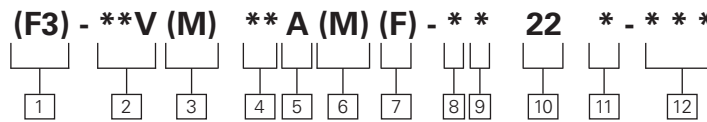


Single Pump Model Code



1 F3 - Viton Seals

Omit if not required

2 Series Designation

20V – 7 to 45 cm³/r (0.43 to 2.78 in³/r)

25V – 33 to 67 cm³/r (2.0 to 4.1 in³/r)

35V – 81 to 121 cm³/r (4.9 to 7.4 in³/r)

45V – 138 to 193 cm³/r (8.4 to 11.6 in³/r)

3 Pilot Designation

Omit - Standard pilot

S – SAE per ISO 3019/1 (SAE J744)
(N/A on 20V pump).

M – Metric per ISO 3019/2 100A2HW
codes (N/A on 20V pump).

4 Geometric Displacement

Rated capacity (USgpm) at 1200 rpm,
6,9 bar (100 psi)

Frame Size	Code (USgpm)	cm ³ /r	in ³ /r
20V	2	7	0.43
	5	18	1.10
	8	27	1.67
	9	30	1.85
	11	36	2.22
	12	40	2.47
25V	14	45	2.78
	10	33	2.01
	12	39	2.47
	14	45	2.78
	17	55	3.39
35V	21	67	4.13
	25	81	4.94
	30	97	5.91
	35	112	6.83
45V	38	121	7.37
	42	138	8.41
	45	147	8.95
	50	162	9.85
	60	193	11.75

5 Port Connections

A – SAE 4-bolt flange

6 Port Connection Modifier

Omit – Inch thread port connection
(4-bolt flange).

M – Metric port connection
(4-bolt flange - N/A on 20V)

7 Mounting

Omit - Flange mounting
F – Foot mounting

8 Shafts

Std. Pilot Shafts

Model	Str. Key	HD Str. Key	Spline
20V	1	N/A	151
25V thru 45V	1	86	11

"S" SAE Pilot & "M" Metric ISO Pilot Shafts

Model	Str. Key	HD Str. Key	Metric Str. Key	Spline
25VS - 45VS	202	203	N/A	297
25VM - 45VM	N/A	N/A	292N	N/A

9 Outlet Postions

(Viewed from cover end of pump)

A – Opposite inlet port

B – 90° CCW from inlet

C – Inline with inlet

D – 90° CW from inlet

10 Design

11 Rotation

(Viewed form shaft end of pump)

L – Left hand for counterclockwise

R – Right hand for clockwise

12 Special Suffix

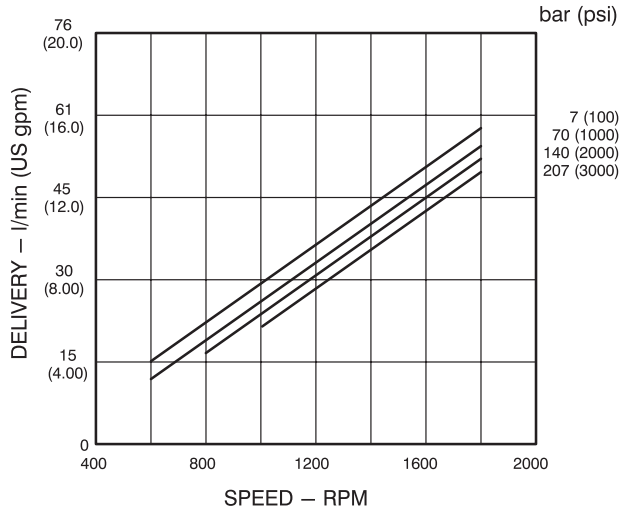
167 – 2-bolt, 5.00" dia. pilot
(25V only - N/A for VS or VM
models)

Note: For options other than listed in the model code, i.e. shafts, ports, displacements and mountings, contact your Vickers representative.

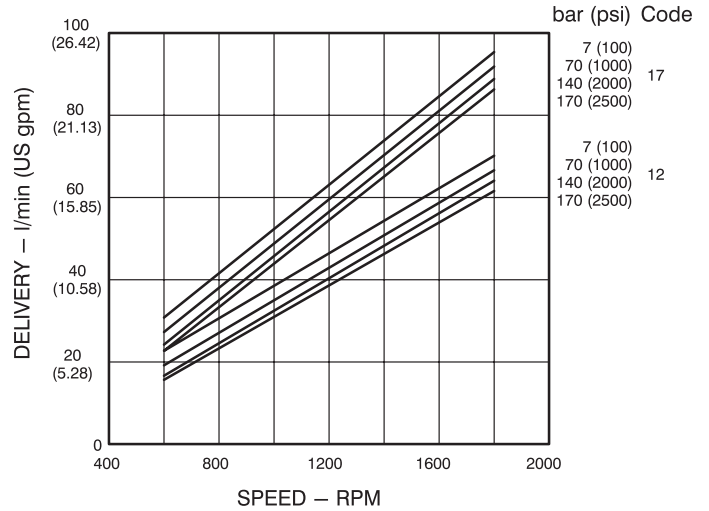
25V(T), 25**V, & **25V Performance Characteristics

25V(T), 25**V, and **25V

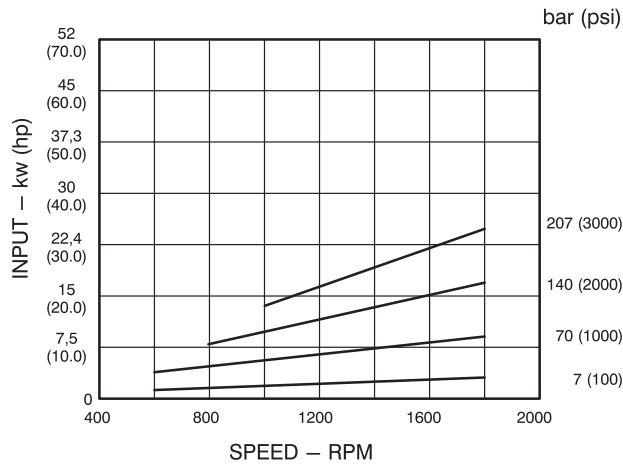
Code 10 Displacement



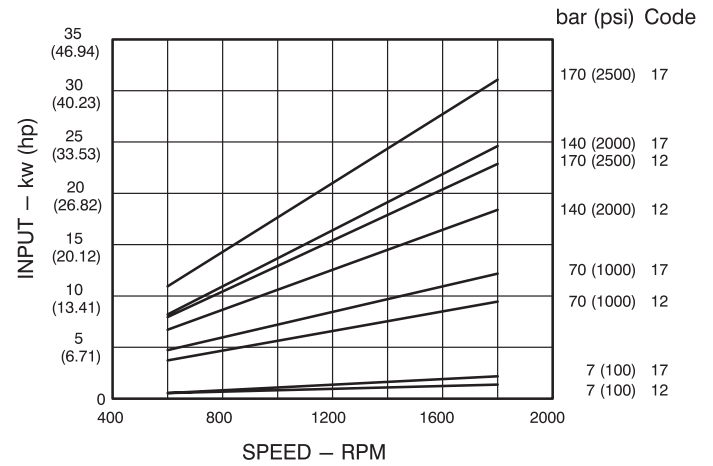
Codes 12 and 17 Displacement



Code 10 Input



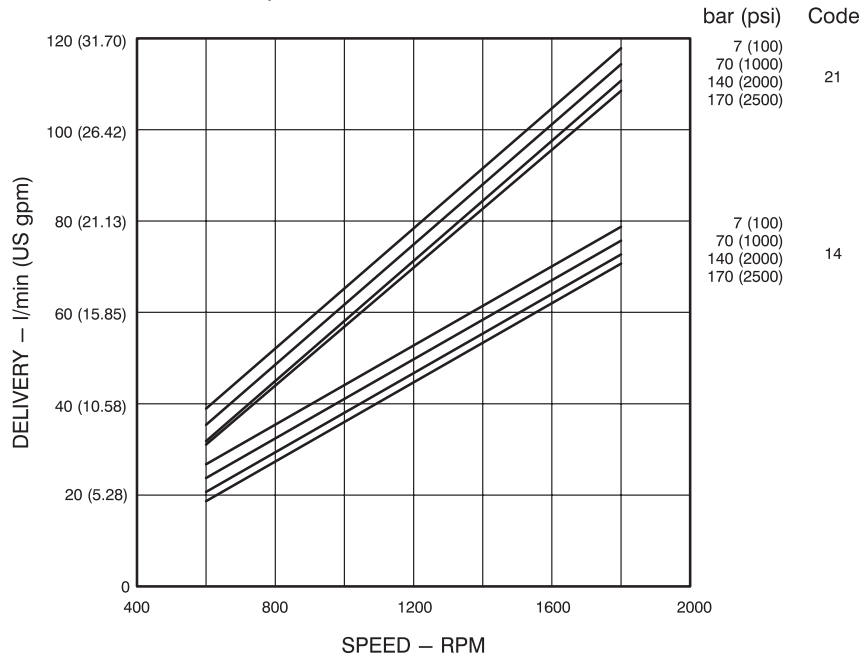
Codes 12 and 17 Input



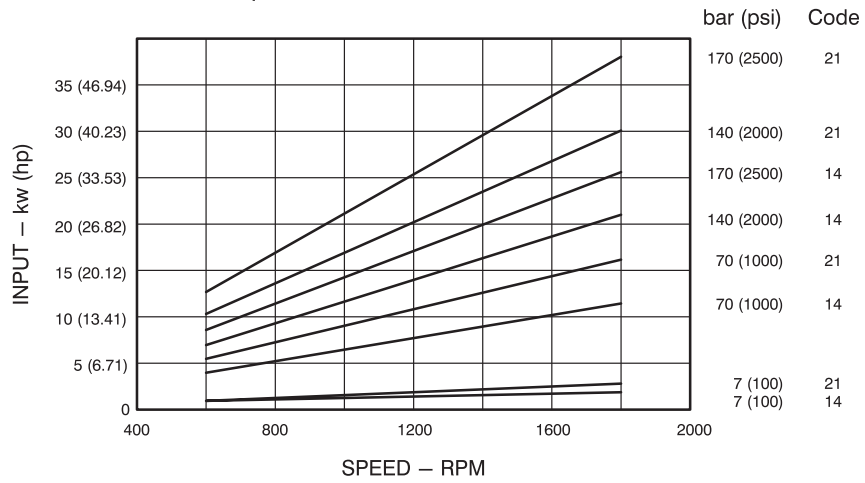
25V(T), 25**V, & **25V

Performance Characteristics

Codes 14 and 21 Displacement

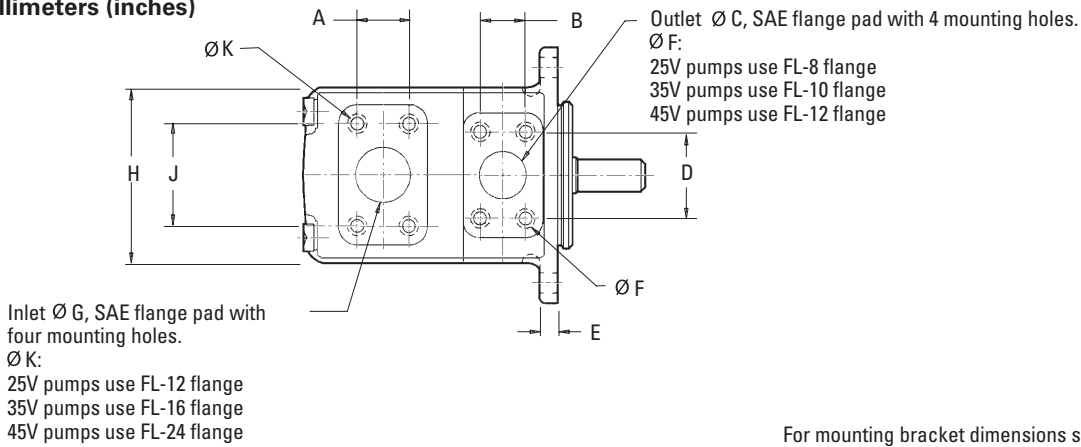


Codes 14 and 21 Input

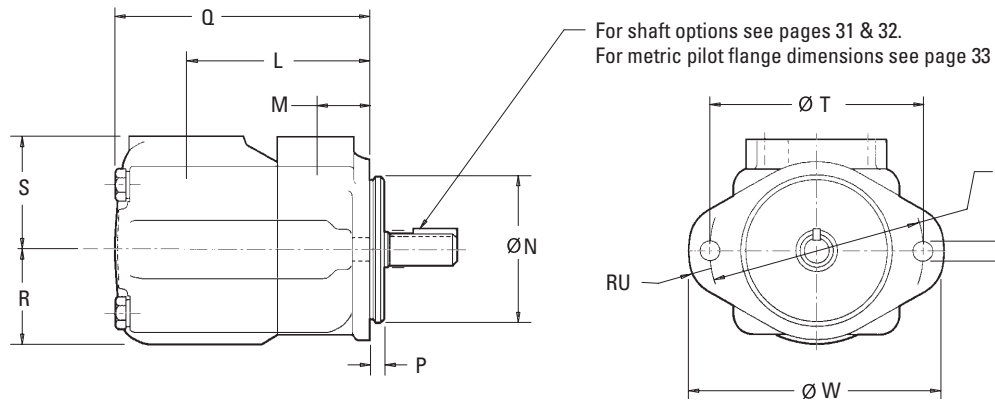


25V, 35V, 45V Installation Dimensions

25V, 35V and 45V Single Pumps Millimeters (inches)



For mounting bracket dimensions see page 36.



Model	Ø F x full thread depth, 4 holes	Ø K x full thread depth, 4 holes
25V(*)-**AM	M10 x 19,0 (0.75) deep	M12 x 23,8 (0.94) deep
25V(*)-**A	3/8"-16UNC-2B x 19 (0.75) deep	1/2"-13UNC-2B x 23,8 (0.94) deep
35V(*)-**AM	M12 x 22,3 (0.88) deep	M12x22,3 (0.88) deep
35V(*)-**A	0.43"-14UNC-2B x 22,3 (0.88) deep	1/2"-13UNC-2B x 22,3 (0.88) deep
45V(*)-**AM	M12 x 23,8 (0.94) deep	M16 x 30 (1.18) deep
45V(*)-**A	1/2"-13UNC-2B x 23,8 (0.94) deep	5/8"-11UNC-2B x 30 (1.18) deep

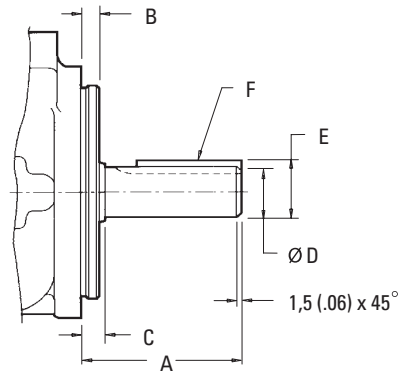
Model	A	B	Ø C	D	E	Ø G	H	J	L	L for (**VS & **VM)	M	Ø N	P	P for (**VS)	P for (**VM)
25V	35,7 (1.41)	26,2 (1.03)	25,4 (1.00)	52,4 (2.06)	12,7 (0.50)	38,1 (1.50)	118 (4.62)	69,9 (2.75)	121 (4.76)	149 (5.88)	38,1 (1.50)	101,6 (4.00) 101,5 (3.99)	9,53 (0.38)	9,53 (0.38)	9,25 (.364)
35V	42,9 (1.69)	30,2 (1.19)	31,8 (1.25)	58,7 (2.31)	16 (0.63)	50,8 (2.00)	140 (5.50)	77,8 (3.06)	125,5 (4.94)	133,4 (5.25)	38,1 (1.50)	127,0 (5.00) 126,9 (4.99)	9,53 (0.38)	12,7 (0.50)	9,11 (.359)
45V	61,9 (2.43)	35,7 (1.41)	38,1 (1.50)	69,9 (2.75)	16 (0.63)	76,2 (3.00)	159 (6.25)	106,4 (4.19)	153 (6.03)	164 (6.44)	43 (1.69)	127,0 (5.00) 126,9 (4.99)	12,7 (0.50)	12,7 (0.50)	9,11 (.359)

Model	Q	Q for (**VS)	Q for (**VM)	R	S	Ø T	RU	Ø V	Ø W	Ø X
25V	162,1 (6.38)	171,7 (6.76)	171,7 (6.76)	63,5 (2.50)	76,2 (3.00)	146 (5.75)	14 (0.55)	14,2 (0.56)	175 (6.88)	121 (4.76)
35V	185 (7.28)	193 (7.59)	193 (7.59)	69,9 (2.75)	82,6 (3.25)	181 (7.13)	16 (0.63)	17,5 (0.69)	213 (8.38)	148 (5.83)
45V	216 (8.50)	226 (8.91)	226 (8.91)	82,6 (3.25)	93,7 (3.69)	181 (7.13)	16 (0.63)	17,5 (0.69)	213 (8.38)	148 (5.83)

Optional Shafts

Straight Key Shafts

Thru-drive shafts, see pages 34.



Pump	Shaft Code	A	B	C	øD	E	F key width x length
20V	1	59 (2.32)	9,53 (.375)	12,1 (.476)	22,23 (.875) 22,20 (.874)	24,5 (.966) 24,4 (.961)	4,75 (.817) x 32 (1.25)
25V 2520V	1	59 (2.32)	9,53 (.375)	11,1 (.435)	22,23 (.875) 22,20 (.874)	24,5 (.966) 24,4 (.961)	4,75 (.817) x 32 (1.25)
25V 252*V	86	78 (3.06)	9,53 (.375)	11,1 (.435)	25,37 (.999) 25,35 (.998)	28,3 (1.11) 28,1 (1.10)	6,36 (.250) x 50,8 (2.00)
25VM 252*VM 25VT*M	292N	52,3 (2.06)	9,25 (.364)	10,4 (.41)	25,02 (.985) 25,00 (.984)	28,02 (1.10) 27,81 (1.09)	8,00 (.314) x 28 (1.10)
25VT*S 25VS	202	71,4 (2.81)	9,53 (.375)	7,9 (.310) ▲	22,23 (.875) 22,20 (.874)	25,15 (.990) 24,90 (.980)	6,36 (.250) x 50,8 (2.00)
252*VS	203	77,7 (3.06)	9,53 (.375)	7,9 (.310) ▲	25,40 (1.00) 25,35 (.998)	28,20 (1.11) 27,94 (1.10)	6,36 (.250) x 50,8 (2.00)
35V 352*V	1	73,2 (2.88)	9,53 (.375)	11,1 (.435)	31,75 (1.25) 31,70 (1.24)	35,36 (1.39) 34,10 (1.38)	7,94 (.313) x 38,1 (1.50)
	86	86 (3.88)	9,53 (.375)	11,1 (.435)	34,90 (1.374) 34,87 (1.373)	38,6 (1.52) 38,3 (1.51)	7,92 (.312) x 54 (2.13)
35VM 352*VM 35VT*M	292N	68,4 (2.70)	9,12 (.359)	10,4 (.41)	37,01 (1.457) 36,75 (1.447)	35,00 (1.378) 34,80 (1.370)	10 (.394) x 45 (1.77)
35VS 352*VS	202	84,1 (3.31)	12,7 (.50)	10,4 (.41)	31,75 (1.25) 31,70 (1.24)	35,36 (1.39) 34,10 (1.38)	7,94 (.313) x 45 (1.77)
35VT*S 35VS 352*VS	203	84,1 (3.31)	12,7 (.50)	7,9 (.310) ▲	34,90 (1.374) 34,87 (1.373)	38,56 (1.518) 38,30 (1.508)	7,92 (.312) x 54 (2.125)
45V 45**V	1	62 (2.44)	12,7 (.500)	14,22 (.560)	31,75 (1.25) 31,70 (1.24)	35,36 (1.39) 34,10 (1.38)	7,92 (.312) x 28,5 (1.12)
	86	87,4 (3.44)	12,7 (.500)	14,22 (.560)	38,07 (1.499) 38,05 (1.498)	42,4 (1.67) 42,1 (1.66)	9,53 (.375) x 50,8 (2.00)
45VS 45**VS	202	84,1 (3.31)	12,7 (.500)	14,22 (.560)	31,75 (1.25) 31,70 (1.24)	35,36 (1.39) 34,10 (1.38)	7,94 (.313) x 63 (2.48)
45VM 452*VM 45VT*M	292N	92 (3.62)	9,12 (.359)	10,0 (.394)	40,01 (1.575) 39,99 (1.574)	43,0 (1.693) 42,8 (1.685)	12 (.472) x 63 (2.48)
45VT*S 45VS 45**VS	203	87,4 (3.44)	9,14 (.360)	7,9 (.310) ▲	38,07 (1.499) 38,05 (1.498)	42,4 (1.67) 42,1 (1.66)	9,53 (.375) x 57,1 (2.25)

▲ Shaft shoulder inside recess in pilot.