

Vane Pumps

V10 & V20 Series Single Pumps



Part Number Formulation

Model Code	V10	1	P	5	P	1	C	20	(L)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

(1) Series

V10 = From 6,5 to 22,8 cc/rev
 V20 = From 19,5 to 42,4 cc/rev

(2) Mounting Options

1 = SAE "A" 2 bolt mount (3 1/4" Spigot)
 6 = SAE "B" 2 bolt mount (4" Spigot) Available on V 20 only

(3) Inlet Port Details

Code	V10 Series	V20 Series
P =	1" NPT	1 1/4" NPT
S =	1 5/16" SAE "O" Ring port	1 5/8" SAE "O" Ring port
B =	1" BSP	1 1/4" BSP

(4) Geometric Displacements cc/rev

Frame	Code	cc/rev	Maximum Pressure (bar)	Maximum Speed
V10	1	3.3	172	4800
	2	6.6	172	4500
	3	9.8	172	4000
	4	13.1	172	3400
	5	16.4	172	3200
	6	19.5	152	3000
	7	22.8	138	2800
V20	6	19.5	172	3400
	6	22.8	172	3000
	8	26.5	172	2800
	9	29.7	172	2800
	11	36.4	172	2500
	12	39	152	2400
	13	42.4	138	2400

(5) Outlet Port Details

Code	V10 Series	V20 Series
P =	1/2" NPT	3/4" NPT
S =	3/4" SAE "O" Ring port	1 1/16" SAE "O" Ring port
B =	1/2" BSP	3/4" BSP

(6) Shaft Options

Pump Series	Shaft Option
V10	1 = SAE "AH" 3/4" Keyed (19.05mm) 11 = SAE "A" 5/8" 9T Spline
V20	1 = SAE "AH" 3/4" Keyed (19.05mm) 11 = SAE "AH" 3/4" 11T Spline

(7) Outlet Port Position (Always viewed from cover End)

A = Opposite inlet
 B = 90° CCW from inlet
 C = In Line with inlet
 D = 90° CW from Inlet

(8) Design Number

11 = Frame size V20
 20 = Frame size V10
 Design Numbers Subject to Change

(9) Pump Rotation (always viewed from the shaft end)

Omit = Right Hand (Clockwise Rotation)
 L = Left Hand

V2010 and V2020 Double-Stage Pumps



PVQ10/13 Part Number Formulation

Model Code	V2010	1	F	6	S	4	S	1	AA	12	L
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

(1) Series

V2010
V2020

(2) Mounting Flange

1 = SAE B 2-bolt flange, 4.00" pilot (standard)

(3) Inlet port connections

Series	Code	Outlet Port Size
V2010	F =	1 1/2" SAE Flange (Code 61)
V2020		2" SAE Flange (Code 61)

(4) Shaft End Pump Displacement cc/rev

Code	cc/rev Maximum	Max Pressure (Bar)	Max Speed
6 =	19.5	172	3000
7 =	22.8	172	3000
8 =	26.5	172	2800
9 =	29.7	172	2800
11 =	36.4	172	2500
12 =	39	152	2400
13 =	42.4	152	2400

(5) Shaft End Outlet Port

S = 1 1/16 -12 UN-2B SAE O-ring Port

(6) Cover End Pump Displacement cc/rev

Series	Code	cc/rev Maximum	Max Pressure (Bar)	Max Speed
V2010	1 =	3.3	172	3000
	2 =	6.6	172	3000
	3 =	9.8	172	3000
	4 =	13.1	172	3000
	5 =	16.4	172	3000
	6 =	19.5	152	3000
	7 =	22.8	138	2800
V2020	6 =	19.5	172	3000
	7 =	22.8	172	3000
	8 =	26.5	172	2800
	9 =	29.7	172	2800
	11 =	36.4	172	2500

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(7) Cover End Outlet Port

Series	Code	Outlet Port Size
V2010	S =	3/4" -16 UN-2B SAE O-ring Port
V2020		1 1/16 -12 UN-2B SAE O-ring Port

(8) Shaft Options

- 1** = SAE "B" 7/8" (22.22mm) Straight Keyed Shaft
11 = SAE "B" 13T Spline Shaft

(9) Outlet Port Position (Always viewed from cover End)

	With shaft end outlet opposite inlet	With shaft end outlet in line with inlet
	V2010	AA = Cover end outlet 135° CCW from inlet
AB = Cover end outlet 45° CCW from inlet		CB = Cover end outlet 45° CCW from inlet
AC = Cover end outlet 45° CW from inlet		CC = Cover end outlet 45° CW from inlet
AD = Cover end outlet 135° CW from inlet		CD = Cover end outlet 135° CW from inlet
With shaft end outlet 90° CCW from inlet		With shaft end outlet 90° CW from inlet
BA = Cover end outlet 135° CCW from inlet		DA = Cover end outlet 135° CCW from inlet
BB = Cover end outlet 45° CCW from inlet		DB = Cover end outlet 45° CCW from inlet
BC = Cover end outlet 45° CW from inlet		DC = Cover end outlet 45° CW from inlet
BD = Cover end outlet 135° CW from inlet		DD = Cover end outlet 135° CW from inlet
V2020		With shaft end outlet opposite Inlet
	AA = Cover end outlet opposite inlet	CA = Cover end outlet opposite inlet
	AB = Cover end outlet 90° CCW from inlet	CB = Cover end outlet 90° CCW from inlet
	AC = Cover end outlet in line with inlet	CC = Cover end outlet in line with inlet
	AD = Cover end outlet 90° CW from inlet	CD = Cover end outlet 90° CW from inlet
	With shaft end outlet 90° CCW from inlet	With shaft end outlet 90° CW from inlet
	BA = Cover end outlet opposite inlet	DA = Cover end outlet opposite inlet
	BB = Cover end outlet 90° CCW from inlet	DB = Cover end outlet 90° CCW from inlet
	BC = Cover end outlet in line with inlet	DC = Cover end outlet in line with inlet
	BD = Cover end outlet 90° CW from inlet	DD = Cover end outlet 90° CW from inlet

(10) Design

- 12** = V2010 Series
30 = V2020 Series

(11) Pump Rotation

- Omit** = Right Hand (Clockwise)
L = Left Hand (Counter Clockwise)



VQ Series Single Pumps



Part Number Formulation

Model Code	20VQ	5	A	1	C	30	(L)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Pump Series

20VQ = From 18 to 45,9 cc/rev
25VQ = From 40,2 to 67,5 cc/rev
30VQ = From 77,2 to 91,4 cc/rev
35VQ = From 81,6 to 121,6 cc/rev
45VQ = From 138,7 to 193,4 cc/rev

(2) Geometric displacements cc/rev

Frame	Code	cc/rev	Maximum Pressure (bar)
20VQ	5	18	210
	8	27,4	210
	11	36,4	210
	12	39,5	160
	14	45,9	140
25VQ	12	39,5	210
	14	45,9	210
	17	55,2	210
	21	67,5	210
30VQ	24	77,2	175
	28	91,4	175
35VQ	21	67,5	210
	25	81,6	210
	30	97,7	210
	35	112,8	210
	38	121,6	210
45VQ	42	138,7	175
	50	162,3	175
	60	193,4	175

(3) Port Connections

Series	Code	Inlet Port	Outlet Port, Cover End
20VQ	A =	1 1/2" SAE 4 bolt (1/2" UNC)	3/4" SAE 4 Bolt (3/8" UNC)
25VQ		1 1/2" SAE 4 Bolt (1/2" UNC)	1" SAE 4 Bolt (3/8" UNC)
30VQ		1 1/2" SAE 4 Bolt (1/2" UNC)	1 1/4" SAE 4 Bolt (7/16" UNC)
35VQ		2" SAE 4 Bolt (1/2" UNC)	1 1/4" SAE 4 Bolt (7/16" UNC)
45VQ		3" SAE 4 Bolt (5/8" UNC)	1 1/2" SAE 4 Bolt (1/2" UNC)

Please note that all port flanges are SAE 3000 series or code "61"

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(4) Shaft Options

Pump Series	Shaft Option
20VQ	1 = SAE "B" 7/8" Keyed (22.2mm) 151 = SAE "B" 7/8" 13T Spline
25VQ	1 = SAE "B" 7/8" Keyed (22.2mm) 11 = SAE "B" 7/8" 13T Spline
30VQ	1 = SAE "B" 7/8" Keyed (22.2mm) 11 = SAE "B" 7/8" 13T Spline
35VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline
45VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline

(5) Outlet Port Position (Always viewed from cover End)

A = Opposite inlet
B = 90° Counter clockwise from inlet
C = In-Line with inlet
D = 90° Clockwise from Inlet

(6) Design Number

20 = Frame size 25VQ,30VQ,35VQ,45VQ
30 = Frame size 20VQ

(9) Pump Rotation (always viewed from the shaft end)

Omit = Right Hand (Clockwise Rotation)
L = Left Hand

Note: Please note that these model codes have been abbreviated to suit most popular pump configurations. There are numerous other shaft options available that have not been listed. Please contact your Goldquest representative for other details for more detailed information please request catalogue 353 (Vane Pump and Motor design guide)



VQ Series Double Stage Pumps



Part Number Formulation

Model Code	2520VQ	21	A	5	1	CC	20	(L)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

(1) Pump Series

2520VQ
3520VQ
3525VQ
4520VQ
4525VQ
4535VQ

(2) Displacement - Shaft End Section

Frame	Code	cc/rev	Maximum Pressure (bar)	Maximum Speed (r/min)
25**VQ	12	39,5	210	2700
	14	45,9	210	2700
	17	55,2	210	2500
	21	67,5	210	2500
35**VQ	21	67,5	210	2500
	25	81,6	210	2500
	30	97,7	210	2500
	35	112,8	210	2400
	38	121,6	210	2400
45**VQ	42	138,7	175	2200
	50	162,3	175	2200
	60	193,4	175	2200

(3) Port Connections

Pump Series	Code	Inlet Port	Outlet port, Shaft End	Outlet Port, Cover End
2520VQ	A =	2 1/2" SAE 4 bolt (1/2" UNC)	1" SAE 4 Bolt (3/8" UNC)	3/4" SAE 4 Bolt (3/8" UNC)
3520VQ		3" SAE 4 Bolt (5/8" UNC)	1 1/4" SAE 4 Bolt (7/16" UNC)	3/4" SAE 4 Bolt (3/8" UNC)
3525VQ		3" SAE 4 Bolt (5/8" UNC)	1 1/4" SAE 4 Bolt (7/16" UNC)	1" SAE 4 Bolt (3/8" UNC)
4520VQ		3 1/2" SAE 4 Bolt (5/8" UNC)	1 1/2" SAE 4 Bolt (1/2" UNC)	3/4" SAE 4 Bolt (3/8" UNC)
4525VQ		3 1/2" SAE 4 Bolt (5/8" UNC)	1 1/2" SAE 4 Bolt (1/2" UNC)	1" SAE 4 Bolt (3/8" UNC)
4535VQ		4" SAE 4 Bolt (5/8" UNC)	1 1/2" SAE 4 Bolt (1/2" UNC)	1 1/4" SAE 4 Bolt (7/16" UNC)

Please note that all port flanges are SAE 3000 series or code "61"

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(4) Displacement - Cover End Section

Series	Code	cc/rev	Maximum Pressure (bar)	Maximum Speed
**20VQ	5	18	210	2700
	8	27,4	210	2700
	11	36,4	210	2700
	12	39,5	160	2700
	14	45,9	140	2700
**25VQ	12	39,5	210	2700
	14	45,9	210	2700
	17	55,2	210	2500
	21	67,5	210	2500
**35VQ	21	67,5	210	2500
	25	81,6	210	2500
	30	97,7	210	2500
	35	112,8	210	2400
	38	121,6	210	2400

(5) Shaft Options

Pump Series	Shaft Option
2520VQ	1 = SAE "B" 7/8" Keyed (22.2mm) 11 = SAE "B" 7/8" 13T Spline
3520VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline
3525VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline
4520VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline
4525VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline
4535VQ	1 = SAE "C" 1 1/4" Keyed (31.75mm) 11 = SAE "C" 1 1/4" 14T Spline

(6) Outlet Port Position (Always viewed from cover End)

2520VQ , 3520VQ , 3525VQ , 4520VQ , 4525VQ		4535VQ	
Shaft End Outlet Port	Cover End Outlet Port	Shaft End Outlet Port	Cover End Outlet Port
A = Opposite inlet B = 90° CCW from Inlet C = In Line with Inlet D = 90° CW from inlet	A = 135° CCW from inlet B = 45° CCW from inlet C = 45° CW from inlet D = 135° CW from Inlet	A = Opposite inlet B = 90° CCW from Inlet C = In-Line with Inlet D = 90° CW from inlet	A = Opposite inlet B = 90° CCW from inlet C = In-Line with inlet D = 90° CW from Inlet
Example Always viewed from cover end (2520VQ) "CC" = Shaft End Outlet Port in-line with inlet port and Cover End Outlet Port 45° CW from inlet			

(7) Design Number

20 = VQ series Double Pumps

(8) Pump Rotation (always viewed from the shaft end)

Omit = Right Hand (Clockwise Rotation)
L = Left Hand

Note: Please note that these model codes have been abbreviated to suit most popular pump configurations. There are numerous other shaft options available that have not been listed. Please contact your Goldquest representative for other details for more detailed information please request catalogue 353 (Vane Pump and Motor design guide)

VMQ Series High Pressure Single Pumps



Part Number Formulation

Model Code	VMQ1	35	S	125	B	0	01	00	A	A	A	A	N	R
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)

(1) Series

VMQ1 = VMQ Series Single Vane Pump

(2) Frame Size

25 = From 10 to 90 cm³/r
35 = From 90 to 158 cm³/r
45 = From 140 to 240 cm³/r

(3) Pump Type

S = Standard Single Pump

(4) Displacement

Frame Size	Code	cc/rev	Max Pressure (Bar)	Max Speed rpm
25	010	10	280	3000
	016	16	280	3000
	020	20	280	3000
	025	25	280	3000
	032	32	280	3000
	040	40	280	2600
	045	45	280	2600
	050	50	280	2600
	063	63	280	2600
	071	71	280	2600
	080	80	280	2600
35	090	90	248	2200
	090	90	250	2400
	100	100	250	2400
	112	112	250	2400
	125	125	250	2400
	135	135	250	2200
	140	140	210	2200
45	158	158	210	2200
	140	140	250	2200
	160	160	250	2200
	180	180	250	2200
	195	195	250	2200
	215	215	220	2200
240	240	220	2200	

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(5) Mounting Flange

Frame Size	Code	Mounting Flange
25	A =	SAE "B" 2-Bolt
35	B =	SAE "C" 2-Bolt
45	B =	SAE "C" 2-Bolt

(6) Auxillary Mounting Pad

0 = None

(7) Input Shaft Option

Frame Size	Keyed Shaft Option	Spline Shaft Option
25	01 = SAE "BB" 1" (25.4mm) Keyed	09 = SAE "B" 1" 13T Spline Shaft
35	01 = SAE "C" 1 1/4" (31.75mm) Keyed	02 = SAE "C" 1 1/4" 14T Spline Shaft
45	01 = SAE "CC" 1 1/2" (38.1mm) Keyed	09 = SAE "C" 1 1/4" 14T Spline Shaft

(8) Output Shaft

00 = None (Non Thru-Drive)

(9) Inlet Port

Frame Size	Code	Inlet Port Size
25	A =	1 1/2" SAE 4-Bolt Flange(1/2" UNC)
35		2" SAE 4-Bolt Flange (1/2" UNC)
45		3" SAE 4-Bolt Flange (5/8" UNC)

Please note that all port flanges are SAE 3000 series or code "61"

(10) Outlet Port

Frame Size	Code	Outlet Port Size
25	A =	1" SAE 4-Bolt Flange (3/8" UNC)
35		1 1/4" SAE 4-Bolt Flange (7/16" UNC)
45		1 1/2" SAE 4-Bolt Flange (1/2" UNC)

Please note that all port flanges are SAE 3000 series or code "61"

(11) Outlet Port Position (Always viewed from cover End)

A = Opposite inlet
 B = 90° Counter clockwise from inlet
 C = In-Line with inlet
 D = 90° Clockwise from Inlet

(12) Shaft Seal

A = Single Primary Shaft Seal

(13) Seal Material

N = Buna
 V = Viton

(14) Rotation

L = Left Hand (Counter Clockwise)
 R = Right Hand (Clockwise)

VMQ Series High Pressure Double Pumps



Vickers



Part Number Formulation

Model Code	VMQ2	35	S	125	040	B	0	01	00	A	A	A	CC	A	N	R
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)

(1) Series

VMQ2 = VMQ Series Double Stage Vane Pump

(2) Frame Size

2525
3525
4525
4535

(3) Pump Type

S = Standard Two Stage Pump

(4) Displacement - Shaft End Section

Frame Size	Code	Displacement cm ³ /r	Max Pressure Bar	Max Speed rpm
25	010	10	280	3000
	016	16	280	3000
	020	20	280	3000
	025	25	280	3000
	032	32	280	3000
	040	40	280	2600
	045	45	280	2600
	050	50	280	2600
	063	63	280	2600
	071	71	280	2600
35	080	80	280	2600
	090	90	248	2200
	090	90	250	2400
	100	100	250	2400
	112	112	250	2400
	125	125	250	2400
45	135	135	250	2200
	140	140	210	2200
	158	158	210	2200
	140	140	250	2200
	160	160	250	2200
	180	180	250	2200
	195	195	250	2200
	215	215	220	2200
	240	240	220	2200

(5) Displacement - Cover End Section

Frame Size	Code	Displacement cm ³ /r	Max Pressure Bar	Max Speed rpm
25	010	10	280	3000
	016	16	280	3000
	020	20	280	3000
	025	25	280	3000
	032	32	280	3000
	040	40	280	2600
	045	45	280	2600
	050	50	280	2600
	063	63	280	2600
	071	71	280	2600
35	080	80	280	2600
	090	90	248	2200
	090	90	250	2400
	100	100	250	2400
	112	112	250	2400
	125	125	250	2400
	135	135	250	2200
	140	140	210	2200
	158	158	210	2200

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(6) Front Mounting Flange

Frame Size	Code	Mounting Flange
25	A =	SAE "B" 2-Bolt
35	B =	SAE "C" 2-Bolt
45	B =	SAE "C" 2-Bolt

(7) Thru-drive Adaptor Pad

0 = None

(8) Input Shaft Option

Frame Size	Keyed Shaft Option	Spline Shaft Option
25	01 = SAE "BB" 1" (25.4mm) Keyed	09 = SAE "B" 1" 13T Spline Shaft
35	01 = SAE "C" 1 1/4" (31.75mm) Keyed	02 = SAE "C" 1 1/4" 14T Spline Shaft
45	01 = SAE "CC" 1 1/2" (38.1mm) Keyed	09 = SAE "C" 1 1/4" 14T Spline Shaft

(9) Output Shaft

00 = None (Non Thru-Drive)

(10) Inlet Port

Frame Size	Code	Inlet Port Size
2525	A =	3" SAE 4-Bolt Flange (5/8" UNC)
3525		3" SAE 4-Bolt Flange (5/8" UNC)
4525		3 1/2" SAE 4-Bolt Flange (5/8" UNC)
4535		4" SAE 4-Bolt Flange (5/8" UNC)

(11) Shaft End Outlet Port

Frame Size	Code	Outlet Port Size
2525	A =	1" SAE 4-Bolt Flange (3/8" UNC)
3525		1 1/4" SAE 4-Bolt Flange (7/16" UNC)
4525		1 1/2" SAE 4-Bolt Flange (1/2" UNC)
4535		1 1/2" SAE 4-Bolt Flange (1/2" UNC)

(12) Cover End Outlet Port

Frame Size	Code	Outlet Port Size
2525	A =	1" SAE 4-Bolt Flange (3/8" UNC)
3525		1" SAE 4-Bolt Flange (3/8" UNC)
4525		1" SAE 4-Bolt Flange (3/8" UNC)
4535		1 1/4" SAE 4-Bolt Flange (7/16" UNC)

(13) Outlet Port Position (Always viewed from cover End)

3525 / 4525 / 4535		2525	
Shaft End Outlet Port	Cover End Outlet Port	Shaft End Outlet Port	Cover End Outlet Port
A= Opposite inlet	A= 135° CCW from inlet	A= Opposite inlet	E= Opposite inlet
B= 90° CCW from Inlet	B= 45° CCW from inlet	B= 90° CCW from Inlet	F= 90° CCW from inlet
C= In Line with Inlet	C= 45° CW from inlet	C= In-Line with Inlet	G= In-Line with inlet
D= 90° CW from inlet	D= 135° CW from Inlet	D= 90° CW from inlet	H= 90° CW from Inlet

(14) Shaft Seal

A = Single Primary Shaft Seal

(15) Seal Material

N = Buna
V = Viton

(16) Rotation

L = Left Hand (Counter Clockwise)
R = Right Hand (Clockwise)