



Vane  
Pumps

**VNP SERIES**
**TECHNICAL SPECIFICATION**

- ⚙ Standard flanges, with keyed or splined shafts.
- ⚙ Removable cartridges, usually with pump in-line, facilitate maintenance or flow changes.
- ⚙ Extremely low noise levels enhance operator comfort.
- ⚙ Various frame sizes can be combined with each other, enabling double and triple pumps to be assembled.

**SINGLE**

	Model								
	VNP	X2	F2	F3	F3S	F4	F5	F3M	F7C
Displacement	cm <sup>3</sup> rev <sup>-1</sup>	6 ÷ 46	6 ÷ 40	11 ÷ 100	11 ÷ 100	48 ÷ 190	132 ÷ 270	11 ÷ 100	11 ÷ 100
	in <sup>3</sup> rev <sup>-1</sup>	0.40 ÷	0.40 ÷	0.66 ÷	0.66 ÷	2.90 ÷	8.07 ÷	0.66 ÷	0.66 ÷
		2.80	2.42	6.10	6.10	11.62	16.40	6.10	6.10
Max. pressure	bar	210	240	275	275	240	240	275	275
	psi	3.000	3.500	4.000	4.000	3.500	3.500	4.000	4.000
Max Speed	rpm	2.500	2.500	2.800	2.800	2.500	2.200	2.800	2.800

	Model							
	VNP	F3D	F4M	F5M	G2 G2H	GQC1 GQC2	G4 G4H	G5 G5H
Displacement	cm <sup>3</sup> rev <sup>-1</sup>	46 ÷ 100	48 ÷ 190	132 ÷ 270	6,0 ÷ 50	11 ÷ 100	44 ÷ 158	132 ÷ 270
	in <sup>3</sup> rev <sup>-1</sup>	2.81 ÷ 6.10	2.90 ÷ 11.62	8.07 ÷ 16.40	0.35 ÷ 3.05	0.66 ÷ 6.10	2.68 ÷ 9.64	8.07 ÷ 16.40
Max. pressure	bar	275	240	240	320	300	300	240
	psi	4.000	3.500	3.500	4.650	4.350	4.350	3.500
Max Speed	rpm	2.800	2.500	2.200	3.600	3.000	3.000	2.200

**M** = Mobile

**D** = Mobile with double shaft seal

**H** = Heavy duty

**S** = Silent

**VNP SERIES**
**DOUBLE**

		Model										
		VNP	F33	F33S	F43	F44H	F53	F54	F55 F55H	F33M	F33Z	F73C
<b>Displacement</b>	cm <sup>3</sup> rev <sup>-1</sup>	22	22	59	96	143	180	264	22	22	22	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
	in <sup>3</sup> rev <sup>-1</sup>	200	200	290	380	370	460	540	200	200	200	
		1.32	1.32	3.56	5.80	8.73	11.0	16.1	1.32	1.32	1.32	
		÷	÷	÷	÷	÷	÷	÷	÷	÷		
		12.20	12.20	17.75	23.3	22.56	28.06	32.8	12.20	12.20	12.20	
<b>Max. pressure</b>	bar	275	275	275	240	275	240	240	275	275	275	
	psi	4.000	4.000	4.000	3.500	4.000	3.500	3.500	4.000	4.000	4.000	
<b>Max Speed</b>	rpm	2.800	2.800	2.500	2.500	2.200	2.200	2.200	2.800	2.800	2.800	

		Model										
		VNP	F43M	F53M	F54M	FG32	FG42	FG52	X22	F22	F32	FG22
<b>Displacement</b>	cm <sup>3</sup> rev <sup>-1</sup>	59	143	180	17	54	138	12	12	17	12	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
	in <sup>3</sup> rev <sup>-1</sup>	290	370	460	150	240	320	92	92	140	200	
		3.56	8.73	11.0	1.01	3.25	8.42	0.79	0.79	1.05	0.35	
		÷	÷	÷	÷	÷	÷	÷	÷	÷		
		17.75	22.56	28.06	9.15	14.7	19.45	5.61	5.61	8.52	3.05	
<b>Max. pressure</b>	bar	275	275	240	300	300	300	210	240	275	300	
	psi	4.000	4.000	3.500	4.350	4.350	4.350	3.000	3.500	4.000	4.350	
<b>Max Speed</b>	rpm	2.500	2.200	2.200	2.800	2.500	2.200	2.500	2.500	2.500	2.800	

		Model										
		VNP	FG63	G22 G22H	GQ33	G42 G42H	GQ43	G44 G44H	G52 G52S	GQ53	G54 G54H	G55 G55H
<b>Displacement</b>	cm <sup>3</sup> rev <sup>-1</sup>	143	12	22	50	55	88	138	143	176	264	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
	in <sup>3</sup> rev <sup>-1</sup>	370	100	200	208	258	316	319	370	427	540	
		8.73	0.67	1.32	3.03	3.34	5.36	8.42	8.73	10.7	16.1	
		÷	÷	÷	÷	÷	÷	÷	÷	÷		
		22.5	6.10	12.20	12.69	15.74	19.28	19.45	22.56	26	32.8	
<b>Max. pressure</b>	bar	275	320	300	300	300	250	300	300	250	240	
	psi	4.000	4.650	4.350	4.350	4.350	3.600	4.350	4.350	3.600	3.500	
<b>Max Speed</b>	rpm	2.200	3.600	3.000	2.500	2.500	2.500	2.200	2.200	2.200	2.200	

**M** = Mobile

**D** = Mobile with double shaft seal

**H** = Heavy duty

**S** = Silent

**VNP SERIES**
**TRIPLE**

		Model										
		VNP	F322	F332	F432	F433	F443H	F543	F433M	F543M F543H	FG422	FG432
<b>Displacement</b>	cm <sup>3</sup> rev <sup>-1</sup>	23	28	65	70	107	191	70	191	60	64	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
	in <sup>3</sup> rev <sup>-1</sup>	180	240	330	390	480	560	390	560	290	341	
		1.46	1.72	3.96	4.22	6.46	11.63	4.22	11.63	3.59	3.91	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
		11.7	15	20.05	23.94	29.34	34.15	23.94	34.15	17.75	20.8	
<b>Max. pressure</b>	bar	275	275	275	275	275	275	275	275	300	300	
	psi	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.350	4.350	
<b>Max Speed</b>	rpm	2.500	2.500	2.500	2.500	2.500	2.200	2.500	2.200	2.500	2.200	

		Model										
		VNP	FG542	FG433	FG443S	FG543	G422 G422H	GQ432	GQ433	G442 G442H	G542 G542H	GQ543 GQ543H
<b>Displacement</b>	cm <sup>3</sup> rev <sup>-1</sup>	186	66	99	187	56	61	66	94	182	187	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
	in <sup>3</sup> rev <sup>-1</sup>	510	358	416	528	258	308	358	366	478	528	
		11.28	4.0	6.0	11.41	3.35	3.66	3.96	5.67	11.1	11.34	
		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	
		31.11	21.84	25.38	32.14	15.74	18.79	21.84	22.33	29.1	32.1	
<b>Max. pressure</b>	bar	300	275	275	275	300	300	300	300	300	300	
	psi	4.350	4.000	4.000	4.000	4.350	4.350	4.000	4.350	4.350	4.350	
<b>Max Speed</b>	rpm	2.500	2.200	2.200	2.200	2.500	2.500	2.500	2.500	2.200	2.200	

**M** = Mobile

**D** = Mobile with double shaft seal

**H** = Heavy duty

**S** = Silent

Information contained in this catalogue is accurate as of the publication date and is subject to change without notice.

Performance values are typical values. Customers are responsible for selecting products for their applications using normal engineering methods.



**SMIT**  
hydraulics

**SMIT Hydraulics**

**Via Pietro Giardini, 318**  
**41100 Modena - ITALY**

[info@smithydraulics.it](mailto:info@smithydraulics.it)  
[www.smithydraulics.it](http://www.smithydraulics.it)

**PHONE**

+39 059 596 77 44  
+39 059 596 77 45

**FAX**

+39 059 596 08 80  
+39 059 596 08 88

**(Domestic market)**

**(International market)**