

Denison Hydraulics

hydraulic vane pumps

single and double

SDV10 – SDV20 – SDV2010 – SDV2020



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DENISON Hydraulics

www.denisonhydraulics.com

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GENERAL APPLICATIONS INSTRUCTIONS	1. Check speed range, pressure, temperature, fluid quality, viscosity and pump rotation.	
	2. Check inlet conditions of the pump, if it can accept application requirement.	
	3. Type of shaft : if it would support operating torque.	
	4. Coupling must be chosen to minimize pump shaft load (weight, misalignment).	
	5. Filtration : must be adequate for lowest contamination level.	
	6. Environment of pump : avoid noise reflection, pollution and shocks.	

TECHNICAL DATA

MINIMUM AND MAXIMUM SPEED, PRESSURE RATINGS

Series	Size	Theoretical Displacement Vi cm ³ /rev (in ³ /rev)	Maximum speed		Maximum pressure			
			HF-0, HF-1 HF-2	HF-3, HF-4 HF-5	HF-0, HF-2		HF-1, HF-4, HF-5	HF-3
			RPM	RPM	Int.	Cont.	Cont	Cont.
			Bar (psi)	Bar (psi)	Bar (psi)	Bar (psi)	Bar (psi)	Bar (psi)
SDV10	1	3,3 (.20)	4200	1800	175 (2500)	160 (2250)	130 (1900)	100 (1500)
	2	6,6 (.40)	4200	1800	175 (2500)	160 (2250)	130 (1900)	100 (1500)
	3	9,8 (.60)	3900	1800	175 (2500)	160 (2250)	130 (1900)	100 (1500)
	4	13,1 (.80)	3000	1800	175 (2500)	160 (2250)	130 (1900)	100 (1500)
	5	16,4 (1.00)	2400	1800	175 (2500)	160 (2250)	130 (1900)	100 (1500)
	6	19,5 (1.19)	2100	1800	150 (2200)	140 (2000)	130 (1900)	100 (1500)
	7	22,8 (1.39)	1800	1800	140 (2000)	140 (2000)	130 (1900)	100 (1500)
SDV20	6	19,5 (1.19)	3600	1800	175 (2500)	160 (2250)	130 (1900)	110 (1600)
	7	22,8 (1.39)	2700	1800	175 (2500)	160 (2250)	130 (1900)	110 (1600)
	8	26,5 (1.62)	2400	1800	175 (2500)	160 (2250)	130 (1900)	110 (1600)
	9	29,7 (1.81)	2100	1800	175 (2500)	160 (2250)	130 (1900)	110 (1600)
	11	36,4 (2.22)	1800	1800	175 (2500)	160 (2250)	110 (1600)	100 (1400)
	12	39,0 (2.38)	1800	1800	150 (2200)	140 (2000)	110 (1600)	100 (1400)
	13	42,4 (2.59)	1800	1800	150 (2200)	140 (2000)	110 (1600)	100 (1400)

HF-0, HF-2 = Anti-wear petroleum base. HF-1 = Non anti-wear petroleum base. HF-5 = Synthetic fluids.

HF-3 = Water-in-oil invert emulsions. HF-4 = Water glycol solutions.

For further information, if the performance characteristics outlined above do not meet your own particular requirements, please consult your local DENISON Hydraulics office.

MINIMUM ALLOWABLE INLET PRESSURE (BAR ABSOLUTE / PSI)

Series	Size	Speed RPM										Size
		1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	
SDV10	1	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	1
	2	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	2
	3	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,85 (12.3)	0,95 (13.8)		3
	4	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,85 (12.3)	0,95 (13.8)					4
	5	0,80 (11.6)	0,80 (11.6)	0,85 (12.3)	0,95 (13.8)							5
	6	0,80 (11.6)	0,85 (12.3)	1,00 (14.5)								6
	7	0,85 (12.3)	1,00 (14.5)									7
SDV20	6	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,85 (12.3)	0,95 (13.8)	1,01 (14.6)			6
	7	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)	0,80 (11.6)						7
	8	0,80 (11.6)	0,80 (11.6)	0,85 (12.3)	0,95 (13.8)							8
	9	0,80 (11.6)	0,80 (11.6)	0,95 (13.8)								9
	11	0,80 (11.6)	0,95 (13.8)									11
	12	0,85 (12.3)	1,03 (14.9)									12
	13	0,95 (13.8)	1,05 (15.2)									13

Multiply absolute pressure by 1,25 for HF-3, HF-4 fluids.

by 1,35 for HF-5 fluids.

by 1,10 for ester or rapeseed base.

Use the cartridge with the highest absolute pressure for double pumps.

GENERAL CHARACTERISTICS

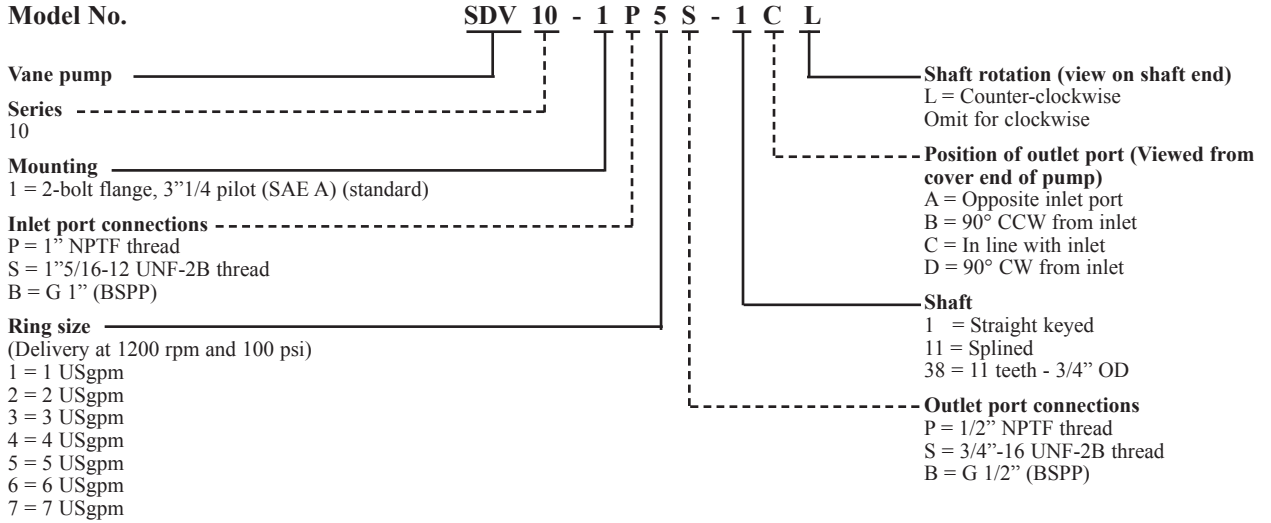
Series	Mounting standard	Weight kg (lb)	Moment of inertia kgm ² x 10 ⁻⁴ (lb.in ²)	Port connections					
				Suction			Pressure		
Code				P	S	B	P	S	B
SDV10	SAE A	4,5 – 6,8 (10 – 15)	0,5 (0.17)	1" NPTF	1"5/16 12UNF-2B	G 1"	1/2" NPTF	3/4" 16UNF-2B	G 1/2"
SDV20	SAE A	7,3 – 8,2 (16 – 18)	2,2 (0.75)	1"1/4 NPTF	1"5/8 12UNF-2B	G 1"1/4	3/4" NPTF	1"1/16 12UNF-2B	G 3/4"
Code				F			S		
							P1*	P2**	P1-P2
SDV2010	SAE B	13,6 (30.0)	2,6 (0.90)	4 bolts flange 1"1/2 dia			1"1/16 12UNF-2B	3/4" 16UNF-2B	***
SDV2020	SAE B	15,9 (35.0)	4,3 (1.50)	4 bolts flange 2" dia			1"1/16 12UNF-2B	1"1/16 12UNF-2B	G 3/4"

* P1 = Pressure port near the shaft

** P2 = Pressure port near the cover end

*** P1 = G 3/4" P2 = G 1/2"

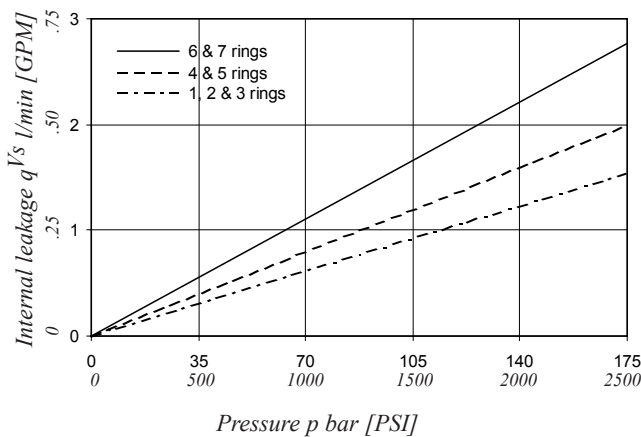
Model No.



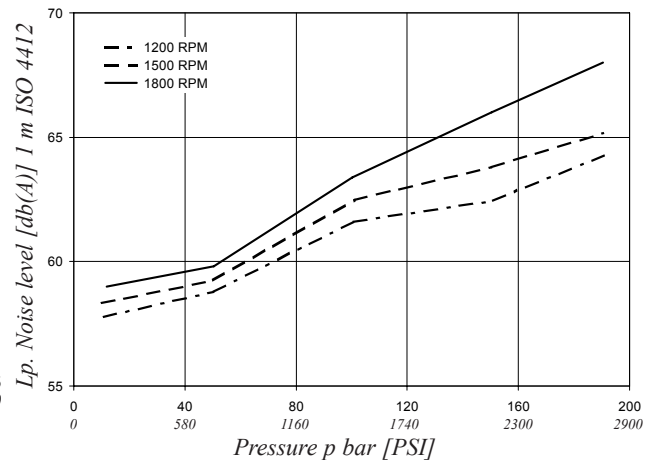
OPERATING CHARACTERISTICS

Model Series	Ring Size	Displ. cm ³ /rev (in ³ /rev)	Max. Pressure bar (psi)	Speed RPM	Typical delivery L/min (USgpm)				Typical input power KW (hp)			
					0 bar	0 PSI	150 bar	2000 PSI	7 bar	80 PSI	175 bar	2500 PSI
SDV10	1	3,3 (.20)	175 (2500)	1200	4,0	1,0	2,0	0,5	0,07	0,09	0,71	0,96
				1500	5,0	1,3	3,0	0,8	0,09	0,12	1,08	1,44
				1800	5,9	1,6	3,9	1,0	0,10	0,14	1,44	1,93
	2	6,6 (.40)	175 (2500)	1200	7,9	2,1	5,9	1,6	0,14	0,18	2,16	2,89
				1500	9,9	2,6	7,9	2,1	0,17	0,23	2,88	3,86
				1800	11,9	3,1	9,9	2,6	0,21	0,28	3,60	4,83
	3	9,8 (.60)	175 (2500)	1200	11,8	3,1	9,8	2,6	0,20	0,27	3,56	4,77
				1500	14,7	3,9	12,7	3,4	0,26	0,34	4,63	6,21
				1800	17,6	4,7	15,6	4,1	0,31	0,41	5,70	7,65
	4	13,1 (.80)	175 (2500)	1200	15,7	4,2	12,3	3,3	0,27	0,37	4,49	6,02
				1500	19,7	5,2	16,3	4,3	0,34	0,46	5,92	7,94
				1800	23,6	6,2	20,2	5,3	0,41	0,55	7,36	9,87
	5	16,4 (1.00)	175 (2500)	1200	19,7	5,2	16,3	4,3	0,34	0,46	5,94	7,96
				1500	24,6	6,5	21,2	5,6	0,43	0,57	7,73	10,36
				1800	29,5	7,8	26,1	6,9	0,51	0,69	9,52	12,77
	6	19,5 (1.19)	152 (2200)	1200	23,4	6,2	19,2	5,1	0,41	0,55	7,00	9,39
				1500	29,3	7,7	25,1	6,6	0,51	0,68	9,13	12,25
				1800	35,1	9,3	30,9	8,2	0,61	0,82	11,27	15,11
	7	22,8 (1.39)	138 (2000)	1200	27,4	7,2	23,2	6,1	0,48	0,64	8,44	11,32
				1500	34,2	9,0	30,0	7,9	0,60	0,80	10,94	14,67
				1800	41,0	10,8	36,8	9,7	0,71	0,96	13,43	18,01

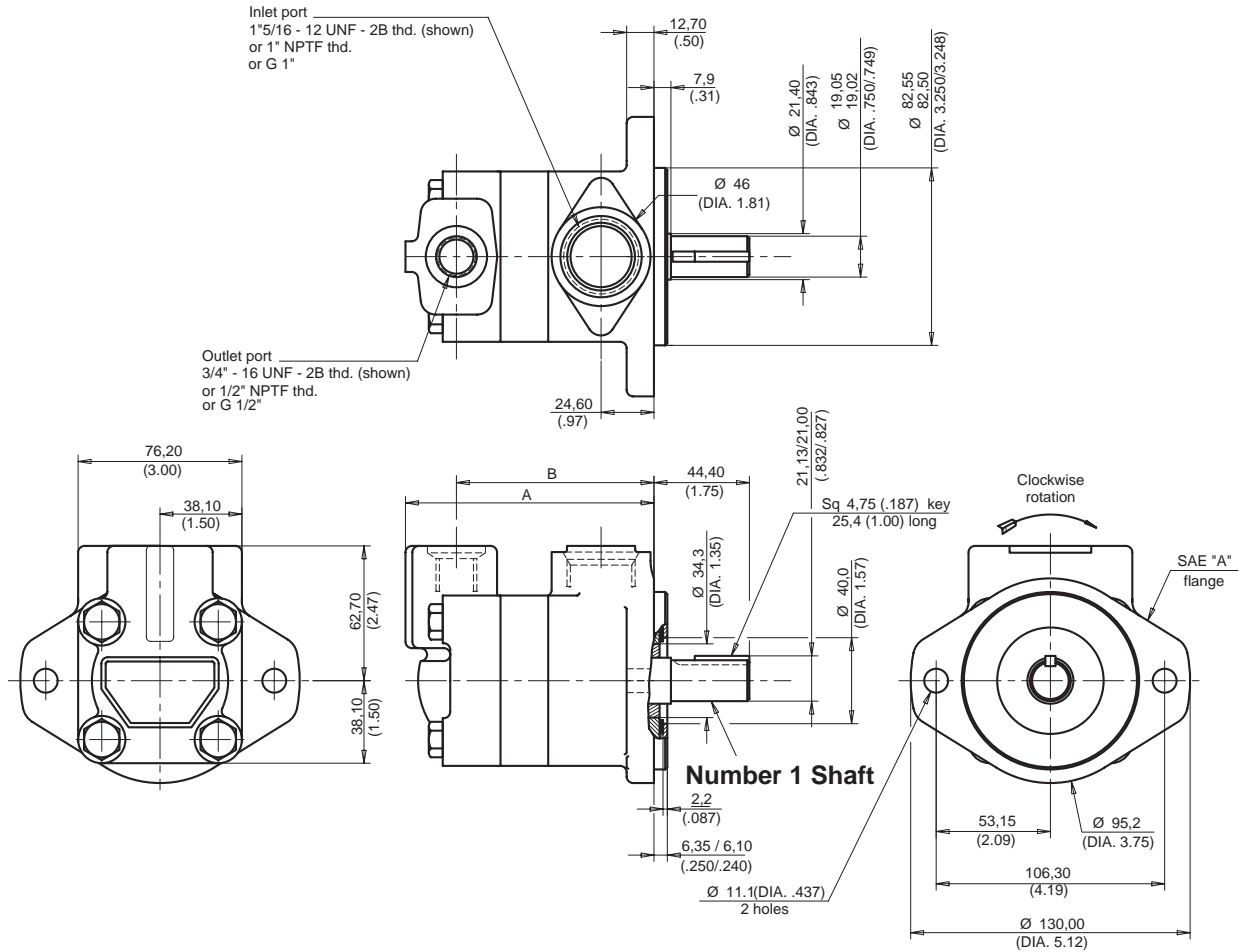
INTERNAL LEAKAGE (TYPICAL)



**NOISE LEVEL (TYPICAL)
SDV10 - 6**



Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.



Ring size	Dimensions		Weight Kg (lb)
	A	B	
1	115,6 (4.55)	91,9 (3.62)	4,5 - (10.0)
2	115,6 (4.55)	91,9 (3.62)	4,5 - (10.0)
3	115,6 (4.55)	91,9 (3.62)	4,5 - (10.0)
4	121,9 (4.80)	98,3 (3.87)	5,6 - (12.5)
5	121,9 (4.80)	98,3 (3.87)	5,6 - (12.5)
6	127,0 (5.00)	103,4 (4.07)	6,8 - (15.0)
7	127,0 (5.00)	103,4 (4.07)	6,8 - (15.0)

Model No.

SDV 20 - 1 P 8 S - 1 C L

Vane pump

Series

Mounting

Inlet port connections

P = 1"1/4 NPTF thread
S = 1"5/8 - 12 UNF-2B thread
B = G 1"1/4 (BSPP)

Ring size

(Delivery at 1200 rpm and 100 psi)

- 6 = 6 USgpm
- 7 = 7 USgpm
- 8 = 8 USgpm
- 9 = 9 USgpm
- 10 = 10 USgpm
- 11 = 11 USgpm
- 12 = 12 USgpm
- 13 = 13 USgpm

Shaft rotation (view on shaft end)
L = Counter-clockwise
Omit for clockwise

Position of outlet port (Viewed from cover end of pump)
A = Opposite inlet port
B = 90° CCW from inlet
C = In line with inlet
D = 90° CW from inlet

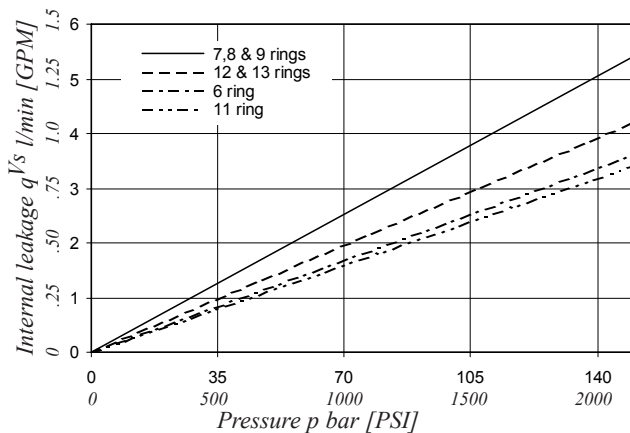
Shaft
1 = Straight keyed
11 = Splined
38 = 11 teeth - 3/4" OD
62 = Splined

Outlet port connections
P = 3/4" NPTF thread
S = 1"1/16 - 12 UNF-2B thread
B = G 3/4" (BSPP)

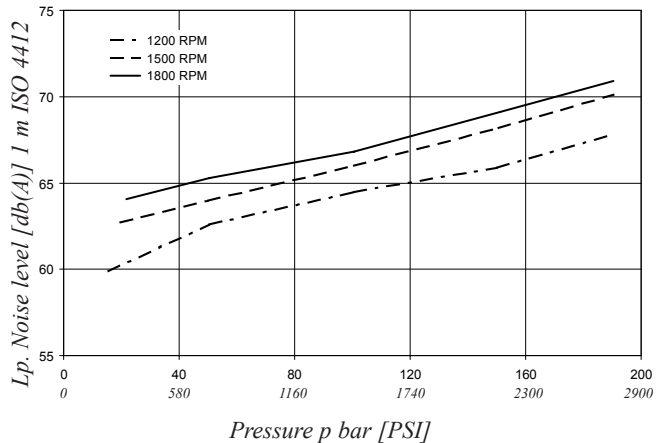
OPERATING CHARACTERISTICS

Model Series	Ring Size	Displ. cm ³ /rev (in ³ /rev)	Max. Pressure bar (psi)	Speed RPM	Typical delivery L/min (Usqpm)				Typical input power KW (hp)			
					0 bar	0 PSI	150 bar	2000 PSI	7 bar	80 PSI	175 bar	2500 PSI
SDV20	6	19,5 (1.19)	175 (2500)	1200	23,40	6,18	19,80	5,23	0,4	0,5	6,8	9,1
				1500	29,25	7,73	25,65	6,78	0,5	0,6	8,8	11,8
				1800	35,10	9,27	31,50	8,32	0,5	0,7	10,8	14,5
	7	22,8 (1.39)	175 (2500)	1200	27,36	7,23	21,96	5,80	0,4	0,6	7,5	10,1
				1500	34,20	9,04	28,80	7,61	0,5	0,7	9,9	13,3
				1800	41,04	10,84	35,64	9,42	0,6	0,9	12,2	16,4
	8	26,5 (1.62)	175 (2500)	1200	31,80	8,40	26,40	6,97	0,5	0,7	9,1	12,1
				1500	39,75	10,50	34,35	9,08	0,6	0,8	11,8	15,8
				1800	47,70	12,60	42,30	11,18	0,7	1,0	14,5	19,5
	9	29,7 (1.81)	175 (2500)	1200	35,64	9,42	30,24	7,99	0,6	0,7	10,4	13,9
				1500	44,55	11,77	39,15	10,34	0,7	0,9	13,4	18,0
				1800	53,46	14,12	48,06	12,70	0,8	1,1	16,5	22,1
	11	36,4 (2.22)	175 (2500)	1200	43,68	11,54	40,28	10,64	0,7	0,9	13,8	18,5
				1500	54,60	14,43	51,20	13,53	0,8	1,1	17,6	23,6
				1800	65,52	17,31	62,12	16,41	1,0	1,4	21,3	28,6
	12	39,0 (2.38)	152 (2200)	1200	46,80	12,36	42,60	11,25	0,7	1,0	14,6	19,6
				1500	58,50	15,46	54,30	14,35	0,9	1,2	18,6	25,0
				1800	70,20	18,55	66,00	17,44	1,1	1,5	22,6	30,4
	13	42,4 (2.59)	152 (2200)	1200	50,88	13,44	46,68	12,33	0,8	1,1	16,0	21,5
				1500	63,60	16,80	59,40	15,69	1,0	1,3	20,4	27,3
				1800	76,32	20,16	72,12	19,05	1,2	1,6	24,7	33,2

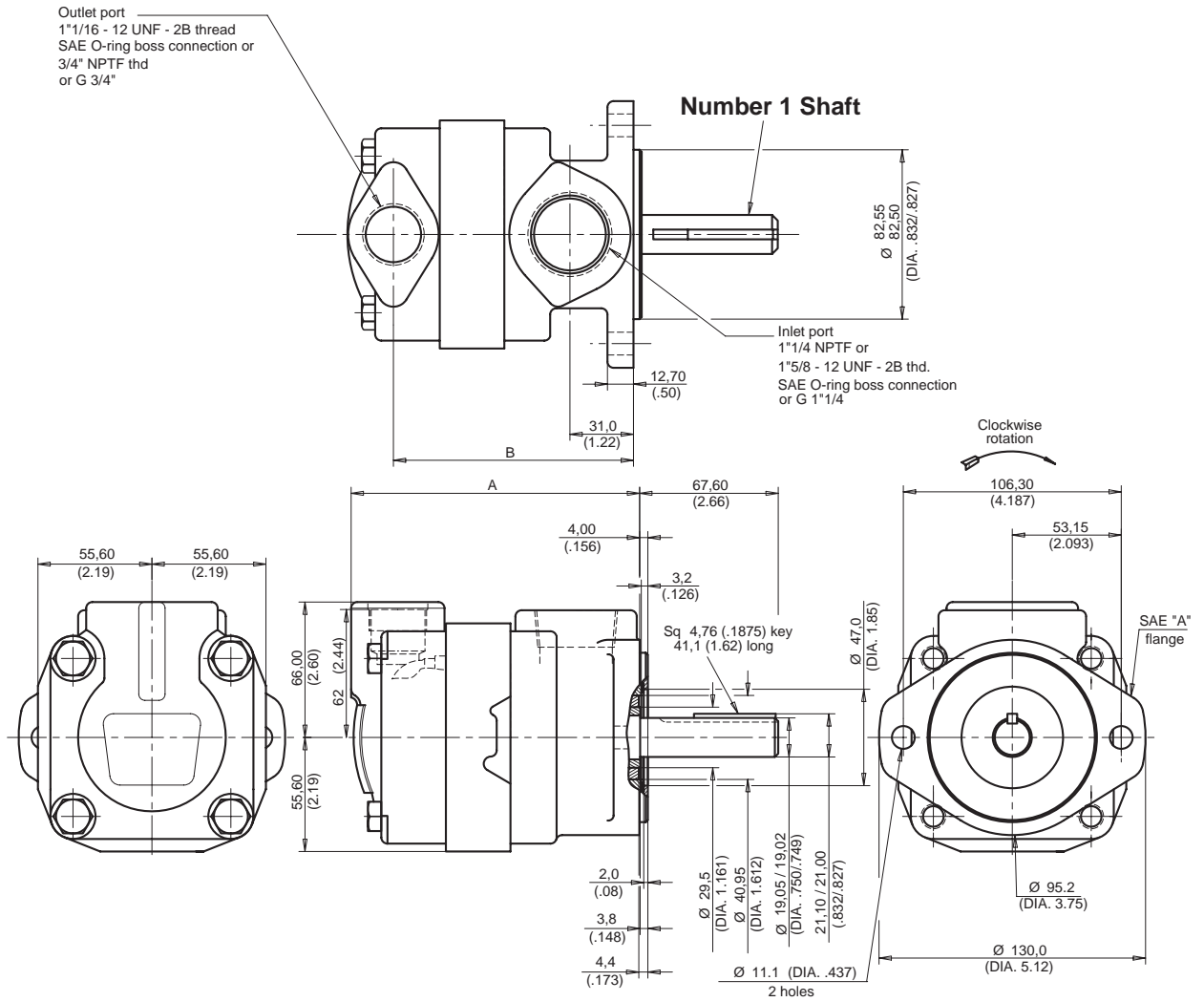
INTERNAL LEAKAGE (TYPICAL)



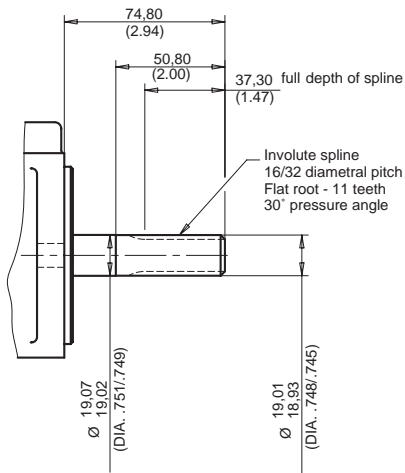
**NOISE LEVEL (TYPICAL)
SDV20 - 13**



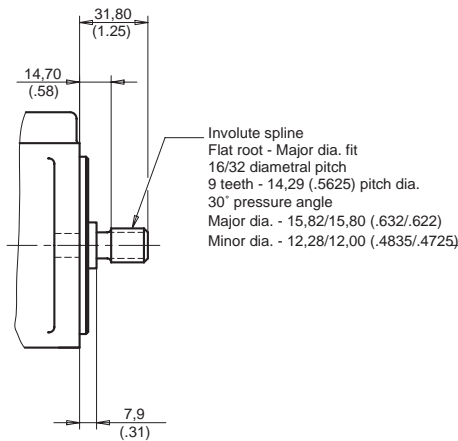
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.



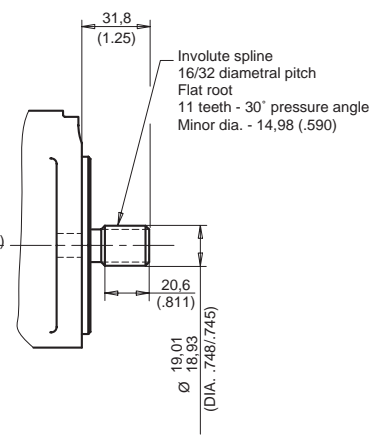
Number 11 shaft



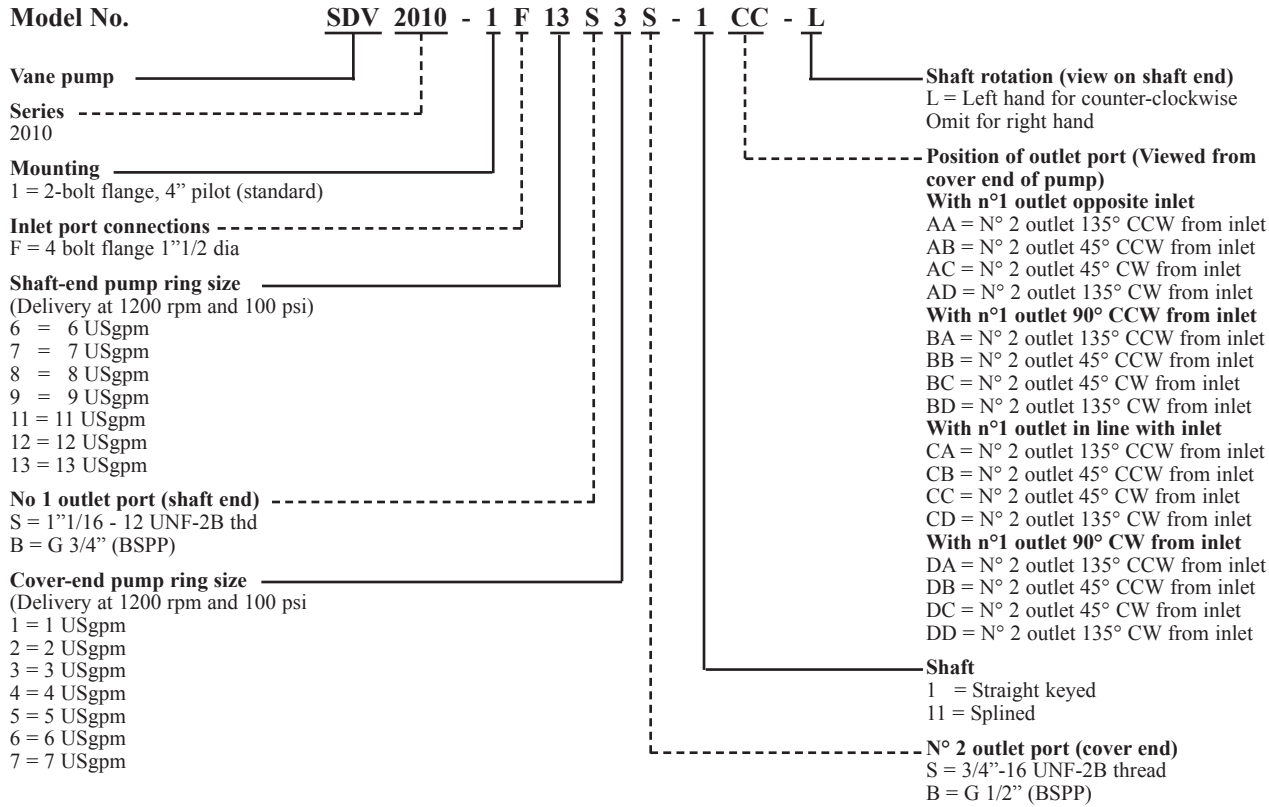
Number 62 shaft



Number 38 shaft



Ring size	Dimensions		Weight Kg (lb)
	A	B	
6	125,2 (4.93)	102,1 (4.02)	7,3 - (16.0)
7	131,6 (5.18)	108,4 (4.27)	7,7 - (17.0)
8	131,6 (5.18)	108,4 (4.27)	7,7 - (17.0)
9	131,6 (5.18)	108,4 (4.27)	7,7 - (17.0)
11	136,6 (5.38)	113,5 (4.47)	8,0 - (17.5)
12	140,2 (5.52)	117,1 (4.61)	8,2 - (18.0)
13	140,2 (5.52)	117,1 (4.61)	8,2 - (18.0)

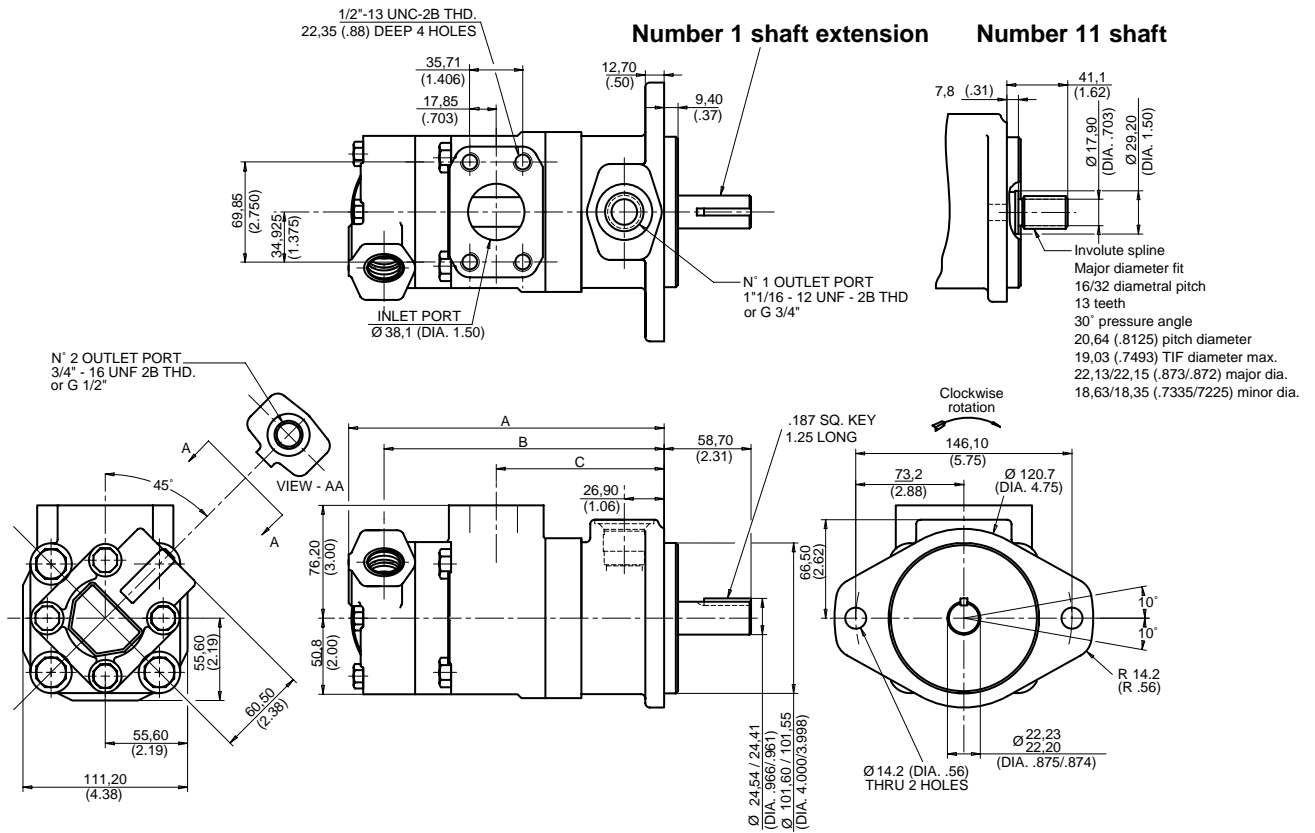


OPERATING CHARACTERISTICS

Model Series	Ring Size	Displ. cm ³ /rev (in ³ /rev)	Max. Pressure bar (psi)
P1	6	19,5 (1.19)	175 (2500)
	7	22,8 (1.39)	175 (2500)
	8	26,5 (1.62)	175 (2500)
	9	29,7 (1.81)	175 (2500)
	11	36,4 (2.22)	175 (2500)
	12	39,0 (2.38)	152 (2200)
P2	1	3,3 (.20)	175 (2500)
	2	6,6 (.40)	175 (2500)
	3	9,8 (.60)	175 (2500)
	4	13,1 (.80)	175 (2500)
	5	16,4 (1.00)	175 (2500)
	6	19,5 (1.19)	152 (2200)
	7	22,8 (1.39)	138 (2000)

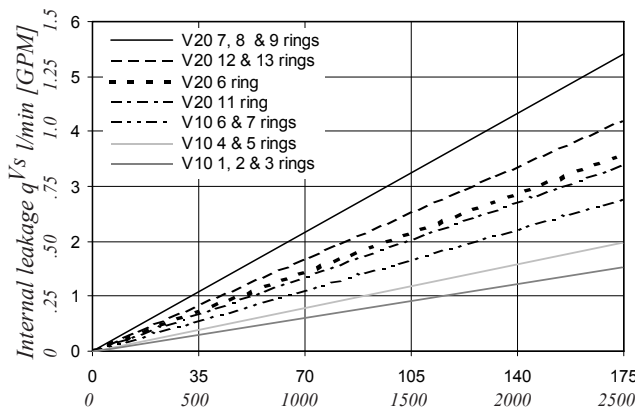
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Please refer to page 6



Rated Delivery, gpm @ 1200 rpm & 100 psi		Dimensions			Weight Kg (lb)
Shaft end	Cover end	A	B	C	
7, 8 or 9	1, 2 or 3	213,1 (8.39)	189,2 (7.45)	113,3 (4.46)	13,6 (30)
7, 8 or 9	4 or 5	219,5 (8.64)	195,6 (7.70)	113,3 (4.46)	
7, 8 or 9	6 or 7	224,5 (8.84)	200,7 (7.90)	113,3 (4.46)	
11	1, 2 or 3	218,2 (8.59)	194,3 (7.65)	118,1 (4.65)	
11	4 or 5	224,5 (8.84)	200,7 (7.90)	118,1 (4.65)	
11	6 or 7	229,6 (9.04)	205,7 (8.10)	121,7 (4.79)	
12 or 13	1, 2 or 3	221,7 (8.73)	197,9 (7.79)	121,7 (4.79)	
12 or 13	4 or 5	227,8 (8.97)	204,0 (8.03)	121,7 (4.79)	
12 or 13	6 or 7	232,9 (9.17)	209,0 (8.23)	121,7 (4.79)	

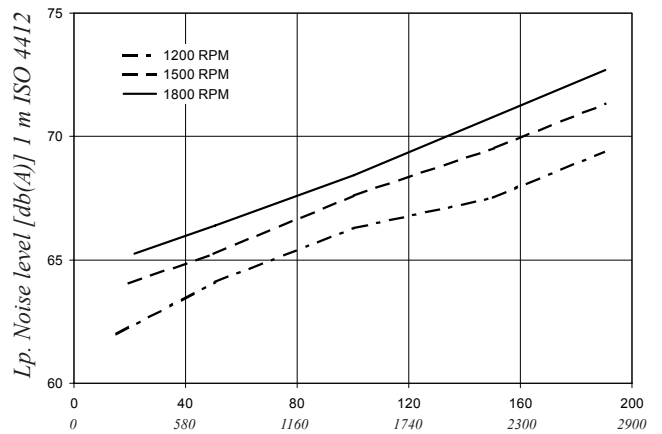
INTERNAL LEAKAGE (TYPICAL)



Pressure p bar [PSI]

Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

**NOISE LEVEL (TYPICAL)
SDV2010 - 13 - 6**



Pressure p bar [PSI]

Double pump noise level is given with each section discharging at the pressure noted on the curve.

Model No. SDV 2020 - 1 F 13 S 8 S - 1 CC - L

Vane pump _____

Series -----
2020

Mounting _____
1 = 2-bolt flange, 4" pilot (standard)
6 = 2-bolt flange, 3"1/4 pilot (optional)

Inlet port connections -----
F = 4 bolt flange 2.00 dia

Shaft-end pump ring size _____
(Delivery at 1200 rpm and 100 psi)
6 = 6 USgpm
7 = 7 USgpm
8 = 8 USgpm
9 = 9 USgpm
11 = 11 USgpm
12 = 12 USgpm
13 = 13 USgpm

No 1 outlet port (shaft end) -----
S = 1"1/16 - 12 UNF-2B thd
B = G 3/4" (BSPP)

Cover-end pump ring size _____
(Delivery at 1200 rpm and 100 psi)
6 = 6 USgpm
7 = 7 USgpm
8 = 8 USgpm
9 = 9 USgpm
11 = 11 USgpm

Shaft rotation (view on shaft end)
L = Left hand for counter-clockwise
Omit for right hand

Position of outlet port (Viewed from cover end of pump)
With n°1 outlet opposite inlet
AA = N° 2 outlet opposite inlet
AB = N° 2 outlet 90° CCW from inlet
AC = N° 2 outlet in line with inlet
AD = N° 2 outlet 90° CW from inlet
With n°1 outlet 90° CCW from inlet
BA = N° 2 outlet opposite inlet
BB = N° 2 outlet 90° CCW from inlet
BC = N° 2 outlet in line with inlet
BD = N° 2 outlet 90° CW from inlet
With n°1 outlet in line with inlet
CA = N° 2 outlet opposite inlet
CB = N° 2 outlet 90° CCW from inlet
CC = N° 2 outlet in line with inlet
CD = N° 2 outlet 90° CW from inlet
With n°1 outlet 90° CW from inlet
DA = N° 2 outlet opposite inlet
DB = N° 2 outlet 90° CCW from inlet
DC = N° 2 outlet in line with inlet
DD = N° 2 outlet 90° CW from inlet

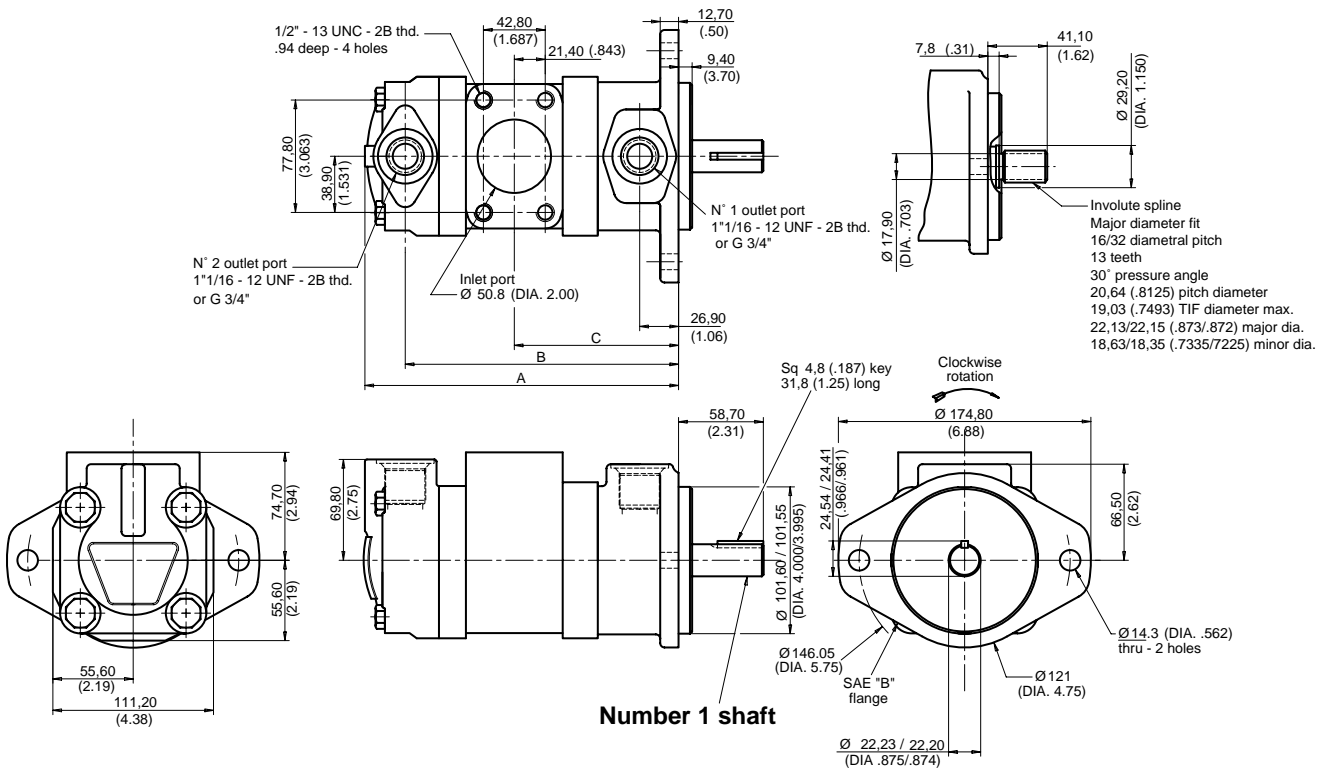
Shaft
1 = Straight keyed
11 = Splined

N° 2 outlet port (cover end)
S = 1"1/16 - 12 UNF-2B thread
B = G 3/4" (BSPP)

OPERATING CHARACTERISTICS

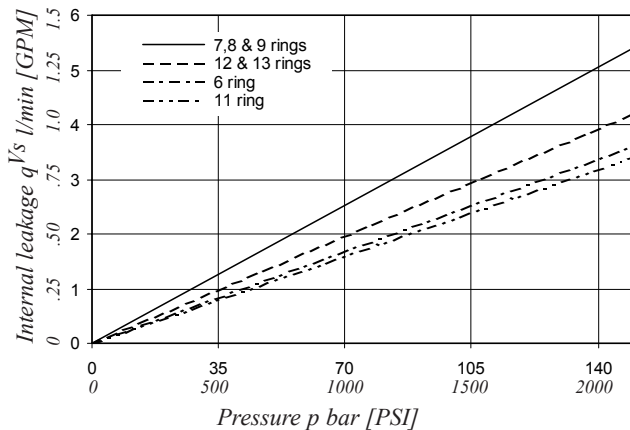
Model Series	Ring Size	Displ. cm ³ /rev (in ³ /rev)	Max. Pressure bar (psi)	Speed RPM	Typical delivery L/min (Usgpm)				Typical input power KW (hp)			
					0 bar	0 PSI	150 bar	2000 PSI	7 bar	80 PSI	175 bar	2500 PSI
P1 & P2	6	19,5 (1.19)	172 (2500)	1200	23,40	6,18	19,80	5,23	0,4	0,5	6,8	9,1
				1500	29,25	7,73	25,65	6,78	0,5	0,6	8,8	11,8
				1800	35,10	9,27	31,50	8,32	0,5	0,7	10,8	14,5
	7	22,8 (1.39)	172 (2500)	1200	27,36	7,23	21,96	5,80	0,4	0,6	7,5	10,1
				1500	34,20	9,04	28,80	7,61	0,5	0,7	9,9	13,3
				1800	41,04	10,84	35,64	9,42	0,6	0,9	12,2	16,4
	8	26,5 (1.62)	172 (2500)	1200	31,80	8,40	26,40	6,97	0,5	0,7	9,1	12,1
				1500	39,75	10,50	34,35	9,08	0,6	0,8	11,8	15,8
				1800	47,70	12,60	42,30	11,18	0,7	1,0	14,5	19,5
	9	29,7 (1.81)	172 (2500)	1200	35,64	9,42	30,24	7,99	0,6	0,7	10,4	13,9
				1500	44,55	11,77	39,15	10,34	0,7	0,9	13,4	18,0
				1800	53,46	14,12	48,06	12,70	0,8	1,1	16,5	22,1
11	36,4 (2.22)	172 (2500)	1200	43,68	11,54	40,28	10,64	0,7	0,9	13,8	18,5	
			1500	54,60	14,43	51,20	13,53	0,8	1,1	17,6	23,6	
			1800	65,52	17,31	62,12	16,41	1,0	1,4	21,3	28,6	
12	39,0 (2.38)	152 (2200)	1200	46,80	12,36	42,60	11,25	0,7	1,0	14,6	19,6	
			1500	58,50	15,46	54,30	14,35	0,9	1,2	18,6	25,0	
			1800	70,20	18,55	66,00	17,44	1,1	1,5	22,6	30,4	
13	42,4 (2.59)	152 (2200)	1200	50,88	13,44	46,68	12,33	0,8	1,1	16,0	21,5	
			1500	63,60	16,80	59,40	15,69	1,0	1,3	20,4	27,3	
			1800	76,32	20,16	72,12	19,05	1,2	1,6	24,7	33,2	

Number 11 shaft



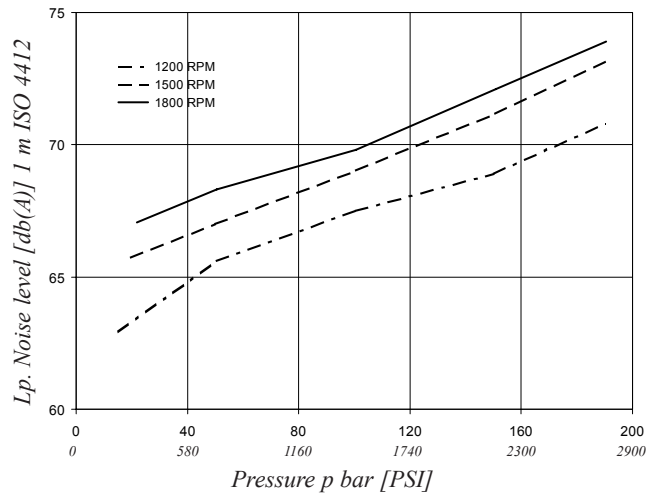
Ring size		Dimensions			Weight Kg (lb)
Shaft end	Cover end	A	B	C	
7, 8 or 9	6	213,6 (8.41)	187,7 (7.39)	114,0 (4.49)	15,9 (35)
7, 8 or 9	7, 8 or 9	220,0 (8.66)	194,0 (7.64)	114,0 (4.49)	
11	6	218,7 (8.61)	192,8 (7.59)	119,1 (4.69)	
11	7, 8 or 9	225,0 (8.86)	199,1 (7.84)	119,1 (4.69)	
11	11	229,9 (9.05)	204,0 (8.03)	119,1 (4.69)	
12 or 13	6	222,2 (8.75)	196,3 (7.73)	122,4 (4.82)	
12 or 13	7, 8 or 9	228,3 (8.99)	202,4 (7.97)	122,1 (4.82)	
12 or 13	11	233,4 (9.19)	207,5 (8.17)	122,4 (4.82)	

INTERNAL LEAKAGE (TYPICAL)



Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

NOISE LEVEL (TYPICAL)
SDV2020 - 13 - 11



Double pump noise level is given with each section discharging at the pressure noted on the curve.

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