

DYNAMAX VS Series Swing Clamp

■ Example order



VS - 35

Bore size

35

42

50

60

75

L

Direction

L : left

R : right

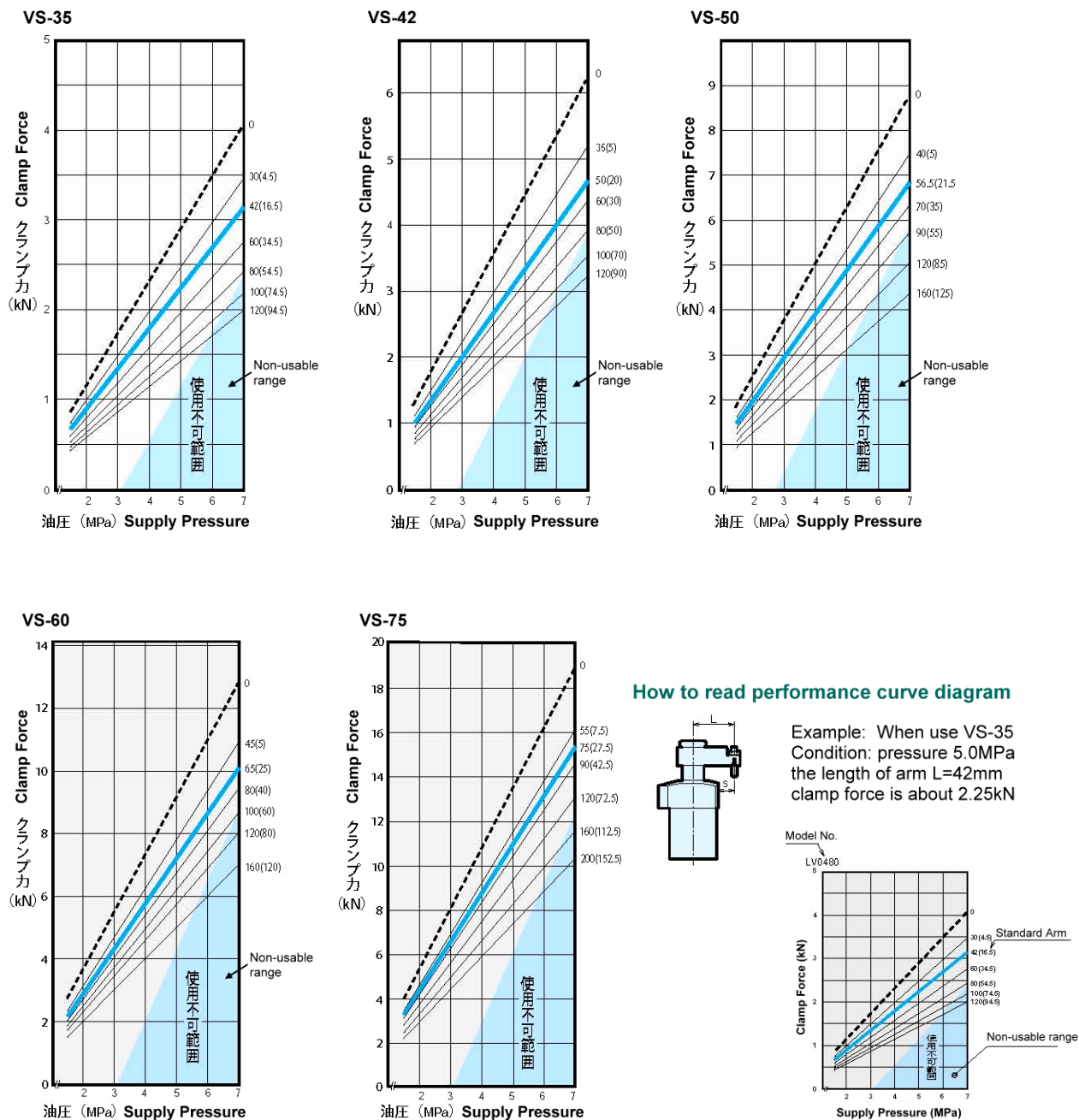
■ Feature

1. Cylinder body use aluminum alloy to reduce the weigh.
2. Piping mounting and manifold mounting in one cylinder body.
3. Use Japan Sakagami seal to avoid inner leakage
4. Strengthen the rotation mechanism to have a longer life
5. To supply cylinder with standard arm. No extra cost for arm

Model No.		VS-35	VS-42	VS-50	VS-60	VS-75
Cylinder area cm2		5.8	8.9	12.6	18.4	27.1
Total stroke mm		15	17.5	19	22.5	24
Clamp stroke mm		8	10	10	12	12
Swivel stroke mm		7	7.5	9	10.5	12
Cylinder Volume cm3	Clamp	8.7	15.6	23.9	41.4	67.9
	Release	14.4	24.2	37.3	63.6	106.0
Max. Operating Pressure Mpa		7				
Min. Operating Pressure Mpa		0.5				
Design Pressure Mpa		10.5				
Operating temperature		0~70℃				
90° swing angle tolerance		90±2°				
Clamp-swing position repeat tolerance		0.5°				
Weight (Includes standard arm) kg		0.84	1.25	1.86	2.86	4.75

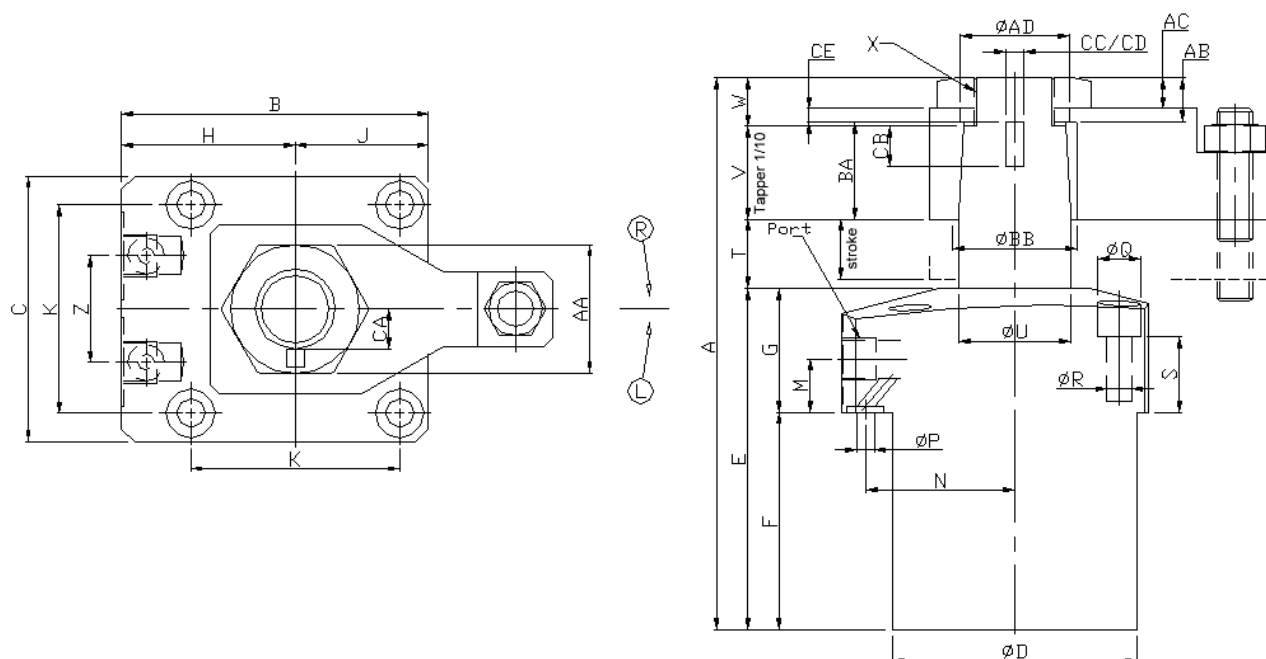
DYNAMAX VS Series Swing Clamp

Performance Curve



DYNAMAX VS Series Swing Clamp

■ Outline Dimension

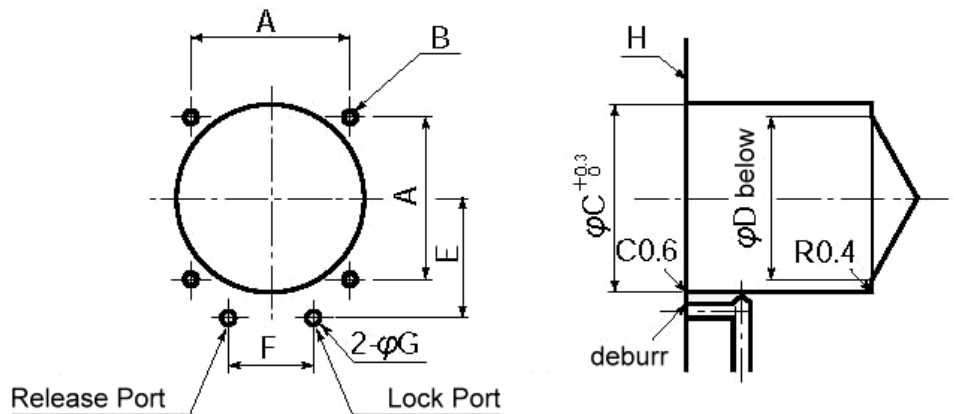


Model	VS-35	VS-42	VS-50	VS-60	VS-75
A	122	138.5	146	172.5	186
B	61	69	81	92	107
C	51	60	70	80	95
D	48	55	65	75	90
E	80	87	93	108	114
F	52	59	63	71	74
G	28	28	30	37	40
H	35.5	39	46	52	59.5
J	25.5	30	35	40	47.5
K	40	47	55	63	75
M	12	12	13	16	16
N	30	33.5	39.5	45	52.5
P	3	3	5	5	5
Q	9.5	11	11	14	17.5
R	5.5	6.5	6.5	8.5	10.5
S	18.5	17	18	22	22
T	16	18.5	20	23.5	25
U	22	25	30	35.5	45
V	14	20	20	26	32
W	11	12	12	14	14

DYNAMAX VS Series Swing Clamp

Model		VS-35	VS-42	VS-50	VS-60	VS-75
X		M16x1.5	M18x1.5	M22x1.5	M28x1.5	M36x1.5
Z		22	24	30	32	37
Nut Dimension	AA	24	30	36	41	50
	AB	9	10	10	12	12
	AC	6	7	7	8	8
	AD	20.5	22.9	27.9	32.8	41.7
Positioning slot dimension	CA	8	9	11	14	18
	CB	5.3	5.3	7.5	7.5	9.5
	CC	4	4	6	6	8
	CE	6.3	6.3	7.5	8.5	9.5
Port		Rc 1/8	Rc 1/8	Rc 1/4	Rc 1/4	Rc 3/8

■ Machining data for mounting



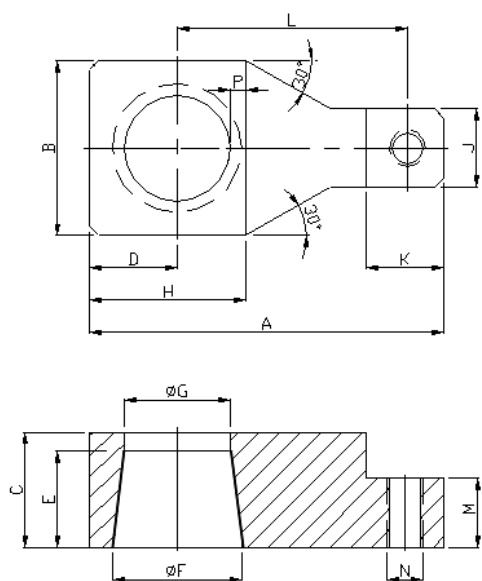
Model No. for clamp	VS-35	VS-42	VS-50	VS-60	VS-75
A	40	47	55	63	75
B	M5X0.8	M6	M6	M8	M10
C	48	55	65	75	90
D	45	50	60	70	85
E	30	33.5	39.5	45	52.5
F	22	24	30	32	37
G	3	3	5	5	5

Note:

1. The surface roughness for H is 6.3S.
2. The thread length of mounting bolt is determined by customer.

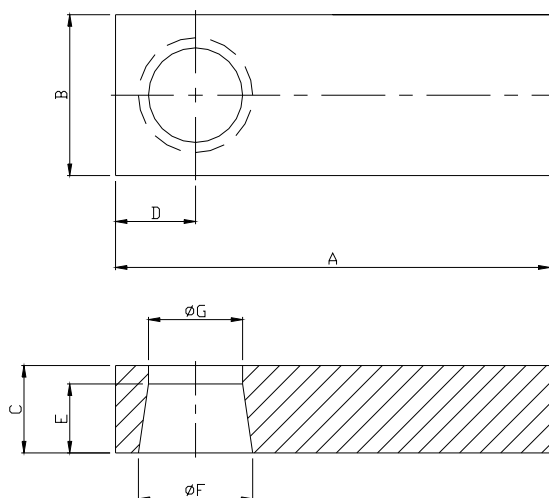
DYNAMAX VS Series Swing Clamp

Clamping Arm (Standard) A type



	VSA-35	VSA-42	VSA-50	VSA-60	VSA-75
A	65.5	77.0	91.5	105.0	127.0
B	35	38	50	58	75
C	19	25	25	32	38
D	17.5	19	25	29	38
E	15	21	21	27	33
F	25	28	34	40	49
G	20.5	22.9	27.9	32.8	41.7
H	28	34	40	47	53
N	M6	M8	M10	M12	M16
J	12	17	19	22	27
K	13	17	22	25	31
L	42	50	56.5	65	75
M	11	15	13	16	22

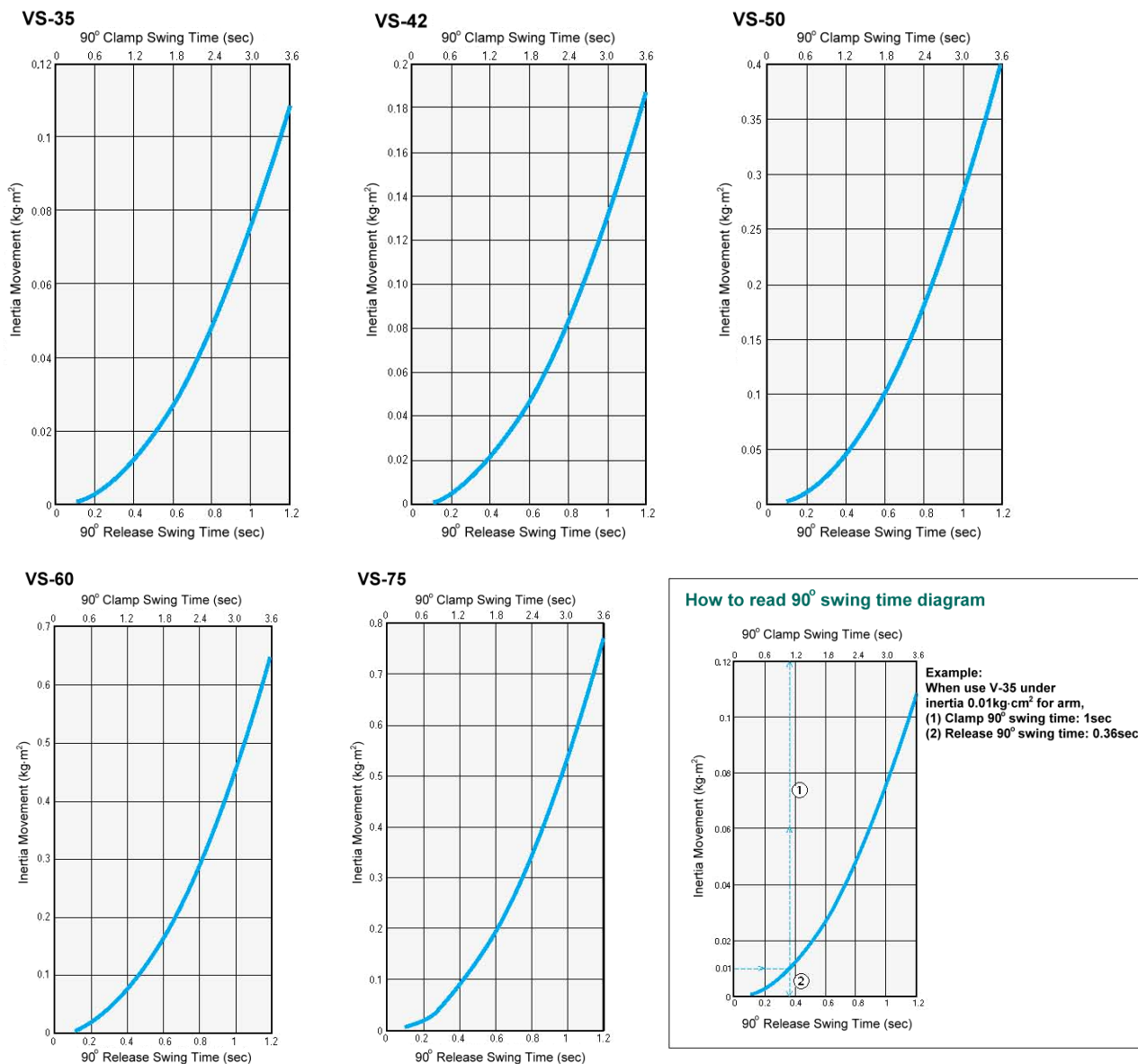
B type



	VS-35	VS-42	VS-50	VS-60	VS-75
A	95	100	120	125	180
B	35	38	50	58	75
C	19	25	25	32	38
D	17.5	19	25	29	38
E	15	21	21	27	33
F	25	28	34	40	49
G	20.5	22.9	27.9	32.8	41.7

DYNAMAX VS Series Swing Clamp

90° Swing Time Diagram



Note

1. The max. operating pressure and clamping force is dependent on the length of arm, it is possible to have leakage and damage if the torque is too large , please select proper length of arm and operating pressure according to the drawings of performance curve .
2. Please use speed control valve to avoid large torque.