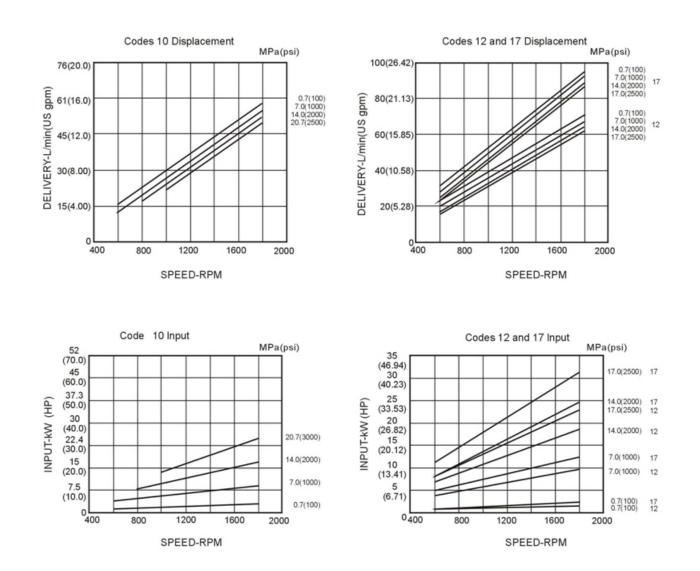


MODEL CODE

2520 <u>V</u> – <u>1</u>	$\frac{4}{3} - \frac{4}{4} - \frac{9}{5} - \frac{1}{6} - \frac{1}{6}$	<u>CC</u> − <u>**</u> − <u>(L)</u> 7 8 9	
1 Series	5 Cover End Pump	7 Port Orientation (Cont.)	
2520: 2520 Fixed	Flow at 1200 RPM, 100 PSI:	(Viewed from Cover End)	
Double Pump	2, 5, 8, 9, 11, 12, 14 With No. 1 Outlet Inline with Inlet		
	_, _, _, _, _, .,,	CA – No. 2 Outlet 135°CCW from Inlet	
2 Design Type	6 Shaft	CB – No. 2 Outlet 45°CCW from Inlet	
V: Industrial Design	1: 7/8" Dia., 0.187 Sq. St. Key	CC – No. 2 Outlet 45° CW from Inlet	
5	11: 13 Tooth Spline	CD – No. 2 Outlet 135°CW from Inlet	
	86: 1″ Dia., 0.250 Sq. St. Key		
3 Shaft End Pump		With No.1 Outlet 90° CW FROM Inlet	
Flow at 1200 RPM, 100 PSI:	7 Port Orientation	DA – No. 2 Outlet 135° CCW from Inlet	
10, 12, 14, 17, 21	(Viewed from Cover End)	DB – No. 2 Outlet 45°CCW from Inlet	
	With No. 1 Outlet Opposite Inlet	DC – No. 2 Outlet 45°CW from Inlet	
4 Ports			
	AA – No. 2 Outlet 135°CCW from Inlet	DD – No. 2 Outlet 135° CW from Inlet	
A: Inlet – 2.5" SAE, 4-Bolt Flange	AA – No. 2 Outlet 135°CCW from Inlet AB – No. 2 Outlet 45°CCW from Inlet	DD – No. 2 Outlet 135° CW from Inlet	
A: Inlet – 2.5" SAE, 4-Bolt Flange Shaft End Outlet –		DD – No. 2 Outlet 135° CW from Inlet 8 Design Number	
	AB – No. 2 Outlet 45°CCW from Inlet		
Shaft End Outlet –	AB – No. 2 Outlet 45°CCW from Inlet AC – No. 2 Outlet 45°CW from Inlet		
Shaft End Outlet – 1* SAE, 4-Bolt Flange	AB – No. 2 Outlet 45°CCW from Inlet AC – No. 2 Outlet 45°CW from Inlet	8 Design Number	
Shaft End Outlet – 1″ SAE, 4-Bolt Flange Cover End Outlet –	AB – No. 2 Outlet 45°CCW from Inlet AC – No. 2 Outlet 45°CW from Inlet AD – No. 2 Outlet 135°CW from Inlet	8 Design Number 9 Shaft Rotation	
Shaft End Outlet – 1″ SAE, 4-Bolt Flange Cover End Outlet –	AB – No. 2 Outlet 45°CCW from Inlet AC – No. 2 Outlet 45°CW from Inlet AD – No. 2 Outlet 135°CW from Inlet With No. 1 Outlet 90°CCW from Inlet	8 Design Number 9 Shaft Rotation (Viewed from Shaft End)	
Shaft End Outlet – 1″ SAE, 4-Bolt Flange Cover End Outlet –	AB – No. 2 Outlet 45°CCW from Inlet AC – No. 2 Outlet 45°CW from Inlet AD – No. 2 Outlet 135°CW from Inlet <u>With No. 1 Outlet 90°CCW from Inlet</u> BA – No. 2 Outlet 135°CCW from Inlet	8 Design Number 9 Shaft Rotation (Viewed from Shaft End) No Code: Right Hand (CW)	

PERFORMANCE CURVES

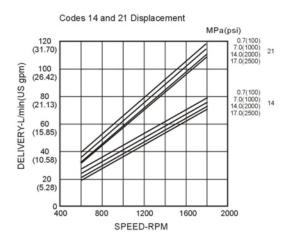
2520V Double Pump SAE 10W Fluid at 120°F. Pump Inlet at 0" hg.

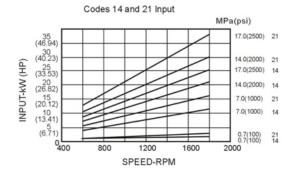


PERFORMANCE CURVES

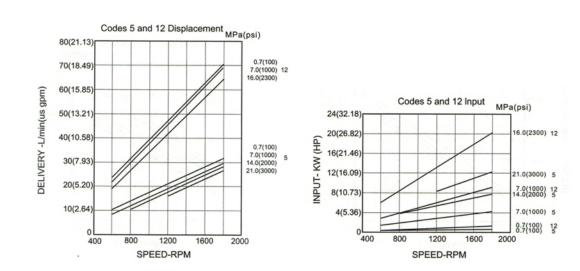
2520V Double Pump

SAE 10W Fluid at 120°F. Pump Inlet at 0" hg.





20V Cover End Pump

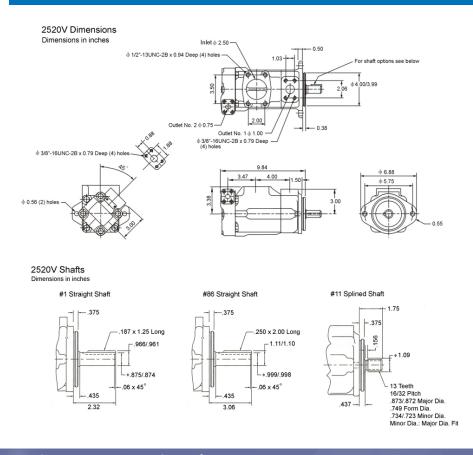


SPECIFICATIONS

Shaft End Pump	Flow Code GPM @ 1200 RPM & 100 PSI	Displacement in³∕r (cm³⁄r)	Max. Pressure PSI (BAR)				
P/N Example 2520V- <u>17</u> -A-9-1-CC-20 (" <u>17</u> " = Shaft End Pump)	10	1.98 (32.5)	2500 (172)				
	12	2.44 (40)					
	14	2.62 (43)					
	17	3.36 (55)					
	21	4.09 (67)					
Cover End Pump	Flow Code GPM @ 1200 RPM & 100 PSI	Displacement in³/r (cm³/r)	Max. Pressure PSI (BAR)				
P/N Example 2520V-17-A- <u>9</u> -1-CC-20 (" <u>9</u> " = Cover End Pump)	2	0.46 (7.5)	2000 (138)				
	5	1.04 (17)					
	8	1.67 (27)	3000 (207)				
	9	1.85 (30)					
	11	2.22 (36)					
	12	2.47 (40)	2300 (159)				
	14	2.78 (45)	2000 (138)				

DIMENSIONS

2520V Double Pump - Dimensions in Inches



FEATURES

The Northman 2520VQ Series double pump is a fixed displacement, hydraulic balanced vane pump. This high performance intravane pump features the 10 vane design for the high pressure and speed requirements of mobile applications. The available flow ratings for the 2520VQ series are from 10 GPM to 21 GPM at 1200 RPM on the shaft end and from 2 to 14 GPM at 1200 RPM on the cover end. Viton seals are standard. Standard rotation is right-hand (clockwise), with left-hand rotation (counterclockwise) available ("L" option).



The flange mounting is the SAE "B" two-bolt standard. The outlet port may be oriented in any one of four positions.

SYMBOL



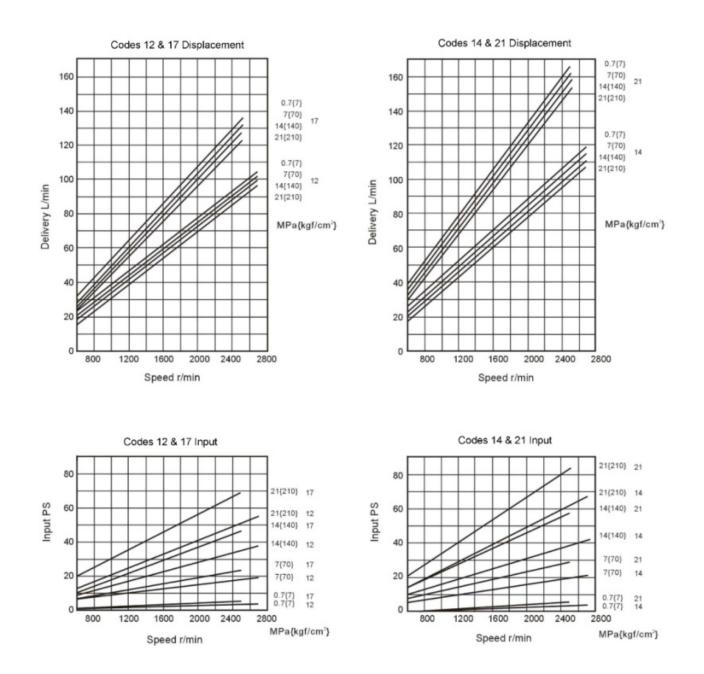
MODEL CODE

<u>2520</u> <u>VQ</u> - <u>1</u>	<u>4</u> - <u>A</u> - <u>9</u> - <u>1</u> - 3 4 5 6	CC - ** - (L)		
1 Series	5 Cover End Pump	7 Port Orientation (Cont.)		
2520: 2520 Fixed	Flow at 1200 RPM, 100 PSI:	(Viewed from Cover End)		
Double Pump	2, 5, 8, 9, 11, 12, 14	With No. 1 Outlet Inline with Inlet		
	_, _, _, _, ., .,,	CA – No. 2 Outlet 135°CCW from Inlet		
2 Design Type	6 Shaft	CB – No. 2 Outlet 45°CCW from Inlet		
VQ: Mobile Design	1: 7/8" Dia., 0.187 Sq. St. Key	CC – No. 2 Outlet 45° CW from Inlet		
<u> </u>	11: 13 Tooth Spline	CD – No. 2 Outlet 135°CW from Inlet		
	86: 1″ Dia., 0.250 Sq. St. Key			
3 Shaft End Pump		With No.1 Outlet 90° CW FROM Inlet		
Flow at 1200 RPM, 100 PSI:	7 Port Orientation	DA – No. 2 Outlet 135° CCW from Inlet		
10, 12, 14, 17, 21	(Viewed from Cover End)	DB – No. 2 Outlet 45°CCW from Inlet		
	<u>With No. 1 Outlet Opposite Inlet</u>	DC – No. 2 Outlet 45°CW from Inlet		
4 Ports	AA – No. 2 Outlet 135°CCW from Inlet	DD – No. 2 Outlet 135° CW from Inlet		
A: Inlet – 2.5" SAE, 4-Bolt Flange	AB – No. 2 Outlet 45°CCW from Inlet			
Shaft End Outlet –	AC – No. 2 Outlet 45° CW from Inlet	8 Design Number		
1″ SAE, 4-Bolt Flange	AD – No. 2 Outlet 135° CW from Inlet	_		
CoverEnd Outlet –		9 Shaft Rotation		
0.75″ SAE, 4-Bolt Flange	With No. 1 Outlet 90° CCW from Inlet	(Viewed from Shaft End)		
	BA – No. 2 Outlet 135° CCW from Inlet	No Code: Right Hand (CW)		
	BB – No. 2 Outlet 45° CCW from Inlet	L: Left Hand (CCW)		
	BC – No. 2 Outlet 45° CW from Inlet			
	BD–No. 2 Outlet 135°CW from Inlet			

PERFORMANCE CURVES

2520VQ Double Pump

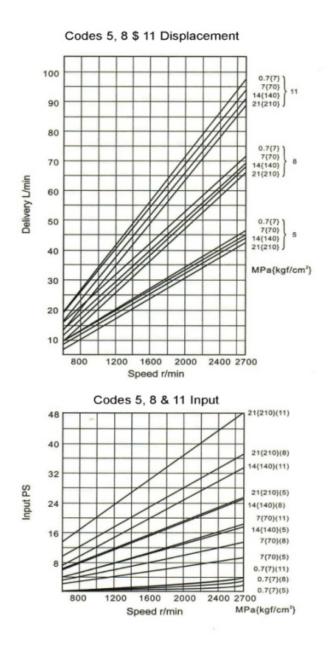
SAE 10W Fluid at 120°F. Pump Inlet at 0" hg.



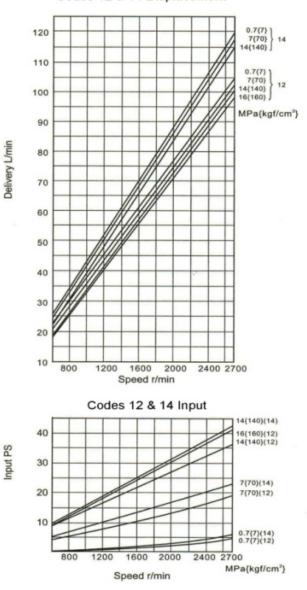
PERFORMANCE CURVES

2520VQ Double Pump

SAE 10W Fluid at 120°F. Pump Inlet at 0" hg.







SPECIFICATIONS

Shaft End Pump	Flow Code	Displacement	Max. Speed	Max. Pressure
	GPM @ 1200 RPM & 100 PSI	in³⁄r (cm³⁄r)	RPM	PSI (BAR)
	10	1.98 (32.5)		
P/N Example	12	2.34 (38.3)	2700	
2520VQ- <u>17</u> -A-9-1-CC-20	14	2.64 (43.3)		3000 (210)
(" <u>17</u> " = Shaft End Pump)	17	3.20 (52.5)	2500	
	21	3.97 (65.0)	2500	
Cover End Pump	Flow Code	Displacement	Max. Speed	Max. Pressure
	GPM @ 1200 RPM & 100 PSI	in³∕r (cm³⁄r)	RPM	PSI (BAR)
P/N Example 2520VQ-17-A- <u>9</u> -1-CC-20 (" <u>9</u> " = Cover End Pump)	2	0.43 (7)		
	5	1.10 (18)	2700	3000 (207)
	8	1.67 (27)		
	9	1.85 (30)		
	11	2.22 (36)		
	12	2.47 (40)		2300 (159)
	14	2.78 (45)		2000 (138)

DIMENSIONS

