DATA SHEET

ORDERING CODE

F3 VS 25 21 D 1 A 00

F3 - SPECIAL SEALS FOR FIRE-RESISTANT FLUIDS.
Omit if not required

PUMP TYPE
VC = 12 vane pump
VC10, VC20
Mobile and industrial use

VK = 10 vane pump
VK20
Industrial use, unc threads.

VS = 12 vane pump
VS25, VS35, VS45
Industrial use (very quiet), UNC threads

VQ = 10 vane pump
Bronze plates
VQ20, VQ25, VQ35, VQ45, VS25, VS35, VS45
Mobile use, UNC threads

PUMP MODEL
VC10, VC20; VK20, VQ20; VS25, VQ25; VS35, VQ35; VS45, VQ45

FLOW
VC ,VS and **VQ**
Gallons per minute
@1200 rpm and 7 bar

SPECIAL CHARACTERISTICS
Omit if not required
02: BSP
03: UNF
04: NPT

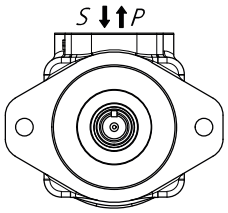
PORTING COMBINATION
A: Outlet in line with inlet.
B: 90° clockwise from inlet.
C: 180° from inlet.
D: 90° counterclockwise from inlet.
Viewed from shaft end of pump

SHAFT TYPE
See shaft options on pump dimension pages.

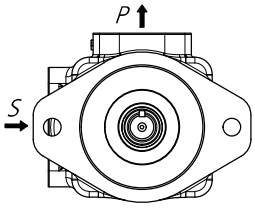
ROTATION
D = Clockwise rotation.
Y = Counterclockwise
Viewed from shaft end of pump

PORTING COMBINATION

A



B



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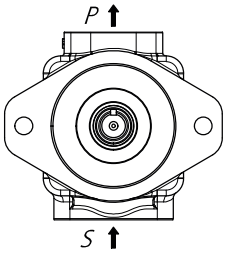
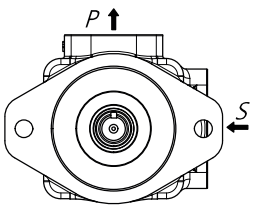


D



CHARACTERISTICS

TYPE	FLOW			SPEED(rpm)		PRESSURE (bar)		NOMINAL POWER	CONNECTION		WEIGHT
VICKERS	L @ 1000RPM	GAL. @ 1200RPM	REDUC-TION (1)	MIN	MAX	CONT	INTERMIT	(2)	INLET	OUTLET	KG
VC10	3	1	0,8	600	4800	155	180	0,7	(3)	(3)	4,5
	6	2	0,9		4500			1,4			
	9	3	1,2		4000			2,1			
	13	4	1,6		3400			2,7			
	16	5	1,7		3400			3,2			
	19	6	1,8		3000			3,7			
	22	7	1,9		2800	140		4,2			
VC20	19	6	2,8	600	3400	155	180	3,9	(3)	(3)	7,3
	22	7	4,2		3000			4,4			
	26	8	4,5		2800			5,1			
	29	9	4,8		2800			5,6			
	36	11	4,8		2500			6,5			
	39	12	5,4		2400			7,5			
	42	13	6,0		2400	140		8,1			
VQ20 VK20	8	2	0,9	600	2600	175	210	1,9	Ø 1 ½"	Ø ¾"	12
	18	5	2,1					4			
	27	8	2,8					6,6			
	29	9	3,5					6,9			
	36	11	4,3					7,3			
	39	12	4,3					7,4			
	46	14	5,3					7,6			
VQ25 VS25	32	10	5,1	600	2500 1800 (VS)	175	210	8,6	Ø 1 ½"	Ø 1"	15
	40	12	5,7					10,4			
	45	14	5,7					11,6			
	55	17	5,8					13,8			
	60	19	5,8					14,6			
	67	21	6					16,8			
	80	25	6,2		1500	125	150	20,3			
VQ35 VS35	66	21	8,6	600	2400 1800 (VS)	175	210	16,8	Ø 2"	Ø 1 1/4"	23
	81	25	9					20,3			
	97	30	10					24,3			
	112	35	11,4					27,4			
	121	38	11,4					29,3			
	142	45	13,1		1500	125	150	33,3			
VQ45 VS45	138	42	15	600	2200 1800 (VS)	155	175	32,3	Ø 3"	Ø 1 ½"	35,5
	148	45	15,7					36,3			
	162	50	14,3					37,9			
	180	57	17,9					43,2			
	193	60	18,6					46,1			
	214	67	22					51,2			
	240	75	26					57,4			

(1) Delivery flow reduction in Ltrs./min. at 100 Bar. 22 cST of oil viscosity at operating temperature. To calculate the approximate delivery flow at a given pressure and speed, use the following formula with flow reduction and theoretical flow values shown in the chart. Flow reduction values are independent of shaft speed.

$$\text{Approx. output flow (Ltrs./min.)} = \text{Theoretical flow} \times \frac{\text{R.P.M}}{1000} - \text{Reduction} \times \frac{\text{Pressure (Bar)}}{1000}$$

(2) Nominal Power in H.P. at 100 Bar and 1000 RPM (to convert into Kw multiply by 0.735).
To obtain the real input power at different pressure and revolutions, use the formula as follows:

$$\text{Real input power} = \text{Input power} \times \frac{\text{R.P.M}}{1000} \times \frac{\text{Pressure (Bar)}}{1000}$$

(3) See options on dimension pages.

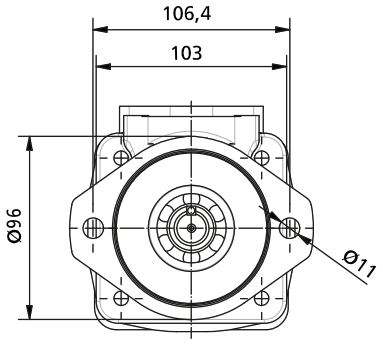
DATA SHEET

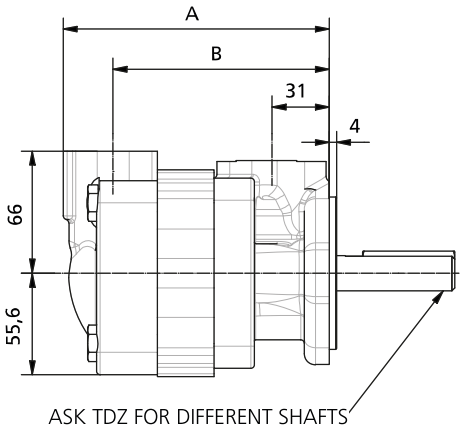
VC-20 DIMENSIONS

DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm

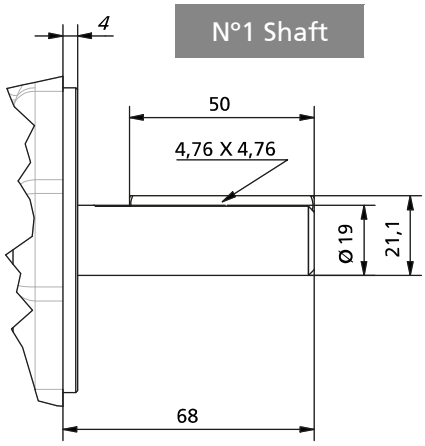
FLOW			SPEED(rpm)		PRESSURE (bar)		NOMINAL POWER	CONNECTION		WEIGHT
L @ 1000RPM	GAL. @ 1200RPM	REDUC-TION (1)	MIN	MAX*	CONT*	INTERMIT*	(2)	INLET	OUTLET	KG
19	6	2,8	600	3400	155	180	3,9	1 ¼" NPT 1 ¼" BSP 1 ⅝" 12 UNF	¾" NPT ¾" BSP 1 1/16" UNF	7,3
22	7	4,2		3000			4,4			
26	8	4,5		2800			5,1			
29	9	4,8		2800			5,6			
36	11	4,8		2500			6,5			
39	12	5,4		2400			7,5			
42	13	6,0		2400	140		8,1			

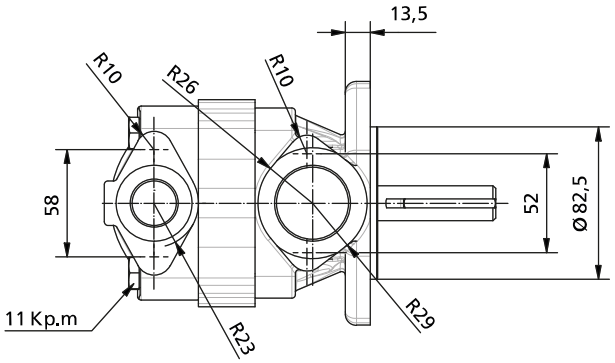
* See page 27





N°1 Shaft





GAL.	DIMENSIONS	
	A	B
6	125,2	102,1
7, 8, 9	131,6	108,4
11	136,7	113,5
12, 13	140,2	117,1

THREAD OPTIONS		
NUM.	INLET	OUTLET
2	1 1/4" BSP	¾" BSP
3	1 5/8" 12 UNF	1" 1/16 UNF
4	1 1/4" NPT	¾" NPT

VC-20

FLOW AND INPUT POWER DIAGRAMS

Max. pressure (180 bar) Min. Pressure (7 bar)