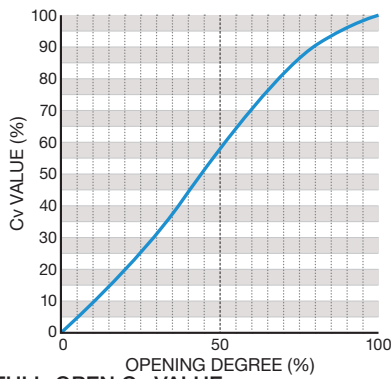


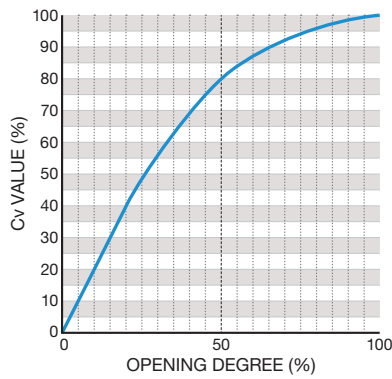
Cv VALUE FOR EACH OPENING DEGREE

DIAPHRAGM VALVE TYPE 14, TYPE 15, TYPE 72

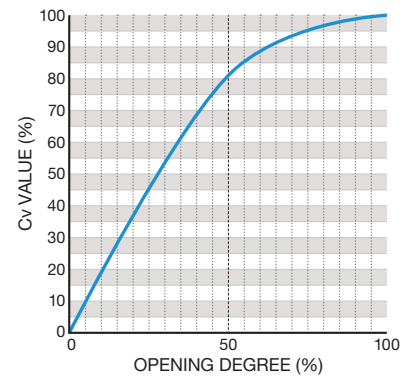
15 mm – 50 mm



65 mm – 100 mm



125 mm – 250 mm

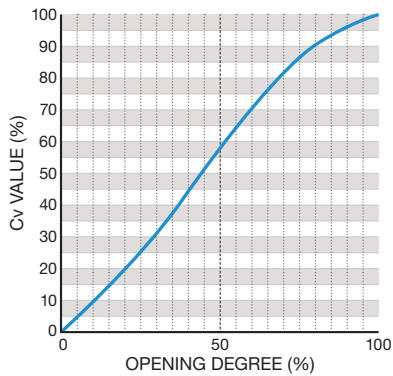


FULL-OPEN Cv VALUE

mm	15	20	25	32	40	50	65	80	100	125	150	200	250
inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
FULL-OPEN Cv VALUE	4.8	5.3	8.5	11	26	43	85	115	185	300	400	700	1000

DIAPHRAGM VALVE (TYPE AI)

15 mm – 50 mm

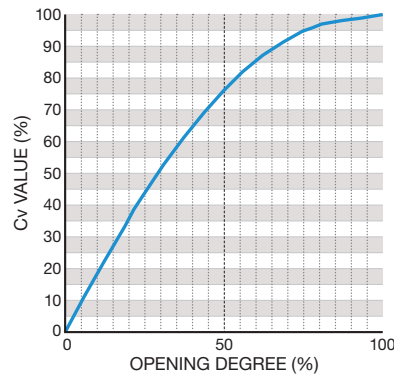


FULL-OPEN Cv VALUE

mm	15	20	25	32	40	50
inch	1/2	3/4	1	1 1/4	1 1/2	2
FULL-OPEN Cv VALUE	4.8	7.2	10	11	26	48

DIAPHRAGM VALVE TYPE 16

15 mm – 50 mm

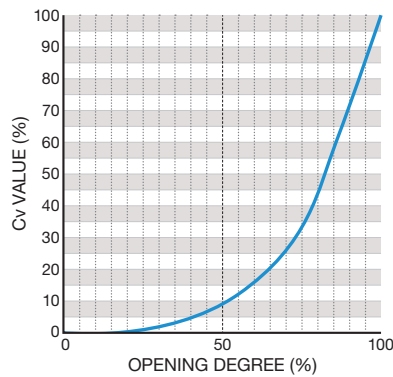


FULL-OPEN Cv VALUE

mm	15	20	25	40	50
inch	1/2	3/4	1	1 1/2	2
FULL-OPEN Cv VALUE	4.8	8.0	9.5	26	44

BALL VALVE TYPE 21, TYPE 21 α / WATER BALL VALVE

TYPE 21, TYPE 21 α : 15 mm — 100 mm
 WATER BALL VALVE: 15 mm — 50 mm

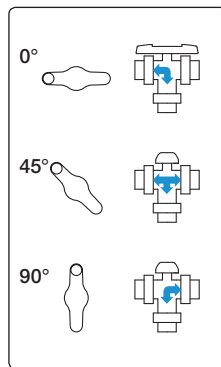
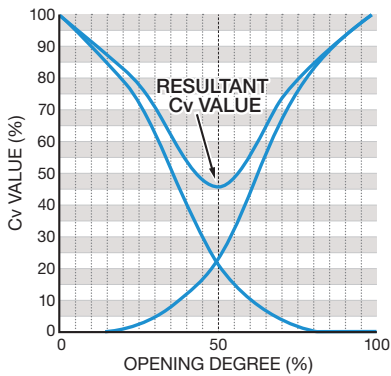


FULL-OPEN Cv VALUE

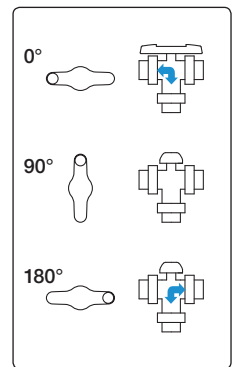
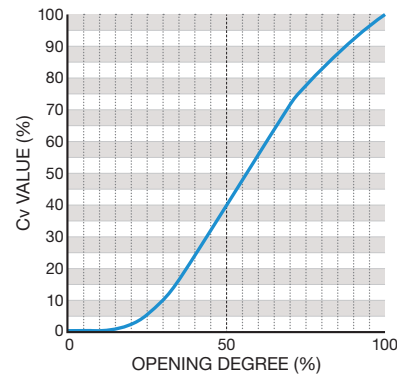
mm	15	20	25	32	40	50	65	80	100
inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
FULL-OPEN Cv VALUE	14	29	47	72	155	190	365	410	680

3 WAY BALL VALVE TYPE 23

DOUBLE L PORT (STANDARD)

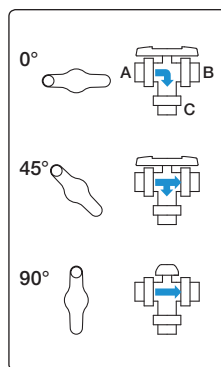
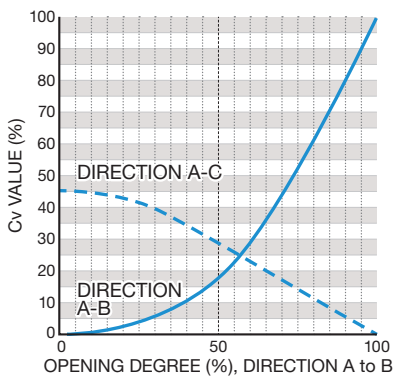


L PORT (OPTION)



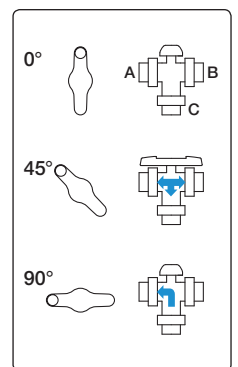
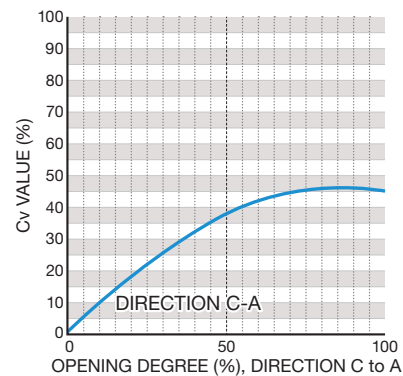
CROSS PORT (OPTION)

DIRECTION A to B, DIRECTION A to C, OPENING DEGREE (%) DIRECTION A to C



CROSS PORT (OPTION)

DIRECTION C to A

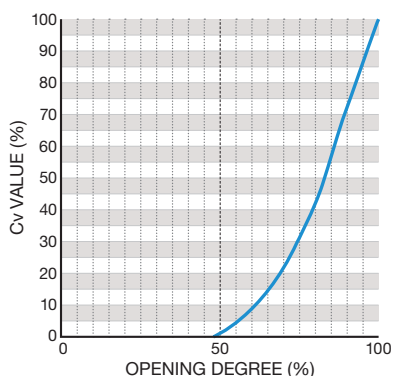


FULL-OPEN Cv VALUE

mm	15	20	25	32	40	50	65	80	100	
inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
FULL-OPEN Cv VALUE	L PORT	7.4	10	23	33	43	59	111	130	260
	DOUBLE L PORT	6.3	8.5	20	27	36	45	84	99	200
	CROSS PORT	7.8	13	23	49	65	98	—	—	—

Cv VALUE FOR EACH OPENING DEGREE

LAB COCK

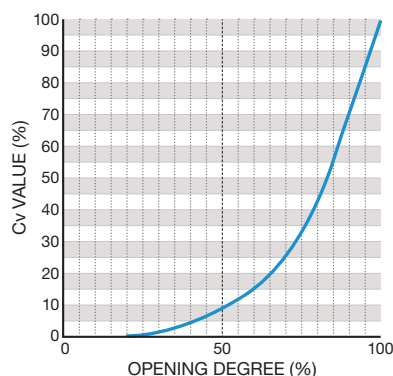


FULL-OPEN Cv VALUE

mm	—	15	—
inch	1/4	1/2	3/8
FULL-OPEN Cv VALUE	1.6		

COMPACT BALL VALVE TYPE 27

13 mm – 50 mm



FULL-OPEN Cv VALUE

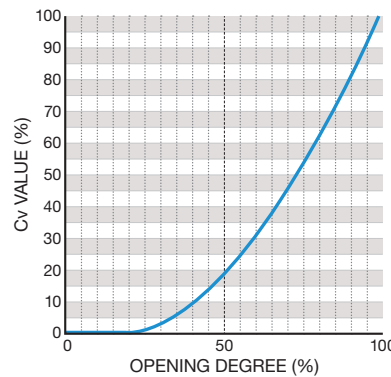
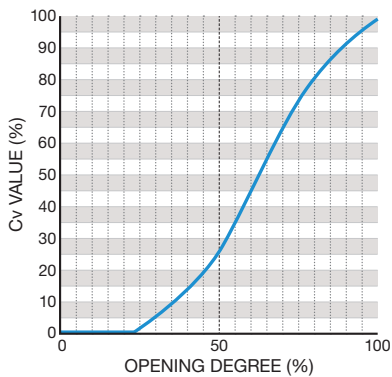
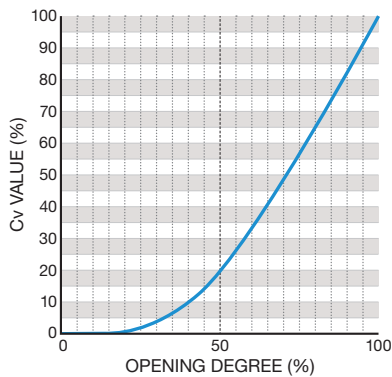
mm	13	15	20	25	32
inch	3/8	1/2	3/4	1	1 1/4
FULL-OPEN Cv VALUE	7.7	14	29	47	72
mm	40	50			
inch	1 1/2	2			
FULL-OPEN Cv VALUE	155	190			

BUTTERFLY VALVE TYPE 57, TYPE 56, TYPE 75 / LUG BUTTERFLY VALVE TYPE 57L / BUTTERFLY VALVE TYPE 55, TYPE 55IS

BUTTERFLY VALVE TYPE 57: 40 mm – 350 mm
LUG BUTTERFLY VALVE TYPE 57L: 80 mm – 150 mm

BUTTERFLY VALVE TYPE 56: 400 mm
BUTTERFLY VALVE TYPE 75: 450 mm – 600 mm

BUTTERFLY VALVE TYPE 55, TYPE 55IS: 50 mm – 250 mm

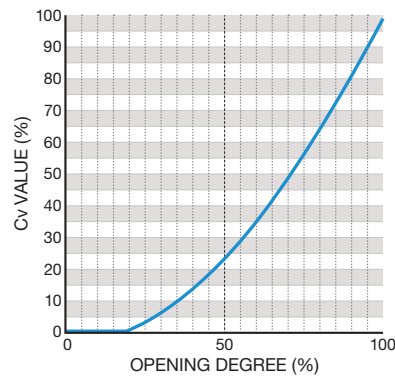


FULL-OPEN Cv VALUE

mm		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
inch		1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
FULL-OPEN Cv VALUE	BUTTERFLY VALVE TYPE 57	71	120	250	300	470	830	1,100	2,500	3,860	5,700	6,440	—	—	—	—
	BUTTERFLY VALVE TYPE 56	—	—	—	—	—	—	—	—	—	—	8,340	—	—	—	—
	BUTTERFLY VALVE TYPE 75	—	—	—	—	—	—	—	—	—	—	—	—	10,890	14,060	18,500
	LUG BUTTERFLY VALVE TYPE 57L	—	—	—	300	470	830	1,100	2,500	—	—	—	—	—	—	—
	BUTTERFLY VALVE TYPE 55, TYPE 55IS	—	100	—	285	600	940	1,500	2,500	4,200	—	—	—	—	—	—

PDCPD LARGE SIZE BUTTERFLY VALVE

700 mm – 1,200 mm

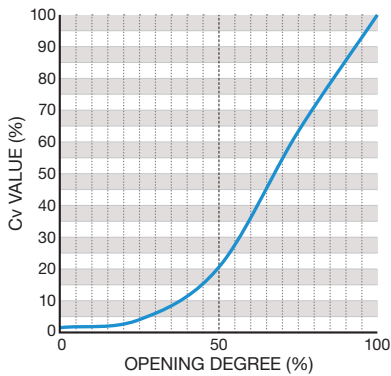


FULL-OPEN Cv VALUE

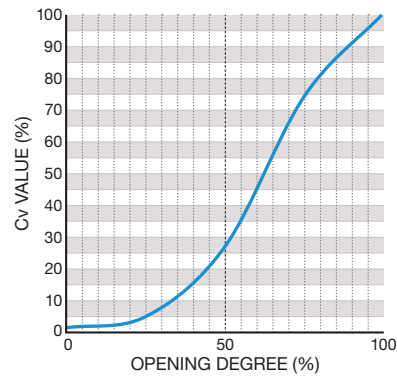
mm	700	800	900	1,000	1,100	1,200
inch	28	32	36	40	44	48
FULL-OPEN Cv VALUE	32,000	43,000	55,000	70,000	86,000	100,000

ROTARY DAMPER

40 mm – 350 mm



400 mm – 600 mm



FULL-OPEN Cv VALUE

mm	40	50	65	80	100	125	150	200	250	300	350	400
inch	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16
FULL-OPEN Cv VALUE	71	120	250	300	470	830	1,100	2,500	3,860	5,700	6,440	8,430

Cv VALUE FOR EACH OPENING DEGREE

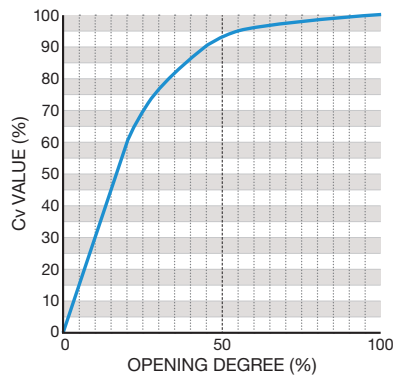
SWING CHECK VALVE, WAFER CHECK VALVE, BALL CHECK VALVE, BALL FOOT VALVE

FULL-OPEN Cv VALUE

mm		15	20	25	30 (32)	40	50	65	80	100	125	150	200	250	300
inch		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
Full open Cv VALUE	SWING CHECK VALVE	14	14	24	—	81	140	250	280	510	750	1,100	1,900	—	—
	WAFER CHECK VALVE	—	—	—	—	—	—	—	137	200	372	663	1,225	2,061	3,017
	BALL CHECK VALVE	6.5	17	25	—	86	130	—	280	500	—	—	—	—	—
	BALL FOOT VALVE	6.5	17	25	—	86	130	—	280	500	—	—	—	—	—

STOP VALVE (GLOBE VALVE)

STOP VALVE (GLOBE VALVE): 15 mm – 100 mm



FULL-OPEN Cv VALUE

mm		15	20	25	30 (32)	40	50	65	80	100
inch		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Full open Cv VALUE	STOP VALVE (GLOBE VALVE)	4.1	6.4	9.7	18	22	29	57	78	115

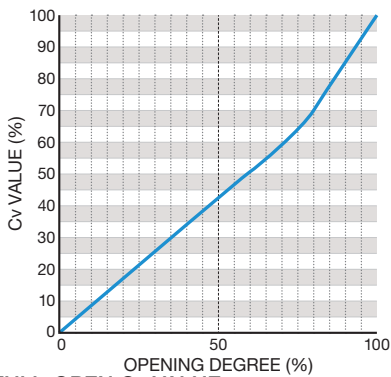
SEDIMENT STRAINER (TYPE Y)

FULL-OPEN Cv VALUE

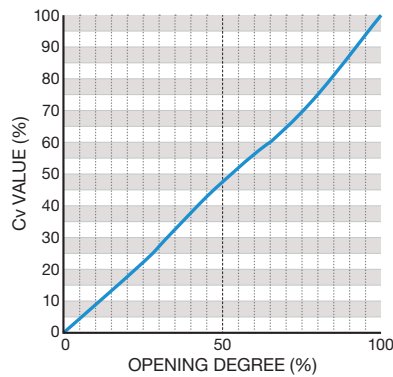
mm		15	20	25	30 (32)	40	50	65	80	100
inch		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Full open Cv VALUE	SEDIMENT STRAINER (TYPE Y)	5.2	7.5	14	26	34	50	93	110	165

NEEDLE VALVE

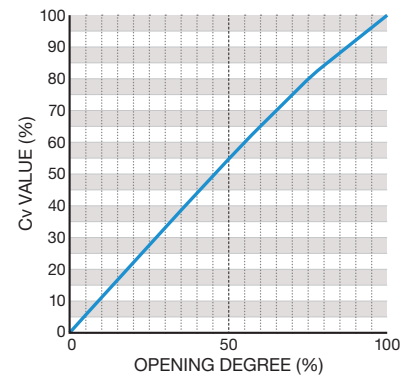
15 mm · 20 mm · 25 mm



15 mm · 20 mm (PORT SIZE 15 mm)



25 mm (PORT SIZE 15 mm)

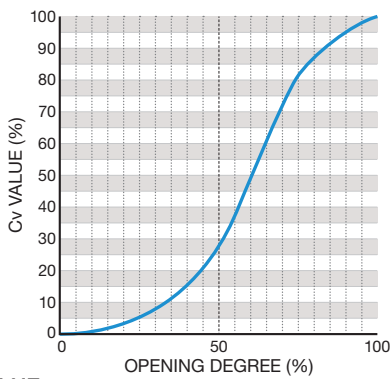


FULL-OPEN Cv VALUE

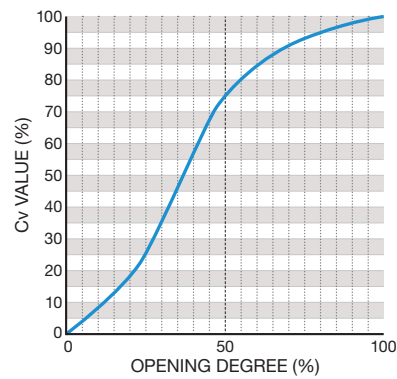
mm	15, 20		25	
inch	1/2, 3/4		1	
PORT SIZE (mm)	6	15	6	15
FULL-OPEN Cv VALUE	0.7	4.5	0.7	6.0

GATE VALVE

TYPE P: 40 mm – 350 mm



TYPE S: 40 mm – 200 mm



FULL-OPEN Cv VALUE

mm		40	50	65	80	100	125	150	200	250	300	350
inch		1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
Full open Cv VALUE	GATE VALVE (TYPE P)	130	180	415	470	690	1,000	1,400	2,900	3,700	5,200	7,000
	GATE VALVE (TYPE S)	130	180	415	470	690	1,000	1,400	2,900	—	—	—

PROPER FLOW RANGE

CONSTANT FLOW VALVE

RANGE FOR PRESET FLOW RATE AND WORKING DIFFERENTIAL PRESSURE

mm	inch	TYPE	FLOW RATE		RANGEABILITY	WORKING DIFFERENTIAL PRESSURE [MPa {kgf/cm ² }]	ACCURACY
			[m ³ /hr]	[Gal/min]			
15	1/2	B	0.04 — 0.8	0.176 — 3.52	20:1	0.020 — 0.098 {0.2 — 1.0}	WITHIN +/- 6% OF FULL SCALE
		C	0.08 — 0.8	0.35 — 3.52	10:1	0.029 — 0.196 {0.3 — 2.0}	
20	3/4	B	0.06 — 1.2	0.26 — 5.28	20:1	0.020 — 0.098 {0.2 — 1.0}	
		C	0.12 — 1.2	0.53 — 5.28	10:1	0.029 — 0.196 {0.3 — 2.0}	
25	1	A	0.5 — 2.0	2.20 — 8.81	4:1	0.020 — 0.098 {0.2 — 1.0}	
		B	0.1 — 2.0	0.441 — 8.81	20:1	0.020 — 0.098 {0.2 — 1.0}	
		C	0.2 — 2.0	0.881 — 8.81	10:1	0.029 — 0.196 {0.3 — 2.0}	
50	2	A	2.0 — 8.0	8.81 — 35.22	4:1	0.020 — 0.098 {0.2 — 1.0}	
		B	0.4 — 8.0	1.76 — 35.22	20:1	0.020 — 0.098 {0.2 — 1.0}	
		C	0.8 — 8.0	3.52 — 35.22	10:1	0.029 — 0.196 {0.3 — 2.0}	
80	3	A	5.0 — 20.0	22.02 — 88.07	4:1	0.020 — 0.098 {0.2 — 1.0}	
		B	1.0 — 20.0	4.403 — 88.07	20:1	0.020 — 0.098 {0.2 — 1.0}	
		C	2.0 — 20.0	8.81 — 88.07	10:1	0.029 — 0.196 {0.3 — 2.0}	
		D	15.0 — 30.0	66.04 — 132.1	2:1	0.029 — 0.147 {0.3 — 1.5}	
100	4	C	10.0 — 60.0	44.03 — 264.2	6:1	0.029 — 0.196 {0.3 — 2.0}	
		D	30.0 — 60.0	132.1 — 264.2	2:1	0.020 — 0.147 {0.2 — 1.5}	

*Note: The possible preset range of the flow rate and the range of the working differential pressure differs from type to type among A, B, C, and D. The right type, therefore, it should be selected from the above table in accordance with the working conditions.

SELF CONTROL VALVE

Pressure setting: 0.05 - 1.0 MPa

	mm	MAXIMUM FLOW RATE [L/h]	APPROPRIATE FLOW RANGE [L/h] (30 - 70% of MAXIMUM FLOWRATE)	APPROPRIATE FLOW RANGE [L/m] (30 - 70% of MAXIMUM FLOWRATE)
PRESSURE REDUCING TYPE	15	1,200	360 — 840	6.0 — 14.0
	20	2,400	720 — 1,680	12.0 — 28.0
	25	3,500	1,050 — 2,450	17.5 — 40.8
	32	6,000	1,800 — 4,200	30.0 — 70.0
	40	8,000	2,400 — 5,600	40.0 — 93.3
	50	15,000	4,500 — 10,500	75.0 — 175.0
PRESSURE RELIEF TYPE PRESSURE RETAINING TYPE	15	1,300	390 — 910	6.5 — 15.2
	20	2,200	660 — 1,540	11.0 — 25.7
	25	3,500	1,050 — 2,450	17.5 — 40.8
	32	5,700	1,710 — 3,990	28.5 — 66.5
	40	9,000	2,700 — 6,300	45.0 — 105.0
	50	14,000	4,200 — 9,800	70.0 — 163.3