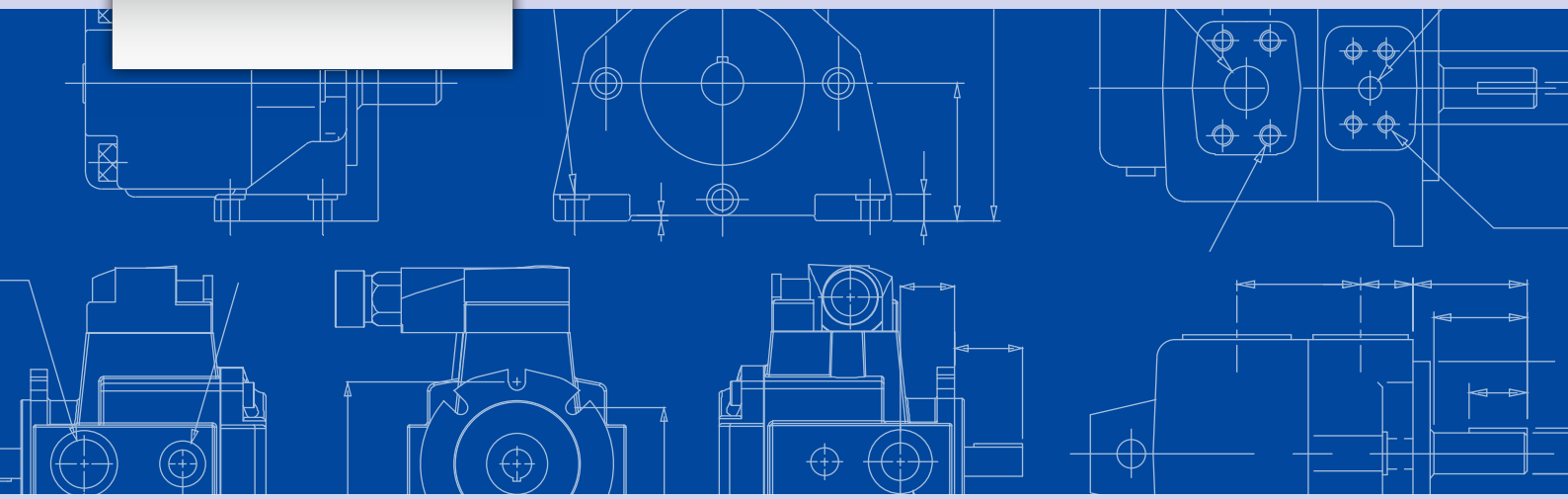
STEED
HYDRAULIC TECHNOLOGY



400 & 250bar Vane Pump

400bar Fixed Displacement Vane Pump
Fixed Displacement Vane Pump
255bar Variable Displacement Vane Pump

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400BAR FIXED DISPLACEMENT VANE PUMP

FIXED DISPLACEMENT VANE PUMP > SIGNLE PUMP

FIXED DISPLACEMENT VANE PUMP > TANDEM PUMP

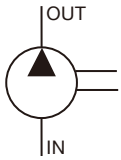
Page No.	Model	Displacement (cc/rev)	Pressure (kgf/cm²)	Speed (r.p.m.)	Weight			
					Flange Type		Foot Type	
					(lbs)	(kg)	(lbs)	(kg)
32	VQ215	P1 = 18 ~ 75 P2 = 06 ~ 38			52.9	24	86	29
34	SVQ215	P1 = 18 ~ 75 P2 = 06 ~ 38			70.5	32	88.2	40
36	VQ225	P1 = 18 ~ 75 P2 = 18 ~ 75			67.5	30.6	78.3	35.5
38	SVQ315	P1 = 60 ~ 125 P2 = 06 ~ 38			97.9	44.4	114.6	52
40	VQ325	P1 = 60 ~ 125 P2 = 18 ~ 75			110.2	50	127.9	58
42	VQ425	P1 = 136 ~ 237 P2 = 18 ~ 75			138.9	63	156.5	71
44	DVQ425	P1 = 136 ~ 237 P2 = 18 ~ 75			160.9	73	229.3	104
46	SVQ425	P1 = 136 ~ 237 P2 = 18 ~ 75			176.4	80	244.7	111
48	VQ435	P1 = 136 ~ 237 P2 = 60 ~ 125			167.6	76	205	93
50	DVQ435	P1 = 136 ~ 237 P2 = 60 ~ 125			185.2	84	253.5	115
52	SVQ435	P1 = 136 ~ 237 P2 = 60 ~ 125			200.6	91	268.9	122
54	DVQ2215	P1 = 18 ~ 75 P2 = 06 ~ 44 P3 = 06 ~ 31			82.2	37.3	-	-
57	DVQ4325	P1 = 136 ~ 237 P2 = 60 ~ 125 P3 = 18 ~ 75			202.8	92	271.2	123

255BAR VARIABLE DISPLACEMENT VANE PUMP

Page No.	Model	Accurate Displacement Capacity (cc/rev)	Operating Pressure (kgf/cm²)	Speed (r.p.m.)	No-load Discharge Rate (l/min)		Weight	
					50Hz	60Hz	(lbs)	(kg)
60	KPV-16	8 ~ 23	15.3 ~ 255	1200 1500 1800	12 ~ 34.5	14.4 ~ 41.4	36.6	16.6
60	KPVV-16	P1 = 8 ~ 23 P2 = 8 ~ 23			12 ~ 34.5	14.4 ~ 41.4	73.2	33.2
68	KPV-25	25 ~ 36			37.5 ~ 54	45 ~ 64.8	61.7	28
68	KPVV-25	P1 = 25 ~ 36 P2 = 8 ~ 23			37.5 ~ 54	45 ~ 64.8	97	44

SHVQ20

SYMBOLS



WEIGHT

Model	Weight (kg)	
	Flange Type	Foot Type
SHVQ20	18.1	

ORDER CODES

SHVQ20 - 19 - F - R A A - 01 - 01

1	Model Name	SHVQ20	
2	Displacement	4, 6, 8, 14, 17, 19, 23	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Shaft Type	01	normal
		03	spline shaft
8	Output Dimensional	01	normal
		02	

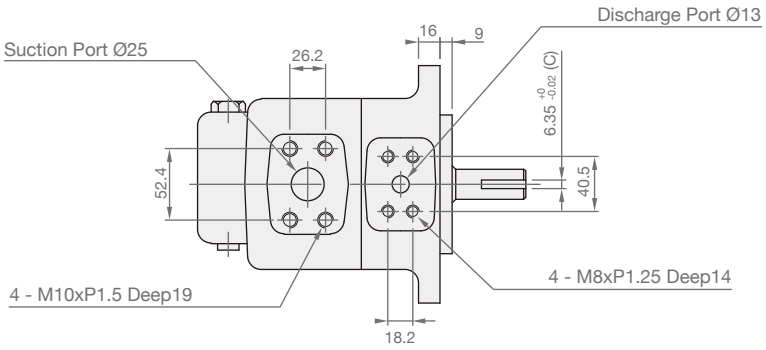
MODEL SPEC.

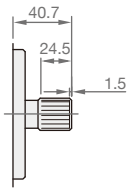
Model	Max. Pressure (kgf/cm²)				Max. Speed (r.p.m.)			
	Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid		Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid	Using Water-in-oil Emulsions
	Cont.	Peak.	Cont.	Peak.	Max.	Min.		
SHVQ20-4	408	450	255	280	3000	800	1800	1800
SHVQ20-6					2500	800		
SHVQ20-8					2500	800		
SHVQ20-11					2300	800		
SHVQ20-14					1800	800		
SHVQ20-17	357	380	255	280	1800	800		
SHVQ20-19					1800	800		
SHVQ20-23					1800	800		

DIMENSION

(UNIT : mm)

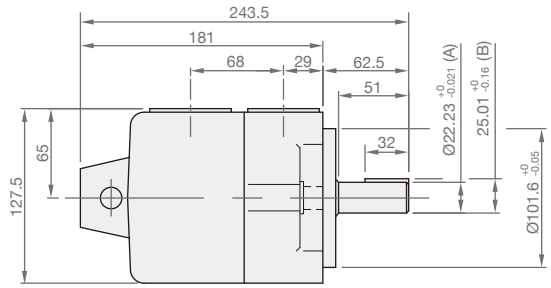
▸ SHVQ20 (Flange Type)

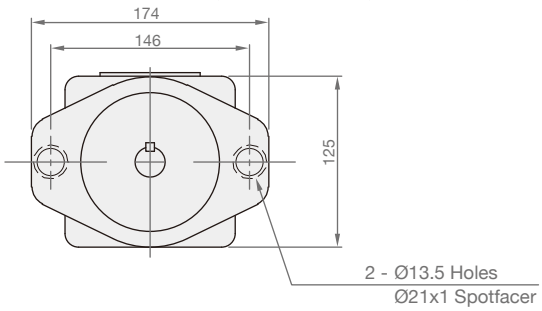




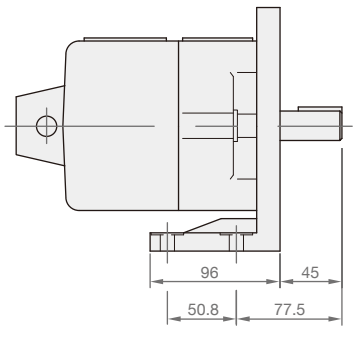
Shaft Type : 03
SAE B-B spline shaft
class 1-J498 b
16/32 d.p. -13 teeth
30° pressure angle flat root side fit

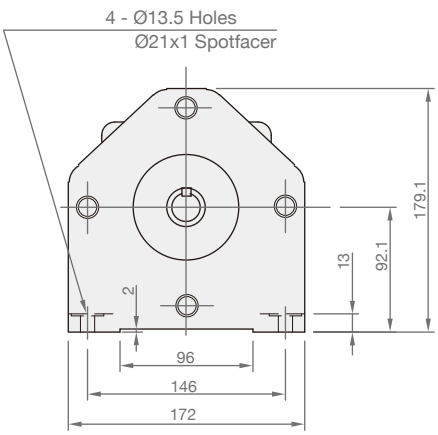
Shaft	A	B	C
01	Ø22.23	25.01	6.35
03	spline shaft		





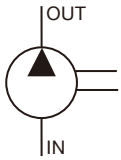
▸ SHVQ20 (Foot Type)





SHVQ30

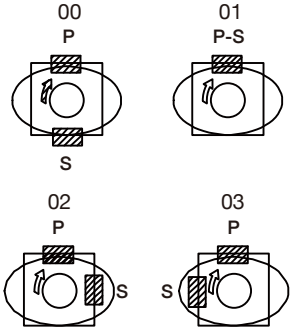
SYMBOLS



WEIGHT

Model	Weight (kg) / Flange Type
SHVQ30	

Porting Combination
P=Pressure port
S=suction port



ORDER CODES

SHVQ30 - 19.8 - 1 R 00 - A 1 - 00 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①	Model Name	SHVQ30	
②	Displacement	19.8, 22.5, 24.9, 28.0, 31.8, 34.9, 40.9, 45.1, 50.0, 54.9, 61.0	
③	Shaft Type	1	keyed SAE B
		2	keyed ISO R775
		3	spline SAE B
		4	spline SAE BB
		5	keyed
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Porting Combination	00	standard
⑥	Design Number	A	
⑦	Seal Class	1	S1 (for mineral oil)
		4	S4 (for fire resistant fluids)
		5	S5 (for mineral oil and fire resistant fluids)

⑧ Mounting w/connection Variables

4-bolts SAE flange (J518C)

	UNC		Metric	
Code	00	01	M0	M1
P	1"	3/4"	1"	3/4"
S	1 1/2"			

⑨	Modifications	*

MODEL SPEC.

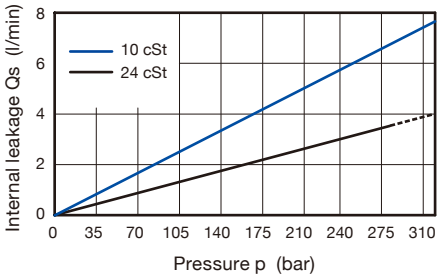
Model	Max. Pressure (kgf/cm²)				Speed (r.p.m.)	
	Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid		Max.	Min.
	Cont.	Peak.	Cont.	Peak.		
SHVQ30-19.8	320	360	230	250	3600	1800
SHVQ30-22.5						
SHVQ30-24.9						
SHVQ30-28.0						
SHVQ30-31.8						
SHVQ30-34.9						
SHVQ30-40.9						
SHVQ30-45.1						
SHVQ30-50.0						
SHVQ30-54.9	290	320	200	230		
SHVQ30-61.0						

* The peak pressure shall not exceed 10 seconds.

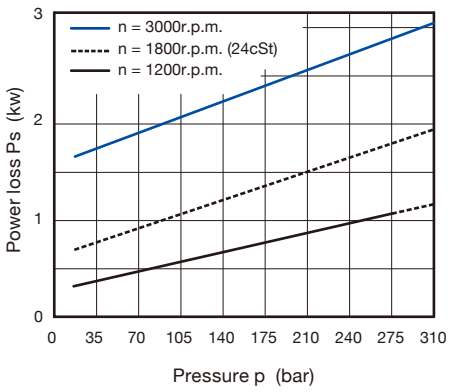
Port	Volumetric Displacement Vp (cm³/rev)	Flow Q & N [l/min]=1800r.p.m.			Input Power P & N [kw]=1800r.p.m.			Peak Pressure (kgf/cm²)	Operating Pressure (kgf/cm²)
		p=0bar	p=140bar	p=320bar	p=7bar	p=140bar	p=320bar		
P1	19.8	35.6	33.9	31.7	0.84	8.79	19.88	350	320
	22.5	40.4	38.8	36.5	0.89	9.91	22.47		
	24.9	44.7	43.1	40.9	0.94	10.9	24.78		
	28.0	50.3	48.6	46.4	1.01	12.19	27.77		
	31.8	57.2	55.5	53.4	1.11	13.75	31.42		
	34.9	62.9	61.2	59.0	1.15	15.04	32.22		
	40.9	73.7	72.1	70.1	1.28	17.56	37.71		
	45.1	80.8	79.2	77.0	1.36	19.23	41.37		
	50.0	89.8	88.3	86.5	1.47	21.28	42.76		
	54.9	98.82	97.32	95.52	1.65	23.46	50.47		
	61.0	109.8	108.3	106.5	1.47	25.96	52.16	320	300

PERFORMANCE CURVES

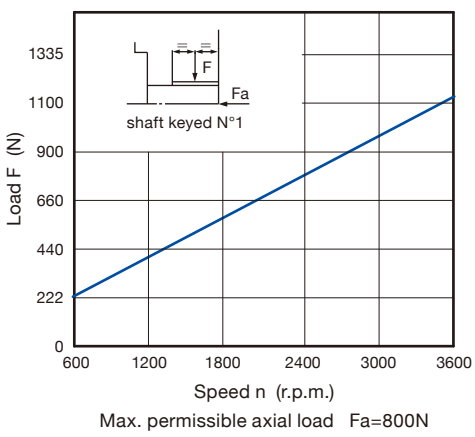
Internal Leakage (typical)



Hydromechanical Power Loss (typical)



Permissible Radial Load

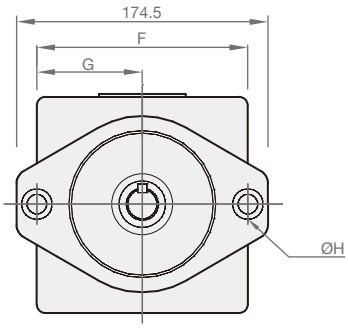


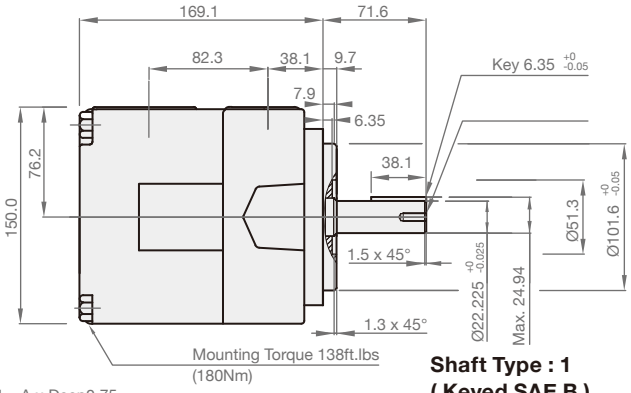
Max. permissible axial load Fa=800N

DIMENSION

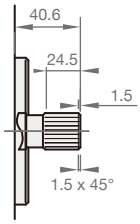
(UNIT : mm)

▸ **SHVQ30**

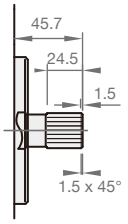




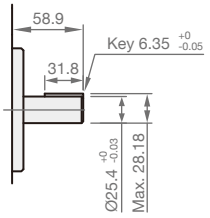
Shaft Type : 1
(Keyed SAE B)



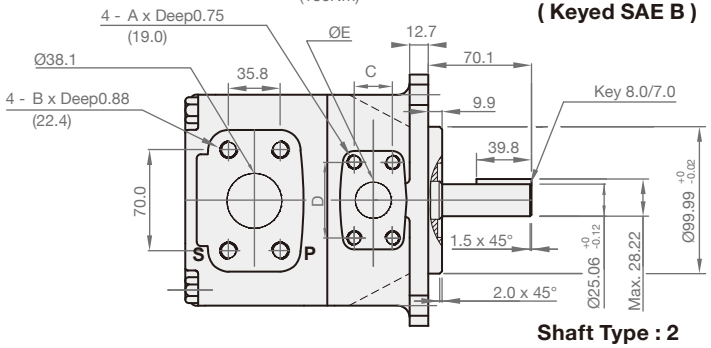
Shaft Type : 3
SAE B spline shaft
Class 1-J498b
16/32 d.p. -13 teeth
30˚ pressure angle
flat root side fit



Shaft Type : 4
SAE BB spline shaft
Class 1-J498b
16/32 d.p. -15 teeth
30˚ pressure angle
flat root side fit



Shaft Type : 5



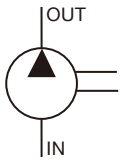
Shaft Type : 2
(Keyed ISO R775)

Shaft Torque Limits (ml/rev. x bar)		
Model	**Shaft**	**Vp x p max.**
SHVQ30	1	16516
	2	20620
	3	20620
	4	20620

Code	00	01	M0	M1
A	3/8"-16UNC		M10	
B	1/2"-13UNC		M12	
C	1.03 (26.2)	0.874 (22.2)	1.03 (26.2)	0.874 (22.2)
D	2.06 (52.4)	1.874 (47.6)	2.06 (52.4)	1.874 (47.6)
ØE	1.00 (25.4)	0.75 (19.05)	1.00 (25.4)	0.75 (19.05)
F	5.75 (146.0)			
G	2.87 (73.0)			
ØH	0.56 (14.3)			

DVQ20

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
DVQ20	12.5	15	-

ORDER CODES

DVQ20 - 17 - F - R A A - 01
(1) (2) (3) (4) (5) (6) (7)

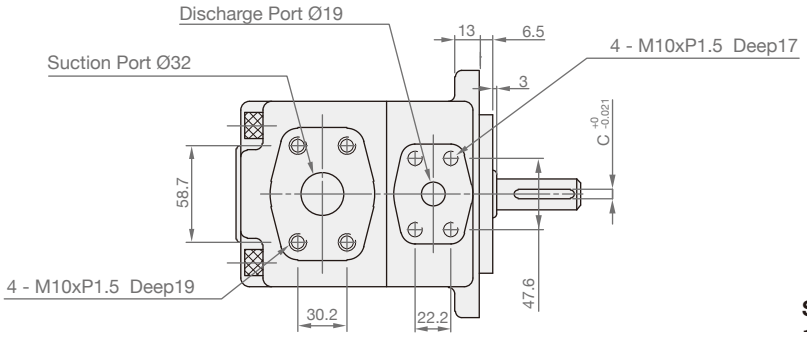
(1)	Model Name	DVQ20	
(2)	Displacement	06, 08, 11, 14, 17, 19, 23, 26, 32, 34, 38, 44	
(3)	Mounting Type	F	flange type
		L	foot type
(4)	Rotation Direction	R	clockwise
		L	counter - clockwise
(5)	Discharge Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
(6)	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
(7)	Shaft Type	01	normal
		02	
		03	
		04	spline shaft

MODEL SPEC.

Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm²)	
	1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
DVQ20-06	6.2	7.4	9.3	11.2	1800	800	210	260
DVQ20-08	8.1	9.7	12.1	14.6	1800	800	210	260
DVQ20-11	11.2	13.4	13.4	20.1	1800	800	210	260
DVQ20-14	14.3	17.1	21.5	25.7	1800	800	210	260
DVQ20-17	17.1	20.5	25.6	30.7	1800	800	210	260
DVQ20-19	19.2	23.0	28.8	34.5	1800	800	210	260
DVQ20-23	23.3	27.9	34.9	41.9	1800	800	210	260
DVQ20-26	26.1	31.3	39.1	46.9	1800	800	210	260
DVQ20-32	32.1	38.3	47.6	-	1500	800	175	240
DVQ20-34	34.1	40.8	50.4	-	1500	800	175	240
DVQ20-38	38.1	45.9	-	-	1200	800	175	240
DVQ20-44	44.1	52.9	-	-	1200	800	175	210

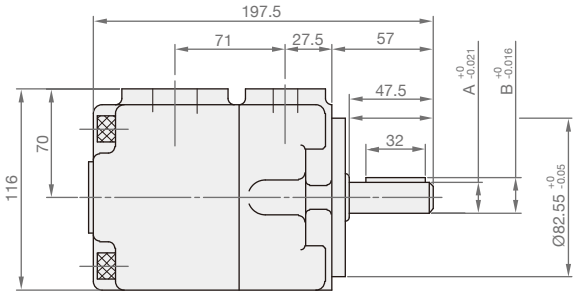
DIMENSION (UNIT : mm)

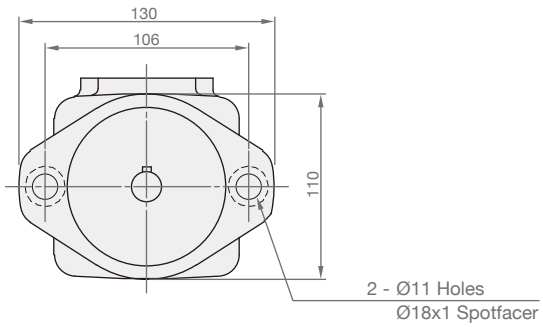
▸ DVQ20 (Flange Type)



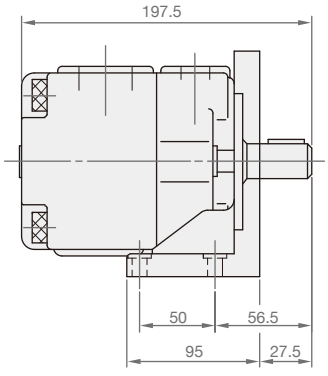
Shaft	A	B	C
01	Ø19.05	21.24	4.76
02	Ø22.23	24.5	4.76
03	Ø22.23	25.01	6.35
04	spline shaft		

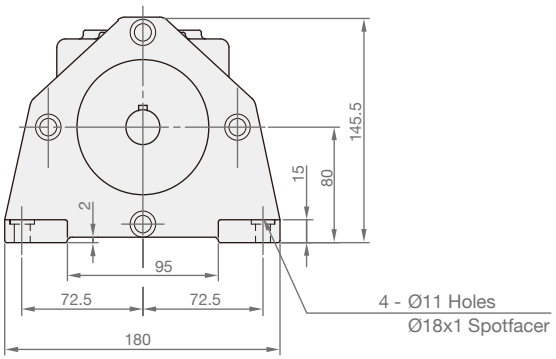
Shaft Type : 04
13 teeth spline 7/8" (22.225) DIA
30° pressure angle flat root side fit





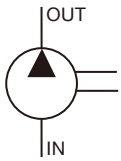
▸ DVQ20 (Foot Type)





DVQ25

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
DVQ25	18	23	-

ORDER CODES

DVQ25 - 26 - F - R A A - W

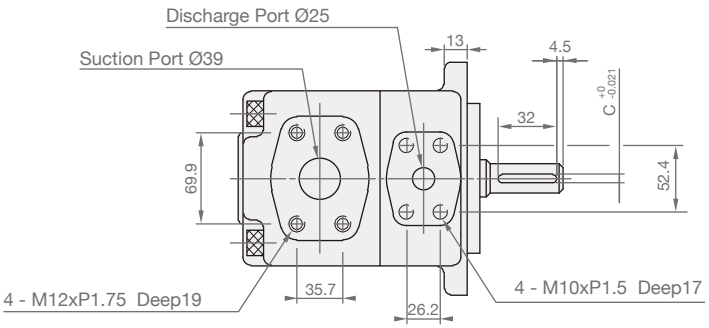
1	Model Name	DVQ25	
2	Displacement	18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Shaft Type	01	normal
		02	
		03	
		04	spline shaft
		W	

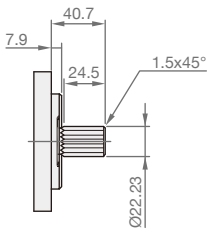
MODEL SPEC.

Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm²)	
	1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
DVQ25-18	18.1	21.7	27.2	32.6	1800	800	210	260
DVQ25-22	22.1	26.5	33.3	39.8	1800	800	210	260
DVQ25-26	26.2	31.4	39.3	47.1	1800	800	210	260
DVQ25-32	32.1	38.5	48.1	57.7	1800	800	210	260
DVQ25-38	38.2	45.8	57.3	68.7	1800	800	210	260
DVQ25-43	43.2	51.8	64.8	77.7	1800	800	210	260
DVQ25-47	47.1	56.5	70.0	85.0	1800	800	210	260
DVQ25-52	52.3	62.7	78.4	94.1	1800	800	210	260
DVQ25-60	60.2	72.7	90.3	108.3	1800	800	210	260
DVQ25-65	65.3	78.3	97.9	117.5	1800	800	210	230
DVQ25-75	75.0	90.0	112.5	-	1500	800	210	230

DIMENSION (UNIT : mm)

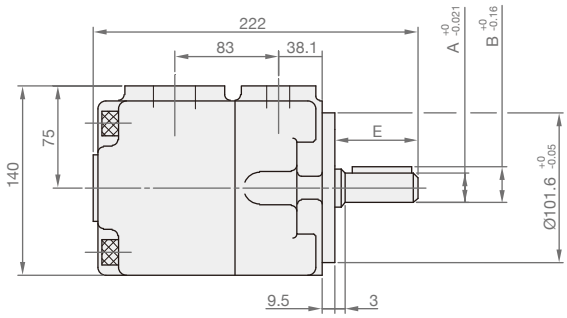
▸ DVQ25 (Flange Type)

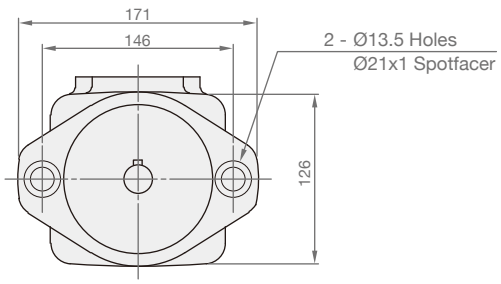




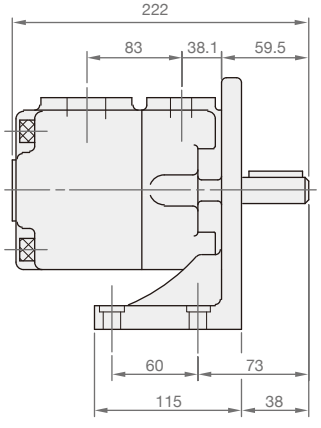
Shaft	A	B	C	E
01	Ø22.23	24.5	6.35	50.5
02	Ø25.4	28.18	6.35	6.35
03	Ø30.0	33.0	7.0	59
04	spline shaft			
W	Ø28.0	30.8	6.35	50.5

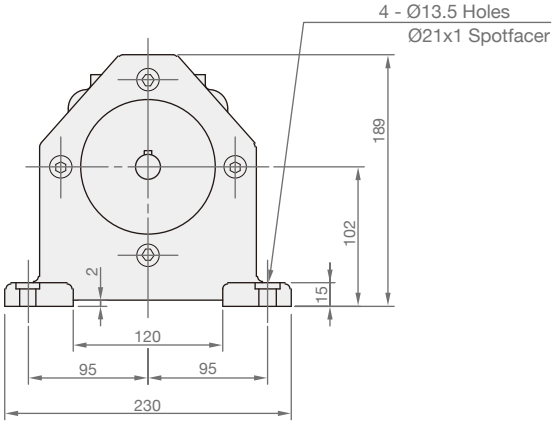
Shaft Type : 04
16/32 d.p. -13 teeth
30° pressure angle flat root side fit





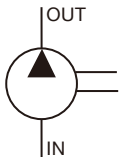
▸ DVQ25 (Foot Type)





VQ15

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ15	10.3	12.7	0.9

ORDER CODES

VQ15 - 11 - F - R A A - 01

1	Model Name	VQ15	
2	Displacement	06, 08, 11, 14, 17, 19, 23, 26, 31, 38	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Shaft Type	01	normal
		03	spline shaft

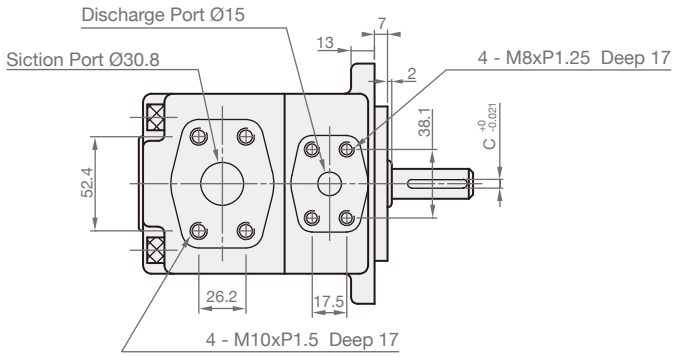
MODEL SPEC.

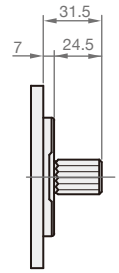
Model	Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid		Using Water-in-oil Emulsions	
	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)
VQ15-06	210	1800	160	1200	140	1200
VQ15-08						
VQ15-11						
VQ15-14						
VQ15-17						
VQ15-19						
VQ15-23						
VQ15-26						
VQ15-31	175	1500	160	1200	140	1200
VQ15-38	175	1200	160	1200	140	1200

Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm^2)	
	1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
VQ15-06	6.2	7.4	9.3	11.2	1800	800	210	240
VQ15-08	8.1	9.7	12.1	14.6				
VQ15-11	11.2	13.4	16.8	20.1				
VQ15-14	14.3	17.1	21.5	25.7				
VQ15-17	17.1	20.5	25.6	30.7				
VQ15-19	19.2	23.0	28.8	34.5				
VQ15-23	23.3	27.9	34.9	41.9				
VQ15-26	26.1	31.3	39.1	46.9				
VQ15-31	31.1	37.3	46.6	-	1500	800	175	240
VQ15-38	38.1	45.6	-	-	1200	800	175	230

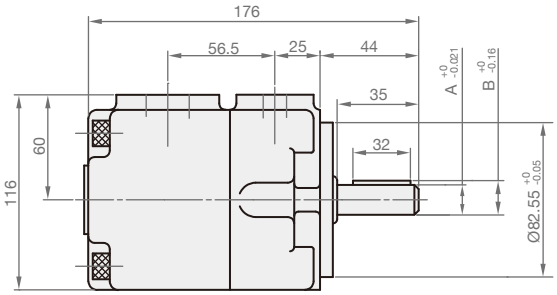
DIMENSION (UNIT : mm)

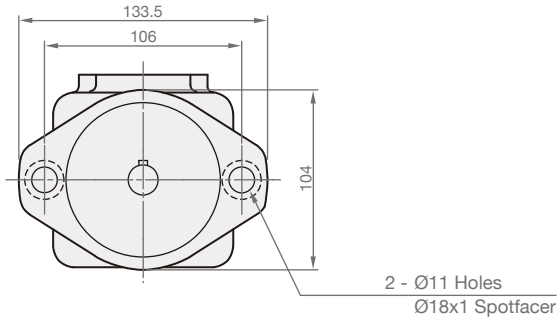
▸ VQ15 (Flange Type)





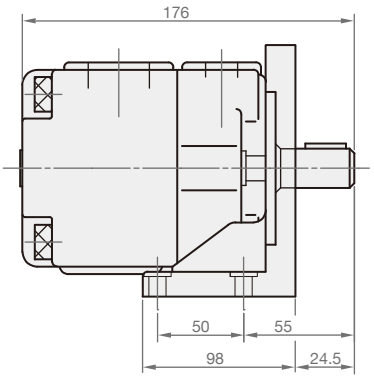
Shaft Type : 03
11 teeth spline 3/4" (19.05) DIA
30° pressure angle flat root side fit

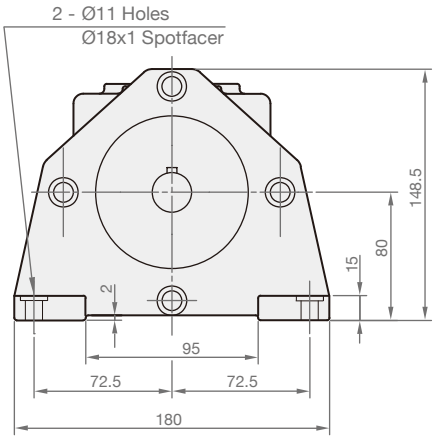




Shaft	A	B	C
01	Ø19.05	21.24	4.76
03	spline shaft		

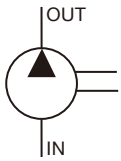
▸ VQ15 (Foot Type)





VQ35

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ35	36	44	2.0

ORDER CODES

VQ35 - 66 - F - R A A - 01

1	Model Name	VQ35		
2	Displacement	60, 66, 76, 82, 88, 94, 108, 116, 125		
3	Mounting Type	F	flange type	
		L	foot type	
4	Rotation Direction	R	clockwise	
		L	counter - clockwise	
5	Discharge Position	A	upward (normal)	
		B	downward	
		R	on right hand	
		L	on left hand	
6	Suction Position	A	upward (normal)	
		B	downward	
		R	on right hand	
		L	on left hand	
7	Shaft Type	01	normal	
		02		
		03	spline shaft	

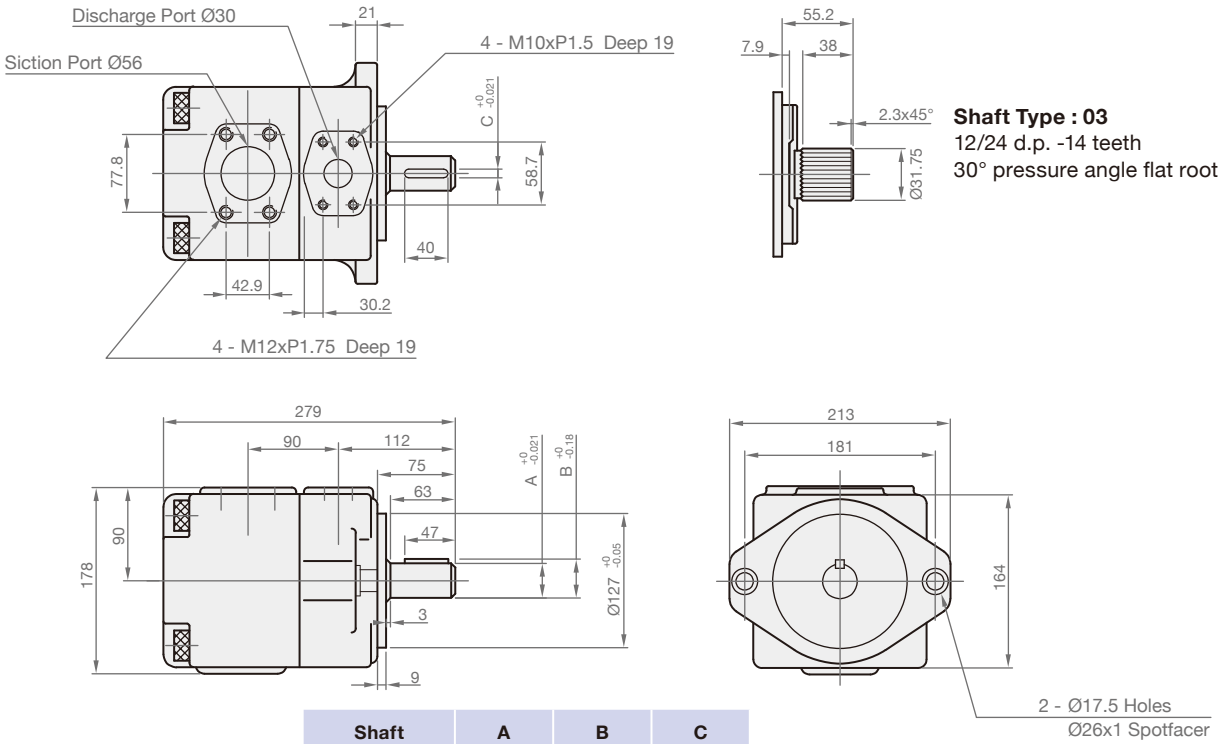
MODEL SPEC.

Model	Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid		Using Water-in-oil Emulsions	
	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)
VQ35-60	175	1800	160	1200	140	1200
VQ35-66						
VQ35-76						
VQ35-82						
VQ35-88						
VQ35-94						
VQ35-108						
VQ35-116						
VQ35-125	175	1500	160	1200	140	1200

Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm^2)	
	1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
VQ35-60	60.3	72.3	90.4	108.5	1800	600	175	210
VQ35-66	66.4	79.6	99.6	119.5				
VQ35-76	76.3	91.5	114.4	137.3				
VQ35-82	82.2	98.6	123.3	147.9				
VQ35-88	88.3	105.9	132.4	158.9				
VQ35-94	94.5	113.4	141.7	170.1				
VQ35-108	108.2	129.8	162.3	194.4				
VQ35-116	116.1	139.3	174.1	208.9				
VQ35-125	124.6	149.5	186.9	-	1500	600	175	210

DIMENSION (UNIT : mm)

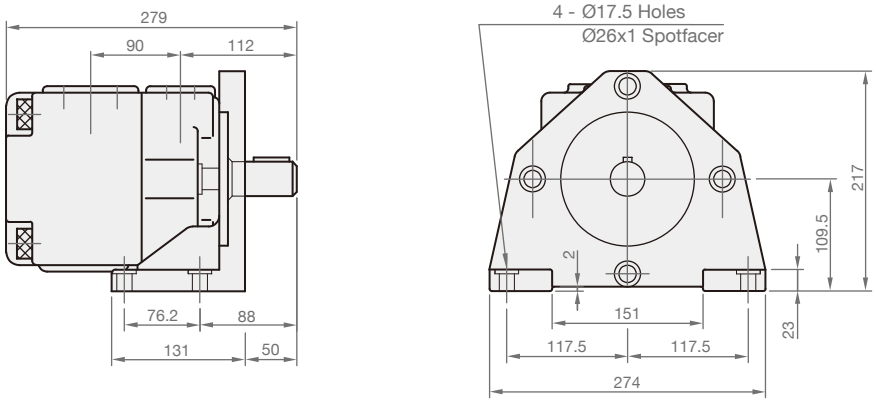
▸ VQ35 (Flange Type)



Shaft Type : 03
12/24 d.p. -14 teeth
30° pressure angle flat root side fit

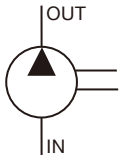
Shaft	A	B	C
01	Ø31.75	35.32	7.95
02	Ø34.9	38.56	7.95
03	spline shaft		

▸ VQ35 (Foot Type)



VQ45

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ45	52	60	3.2

ORDER CODES

VQ45 - 189 - F - R A A - 01

1	Model Name	VQ45	
2	Displacement	136, 156, 189, 200, 216, 237	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Shaft Type	01	normal
		02, 03	

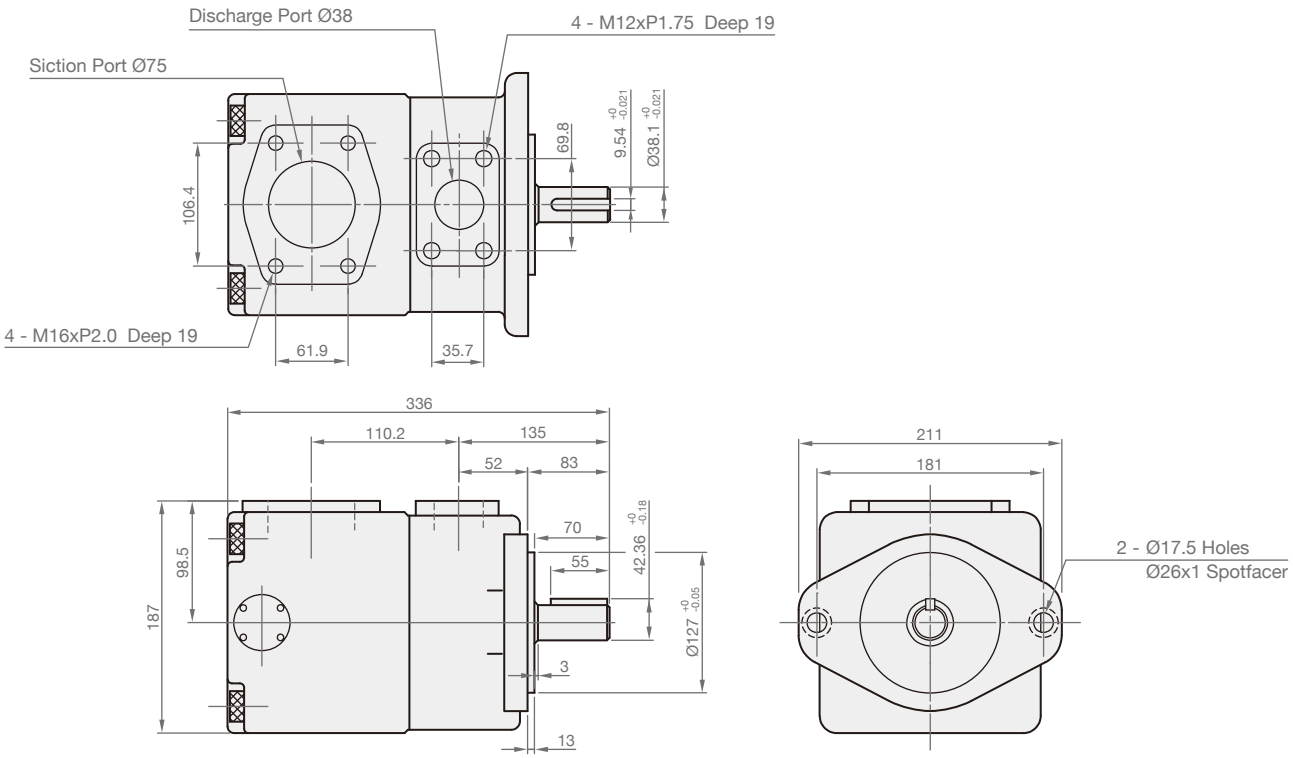
MODEL SPEC.

Model	Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid		Using Water-in-oil Emulsions	
	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)
VQ45-136	175	1800	140	1200	140	1200
VQ45-156						
VQ45-189						
VQ45-200						
VQ45-216	175	1500	140	1200	140	1200
VQ45-237						

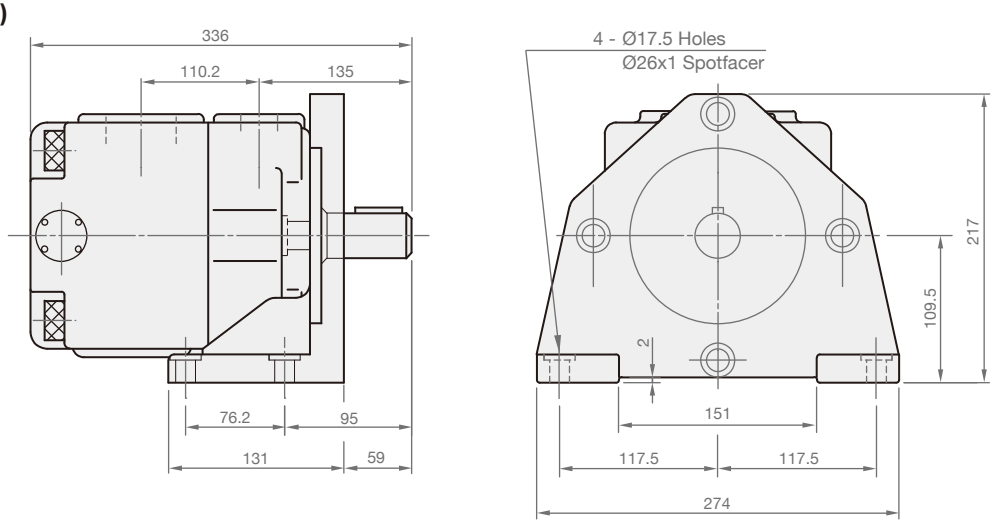
Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm^2)	
	1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
VQ45-136	136.8	164.0	204.0	246.0	1800	600	165	175
VQ45-156	156.2	188.0	234.0	280.0				
VQ45-189	189.5	227.0	284.0	340.0				
VQ45-200	200.0	240.0	300.0	360.0				
VQ45-216	216.0	260.0	324.0	-	1500	600		
VQ45-237	237.0	285.0	355.0	-				

DIMENSION (UNIT : mm)

▸ VQ45 (Flange Type)

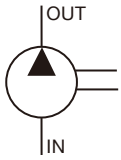


▸ VQ45 (Foot Type)



DVQ45

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
DVQ45	61	92	3.2

ORDER CODES

DVQ45 - 216 - F - R A A - 01

1	Model Name	DVQ45		
2	Displacement	136, 156, 189, 200, 216, 237		
3	Mounting Type	F	flange type	
		L	foot type	
4	Rotation Direction	R	clockwise	
		L	counter - clockwise	
5	Discharge Position	A	upward (normal)	
		B	downward	
		R	on right hand	
		L	on left hand	
6	Suction Position	A	upward (normal)	
		B	downward	
		R	on right hand	
		L	on left hand	
7	Shaft Type	01	normal	
		02, 03		

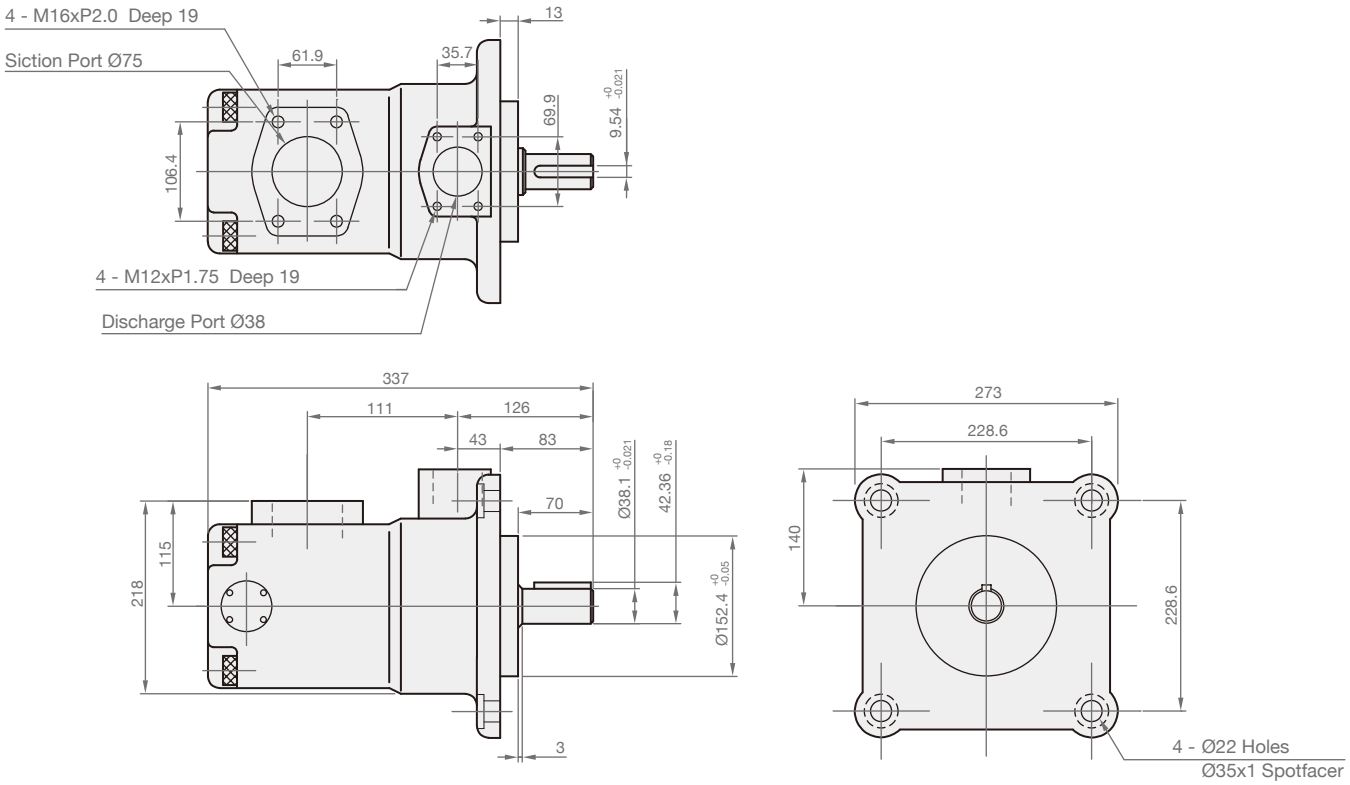
MODEL SPEC.

Model	Using Antiwar Oil or Phosphate Ester Fluid		Using Water Glycol Fluid		Using Water-in-oil Emulsions	
	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)	Max. Pressure (kgf/cm^2)	Max. Speed (r.p.m.)
DVQ45-136	175	1800	140	1200	140	1200
DVQ45-156						
DVQ45-189						
DVQ45-200						
DVQ45-216	175	1500	140	1200	140	1200
DVQ45-237						

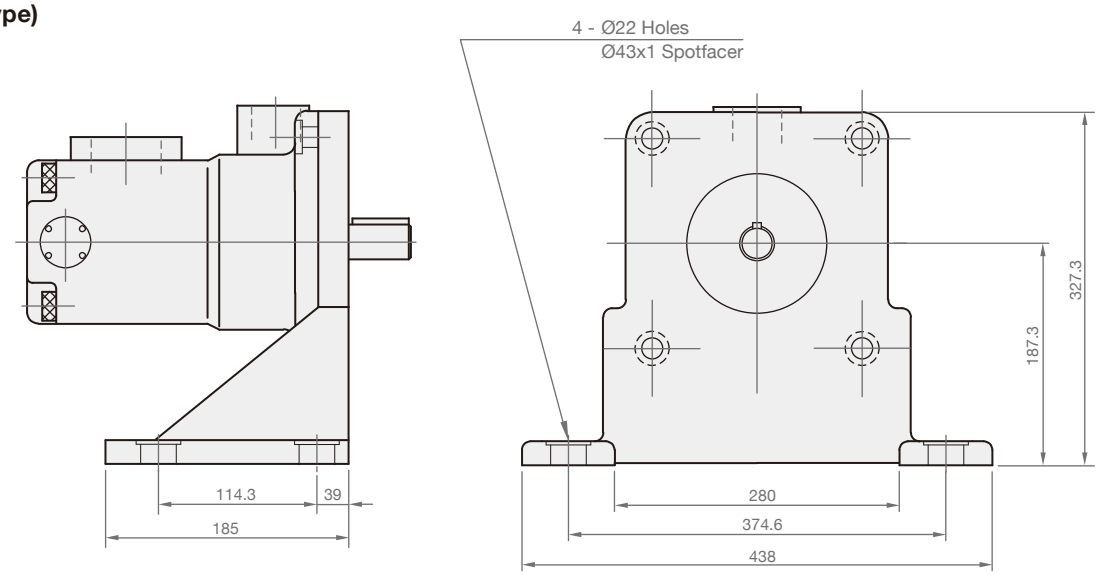
Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm^2)	
	1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
DVQ45-136	136.8	164.0	204.0	246.0	1800	600	165	175
DVQ45-156	156.2	188.0	234.0	280.0				
DVQ45-189	189.5	227.0	284.0	340.0				
DVQ45-200	200.0	240.0	300.0	360.0				
DVQ45-216	216.0	260.0	324.0	-	1500	600		
DVQ45-237	237.0	285.0	355.0	-				

DIMENSION (UNIT : mm)

▸ DVQ45 (Flange Type)



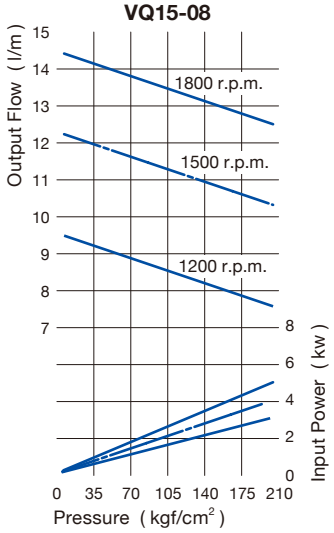
▸ DVQ45 (Foot Type)



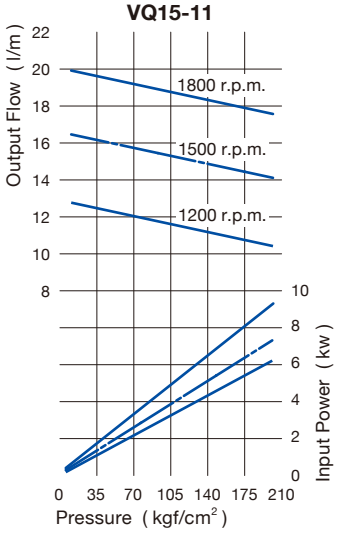
PERFORMANCE CURVES

▸ VQ15

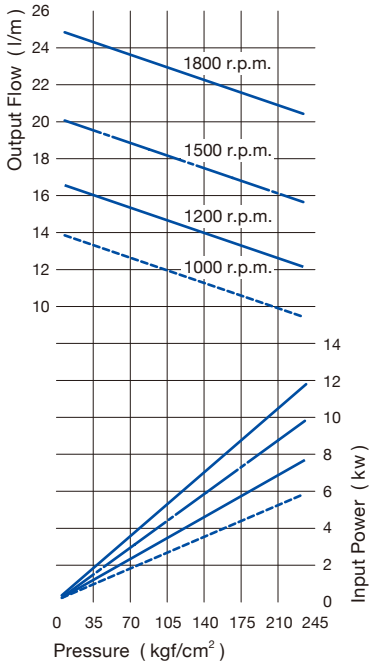
VQ15-08



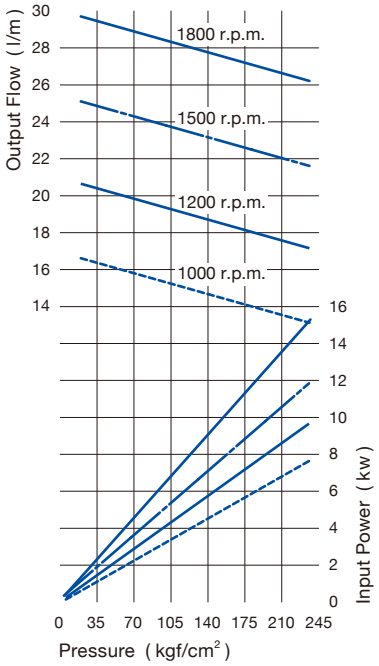
VQ15-11



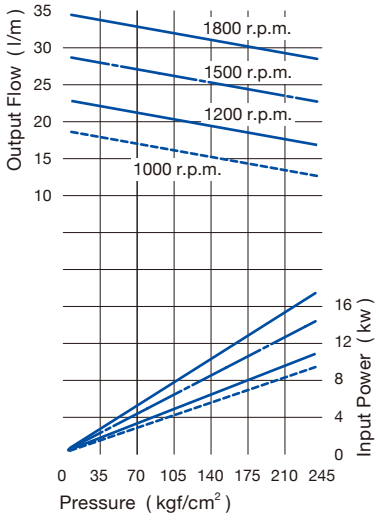
VQ15-14



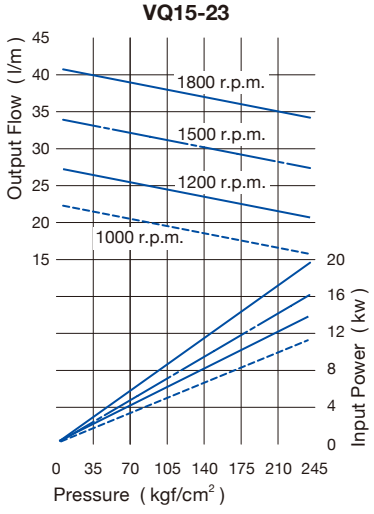
VQ15-17



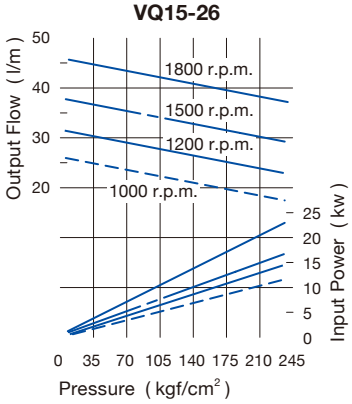
VQ15-19



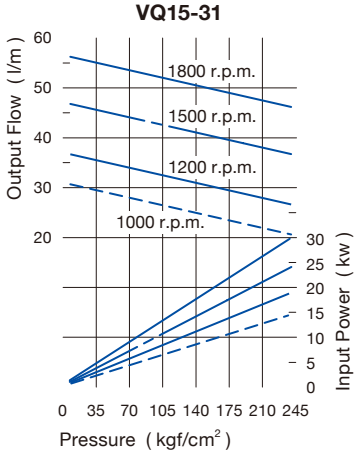
VQ15-23



VQ15-26



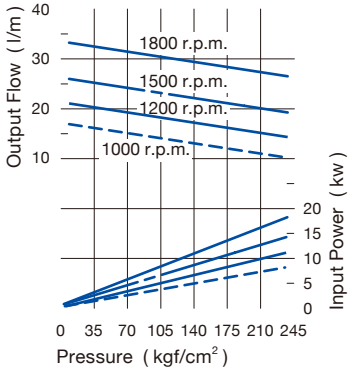
VQ15-31



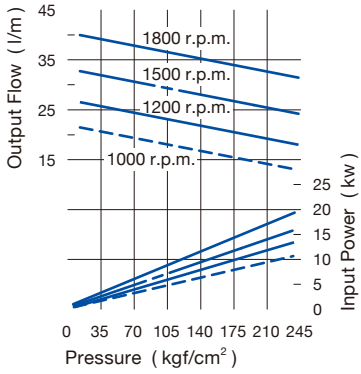
PERFORMANCE CURVES

▸ VQ25

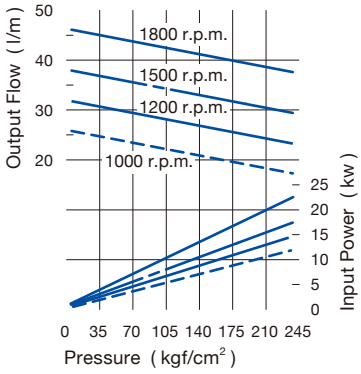
VQ25-18



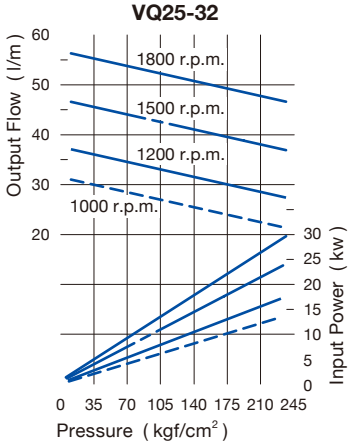
VQ25-22



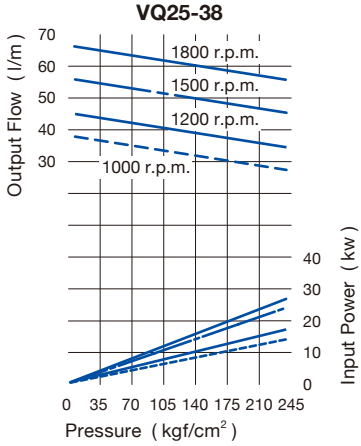
VQ25-26



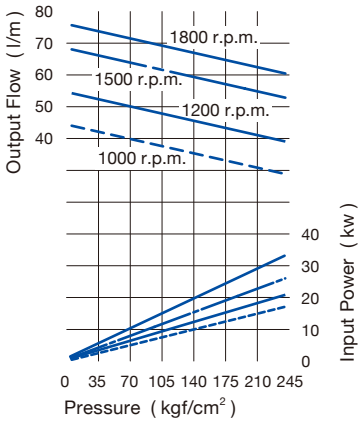
VQ25-32



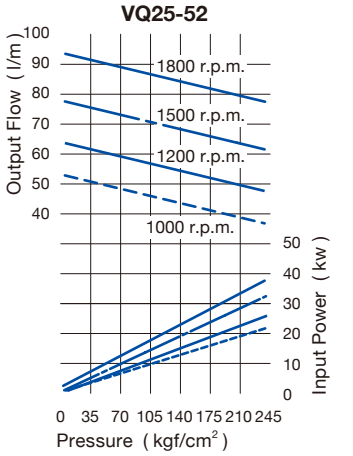
VQ25-38



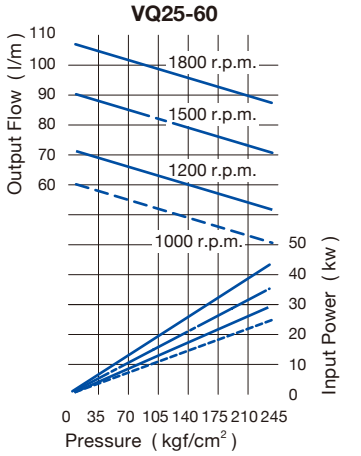
VQ25-43



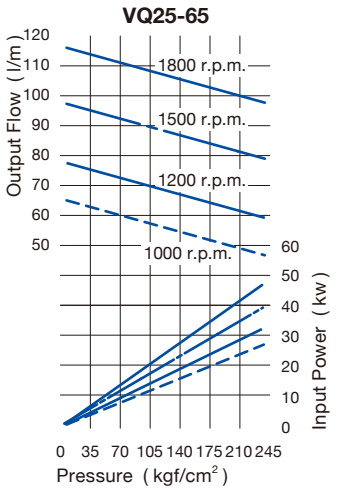
VQ25-52



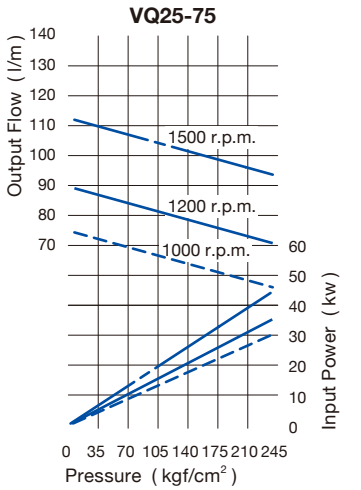
VQ25-60



VQ25-65



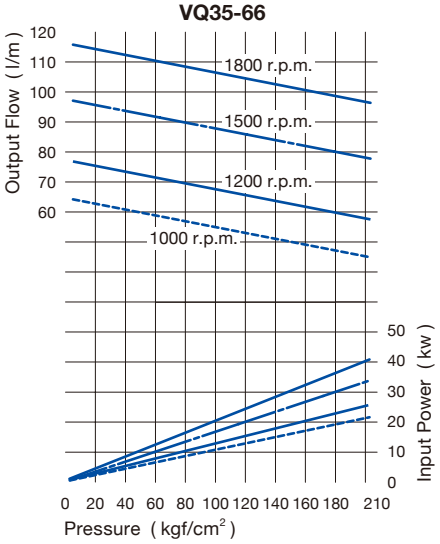
VQ25-75



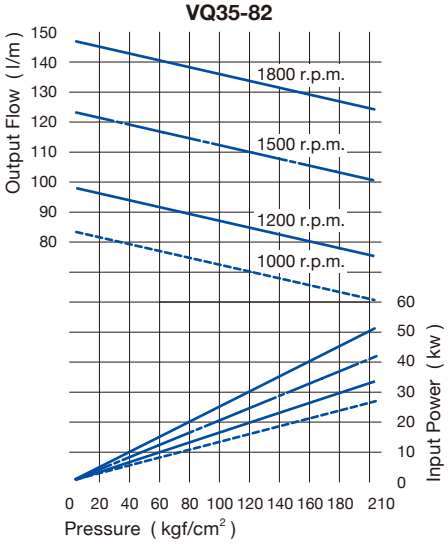
PERFORMANCE CURVES

▸ VQ35

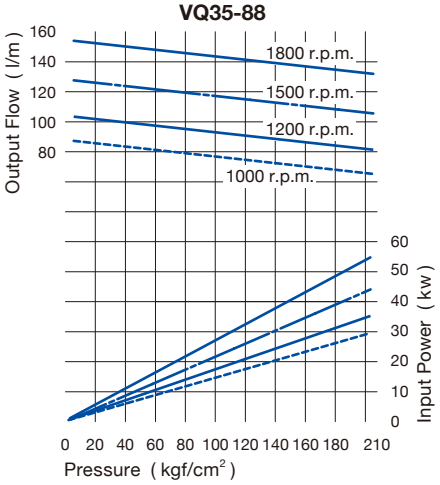
VQ35-66



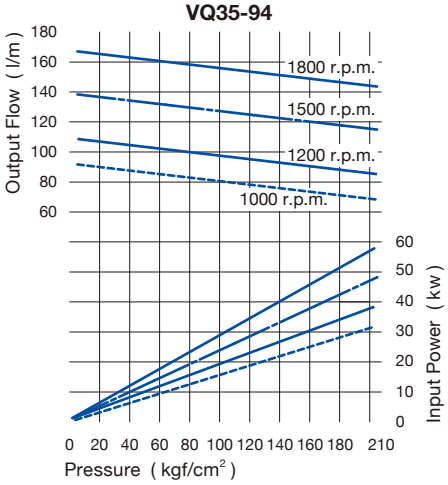
VQ35-82



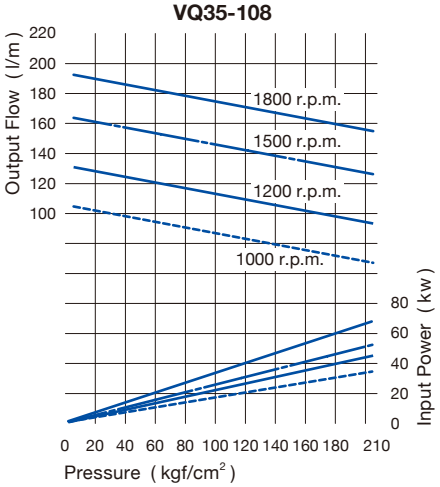
VQ35-88



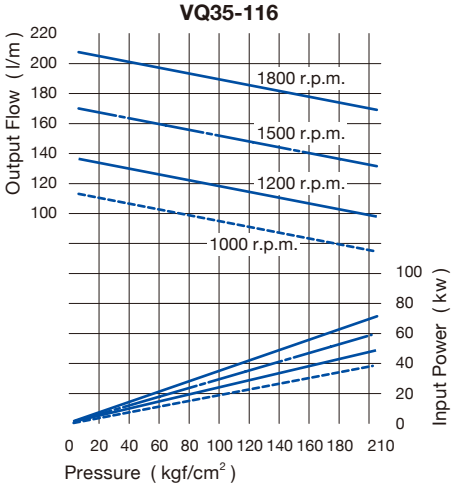
VQ35-94



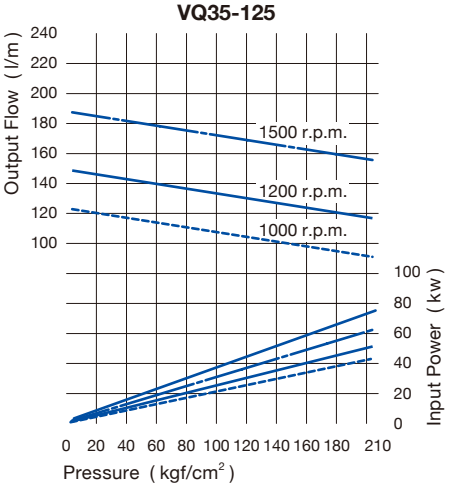
VQ35-108



VQ35-116



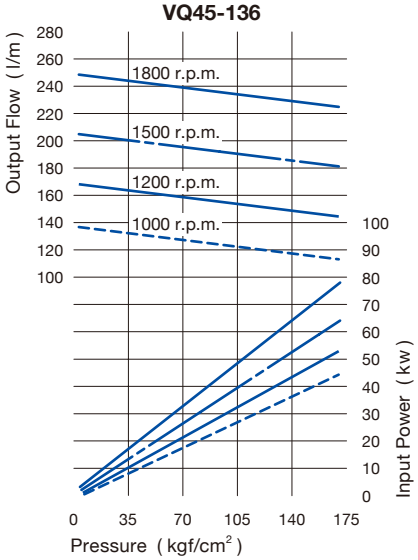
VQ35-125



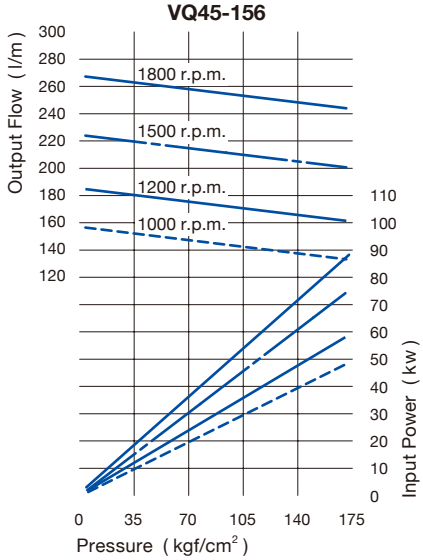
PERFORMANCE CURVES

▸ VQ45

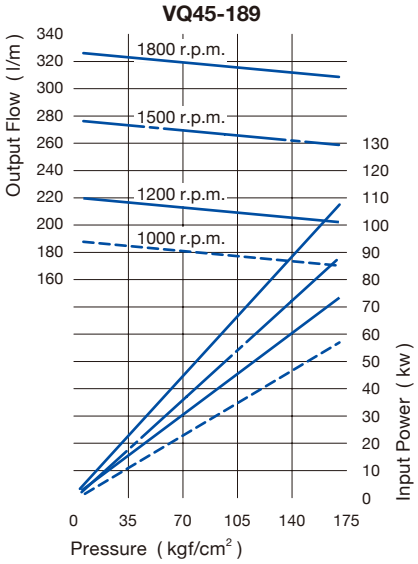
VQ45-136



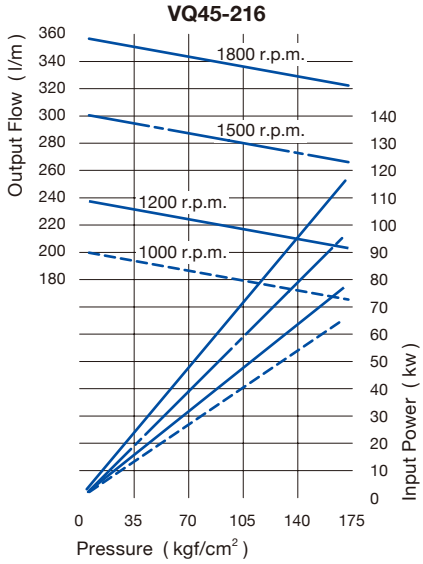
VQ45-156



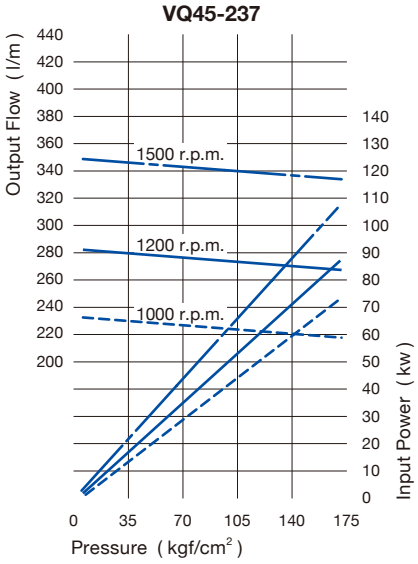
VQ45-189



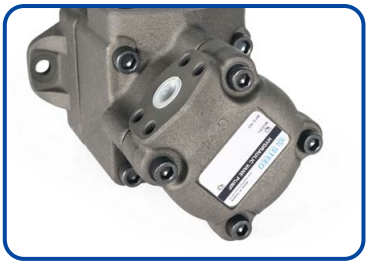
VQ45-216



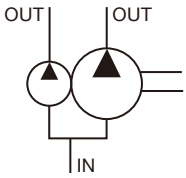
VQ45-237



VQ215



SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ215	24	29	2.5

ORDER CODES

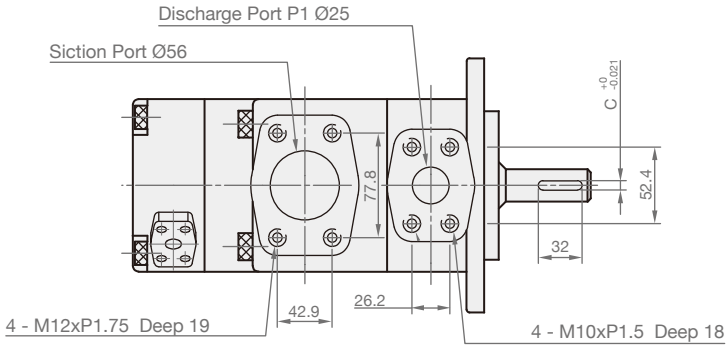
VQ215 - 26 - 17 - F - R A L D - 01

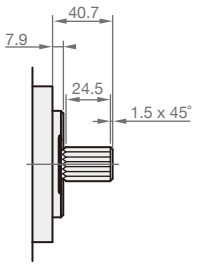
1 | 2 P1 | 2 P2 | 3 | 4 5 6 7 | 8

1	Model Name	VQ215	
2	Displacement	P1: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
		P2: 06, 08, 11, 14, 17, 19, 23, 26, 31, 38	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
8	Shaft Type	01, 02, 03, 04	

DIMENSION (UNIT : mm)

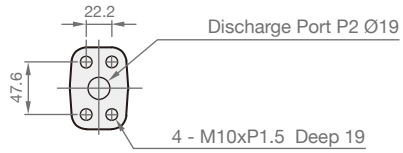
▸ VQ215 (Flange Type)

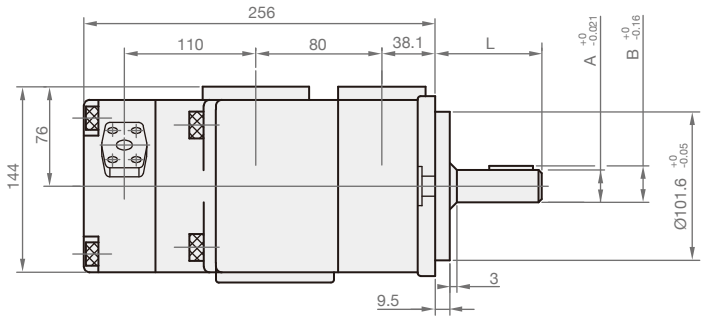


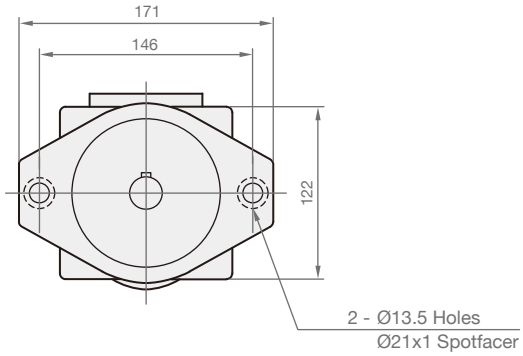


Shaft Type : 04
16/32 d.p. -13 teeth
30˚ pressure angle
flat root side fit

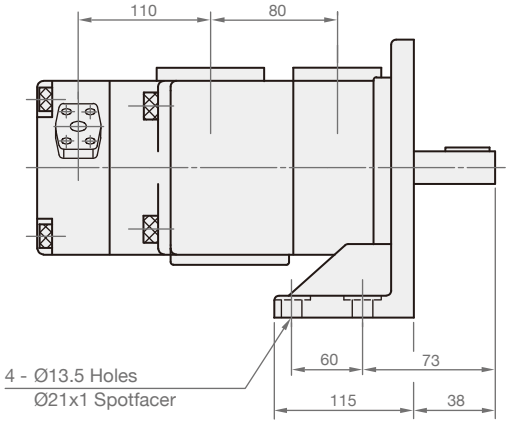
Shaft	A	B	C	L
01	Ø22.23	24.5	6.35	61
02	Ø25.4	28.18	6.35	61
03	Ø30	33	7	68
04	spline shaft 7/8" -13T			

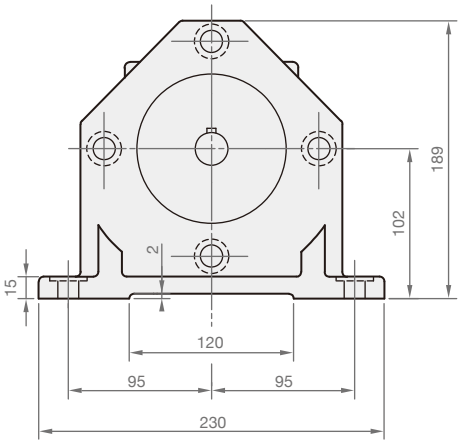






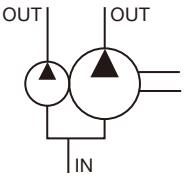
▸ VQ215 (Foot Type)





SVQ215

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
SVQ215	32	40	3.2

ORDER CODES

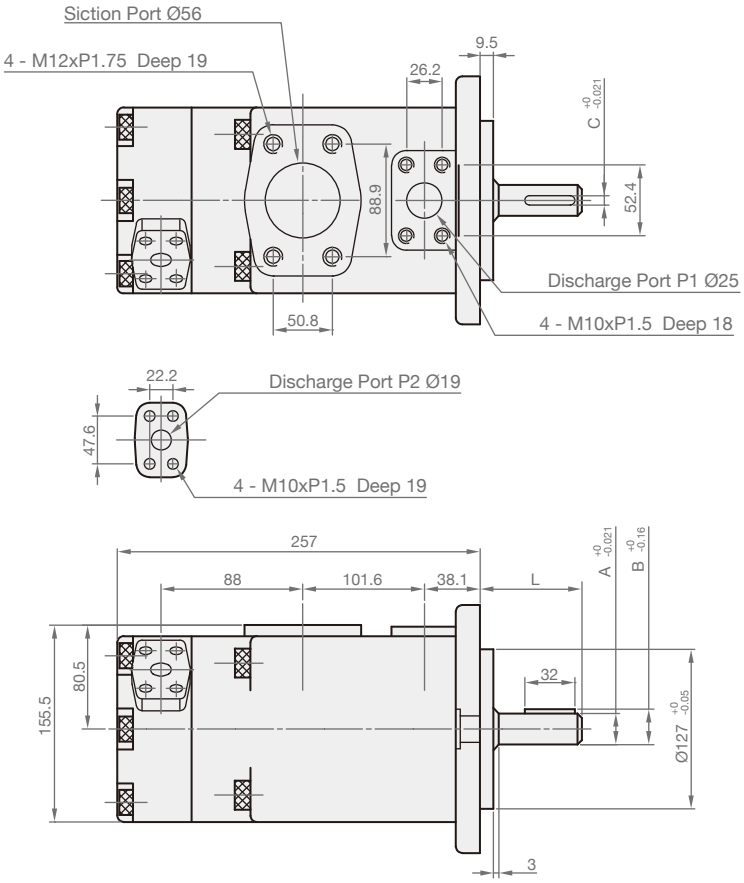
SVQ215 - 43 - 19 - F - R A L D - 02

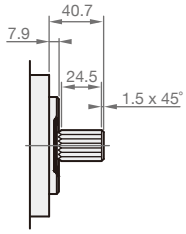
1 | 2 P1 | 2 P2 | 3 | 4 5 6 7 | 8

1	Model Name	SVQ215	
2	Displacement	P1: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
		P2: 06, 08, 11, 14, 17, 19, 23, 26, 31, 38	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
8	Shaft Type	01, 02, 03, 04	

DIMENSION (UNIT : mm)

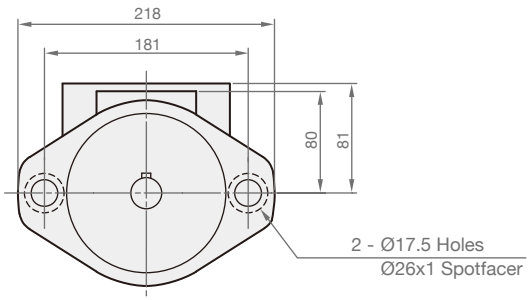
▸ SVQ215 (Flange Type)



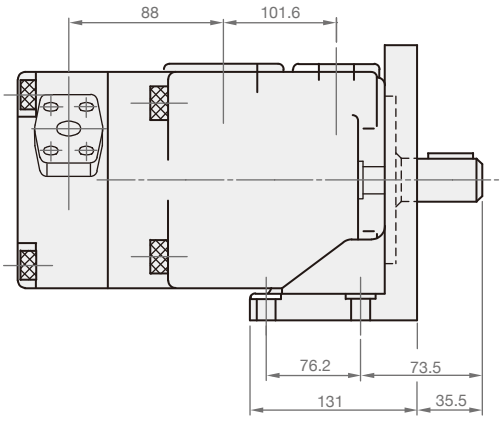


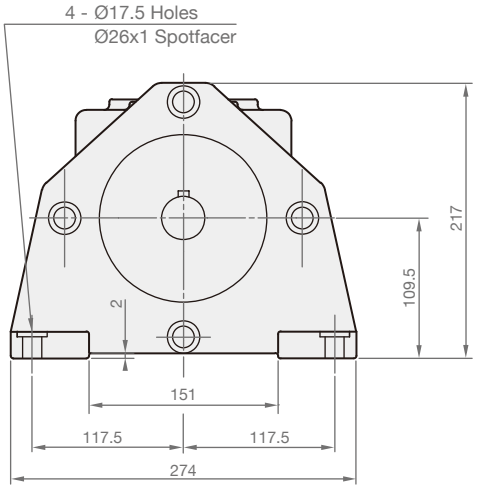
Shaft Type : 04
16/32 d.p. -13 teeth
30˚ pressure angle
flat root side fit

Shaft	A	B	C	L
01	Ø22.23	24.5	6.35	61
02	Ø25.4	28.18	6.35	61
03	Ø30	33	7	68
04	spline shaft 7/8" -13T			



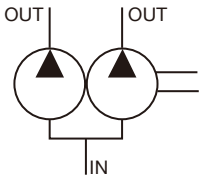
▸ SVQ215 (Foot Type)





VQ225

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ225	30.6	35.5	3.2

ORDER CODES

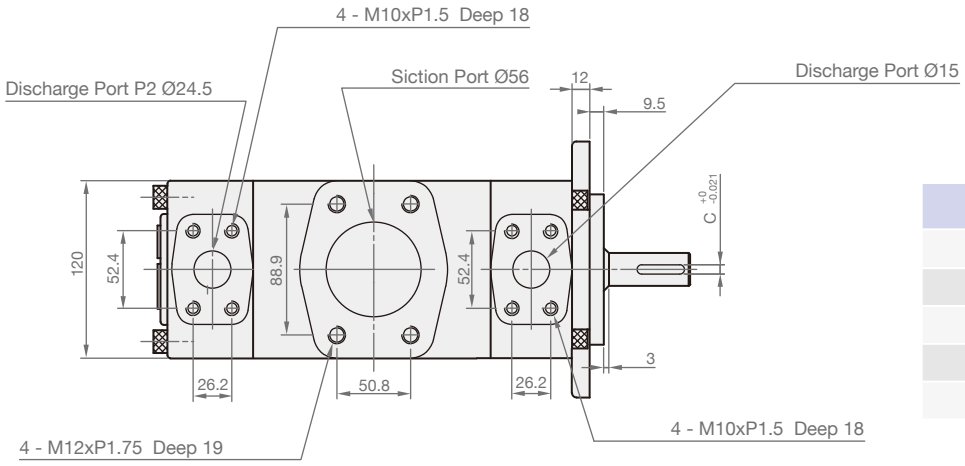
VQ225 - 43 - 26 - F - R A A A - 01

① ② P1 ② P2 ③ ④ ⑤ ⑥ ⑦ ⑧

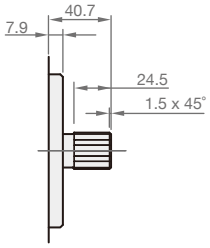
①	Model Name	VQ225	
②	Displacement	18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑧	Shaft Type	01, 02, 03, 04, 05	

DIMENSION (UNIT : mm)

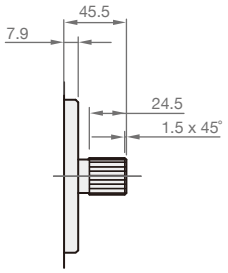
▸ VQ225 (Flange Type)



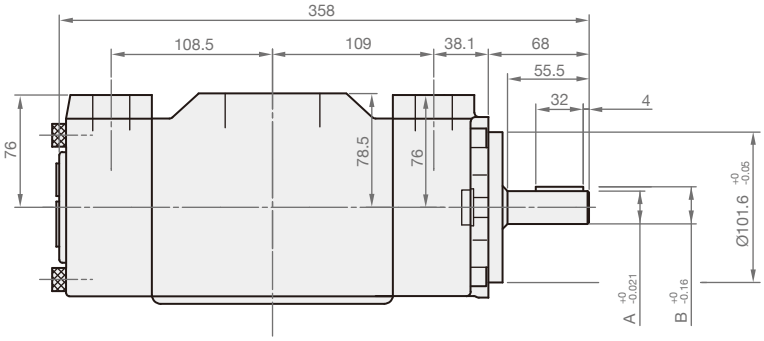
Shaft	A	B	C
01	Ø22.23	24.5	6.35
02	Ø25.4	28.18	6.35
03	Ø30	33	7
04	spline shaft 7/8" -13T		
05	spline shaft 1" -15T		

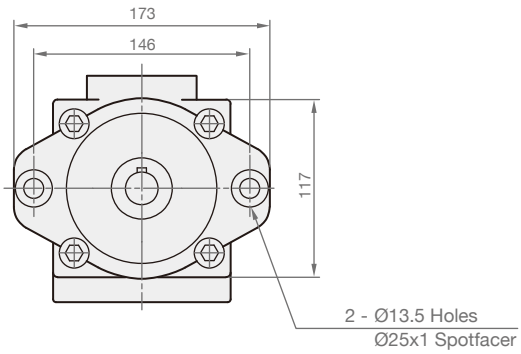


Shaft Type : 04
16/32 d.p. -13 teeth
30° pressure angle
flat root side fit

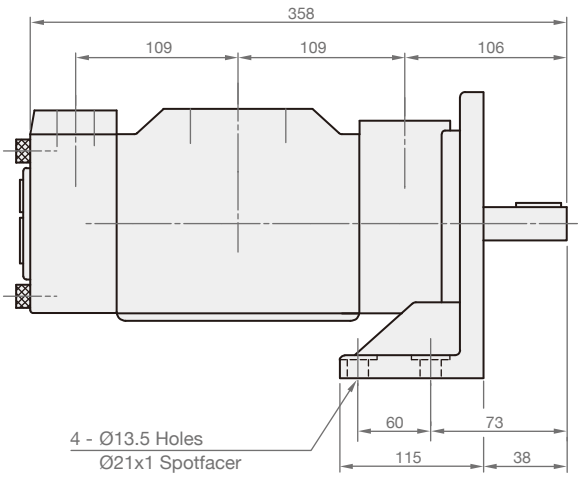


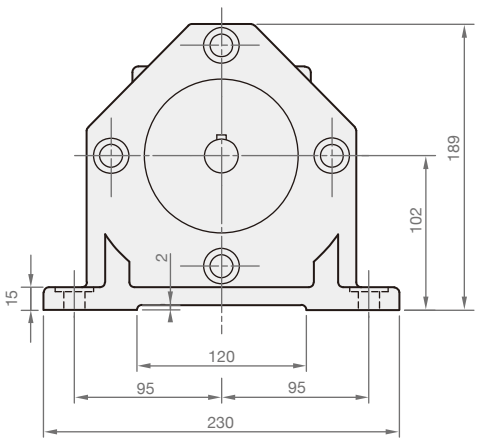
Shaft Type : 05
16/32 d.p. -15 teeth
30° pressure angle
flat root side fit





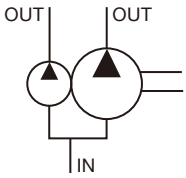
▸ VQ225 (Foot Type)





SVQ315

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
SVQ315	44.4	52	3.5

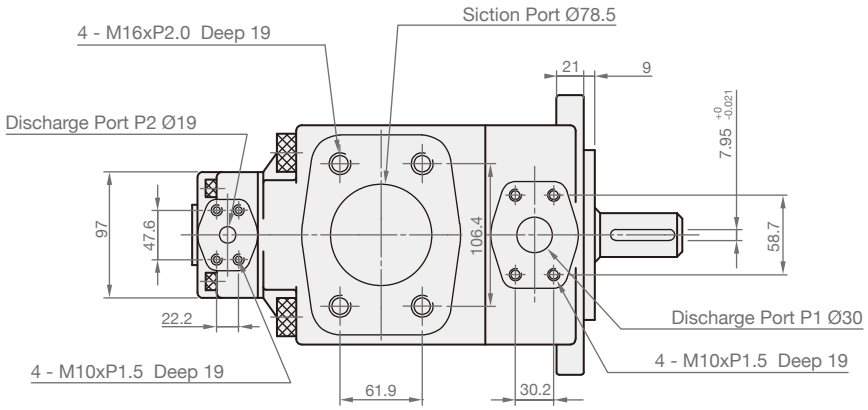
ORDER CODES

SVQ315	-	94	-	17	-	F	-	R	A	A	A	-	02
①		② P1		② P2		③		④	⑤	⑥	⑦		⑧

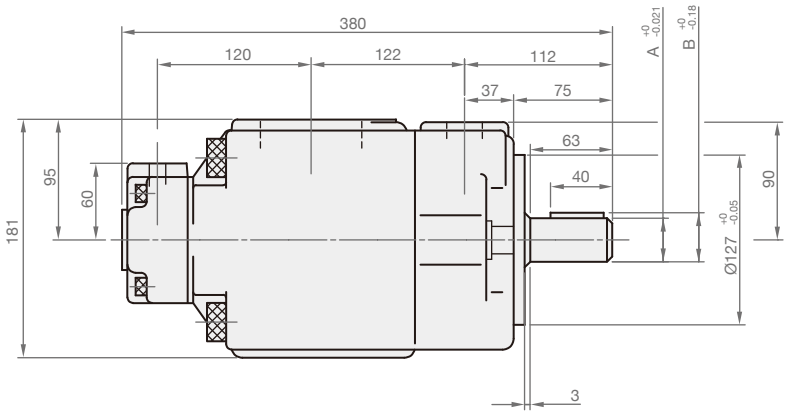
①	Model Name	SVQ315	
②	Displacement	P1: 60, 66, 76, 82, 88, 94, 108, 116, 125	
		P2: 06, 08, 11, 14, 17, 19, 23, 26, 31, 38	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑧	Shaft Type	01, 02	

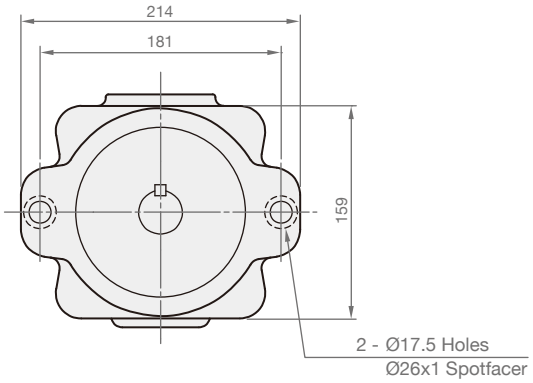
DIMENSION (UNIT : mm)

▸ SVQ315 (Flange Type)

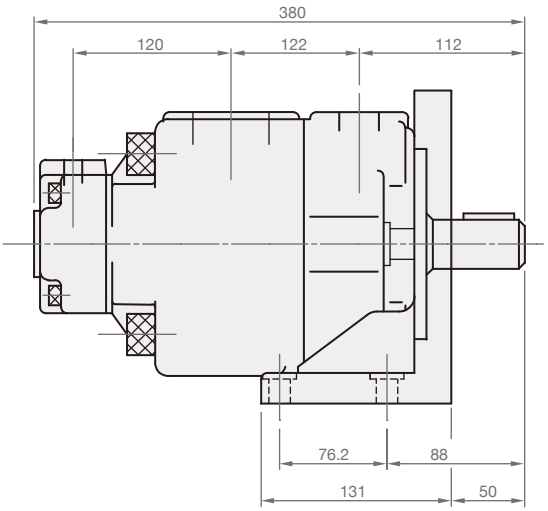


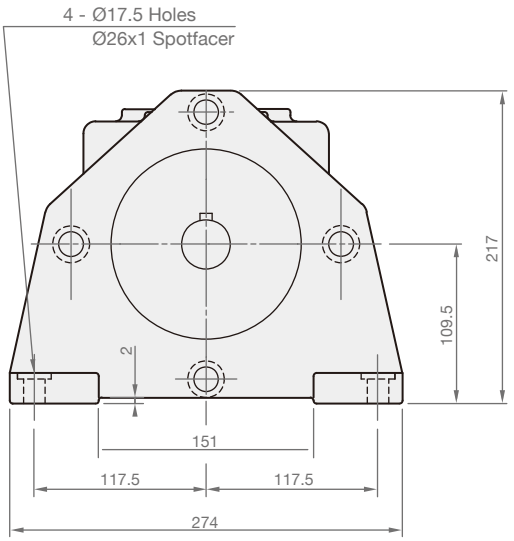
Shaft	A	B
01	Ø31.75	35.32
02	Ø34.9	38.56





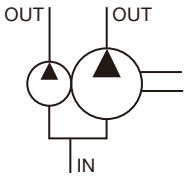
▸ SVQ315 (Foot Type)





VQ325

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ325	50	58	3.5

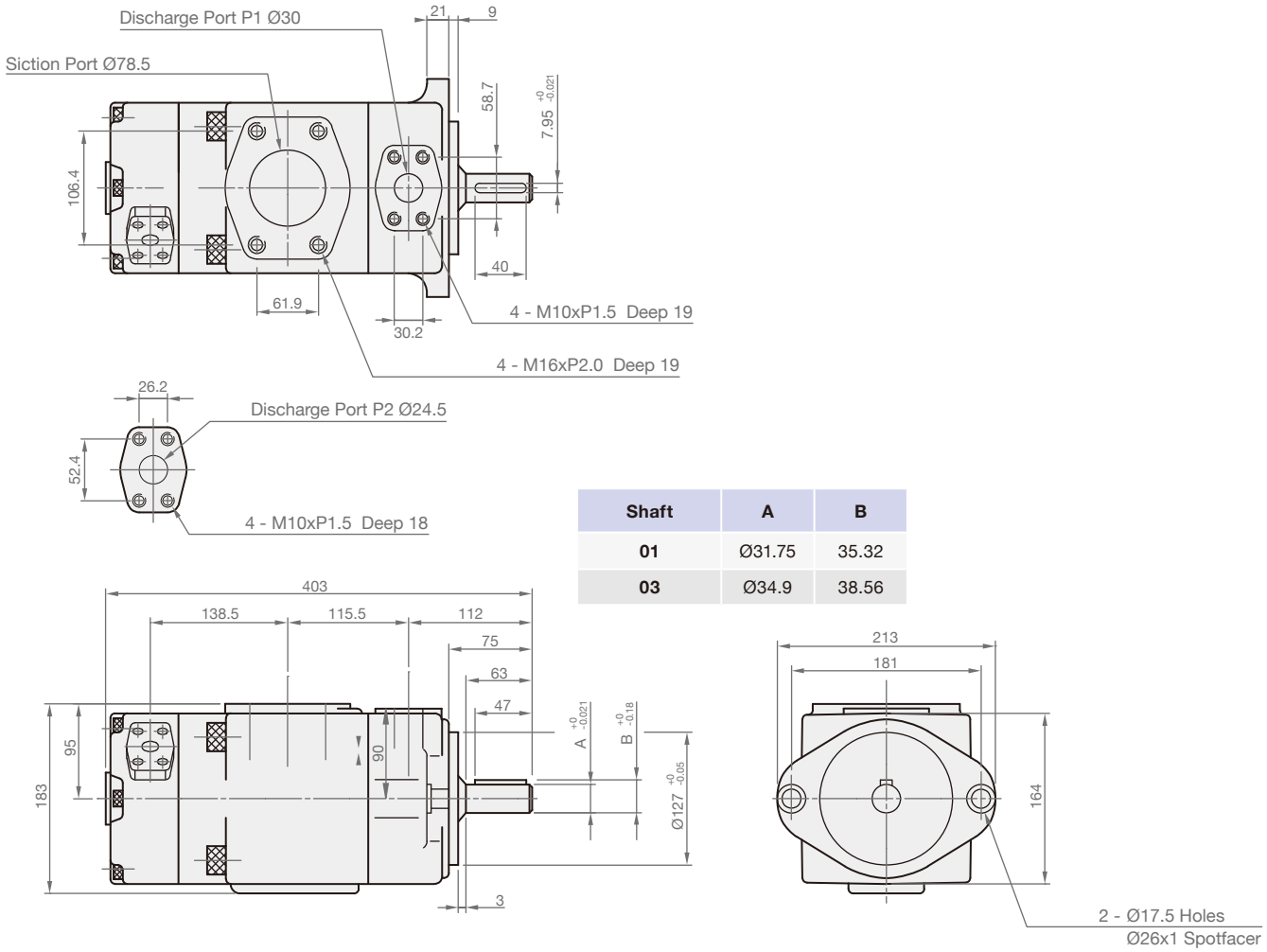
ORDER CODES

VQ325	-	108	-	32	-	F	-	R	A	R	C	-	01
①		② P1		② P2		③		④	⑤	⑥	⑦		⑧

①	Model Name	VQ325	
②	Displacement	P1: 60, 66, 76, 82, 88, 94, 108, 116, 125	
		P2: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
⑧	Shaft Type	01, 02	

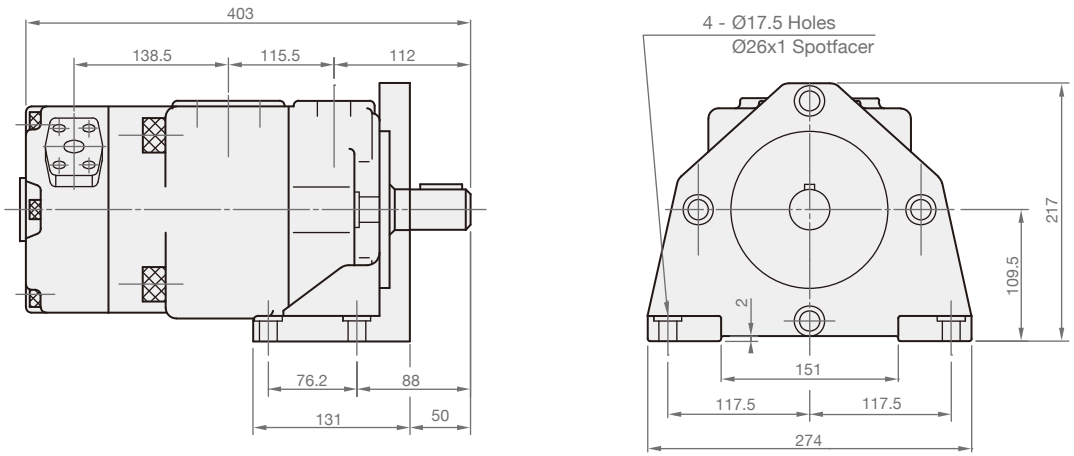
DIMENSION (UNIT : mm)

▸ VQ325 (Flange Type)



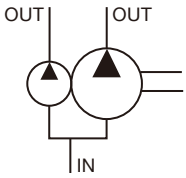
Shaft	A	B
01	Ø31.75	35.32
03	Ø34.9	38.56

▸ VQ325 (Foot Type)



VQ425

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ425	63	71	4.8

ORDER CODES

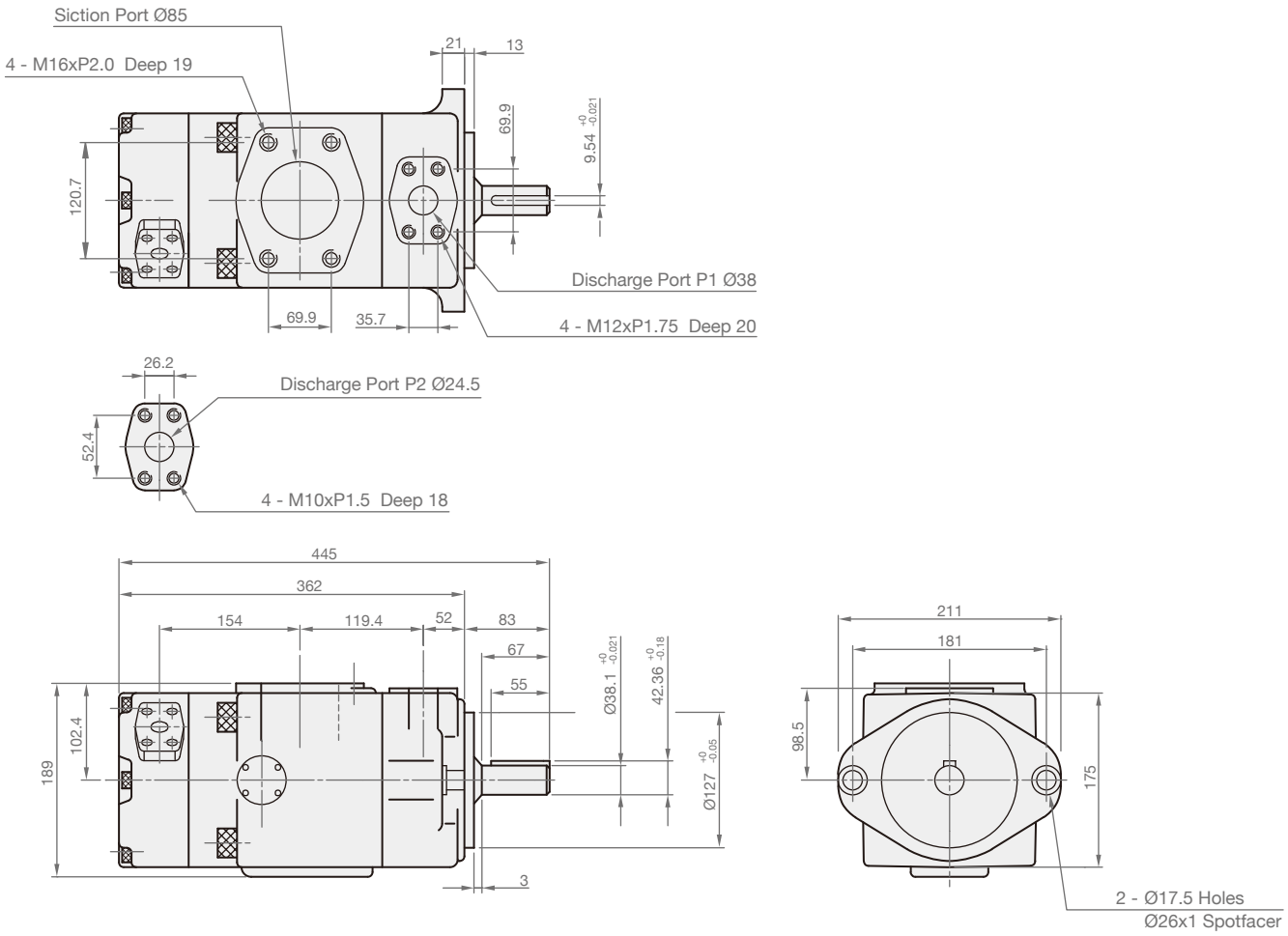
VQ425 - 189 - 38 - F - R A A A - 01

① ② P1 ② P2 ③ ④ ⑤ ⑥ ⑦ ⑧

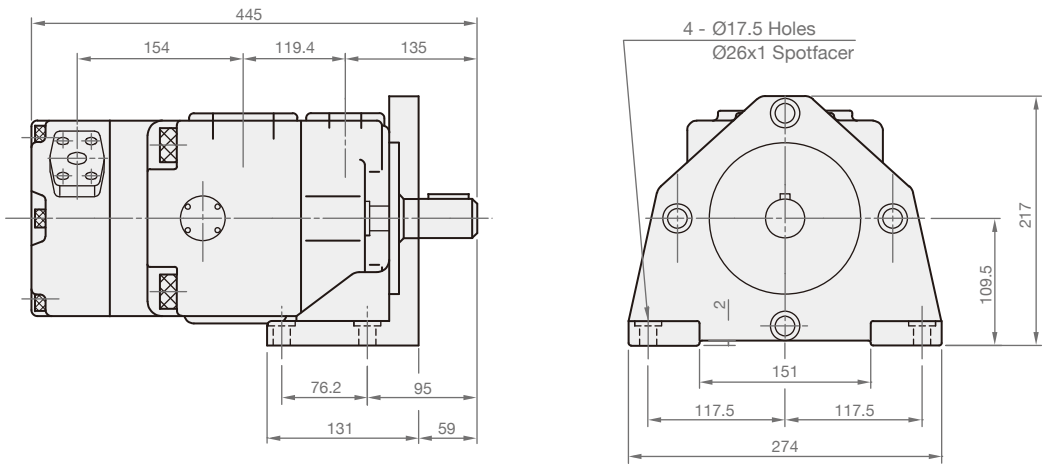
①	Model Name	VQ425	
②	Displacement	P1: 136, 156, 189, 200, 216, 237	
		P2: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
⑧	Shaft Type	01, 02, 03	

DIMENSION (UNIT : mm)

▸ VQ425 (Flange Type)

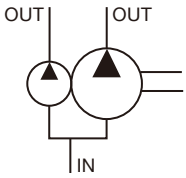


▸ VQ425 (Foot Type)



DVQ425

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
DVQ425	73	104	4.8

ORDER CODES

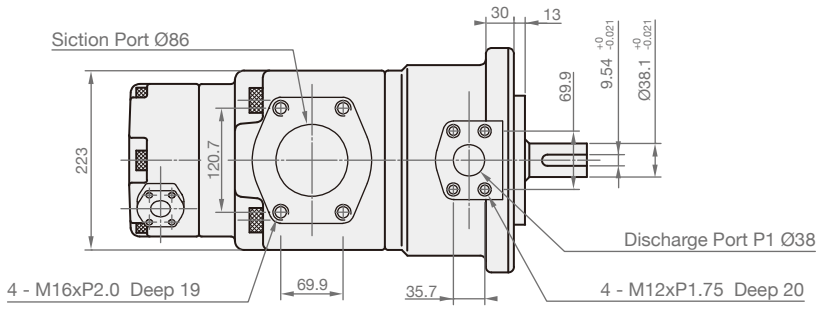
DVQ425 - 216 - 52 - F - R B L D - 01

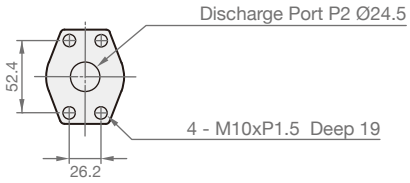
① ② P1 ② P2 ③ ④ ⑤ ⑥ ⑦ ⑧

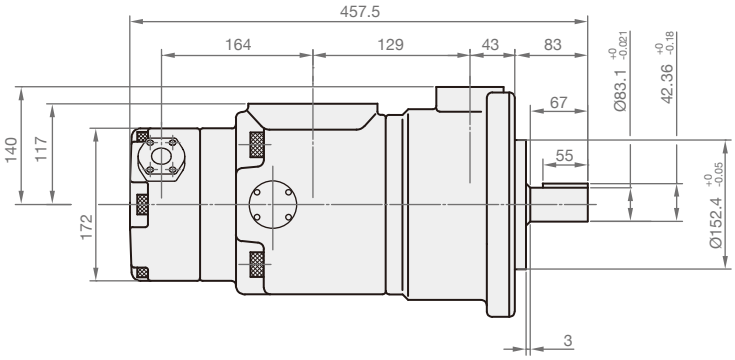
①	Model Name		
②	Displacement		P1: 136, 156, 189, 200, 216, 237
			P2: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
⑧	Shaft Type		01, 02, 03

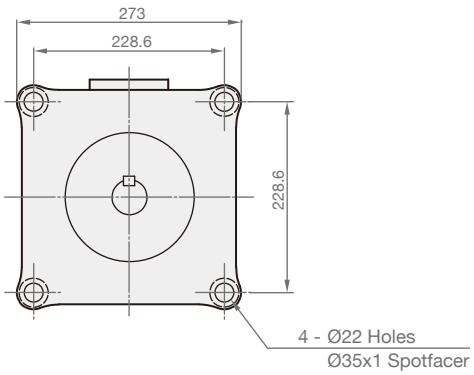
DIMENSION (UNIT : mm)

▸ DVQ425 (Flange Type)

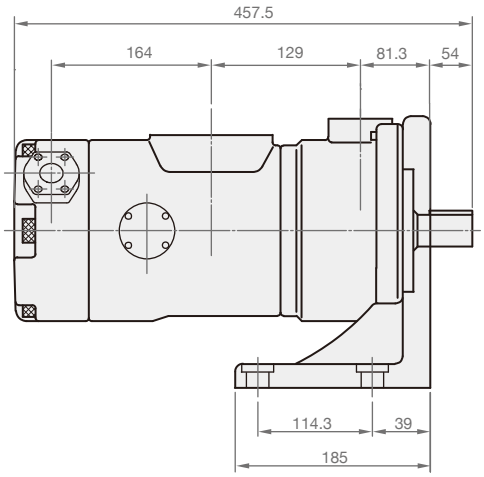


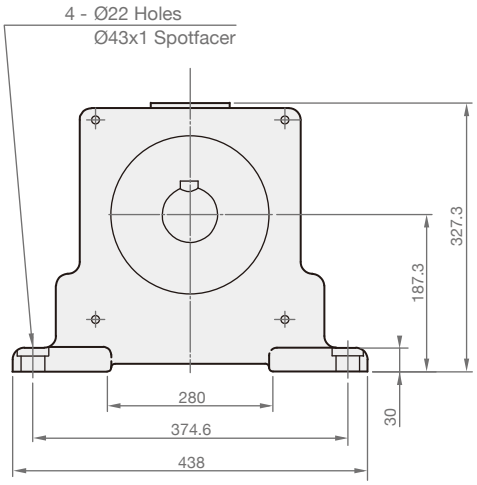






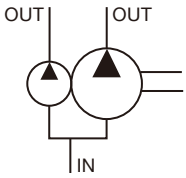
▸ DVQ425 (Foot Type)





SVQ425

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
SVQ425	80	111	4.8

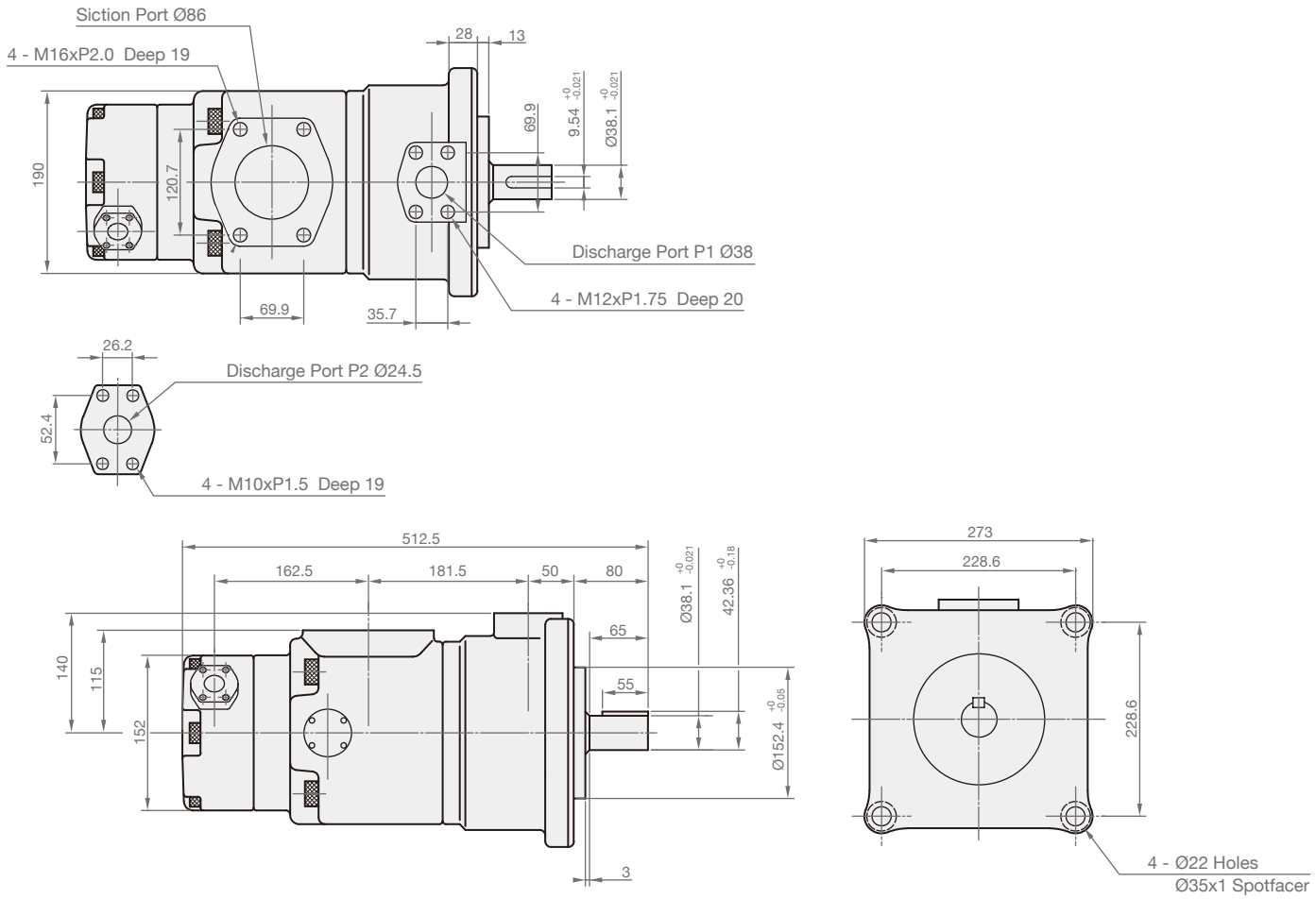
ORDER CODES

SVQ425	-	237	-	65	-	F	-	R	R	L	D	-	01
①		② P1		② P2		③		④	⑤	⑥	⑦		⑧

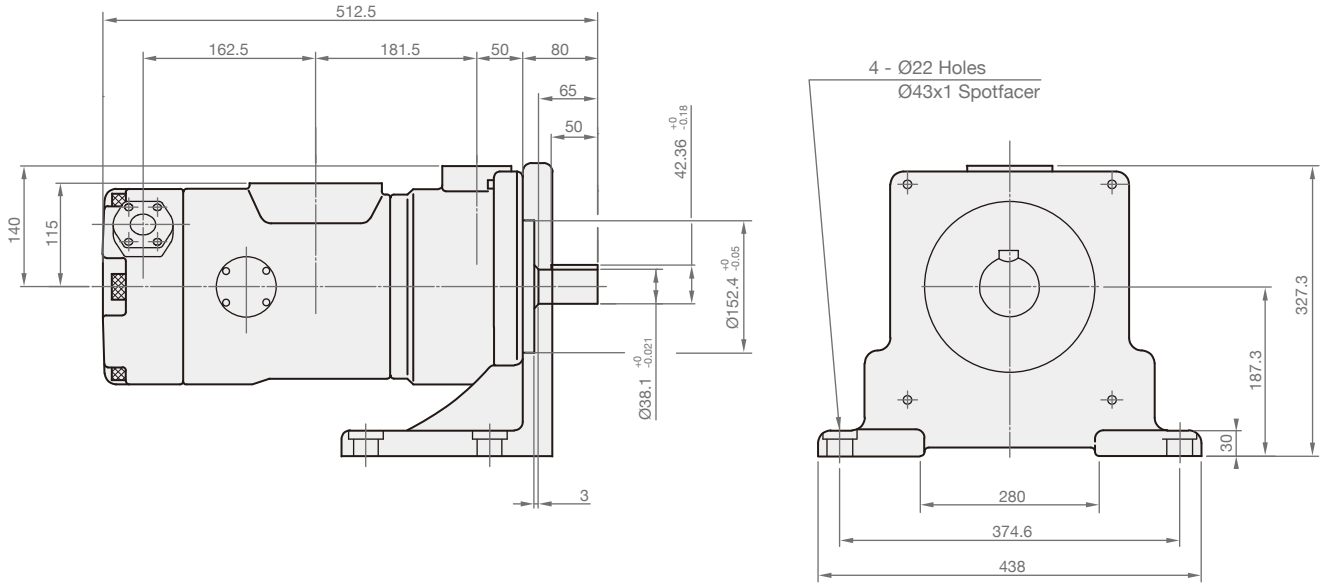
①	Model Name	SVQ425	
②	Displacement	P1: 136, 156, 189, 200, 216, 237	
		P2: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
⑧	Shaft Type	01, 02, 03	

DIMENSION (UNIT : mm)

▸ SVQ425 (Flange Type)

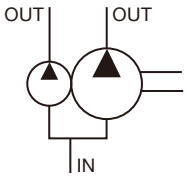


▸ SVQ425 (Foot Type)



VQ435

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
VQ435	76	93	5.2

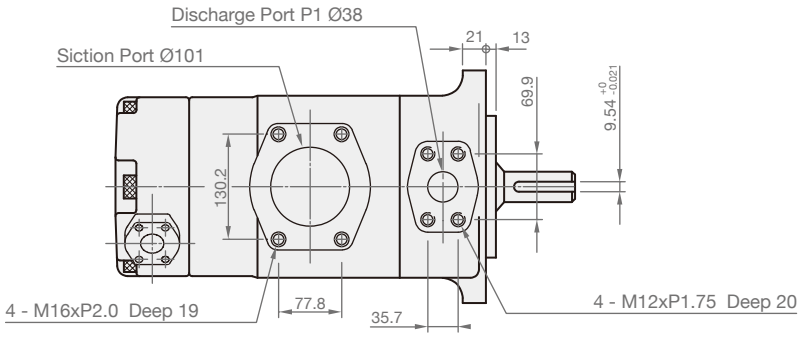
ORDER CODES

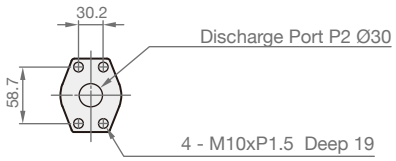
VQ435	-	189	-	88	-	F	-	R	A	A	A	-	01
1		2 P1		2 P2		3		4	5	6	7		8

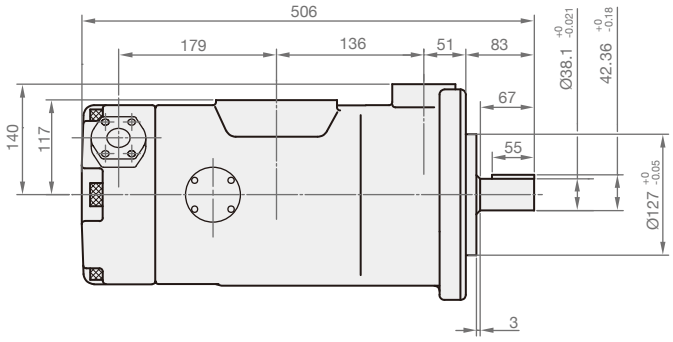
1	Model Name	VQ435	
2	Displacement	P1: 136, 156, 189, 200, 216, 237	
		P2: 60, 66, 76, 82, 88, 94, 108, 116, 125	
3	Mounting Type	F	flange type
		L	foot type
4	Rotation Direction	R	clockwise
		L	counter - clockwise
5	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
6	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
7	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
8	Shaft Type	01, 02, 03	

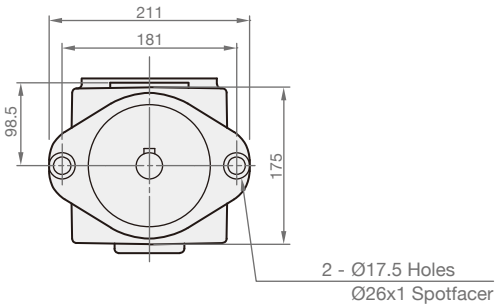
DIMENSION (UNIT : mm)

▸ VQ435 (Flange Type)

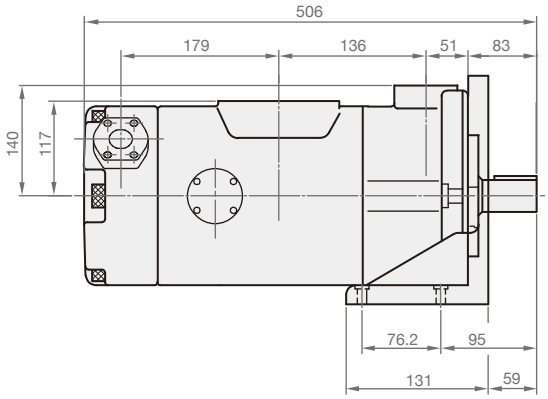


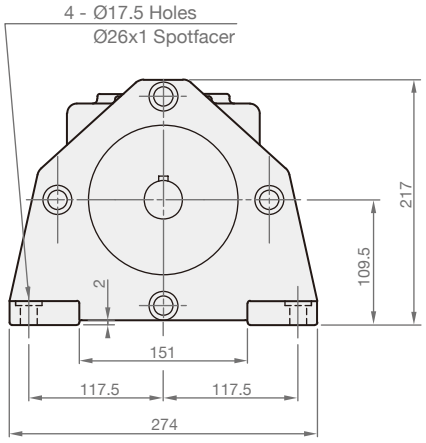






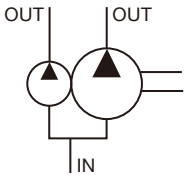
▸ VQ435 (Foot Type)





DVQ435

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
DVQ435	84	115	5.2

ORDER CODES

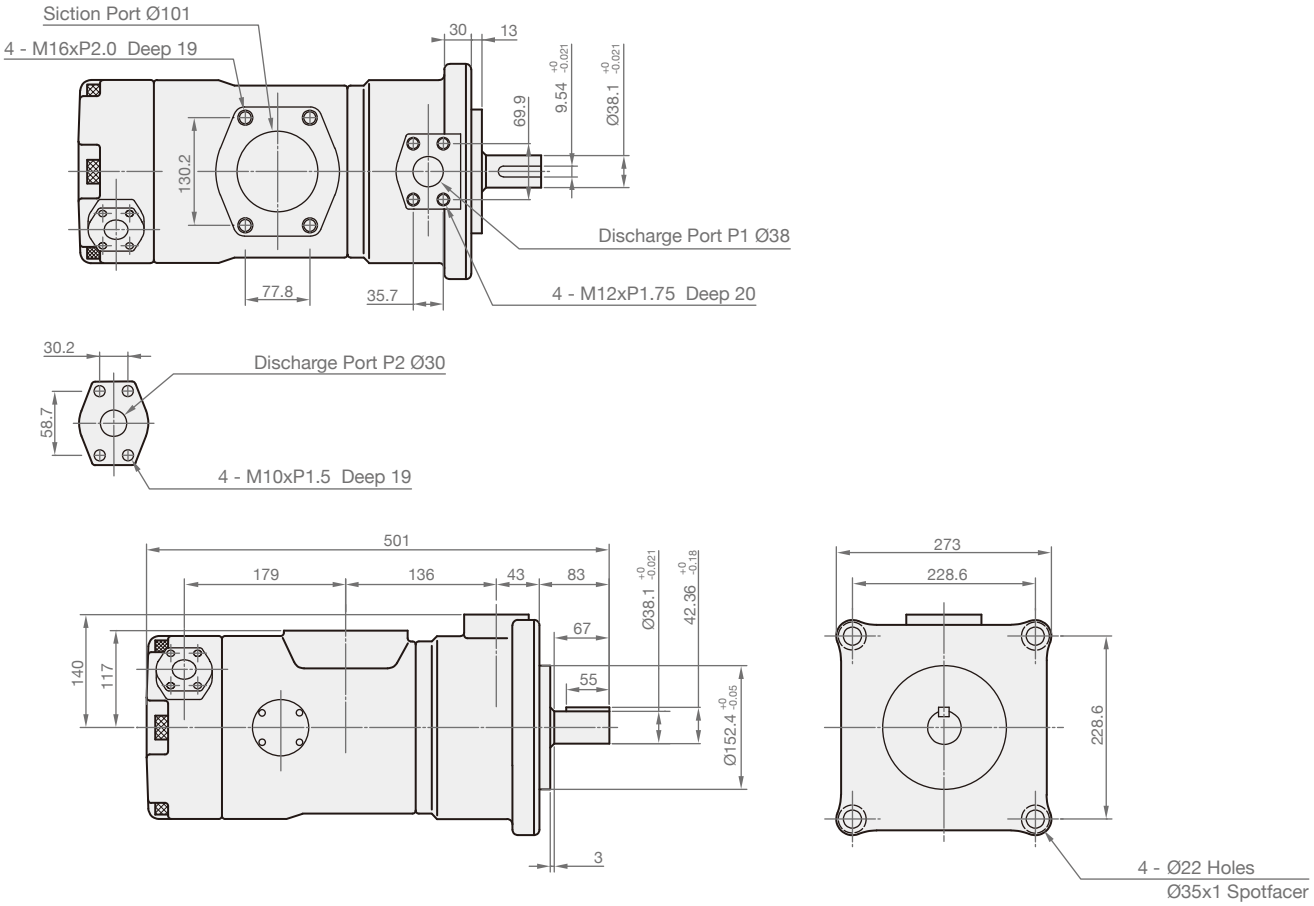
DVQ435 - 216 - 108 - F - R B R C - 01

① ② P1 ② P2 ③ ④ ⑤ ⑥ ⑦ ⑧

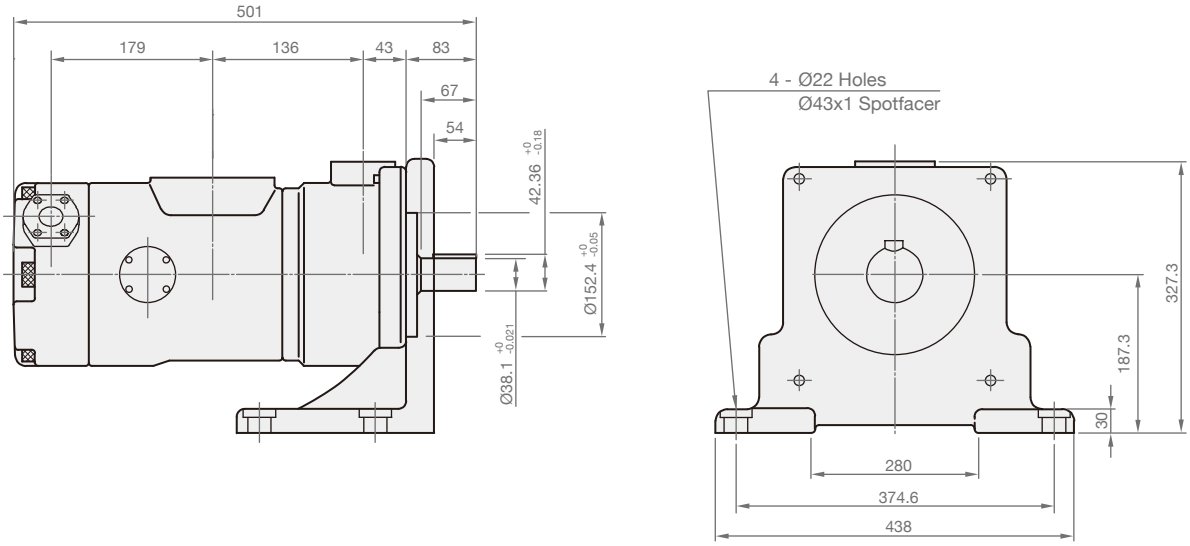
①	Model Name	DVQ435	
②	Displacement	P1: 136, 156, 189, 200, 216, 237	
		P2: 60, 66, 76, 82, 88, 94, 108, 116, 125	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
⑧	Shaft Type	01, 02, 03	

DIMENSION (UNIT : mm)

▸ DVQ435 (Flange Type)

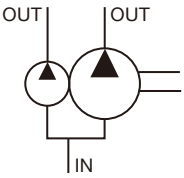


▸ DVQ435 (Foot Type)



SVQ435

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
SVQ435	91	122	5.2

ORDER CODES

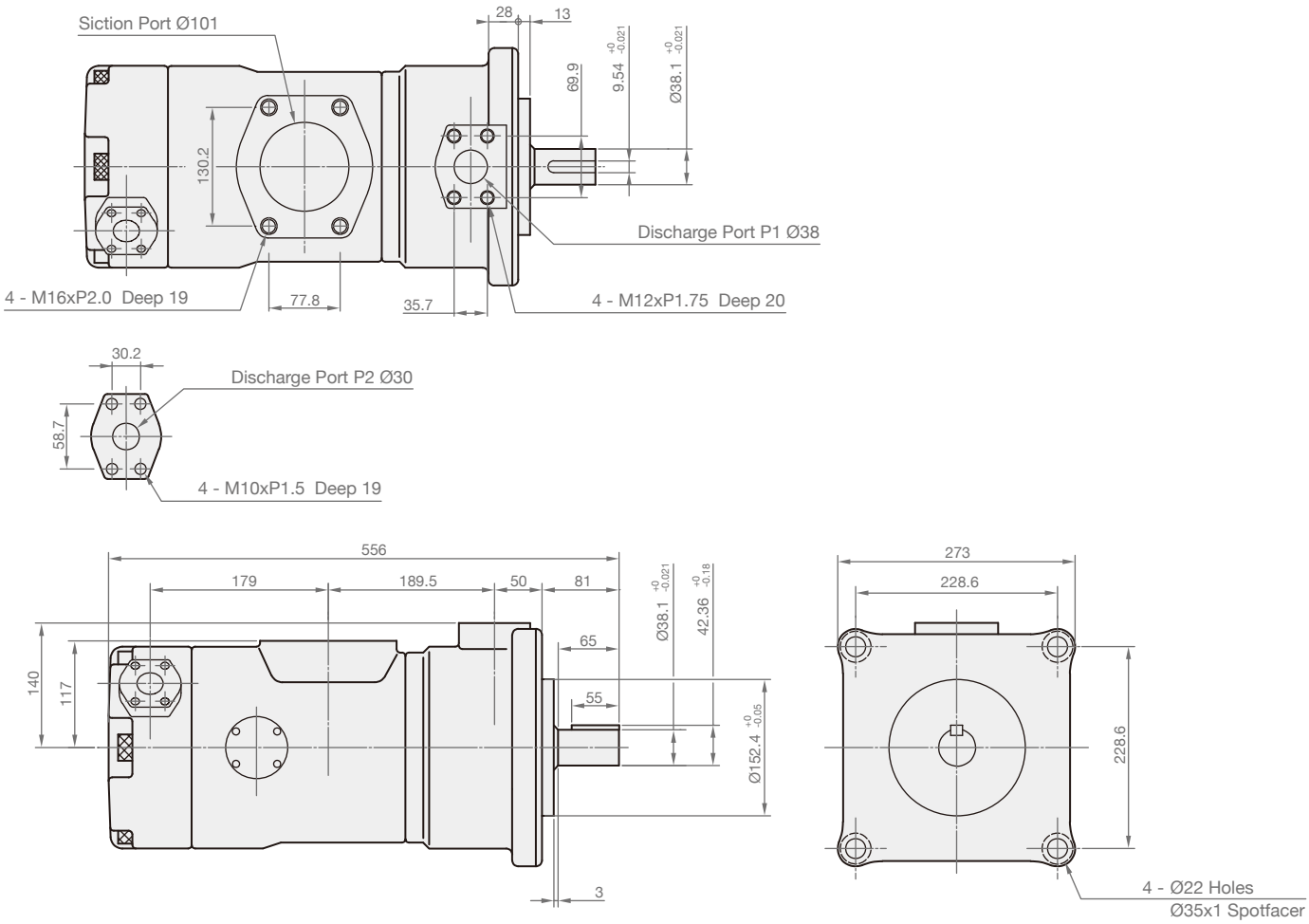
SVQ435 - 237 - 125 - F - R L L D - 01

① ② P1 ② P2 ③ ④ ⑤ ⑥ ⑦ ⑧

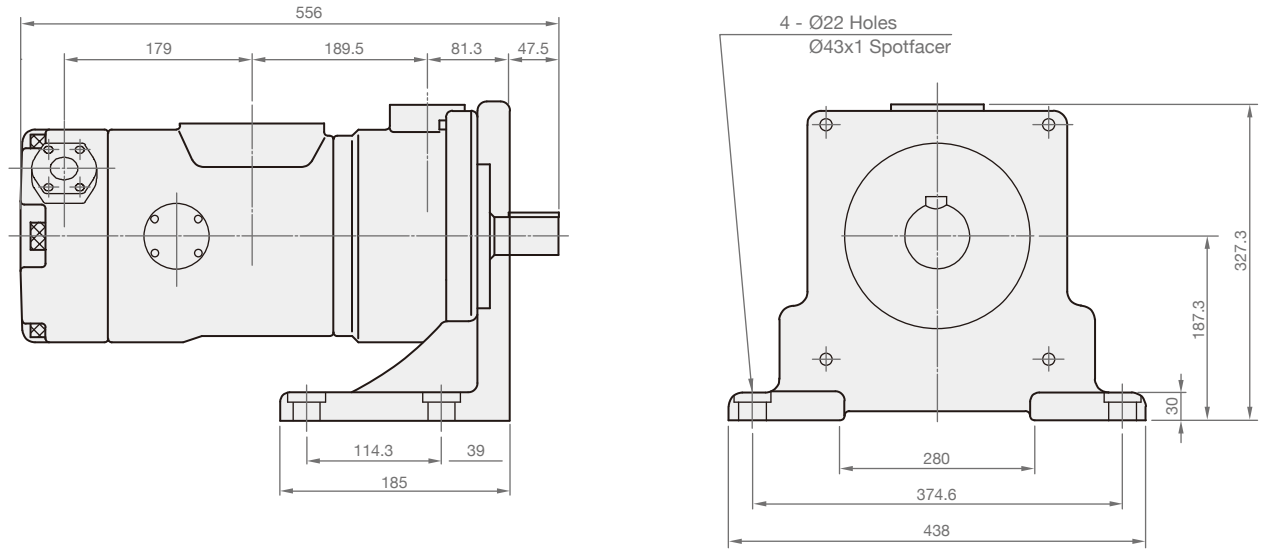
①	Model Name	SVQ435	
②	Displacement	P1: 136, 156, 189, 200, 216, 237	
		P2: 60, 66, 76, 82, 88, 94, 108, 116, 125	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Discharge Position P2	A	on right hand upward 45° (normal)
		B	on right hand downward 45°
		C	on left hand downward 45°
		D	on left hand upward 45°
⑧	Shaft Type	01, 02, 03	

DIMENSION (UNIT : mm)

▸ SVQ435 (Flange Type)

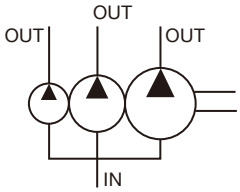


▸ SVQ435 (Foot Type)



DVQ2215

SYMBOLS



WEIGHT

Model	Weight (kg)		
	Flange Type	Foot Type	Outlet & Inlet Flange
DVQ2215	37.3	-	

ORDER CODES

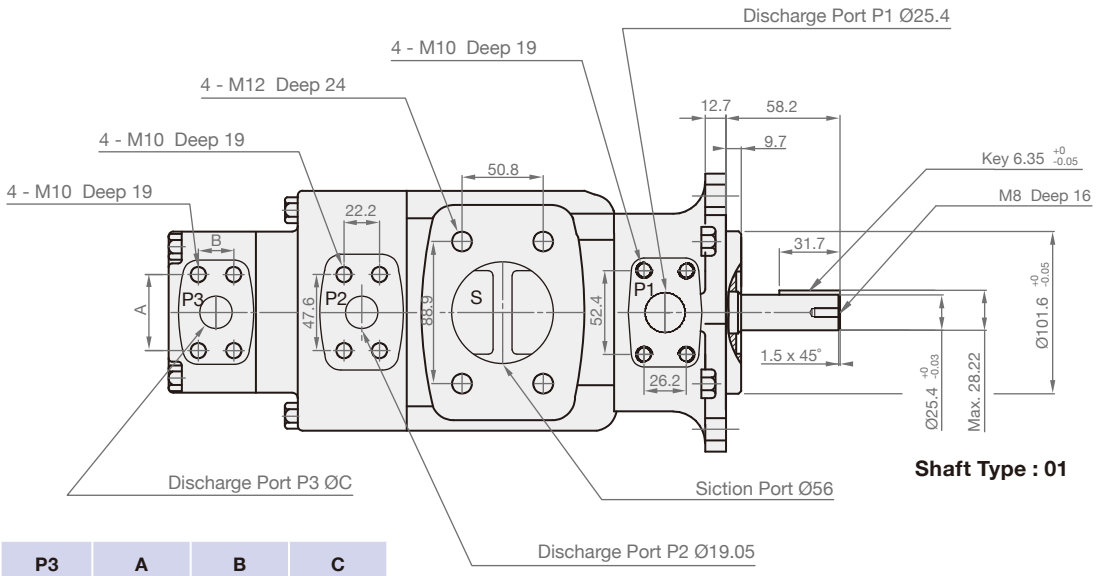
DVQ2215	-	65	-	38	-	17	-	F	-	R	-	A	A	A	A	-	01	-	02
①		② P1		② P2		② P3		③		④		⑤ P1	⑥	⑤ P2	⑤ P3		⑦		⑧

①	Model Name	DVQ2215	
②	Displacement	P1: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
		P2: 06, 08, 11, 14, 17, 19, 23, 26, 32, 34, 38, 44	
		P3: 06, 08, 11, 14, 17, 19, 23, 26, 31	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1, P2, P3	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Shaft Type	01, 02, 03, 05, 06, 07	
⑧	Port Connection Variables P3	01, 02	

MODEL SPEC.

Port	Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm^2)	
		1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
P1	DVQ25-18	18.1	21.7	27.2	32.6	1800	800	210	260
	DVQ25-22	22.1	26.5	33.3	39.8	1800	800	210	260
	DVQ25-26	26.2	31.4	39.3	47.1	1800	800	210	260
	DVQ25-32	32.1	38.5	48.1	57.7	1800	800	210	260
	DVQ25-38	38.2	45.8	57.3	68.7	1800	800	210	260
	DVQ25-43	43.2	51.8	64.8	77.7	1800	800	210	260
	DVQ25-47	47.1	56.5	70.0	85.0	1800	800	210	260
	DVQ25-52	52.3	62.7	78.4	94.1	1800	800	210	260
	DVQ25-60	60.2	72.7	90.3	108.3	1800	800	210	260
	DVQ25-65	65.3	78.3	97.9	117.5	1800	800	210	230
	DVQ25-75	75.0	90.0	112.5	-	1500	800	210	230
P2	DVQ20-06	6.2	7.4	9.3	11.2	1800	800	210	260
	DVQ20-08	8.1	9.7	12.1	14.6	1800	800	210	260
	DVQ20-11	11.2	13.4	13.4	20.1	1800	800	210	260
	DVQ20-14	14.3	17.1	21.5	25.7	1800	800	210	260
	DVQ20-17	17.1	20.5	25.6	30.7	1800	800	210	260
	DVQ20-19	19.2	23.0	28.8	34.5	1800	800	210	260
	DVQ20-23	23.3	27.9	34.9	41.9	1800	800	210	260
	DVQ20-26	26.1	31.3	39.1	46.9	1800	800	210	260
	DVQ20-32	32.1	38.3	47.6	-	1500	800	175	240
	DVQ20-34	34.1	40.8	50.4	-	1500	800	175	240
	DVQ20-38	38.1	45.9	-	-	1200	800	175	240
	DVQ20-44	44.1	52.9	-	-	1200	800	175	210
P3	VQ15-06	6.2	7.4	9.3	11.2	1800	800	210	240
	VQ15-08	8.1	9.7	12.1	14.6	1800	800	210	240
	VQ15-11	11.2	13.4	16.8	20.1	1800	800	210	240
	VQ15-14	14.3	17.1	21.5	25.7	1800	800	210	240
	VQ15-17	17.1	20.5	25.6	30.7	1800	800	210	240
	VQ15-19	19.2	23.0	28.8	34.5	1800	800	210	240
	VQ15-23	23.3	27.9	34.9	41.9	1800	800	210	240
	VQ15-26	26.1	31.3	39.1	46.9	1800	800	210	240
	VQ15-31	31.1	37.3	46.6	-	1500	800	175	240

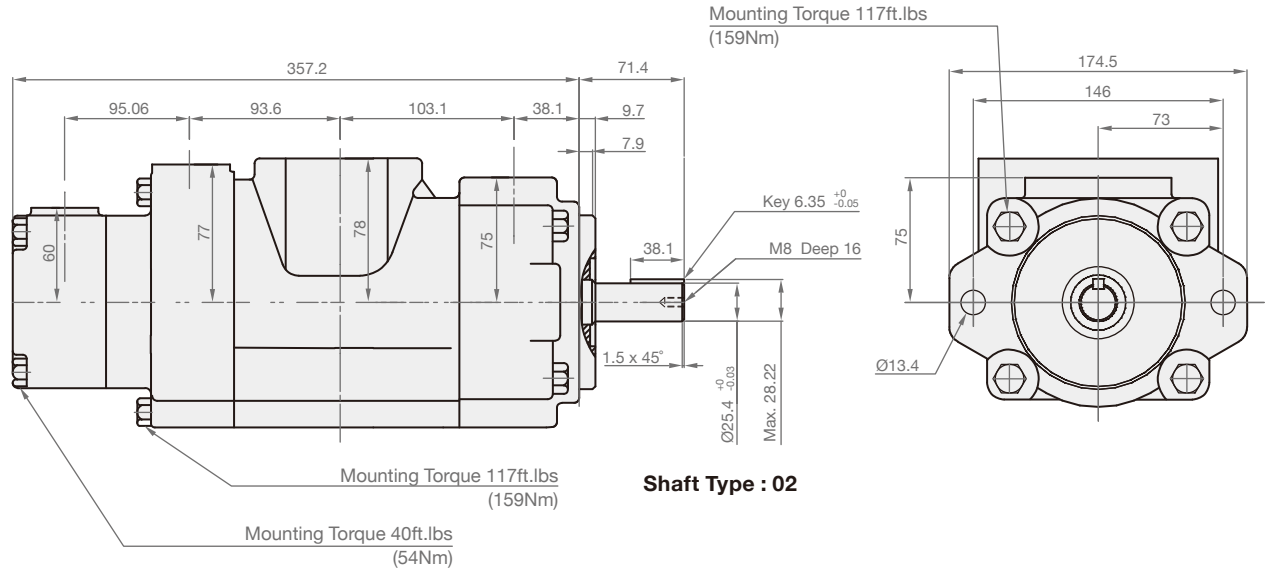
▸ DVQ2215



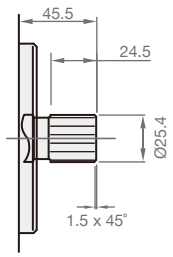
Shaft Type : 01

P3	A	B	C
01	38.1	17.5	Ø15
02	47.6	22.2	Ø19.05

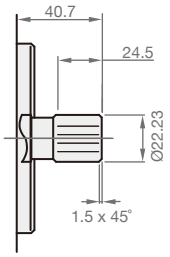
	Peak. (kgf/cm²)	Cont. (kgf/cm²)
P1	260	210
P2	260	210
P3	240	210



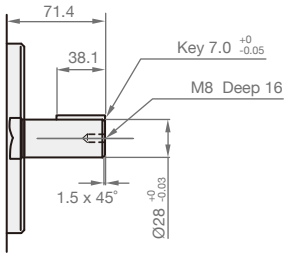
Shaft Type : 02



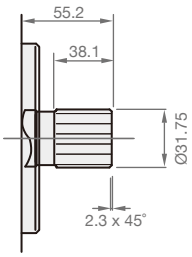
Shaft Type : 03
SAE BB splined shaft
Class 1-J498b
16/32 d.p. -15 teeth
30˚ pressure angle
flat root side fit



Shaft Type : 05
SAE B splined shaft
Class 1-J498b
16/32 d.p. -13 teeth
30˚ pressure angle
flat root side fit



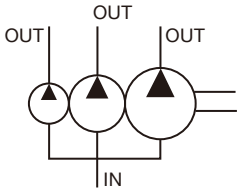
Shaft Type : 06



Shaft Type : 07
Splined shaft
Class 1-J498b
12/24 d.p. -14 teeth
30˚ pressure angle
flat root side fit

DVQ4325

SYMBOLS



WEIGHT

Model	Weight (kg)	
	Flange Type	Foot Type
DVQ4325	92	123

ORDER CODES

DVQ4325 - 200 - 94 - 32 - F - R - A A A A - 01

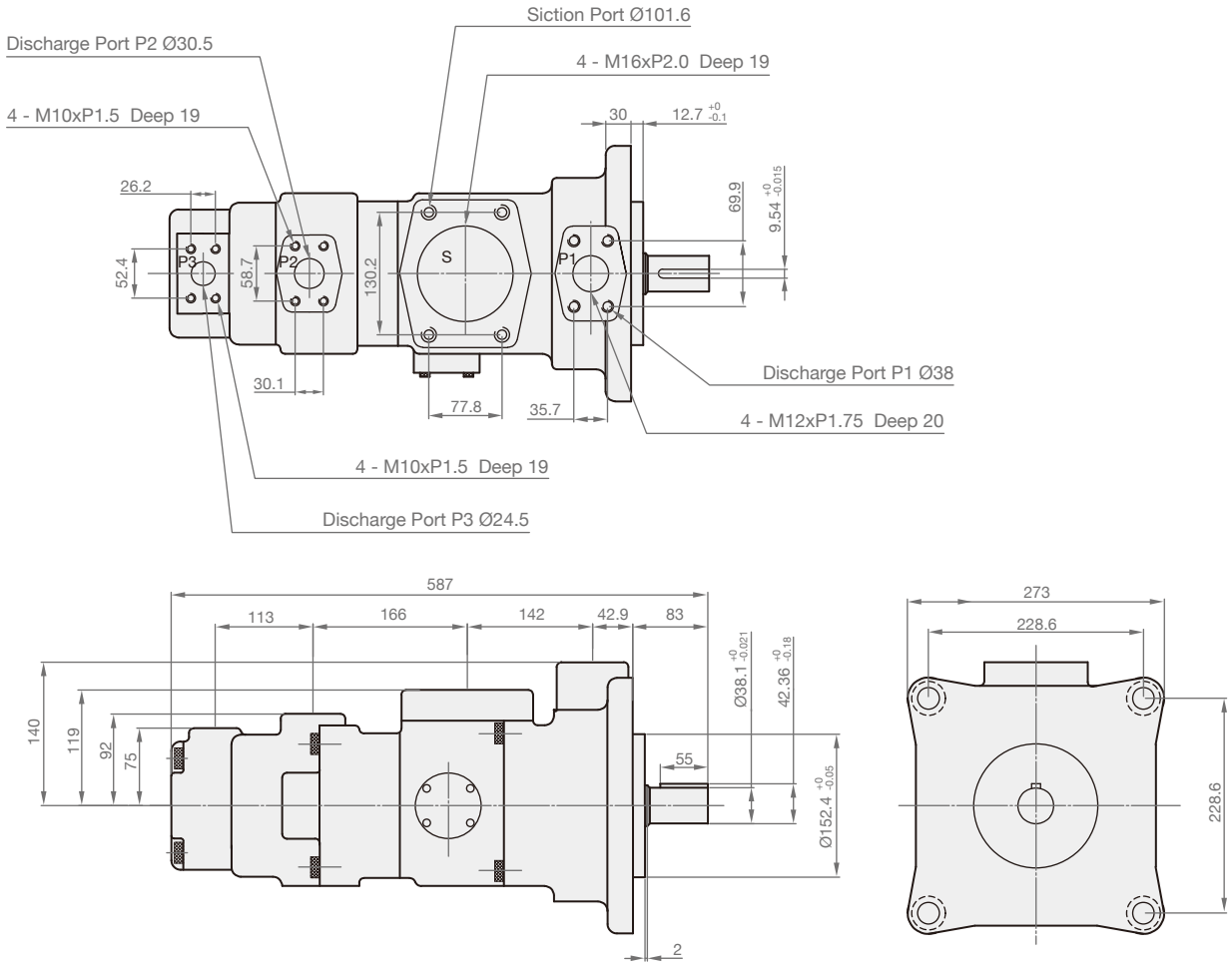
① ② P1 ② P2 ② P3 ③ ④ ⑤ P1 ⑥ ⑤ P2 ⑤ P3 ⑦

①	Model Name	DVQ4325	
②	Displacement	P1: 136, 156, 189, 200, 216, 237	
		P2: 60, 66, 76, 82, 88, 94, 108, 116, 125	
		P3: 18, 22, 26, 32, 38, 43, 47, 52, 60, 65, 75	
③	Mounting Type	F	flange type
		L	foot type
④	Rotation Direction	R	clockwise
		L	counter - clockwise
⑤	Discharge Position P1, P2, P3	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑥	Suction Position	A	upward (normal)
		B	downward
		R	on right hand
		L	on left hand
⑦	Shaft Type	01	

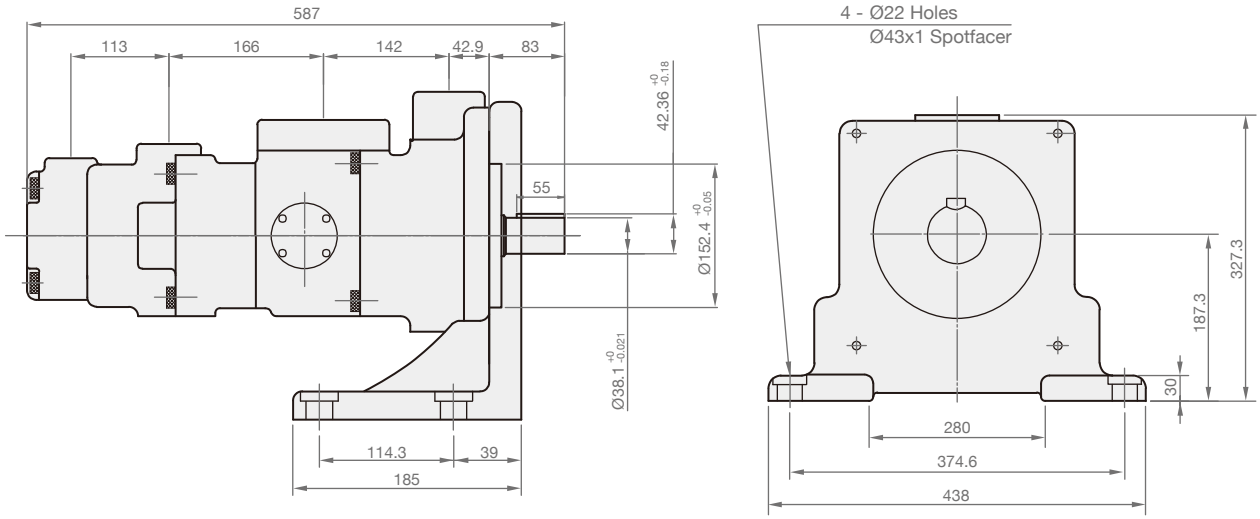
MODEL SPEC.

Port	Model	Deliver Flow at No-load Pressure (l/min) Speed (r.p.m.)				Speed (r.p.m.)		Max. Pressure (kgf/cm^2)	
		1000	1200	1500	1800	Max.	Min.	Cont.	Peak.
P1	DVQ45-136	136.8	164.0	204.0	246.0	1800	600	165	175
	DVQ45-156	156.2	188.0	234.0	280.0	1800	600	165	175
	DVQ45-189	189.5	227.0	284.0	340.0	1800	600	165	175
	DVQ45-200	200.0	240.0	300.0	360.0	1800	600	165	175
	DVQ45-216	216.0	260.0	324.0	-	1500	600	165	175
	DVQ45-237	237.0	285.0	355.0	-	1500	600	165	175
P2	VQ35-60	60.3	72.3	90.4	108.5	1800	600	175	210
	VQ35-66	66.4	79.6	99.6	119.5	1800	600	175	210
	VQ35-76	76.3	91.5	114.4	137.3	1800	600	175	210
	VQ35-82	82.2	98.6	123.3	147.9	1800	600	175	210
	VQ35-88	88.3	105.9	132.4	158.9	1800	600	175	210
	VQ35-94	94.5	113.4	141.7	170.1	1800	600	175	210
	VQ35-108	108.2	129.8	162.3	194.4	1800	600	175	210
	VQ35-116	116.1	139.3	174.1	208.9	1500	600	175	210
P3	VQ35-125	124.6	149.5	186.9	-	1800	800	210	260
	DVQ25-22	22.1	26.5	33.3	39.8	1800	800	210	260
	DVQ25-26	26.2	31.4	39.3	47.1	1800	800	210	260
	DVQ25-32	32.1	38.5	48.1	57.7	1800	800	210	260
	DVQ25-38	38.2	45.8	57.3	68.7	1800	800	210	260
	DVQ25-43	43.2	51.8	64.8	77.7	1800	800	210	260
	DVQ25-47	47.1	56.5	70.0	85.0	1800	800	210	260
	DVQ25-52	52.3	62.7	78.4	94.1	1800	800	210	260
	DVQ25-60	60.2	72.7	90.3	108.3	1800	800	210	260
	DVQ25-65	65.3	78.3	97.9	117.5	1800	800	210	230
	DVQ25-75	75.0	90.0	112.5	-	1500	800	210	230

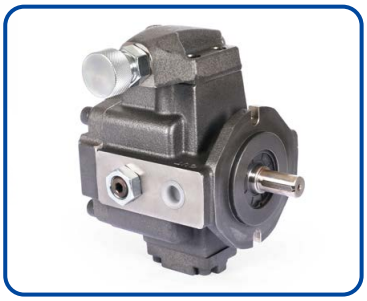
▸ DVQ4325 (Flange Type)

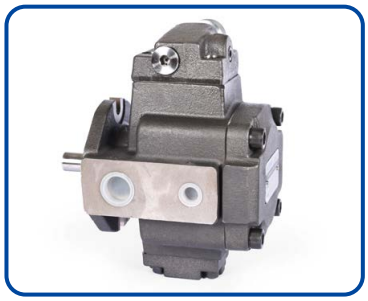


▸ DVQ4325 (Foot Type)



KPV-16

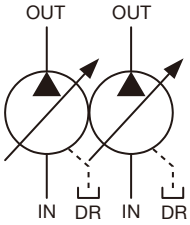




SYMBOLS

KPV (single vane pump)

KPVV (double vane pump)



ORDER CODES

KPV	-	16	-	F	-	1	-	A	12	-	01	-	01
①		②		③		④		⑤	⑥		⑦		⑧

KPVV	-	16	-	16	-	F	-	2	-	2	-	A	12	-	01	-	01
①		②P1		②P2		③		④P1		④P2		⑤	⑥		⑦		⑧

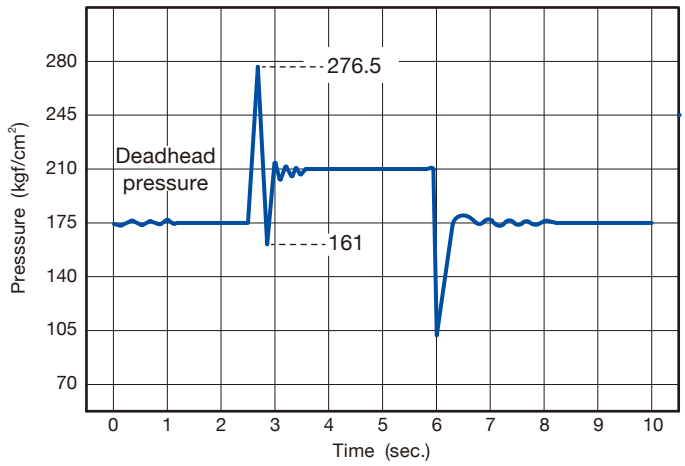
①	**Model Name**	**KPV**	single vane pump
		KPVV	double vane pump
②	**Displacement**	**8, 12, 16, 20, 23**	
③	**Pressure Adj. Knob**	**F**	
④	**Pressure Range**	**1**	15.3 ~ 142.8 kgf/cm^2
		2	20.4 ~ 214.2 kgf/cm^2
		3	25.5 ~ 255 kgf/cm^2
⑤	**Flange Mounting Type**	**A**	SAE A, Ø82.55
⑥	**Rotation Speed**	**12**	1200 r.p.m.
		15	1500 r.p.m.
		18	1800 r.p.m.
⑦	**Shaft Type**	**01**	Ø19.05
		02	SAE A, 9 tooth spline 16/32DP
⑧	**Thread**	**01**	S=RC 3/4, P=RC 1/2, DR=RC 3/8
		02	S=#16 SAE, P=#12 SAE, DR=#8 SAE

MODEL SPEC.

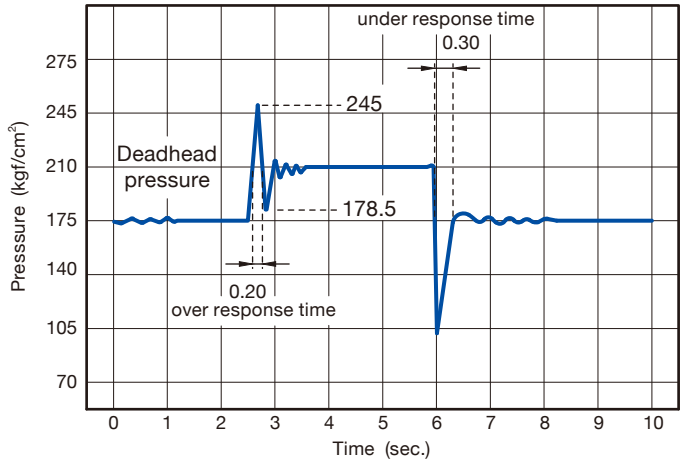
Model	Accurate Displacement Capacity (cc/rev)	Operating Pressure		Speed (r.p.m.)	No-load Discharge Rate (l/min)		Weight (kg)
		Open Loop Circuit	Close Loop Circuit		50Hz	60Hz	
KPV-8	8	Min. 15.3 kgf/cm^2 250 kgf/cm^2, 8sec Max. 255 kgf/cm^2	210 kgf/cm^2, continue	12: 1200 15: 1500 18: 1800	12	14.4	KPV: 16.6 KPVV: 33.2
KPV-12	12				18	21.6	
KPV-16	16				24	28.8	
KPV-20	20				30	36	
KPV-23	23				34.5	41.4	

PERFORMANCE CURVES

▸ KPV-16 Reaction Characteristics Shock Clipper Funtion



KPV-16 single stage compensator,
plot with shock clipper **inactive**.
Response overshoot : 66.5 kgf/cm^2
Response undershoot : 49.2 kgf/cm^2



KPV-16 single stage compensator,
plot with shock clipper **active**.
Response overshoot : 35 kgf/cm^2
Response undershoot : 31.5 kgf/cm^2
Response time : 20~30 ms

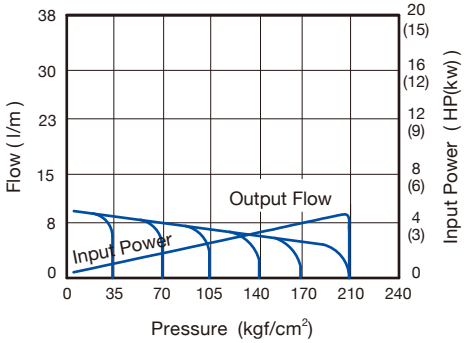
▸ Case Drain Flow

Spec.	Pressure (kgf/cm^2)	Flow (l/min)
Case drain flow while compensating @1800r.p.m. KPV-8, 12, 16, 20, 23	71.4	1.5 ~ 2.3
	142.8	2.5 ~ 3.8
	214.2	3.5 ~ 4.8

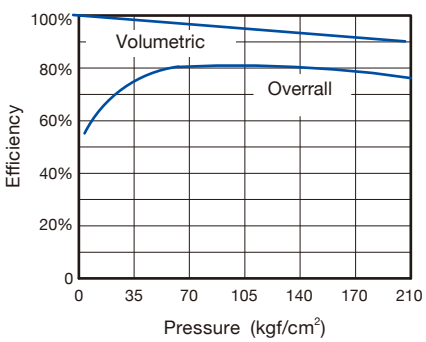
PERFORMANCE CURVES

▸ KPV-8

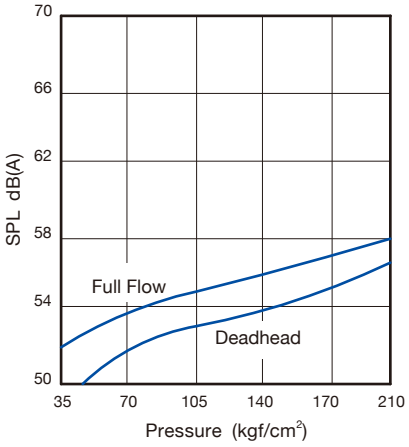
Output Flow & Power @1200r.p.m.



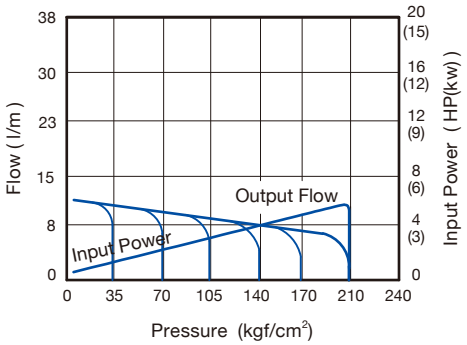
Efficiency @1200r.p.m.



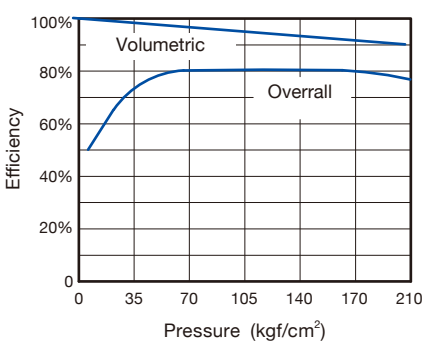
Sound Pressure @1200r.p.m.



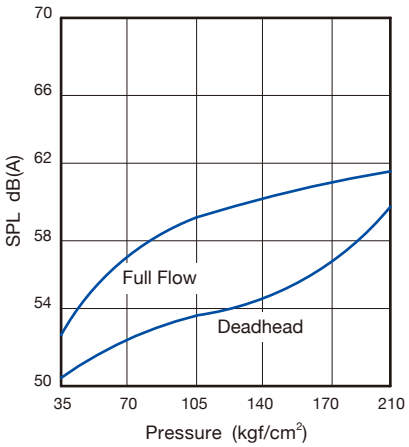
Output Flow & Power @1500r.p.m.



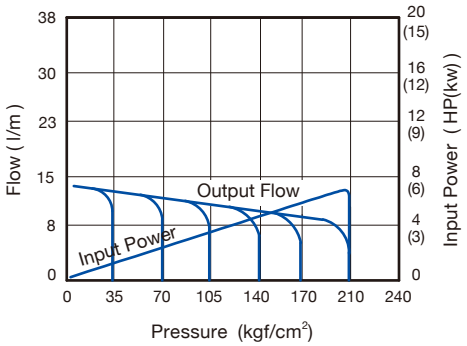
Efficiency @1500r.p.m.



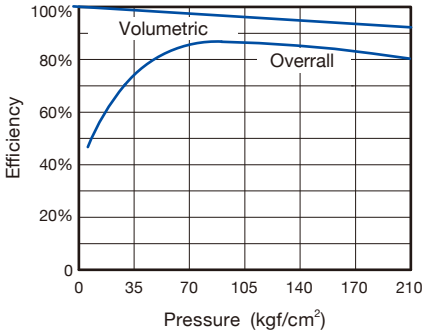
Sound Pressure @1500r.p.m.



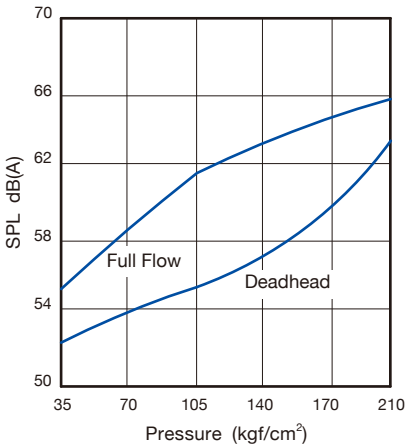
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



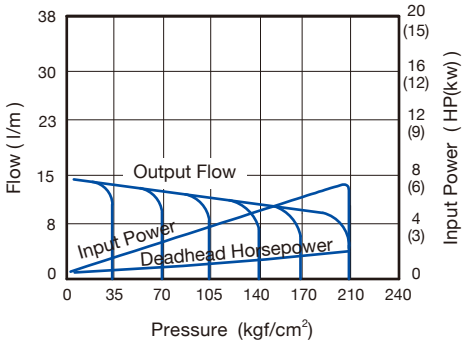
Sound Pressure @1800r.p.m.



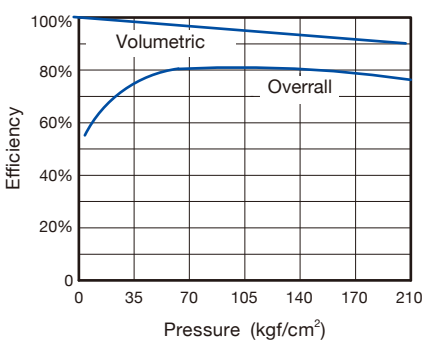
PERFORMANCE CURVES

▸ KPV-12

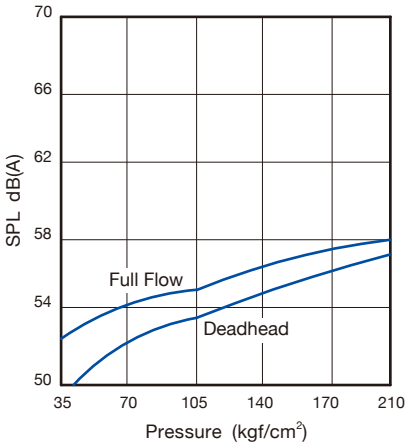
Output Flow & Power @1200r.p.m.



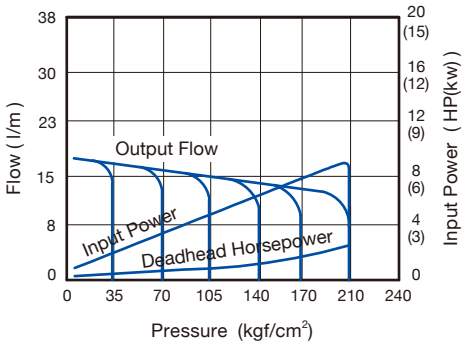
Efficiency @1200r.p.m.



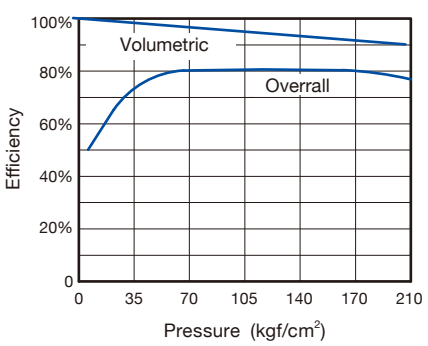
Sound Pressure @1200r.p.m.



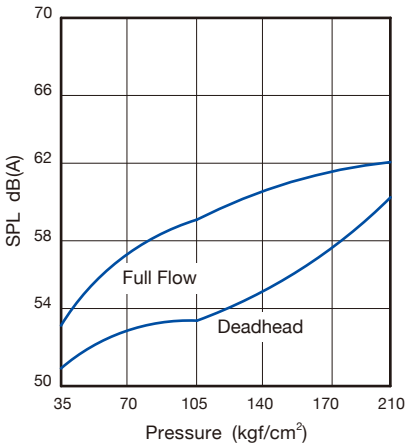
Output Flow & Power @1500r.p.m.



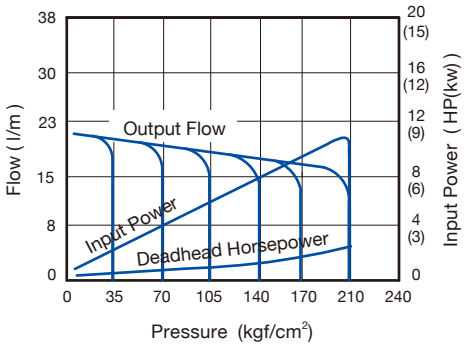
Efficiency @1500r.p.m.



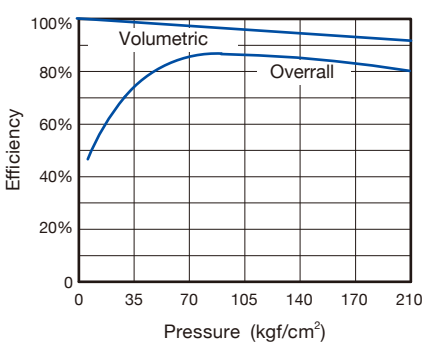
Sound Pressure @1500r.p.m.



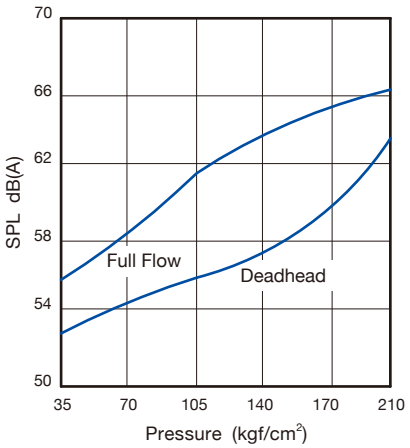
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



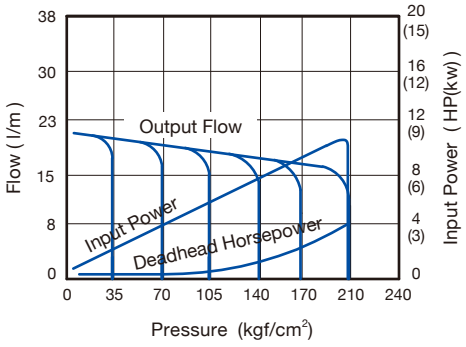
Sound Pressure @1800r.p.m.



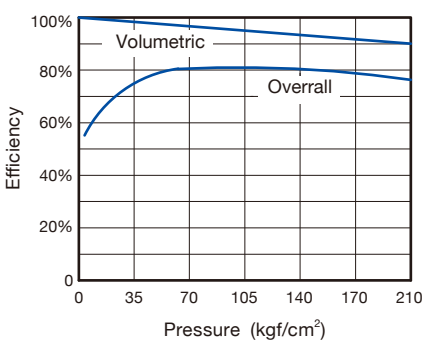
PERFORMANCE CURVES

▸ KPV-16

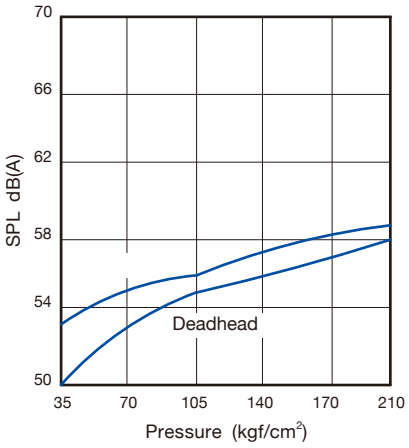
Output Flow & Power @1200r.p.m.



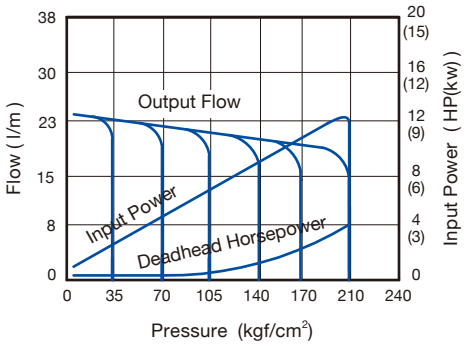
Efficiency @1200r.p.m.



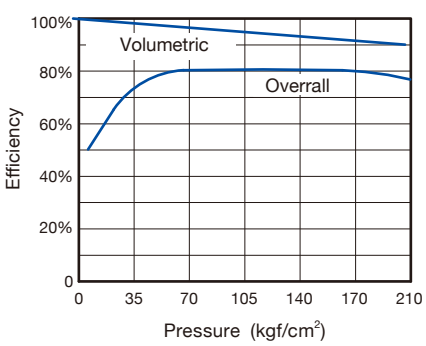
Sound Pressure @1200r.p.m.



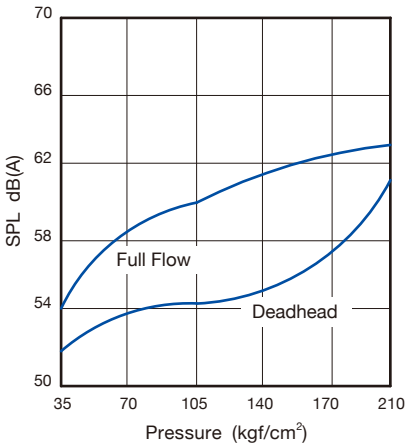
Output Flow & Power @1500r.p.m.



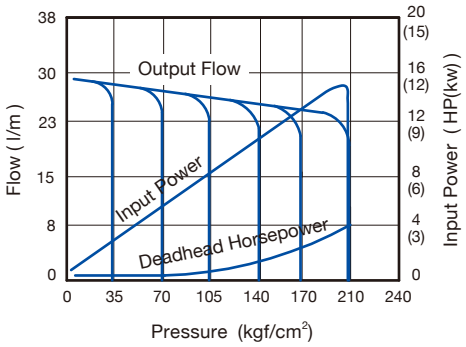
Efficiency @1500r.p.m.



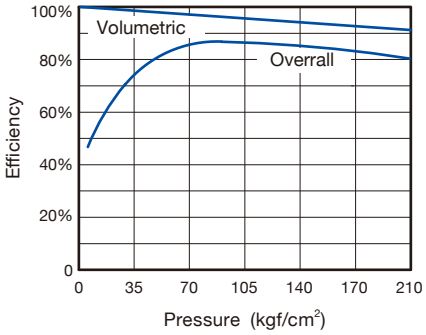
Sound Pressure @1500r.p.m.



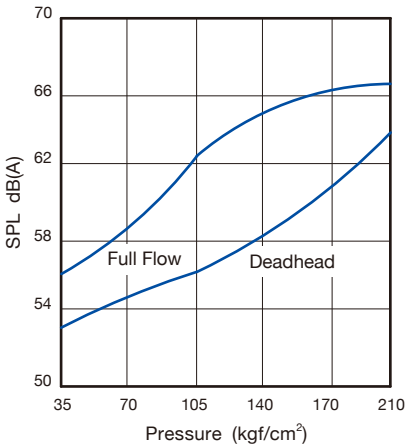
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



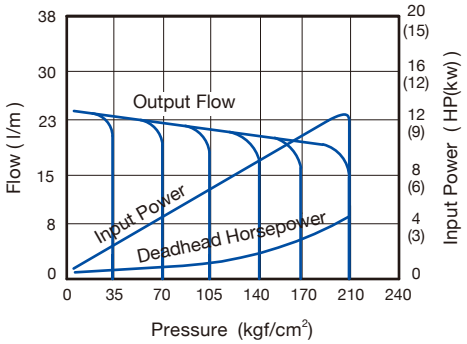
Sound Pressure @1800r.p.m.



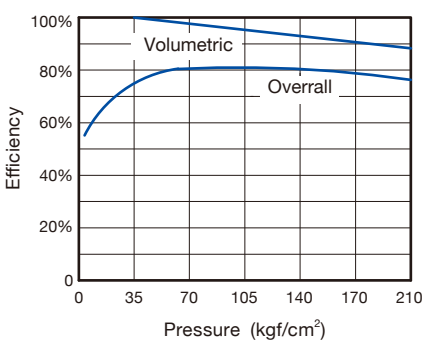
PERFORMANCE CURVES

▸ KPV-20

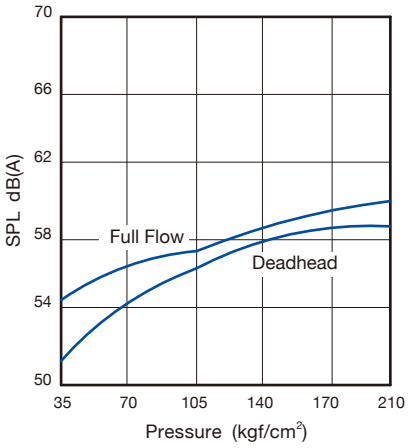
Output Flow & Power @1200r.p.m.



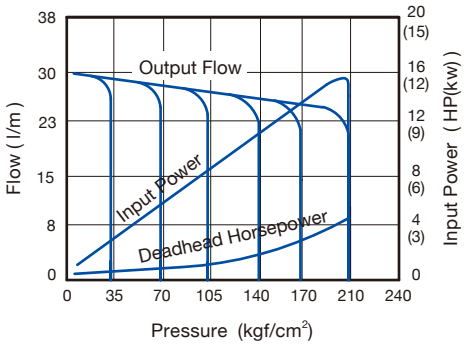
Efficiency @1200r.p.m.



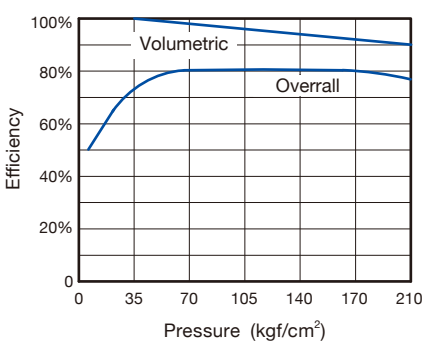
Sound Pressure @1200r.p.m.



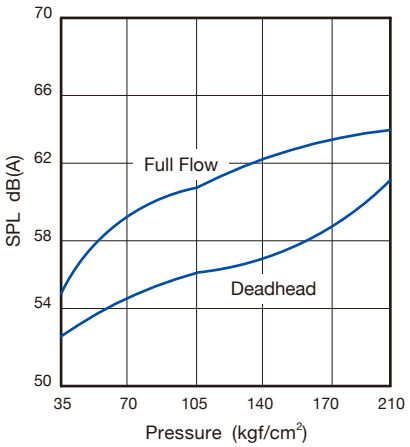
Output Flow & Power @1500r.p.m.



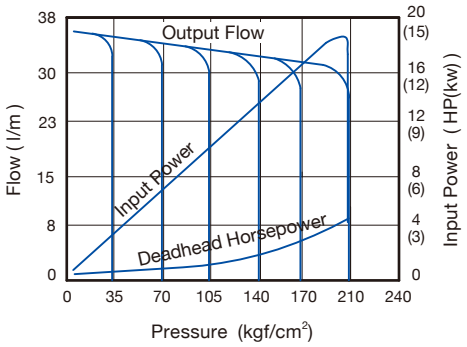
Efficiency @1500r.p.m.



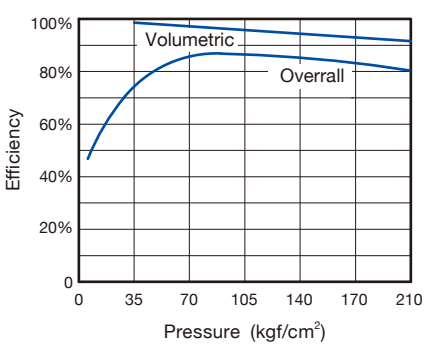
Sound Pressure @1500r.p.m.



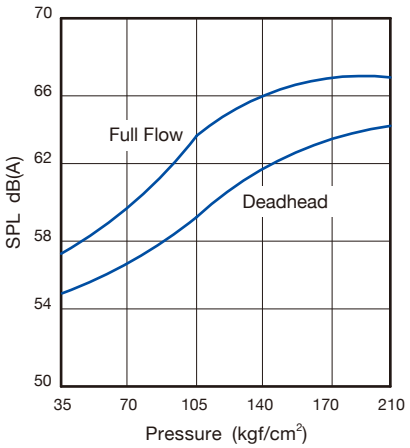
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



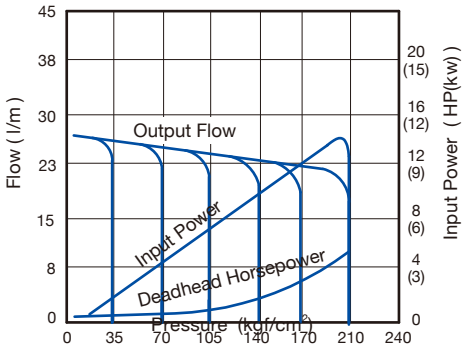
Sound Pressure @1800r.p.m.



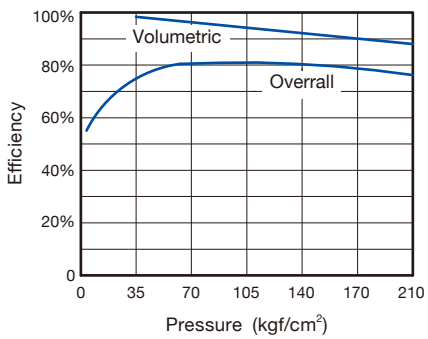
PERFORMANCE CURVES

▸ KPV-23

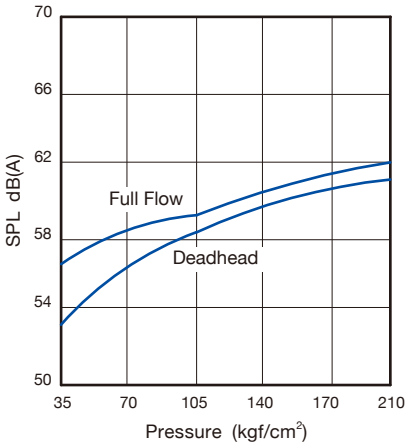
Output Flow & Power @1200r.p.m.



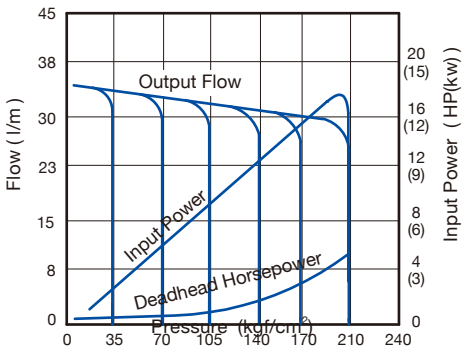
Efficiency @1200r.p.m.



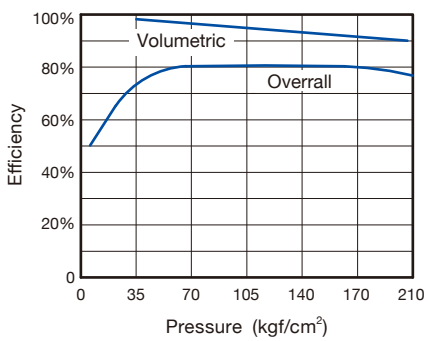
Sound Pressure @1200r.p.m.



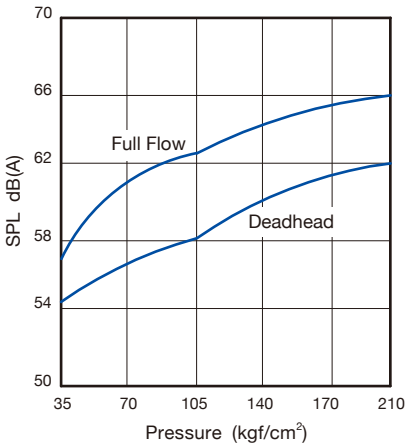
Output Flow & Power @1500r.p.m.



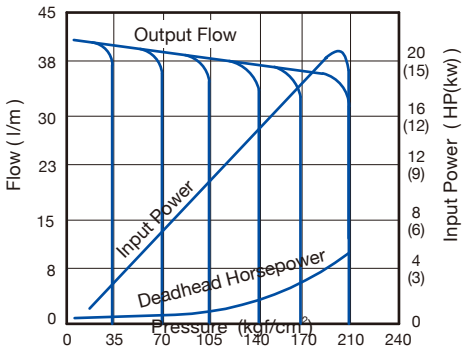
Efficiency @1500r.p.m.



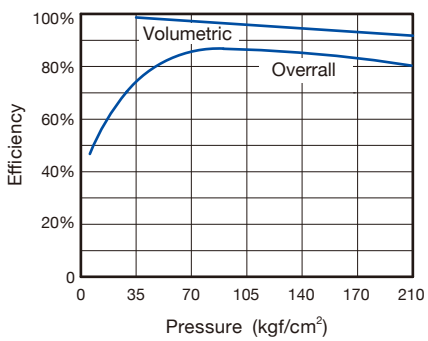
Sound Pressure @1500r.p.m.



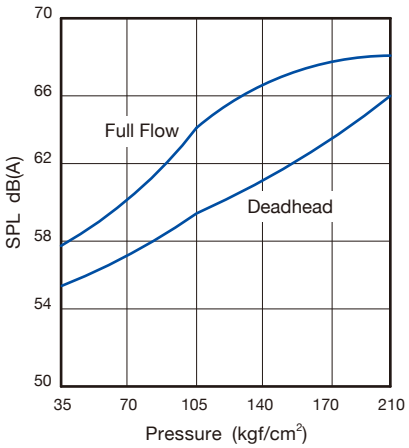
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.

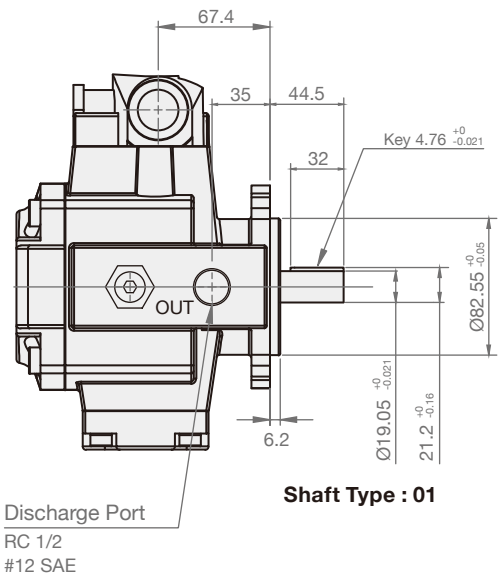


Sound Pressure @1800r.p.m.

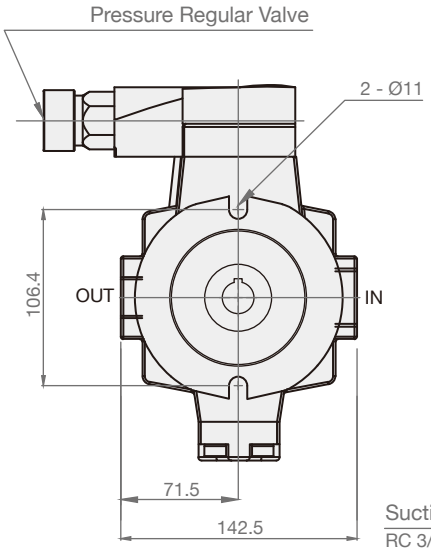


DIMENSION (UNIT : mm)

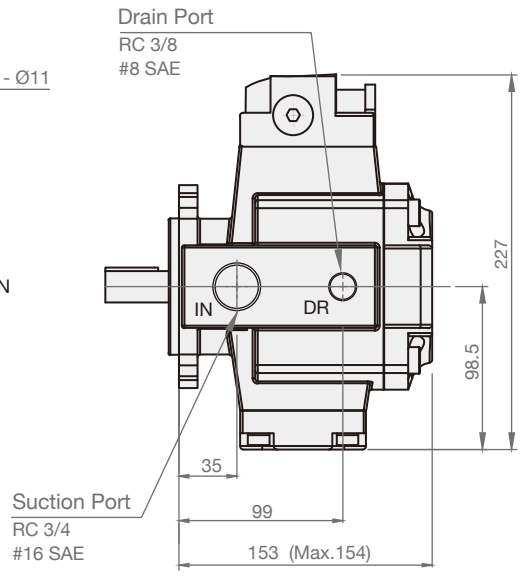
▸ KPV-8, 12, 16, 20, 23

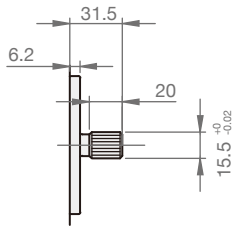


Shaft Type : 01

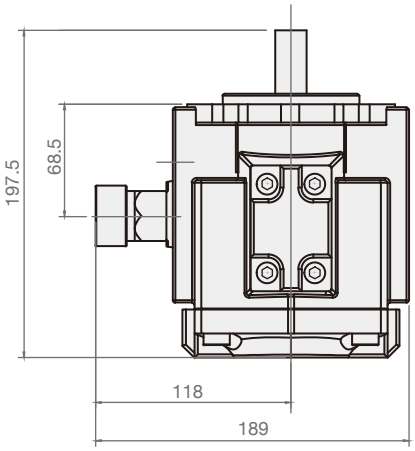


SAE A Mounting Flange

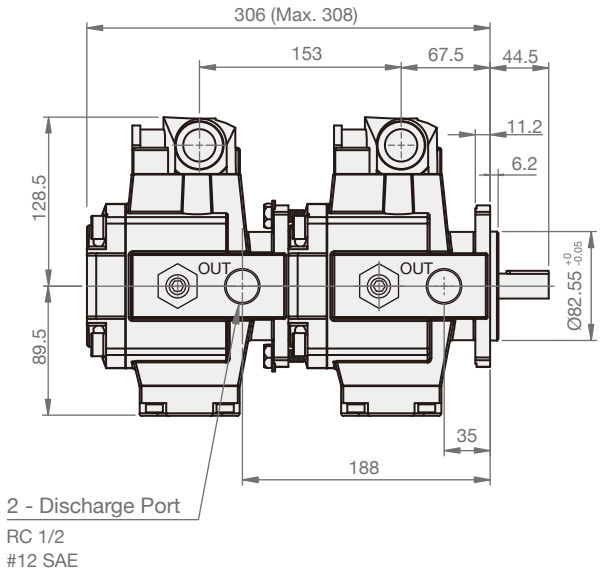


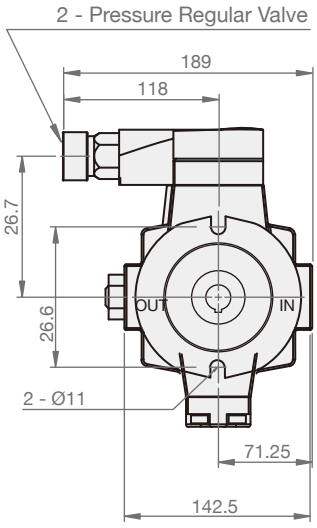


Shaft Type : 02
Diametral pitch : 16/32
Pressure angle : 30°
No. of teeth : 9
Available on "A" cover only

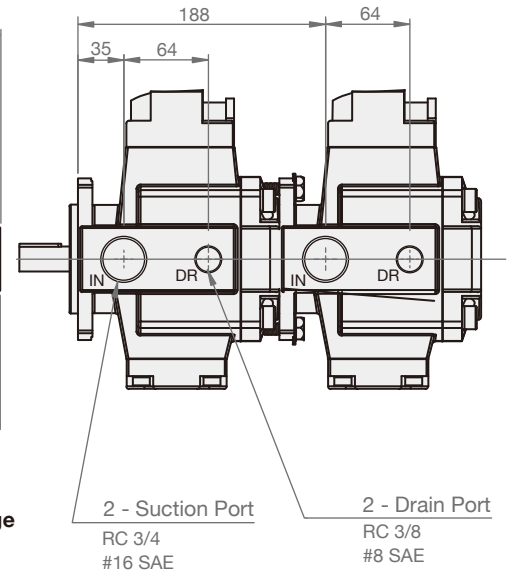


▸ KPVV-8, 12, 16, 20, 23

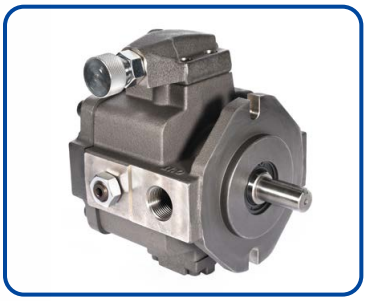




SAE A Mounting Flange



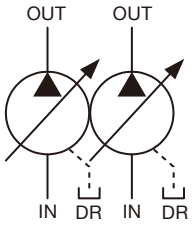
KPV-25



SYMBOLS

KPV (single vane pump)

KPVV (double vane pump)



ORDER CODES

KPV	-	25	-	F	-	1	-	B	12	-	01	-	01
①		②		③		④		⑤	⑥		⑦		⑧

KPVV	-	25	-	16	-	F	-	2	-	2	-	B	12	-	01	-	01
①		②P1		②P2		③		④P1		④P2		⑤	⑥		⑦		⑧

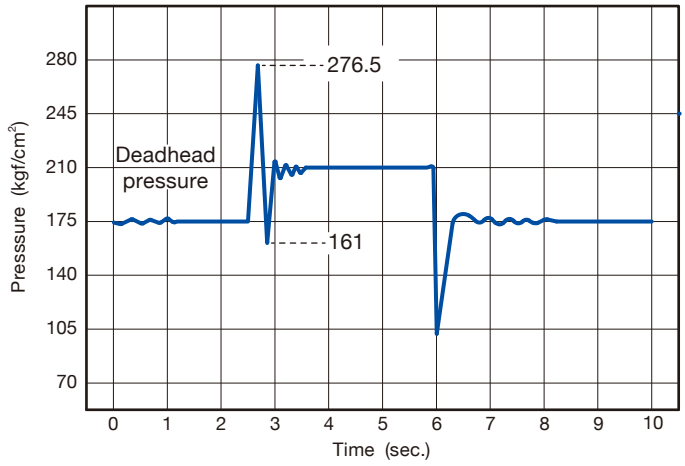
① ▸	**Model Name**	**KPV**	single vane pump
		KPVV	double vane pump
② ▸	**Displacement (P1)**	**25, 32, 36**	
	Displacement (P2)	**8 , 12, 16 , 20 , 23**	
③ ▸	**Pressure Adj. Knob**	**F**	
④ ▸	**Pressure Range**	**1**	15.3 ~ 142.8 kgf/cm^2
		2	20.4 ~ 214.2 kgf/cm^2
		3	25.5~ 255 kgf/cm^2
⑤ ▸	**Flange Mounting Type**	**B**	SAE B, Ø101.6
⑥ ▸	**Rotation Speed**	**12**	1200 r.p.m.
		15	1500 r.p.m.
		18	1800 r.p.m.
⑦ ▸	**Shaft Type**	**01**	Ø22.23
		02	SAE B, 13 tooth spline 16/32DP
⑧ ▸	**Thread**	**01**	P1: S=RC 1 1/4, P=RC 1, DR=RC 3/8 P2: S=RC 3/4, P=RC 1/2, DR=RC 3/8
		02	P1: S=#24 SAE, P=#16 SAE, DR=#8 SAE P2: S=#16 SAE, P=#12 SAE, DR=#8 SAE

MODEL SPEC.

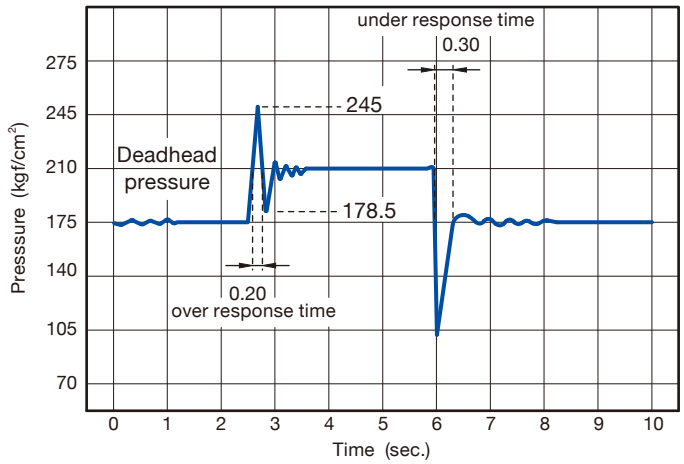
Model	Accurate Displacement Capacity (cc/rev)	Operating Pressure		Speed (r.p.m.)	No-load Discharge Rate (l/min)		Weight (kg)
		Open Loop Circuit	Close Loop Circuit		50Hz	60Hz	
KPV-25	25	Min. 15.3 kgf/cm^2 250 kgf/cm^2, 8sec Max. 255 kgf/cm^2	210 kgf/cm^2, continue	12: 1200 15: 1500 18: 1800	37.5	45	KPV: 28 KPVV: 44
KPV-32	32				48	57.6	
KPV-36	36				54	64.8	

PERFORMANCE CURVES

▸ **KPV-25 Reaction Characteristics Shock Clipper Funtion**



KPV-25 single stage compensator,
plot with shock clipper **inactive**.
Response overshoot : 66.5 kgf/cm^2
Response undershoot : 49.2 kgf/cm^2



KPV-25 single stage compensator,
plot with shock clipper **active**.
Response overshoot : 35 kgf/cm^2
Response undershoot : 31.5 kgf/cm^2
Response time : 20~30 ms

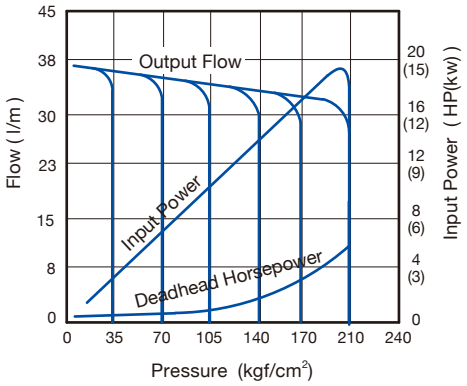
▸ **Case Drain Flow**

Spec.	Pressure (kgf/cm^2)	Flow (l/min)
Case drain flow while compensating @1800r.p.m. KPV-25, 32, 36	71.4	2.0 ~ 3.5
	142.8	4.0 ~ 5.0
	214.2	5.0 ~ 6.0

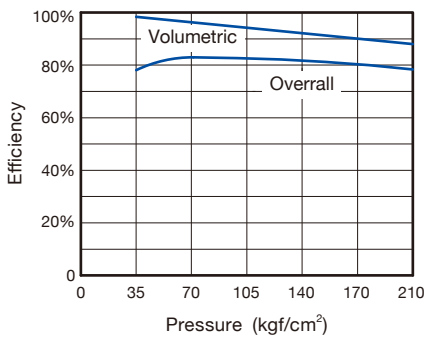
PERFORMANCE CURVES

▸ KPV-25

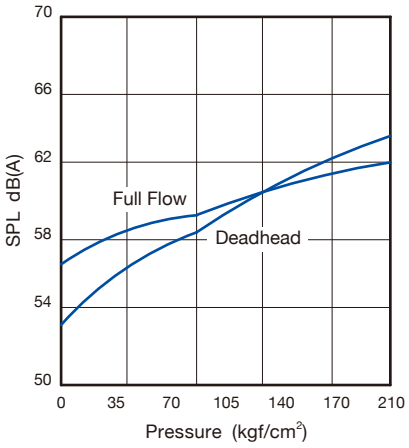
Output Flow & Power @1200r.p.m.



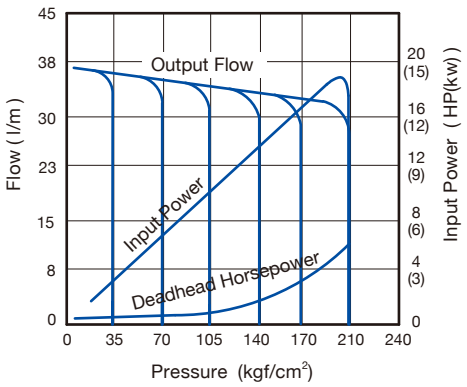
Efficiency @1200r.p.m.



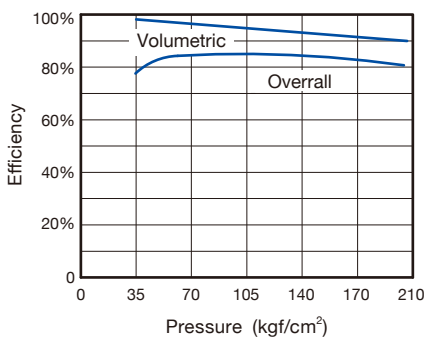
Sound Pressure @1200r.p.m.



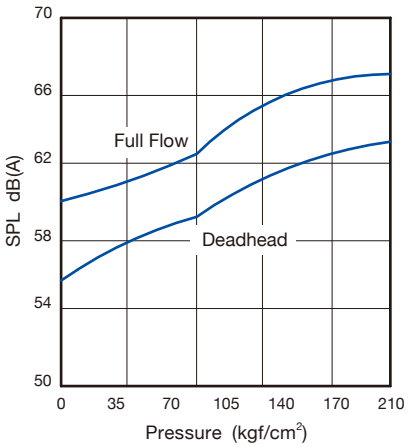
Output Flow & Power @1500r.p.m.



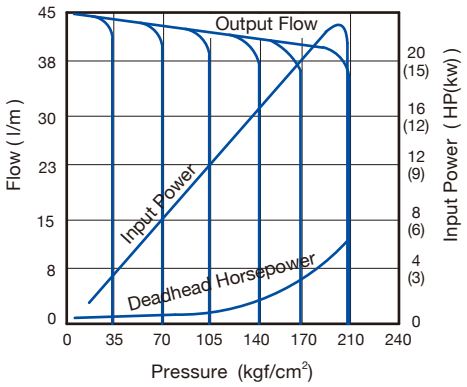
Efficiency @1500r.p.m.



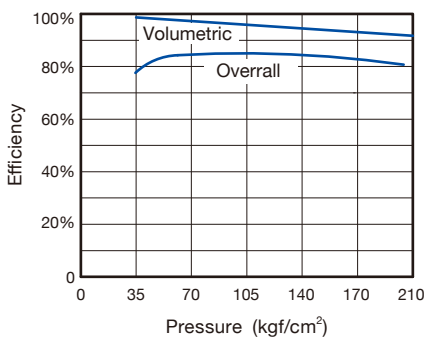
Sound Pressure @1500r.p.m.



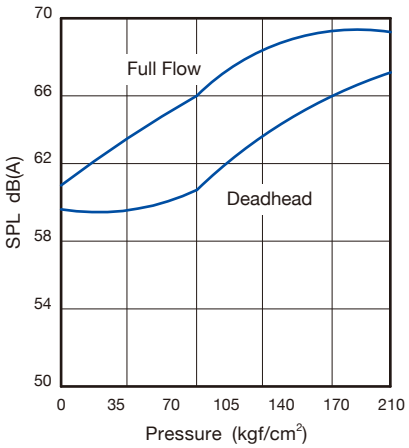
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



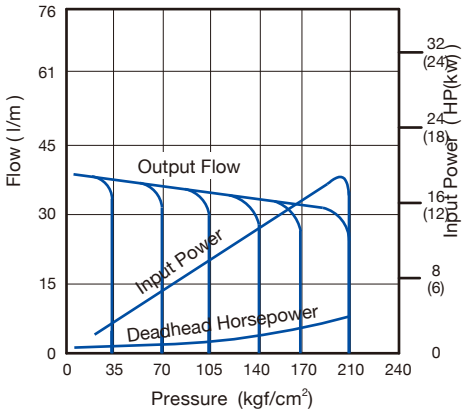
Sound Pressure @1800r.p.m.



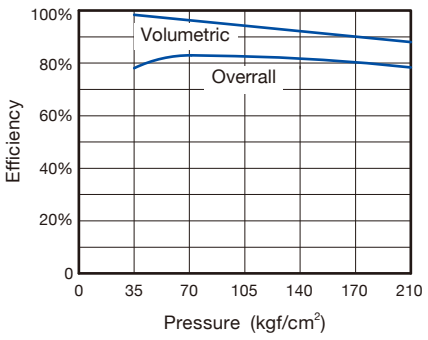
PERFORMANCE CURVES

▸ KPV-32

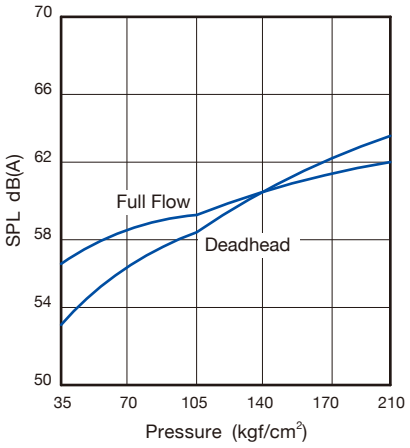
Output Flow & Power @1200r.p.m.



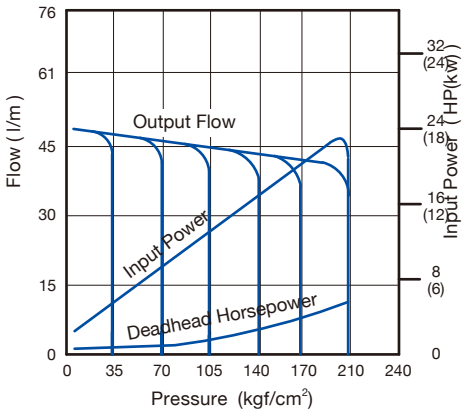
Efficiency @1200r.p.m.



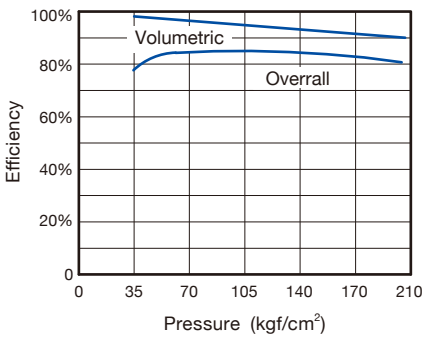
Sound Pressure @1200r.p.m.



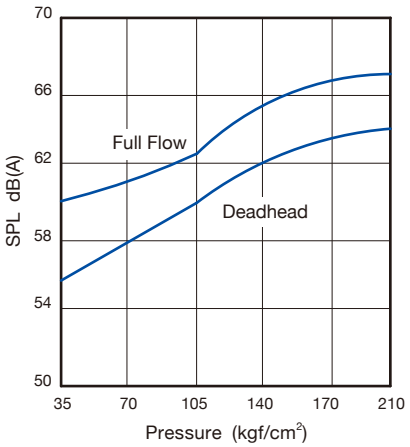
Output Flow & Power @1500r.p.m.



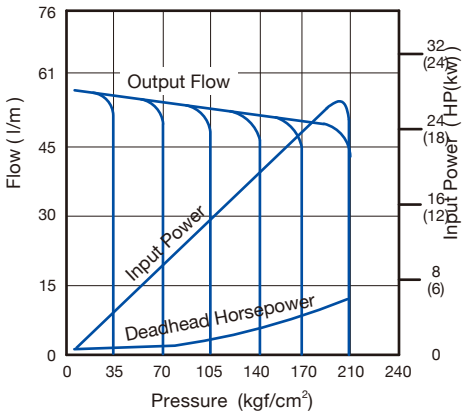
Efficiency @1500r.p.m.



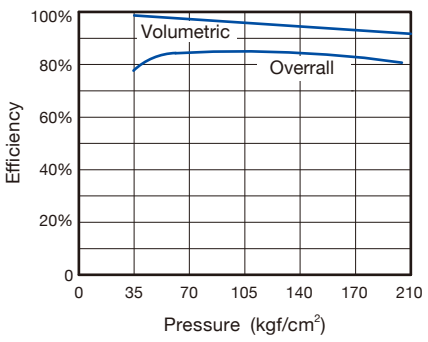
Sound Pressure @1500r.p.m.



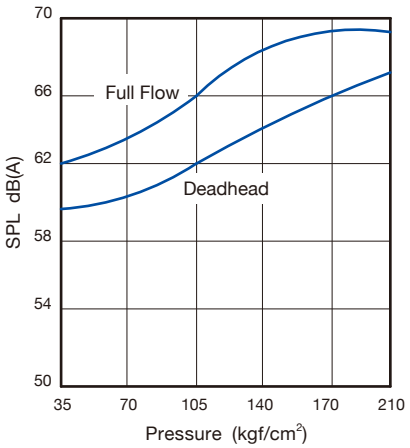
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



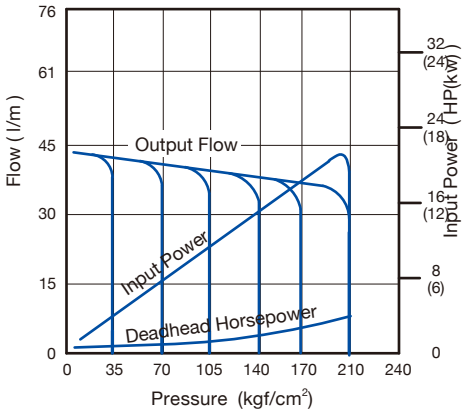
Sound Pressure @1800r.p.m.



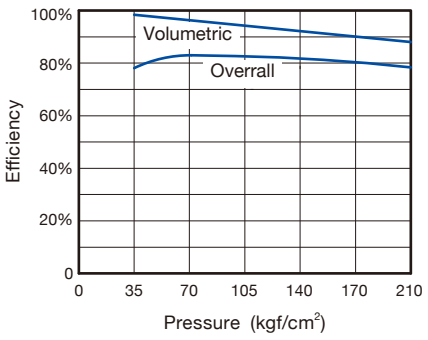
PERFORMANCE CURVES

▸ KPV-36

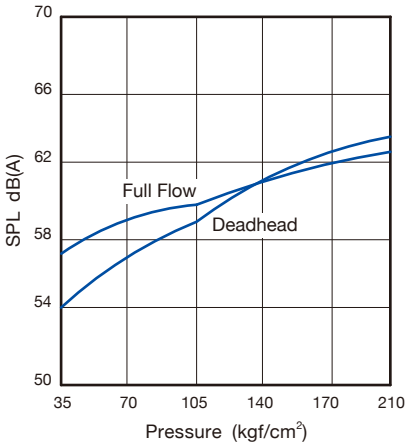
Output Flow & Power @1200r.p.m.



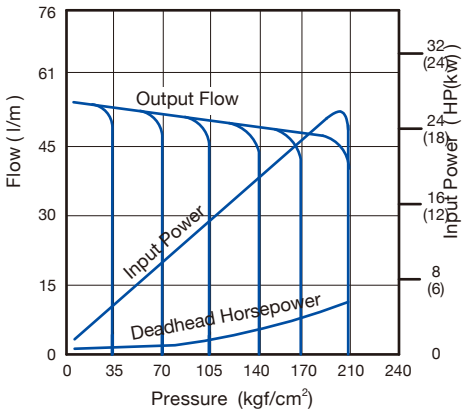
Efficiency @1200r.p.m.



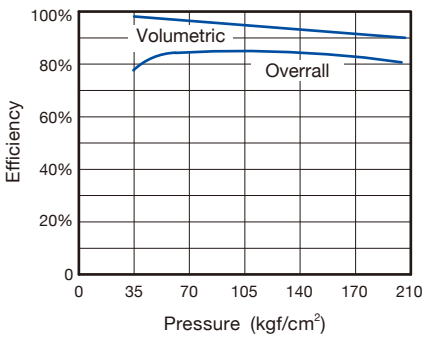
Sound Pressure @1200r.p.m.



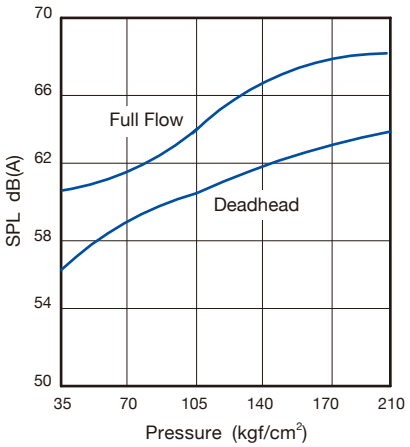
Output Flow & Power @1500r.p.m.



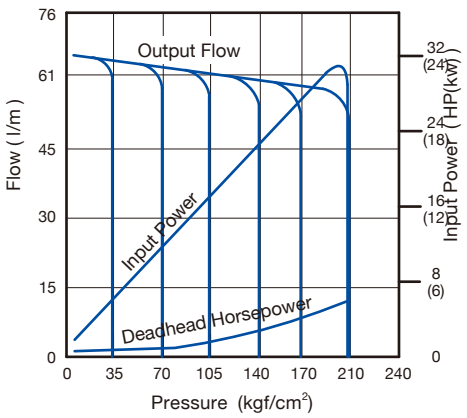
Efficiency @1500r.p.m.



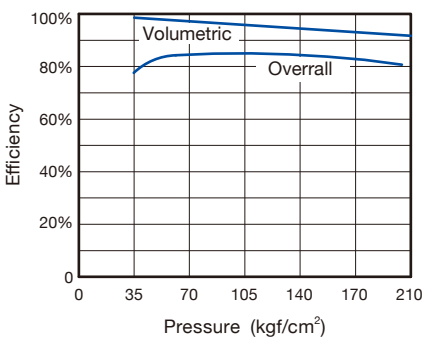
Sound Pressure @1500r.p.m.



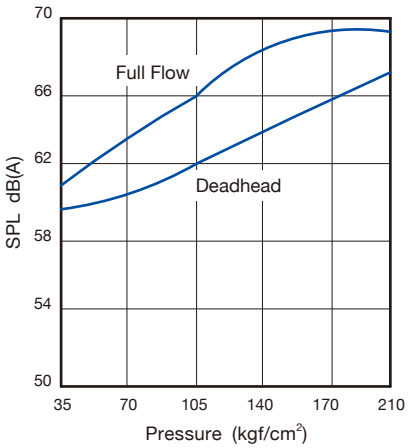
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.

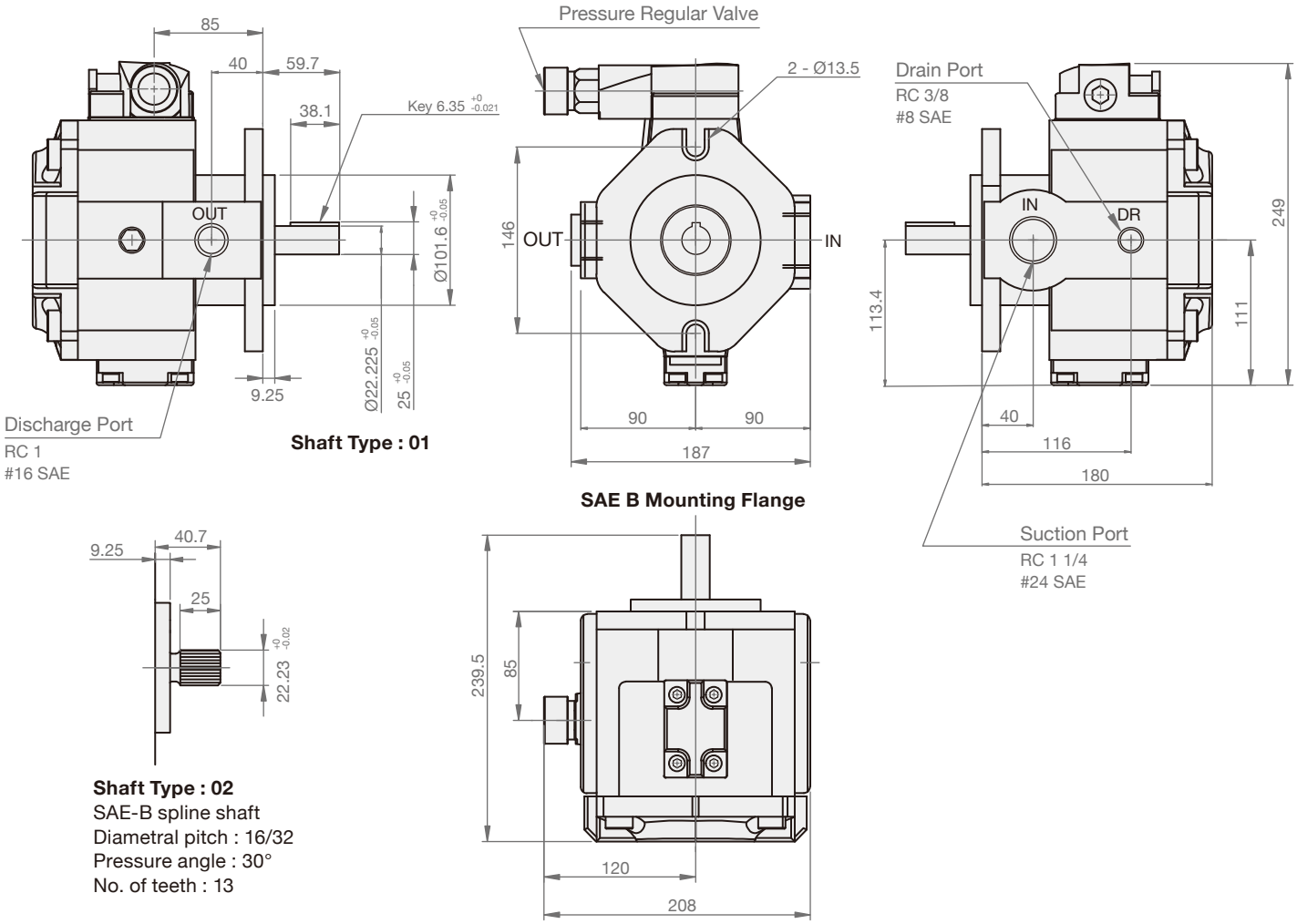


Sound Pressure @1800r.p.m.



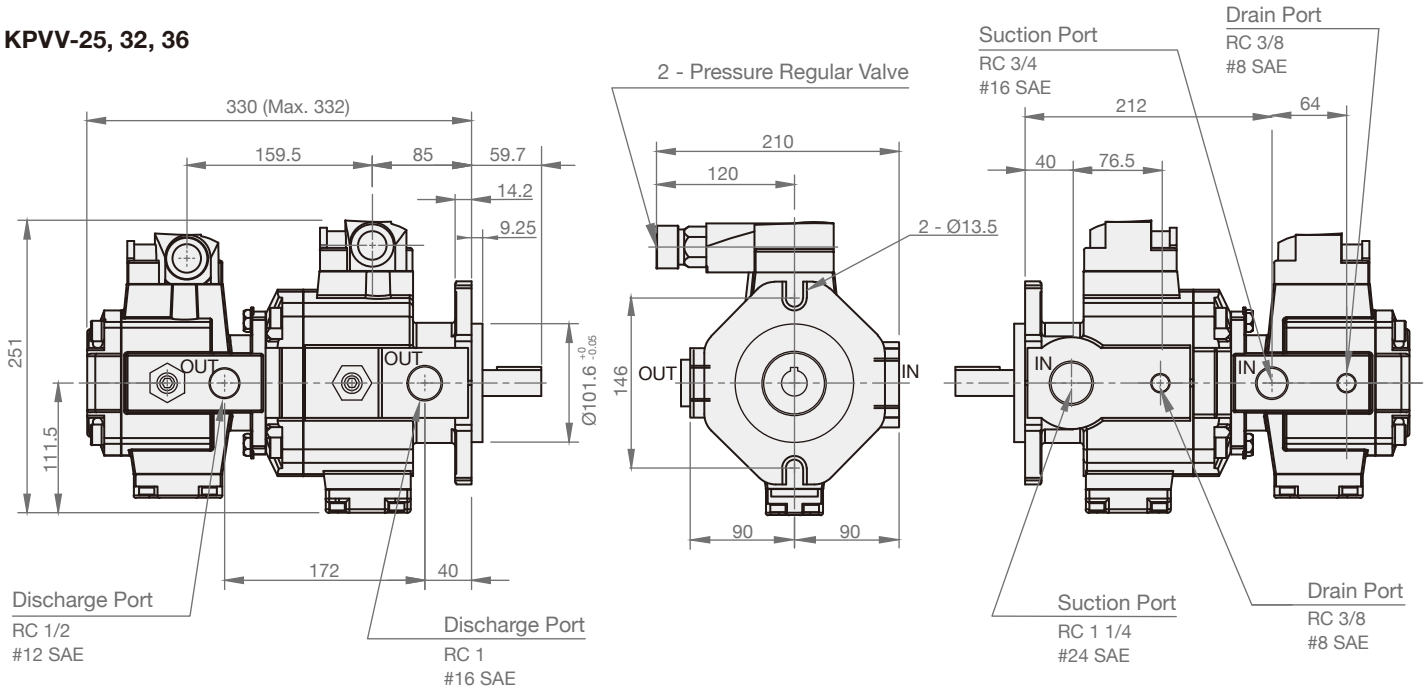
DIMENSION (UNIT : mm)

▸ KPV-25, 32, 36

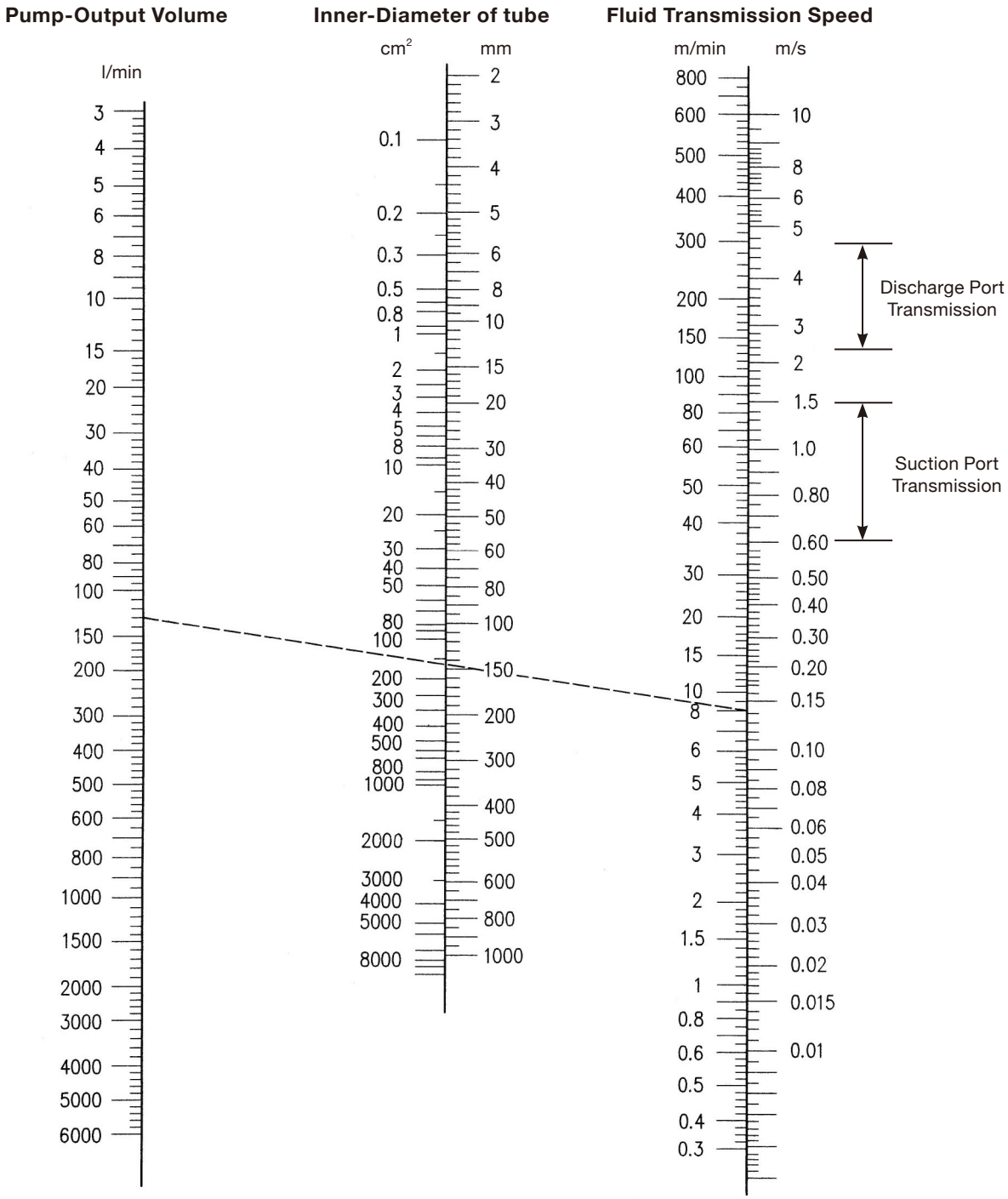


Shaft Type : 02
SAE-B spline shaft
Diametral pitch : 16/32
Pressure angle : 30°
No. of teeth : 13

▸ KPVV-25, 32, 36



Piping Diameter - Fluid Transmission - Flow Volume Drawing



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in the course of continued development.