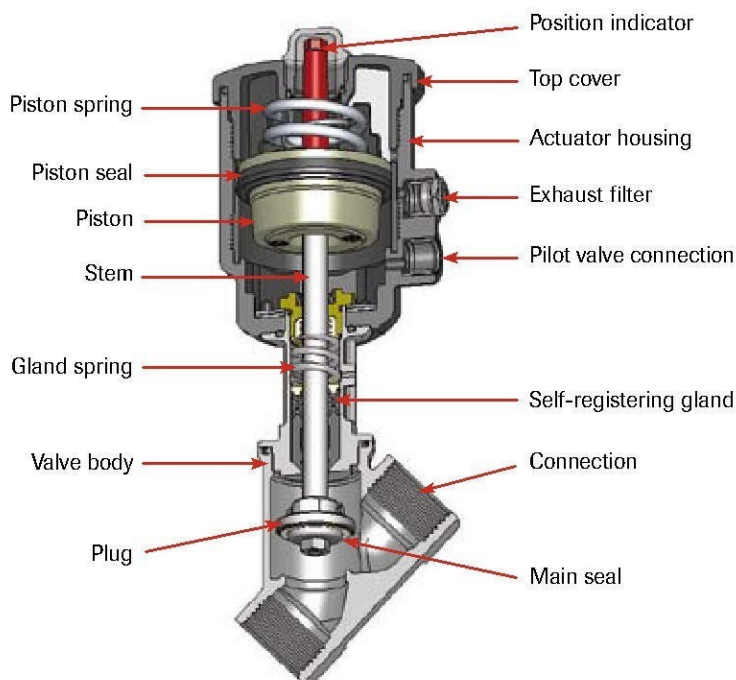


M&M INTERNATIONAL PISTON VALVES

Scheme of an M&M International piston valve components:

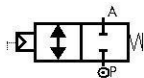


Benefits of M&M International Piston Valves

- | | |
|--|--|
| Standard versions with high performing components | ➔ Covering a wide range of industrial applications with reduced stock |
| Standard seal materials as FKM and PTFE | ➔ Max. compatibility with fluids resistance at high temperatures |
| Bidirectional version | ➔ Waterhammer-free installation |
| Wide choice of connections | ➔ Thread, welding, flange, clamp |
| Actuator orientability at 360° | ➔ Easy and quick installation |
| Red position indicator | ➔ Immediate visibility of the valve position |
| Self-registering gland and chevron packing | ➔ Smooth stem movement for longer durability |
| Housing with angle seat design | ➔ High flow rate, low pressure drop |
| S.S. valves with universal design | ➔ Suitable for vacuum applications |
| Universal mounting M&M solenoid pilot valves | ➔ Max. flexibility during installation |
| Actuator with built-in exhaust filter | ➔ Higher reliability |

2/2 WAY COMPACT PISTON VALVE G 3/8" ÷ 1/2" – BRASS

Piston valve with external pneumatic actuation, compact and solid construction. Suitable for neutral media with particles in suspension, a situation where a standard servoassisted solenoid valve may get clogged.



normally closed
flow over / under seat

TECHNICAL SPECIFICATIONS

Media: water and inert fluids, air and inert gases

Media temperature: -10°C ÷ +90°C

Ambient temperature: -10°C ÷ +80°C

Pilot media: filtered air

Actuator body material: brass (CW617N EN 12165)

Body material: brass (CW617N EN 12165)

Stem material: AISI 316L

Seal material: FKM

Frequency: 6 cycles per minute

BENEFITS

Waterhammer-free design (flow direction 2→1)

To be fitted with banjo bolt pilot solenoid valve (B356CVCMK)

Design for vacuum applications up to 10⁻² mbar

OPTIONS

NPT connection (e.g. Code BLN205DVW00)

Electroless nickel plating treatment (e.g. Code BLG205DVW0K)

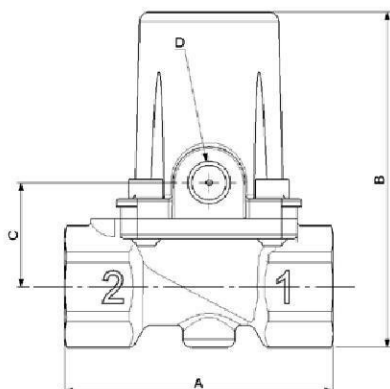
NBR seal (e.g. Code BLG205DBW00)

TYPE: BLG



SELECTION TABLE

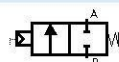
VALVE	Body connection	DN	Flow rate Kvs	Working pressure min	Working pressure max	Flow direction	Pilot pressure min	Pilot pressure max	Actuator Ø
Code	[ISO 228 G]	[mm]	[l/min]	[barg]	[barg]	-	[barg]	[barg]	[mm]
BLG204DVW00	3/8"	13.5	56 / 45	0	10	1→2 / 2→1	4.5	10	32
BLG205DVW00	1/2"	13.5	70 / 55	0	10	1→2 / 2→1	4.5	10	32



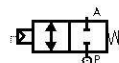
DIMENSIONS & WEIGHTS

Body connection	A	B	C	D	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[ISO 228 G]	[kg]
3/8"	67	84	26	1/8"	0.55
1/2"	67	84	26	1/8"	0.52

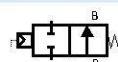
2/2 WAY PISTON VALVE G 1/2" ÷ 1" – BRONZE



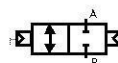
**NC normally closed
over seat flow**



**NC normally closed
Bidirectional**



**NO normally open
under seat flow**



**Double acting
Bidirectional**

TECHNICAL SPECIFICATIONS

Media: water, oil, air, aggressive media and steam ❶
Media temperature: -10°C ÷ +180°C
Ambient temperature: -10°C ÷ +60°C
Pilot media: air, inert gases, water
Body material: bronze (CB491K EN 1982)
Bonnet material: brass (CW617N EN 12165)
Actuator body material: Polyamide PA6 (reinforced fiberglass 30%)
Seal material: PTFE type TFM 1600
Position indicator as standard

BENEFITS

Waterhammer-free design for BCG - DCG type (2→1)
Actuator housing rotation 360°
Design suitable for vacuum applications up to 10⁻² mbar

OPTIONS

NPT connection (e.g. Code CN205CTW00)

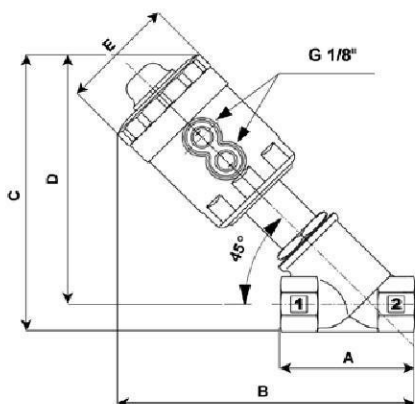
TYPE: COMPACT 45



SELECTION TABLE

VALVE	Connection	DN	Flow rate Kvs	Working pressure ❶		Flow direction	Pilot pressure ❷		Function
Code	[ISO 228 G]	[mm]	[l/min]	[barg]	[barg]	-	[barg]	[barg]	-
CG205CTW00	1/2"	15	75	0	16	1→2	3.8	10	Normally closed
CG206CTX00	3/4"	20	133	0	16	1→2	5.8	10	
CG207CTY00	1"	25	208	0	16	1→2	6.5	10	
BCG205CTW00	1/2"	15	75	0	16 / 16	1→2 / 2→1	6.2 / 5	10	Normally closed
BCG206CTX00	3/4"	20	133	0	16 / 7	1→2 / 2→1	8.7 / 5	10	
BCG207CTY00	1"	25	208	0	16 / 5	1→2 / 2→1	9.5 / 5	10	
RCG205CTW00	1/2"	15	75	0	16	2→1	4	10	Normally open
RCG206CTX00	3/4"	20	133	0	16	2→1	6.2	10	
RCG207CTY00	1"	25	208	0	16	2→1	8.8	10	
DCG205CTW00	1/2"	15	75	0	16 / 16	1→2 / 2→1	3	10	Double acting
DCG206CTX00	3/4"	20	133	0	16 / 16	1→2 / 2→1	5	10	
DCG207CTY00	1"	25	208	0	16 / 16	1→2 / 2→1	8.5	10	

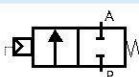
❶ Steam: Max. working pressure 10 bar (9 barg); ❷ Minimum pilot pressure at max. working pressure; for lower working pressure see selection charts



DIMENSIONS & WEIGHTS

Connection	Actuator Ø	A	B	C	D	E	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1/2"	45	65	144	136	123	57	0.8
3/4"	45	75	149	142	126	57	0.9
1"	45	90	168	161	141	57	1.1

2/2 WAY PISTON VALVE G 1/2" ÷ 2" – BRONZE



normally closed
flow over seat

TECHNICAL SPECIFICATIONS

Media: water, oil, air, aggressive media and steam ^①
 Media temperature: -10°C ÷ +180°C
 Ambient temperature: -10°C ÷ +60°C
 Pilot media: air, inert gases, water
 Body material: bronze (CB491K EN 1982)
 Bonnet material: brass (CW617N EN 12165)
 Actuator body material: Polyamide PA6 (reinforced fiberglass 30%)
 Seal material: PTFE type TFM 1600
 Position indicator as standard

BENEFITS

Actuator housing rotation 360°

OPTIONS

Manual override (e.g. Code CG205STWM0) see page 28
 Stroke regulator (e.g. Code CG210STJR0) see page 28
 Travel switch (e.g. Code CG208LTZ0) see page 28
 Design for vacuum applications up to 10⁻² mbar (e.g. Code CG205STW0V)
 NPT connection (e.g. Code CN205STW00)

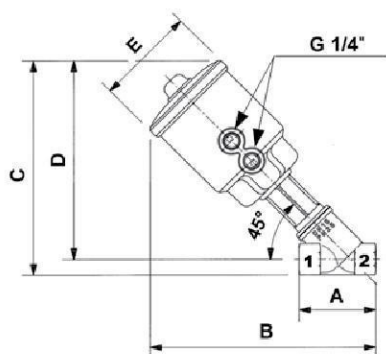
TYPE: REGULAR NC



SELECTION TABLE

VALVE	Connection	DN	Flow rate Kvs	Working pressure ^①		Flow direction	Pilot pressure ^②		Actuator Ø
Code	[ISO 228 G]	[mm]	[l/min]	[barg]	[barg]	[1 → 2]	[barg]	[barg]	[mm]
CG205STW00	1/2"	15	87	0	20	over seat	3.7	10	63
CG206STX00	3/4"	20	164	0	20	over seat	4.4	10	
CG207STY00	1"	25	260	0	20	over seat	5	10	
CG208STZ00	1 1/4"	32	410	0	16	over seat	5.9	10	
CG209STK00	1 1/2"	40	700	0	16	over seat	9	10	
CG210STJ00	2"	50	950	0	11	over seat	8	10	90
CG207LTY00	1"	25	260	0	20	over seat	2	8	
CG208LTZ00	1 1/4"	32	410	0	16	over seat	3.5	8	
CG209LTK00	1 1/2"	40	700	0	16	over seat	4	8	
CG210LTJ00	2"	50	950	0	15	over seat	6.5	8	

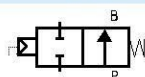
^① Steam: Max. working pressure 10 bar (9 barg); ^② Minimum pilot pressure at max. working pressure; for lower working pressure see selection charts



DIMENSIONS & WEIGHTS

Connection	Actuator Ø	A	B	C	D	E	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1/2"	63	65	192	184	171	85	1.2
3/4"	63	75	198	192	176	85	1.3
1"	63	90	212	205	185	85	1.5
1 1/4"	63	110	225	217	193	85	1.9
1 1/2"	63	120	230	225	198	85	2.1
2"	63	150	248	241	207	85	2.9
1"	90	90	223	216	196	112	2.0
1 1/4"	90	110	234	227	202	112	2.4
1 1/2"	90	120	239	235	207	112	2.6
2"	90	150	257	250	216	112	3.3

2/2 WAY PISTON VALVE G 1/2" ÷ 2" NORMALLY OPEN – BRONZE



normally open
flow under seat

TECHNICAL SPECIFICATIONS

Media: water, oil, air, aggressive media and steam ^①
 Media temperature: -10°C ÷ +180°C
 Ambient temperature: -10°C ÷ +60°C
 Pilot media: air, inert gases, water
 Body material: bronze (CB491K EN 1982)
 Bonnet material: brass (CW617N EN 12165)
 Actuator body material: Polyamide PA6 (reinforced fiberglass 30%)
 Seal material: PTFE type TFM 1600
 Position indicator as standard

BENEFITS

Waterhammer-free design
 Actuator housing rotation 360°

OPTIONS

Manual override (e.g. Code CG205STWM0) see page 28
 Stroke regulator (e.g. Code CG210STJR0) see page 28
 Travel switch (e.g. Code CG208LTZ0) see page 28
 Design for vacuum applications up to 10⁻² mbar (e.g. Code CG205STW0Y)
 NPT Connection (e.g. Code CN205STW00)

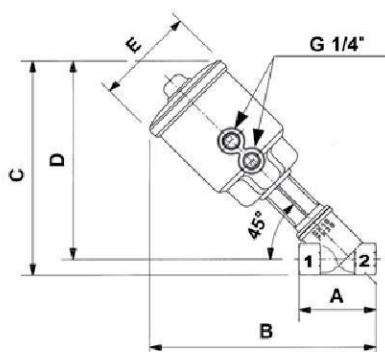
TYPE: REGULAR NO



SELECTION TABLE

VALVE	Connection	DN	Flow rate Kvs	Working pressure ^①		Flow direction	Pilot pressure ^②		Actuator Ø
Code	[ISO 228 G]	[mm]	[l/min]	[barg]	[barg]	[2 → 1]	[barg]	[barg]	[mm]
RCG205STW00	1/2"	15	87	0	16	under seat	2.5	10	63
RCG206STX00	3/4"	20	164	0	16	under seat	4.3	10	
RCG207STY00	1"	25	260	0	16	under seat	5.5	10	
RCG208STZ00	1 1/4"	32	410	0	16	under seat	6.5	10	
RCG209STK00	1 1/2"	40	700	0	16	under seat	9	10	
RCG210STJ00	2"	50	950	0	12	under seat	9.4	10	
RCG207LTY00	1"	25	260	0	16	under seat	2	8	90
RCG208LTZ00	1 1/4"	32	410	0	16	under seat	4	8	
RCG209LTK00	1 1/2"	40	700	0	16	under seat	5	8	
RCG210LTJ00	2"	50	950	0	16	under seat	7	8	

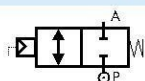
^① Steam: Max. working pressure 10 bar (9 barg); ^② Minimum pilot pressure at max. working pressure; for lower working pressure see selection charts



DIMENSIONS & WEIGHTS

Connection	Actuator Ø	A	B	C	D	E	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1/2"	63	65	192	184	171	85	1.2
3/4"	63	75	198	192	176	85	1.3
1"	63	90	212	205	185	85	1.5
1 1/4"	63	110	225	217	193	85	1.9
1 1/2"	63	120	230	225	198	85	2.1
2"	63	150	248	241	207	85	2.9
1"	90	90	223	216	196	112	2.0
1 1/4"	90	110	234	227	202	112	2.4
1 1/2"	90	120	239	235	207	112	2.6
2"	90	150	257	250	216	112	3.3

2/2 WAY PISTON VALVE G 1/2" ÷ 2" BIDIRECTIONAL – BRONZE



normally closed
flow over / under seat

TECHNICAL SPECIFICATIONS

Media: water, oil, air, aggressive media and steam ^①
Media temperature: -10°C ÷ +180°C
Ambient temperature: -10°C ÷ +60°C
Pilot media: air, inert gases, water
Body material: bronze (CB491K EN 1982)
Bonnet material: brass (CW617N EN 12165)
Actuator body material: Polyamide PA6 (reinforced fiberglass 30%)
Seal material: PTFE type TFM 1600
Position indicator as standard

BENEFITS

Waterhammer-free design (with flow direction 2→1)
Actuator housing rotation 360°

OPTIONS

Manual override (e.g. Code BCG205STWM0) see page 28
Stroke regulator (e.g. Code BCG210STJR0) see page 28
Travel switch (e.g. Code BCG208LTZJ0) see page 28
Design for vacuum applications up to 10⁻² mbar (e.g. Code BCG205STW0Y)
NPT Connection (e.g. Code BCN205STW00)

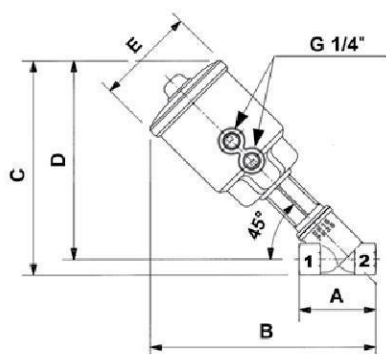
TYPE: REGULAR BD



SELECTION TABLE

VALVE	Connection	DN	Flow rate Kvs	Working pressure ^①		Flow direction	Pilot pressure ^②		Actuator Ø
Code	[ISO 228 G]	[mm]	[l/min]	[barg]	[barg]	-	[barg]	[barg]	[mm]
BCG205STW00	1/2"	15	87	0	16	1→2 / 2→1	5.5 / 3.8	10	63
BCG206STX00	3/4"	20	164	0	16	1→2 / 2→1	6 / 3.8	10	
BCG207STY00	1"	25	260	0	16 / 11	1→2 / 2→1	6.5 / 3.8	10	
BCG208STZ00	1 1/4"	32	410	0	16 / 6	1→2 / 2→1	6.8 / 3.8	10	
BCG209STK00	1 1/2"	40	700	0	12 / 4	1→2 / 2→1	9 / 3.8	10	
BCG210STJ00	2"	50	950	0	8 / 2.5	1→2 / 2→1	9 / 3.8	10	
BCG207LTY00	1"	25	260	0	16 / 14	1→2 / 2→1	4 / 3.3	8	90
BCG208LTZ00	1 1/4"	32	410	0	16 / 12	1→2 / 2→1	5 / 3.3	8	
BCG209LTK00	1 1/2"	40	700	0	16 / 8	1→2 / 2→1	6 / 3.3	8	
BCG210LTJ00	2"	50	950	0	14 / 6	1→2 / 2→1	8 / 3.3	8	

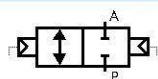
^① Steam: Max. working pressure 10 bar (9 barg); ^② Minimum pilot pressure at max. working pressure; for lower working pressure see selection charts



DIMENSIONS & WEIGHTS

Connection	Actuator Ø	A	B	C	D	E	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1/2"	63	65	192	184	171	85	1.2
3/4"	63	75	198	192	176	85	1.3
1"	63	90	212	205	185	85	1.5
1 1/4"	63	110	225	217	193	85	1.9
1 1/2"	63	120	230	225	198	85	2.1
2"	63	150	248	241	207	85	2.9
1"	90	90	223	216	196	112	2.0
1 1/4"	90	110	234	227	202	112	2.4
1 1/2"	90	120	239	235	207	112	2.6
2"	90	150	257	250	216	112	3.3

2/2 WAY PISTON VALVE G 1/2" ÷ 2" DOUBLE ACTING – BRONZE



double acting
flow over / under seat

TECHNICAL SPECIFICATIONS

Media: water, oil, air, aggressive media and steam ❶
Media temperature: -10°C ÷ +180°C
Ambient temperature: -10°C ÷ +60°C
Pilot media: air, inert gases, water
Body material: bronze (CB491K EN 1982)
Bonnet material: brass (CW617N EN 12165)
Actuator body material: Polyamide PA6 (reinforced fiberglass 30%)
Seal material: PTFE type TFM 1600
Position indicator as standard

BENEFITS

Waterhammer-free design (with flow direction 2 → 1)
Actuator housing rotation 360°

OPTIONS

Manual override (e.g. Code DCG205STWM0) see page 28
Stroke regulator (e.g. Code DCG210STJR0) see page 28
Travel switch (e.g. Code DCG208LTZI0) see page 28
Design for vacuum applications up to 10⁻² mbar (e.g. Code DCG205STW0V)
NPT Connection (e.g. Code DCN205STW00)

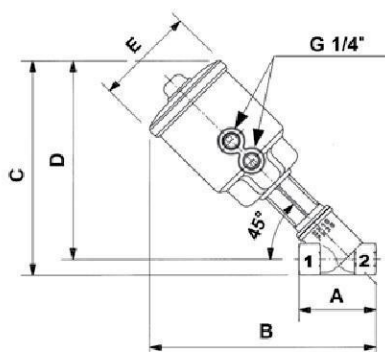
TYPE: REGULAR DA



SELECTION TABLE

VALVE	Connection	DN	Flow rate Kvs	Working pressure ❶		Flow direction	Pilot pressure ❷		Actuator Ø
				min	max		min	max	
Code	[ISO 228 G]	[mm]	[l/min]	[barg]	[barg]	-	min [barg]	max [barg]	[mm]
DCG205STW00	1/2"	15	87	0	16	1 ↔ 2	1.8	2	63
DCG206STX00	3/4"	20	164	0	16	1 ↔ 2	2	3.8	
DCG207STY00	1"	25	260	0	16	1 ↔ 2	3	5	
DCG208STZ00	1 1/4"	32	410	0	16	1 ↔ 2	4.5	6	
DCG209STK00	1 1/2"	40	700	0	16	1 ↔ 2	6.5	7	
DCG210STJ00	2"	50	950	0	12	1 ↔ 2	9	10	

❶ Steam: Max. working pressure 10 bar (9 barg); ❷ Minimum pilot pressure at max. working pressure; for lower working pressure see selection charts



DIMENSIONS & WEIGHTS

Connection	Actuator Ø	A	B	C	D	E	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1/2"	63	65	192	184	171	85	1.2
3/4"	63	75	198	192	176	85	1.3
1"	63	90	212	205	185	85	1.5
1 1/4"	63	110	225	217	193	85	1.9
1 1/2"	63	120	230	225	198	85	2.1
2"	63	150	248	241	207	85	2.9

MANUAL ANGLE SEAT VALVE G 1/2" ÷ 2" – BRONZE

flow over/ under seat

TECHNICAL SPECIFICATIONS

Media: water, oil, air, aggressive media and steam ^❶

Media temperature: -10°C ÷ +180°C

Ambient temperature: -10°C ÷ +60°C

Body material: bronze (CB491K EN 1982)

Bonnet material: brass (CW617N EN 12165)

Seal material: PTFE type TFM 1600

OPTIONS

NP^T Connection (e.g. Code CN2050TW00)

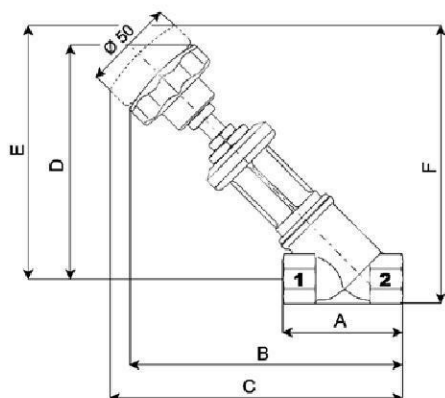
TYPE: CG MANUAL



SELECTION TABLE

VALVE	Connection	DN	Flow rate Kvs	Working pressure ^❶		Flow direction
Code	[ISO 228 G]	[mm]	[l/min]	min	max	
CG2050TW00	1/2"	15	87	0	25	1 ↔ 2
CG2060TX00	3/4"	20	164	0	25	1 ↔ 2
CG2070TY00	1"	25	260	0	25	1 ↔ 2
CG2080TZ00	1 1/4"	32	410	0	25	1 ↔ 2
CG2090TK00	1 1/2"	40	700	0	25	1 ↔ 2
CG2100TJ00	2"	50	916	0	16	1 ↔ 2

^❶ Steam: Max. working pressure 10 bar (9 barg);



DIMENSIONS & WEIGHTS

Connection	A	B	C	D	E	F	Weight
[ISO 228 G]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1/2"	65	142	150	121	128	141	0.75
3/4"	75	148	155	126	133	150	0.80
1"	90	163	172	135	145	165	1.20
1 1/4"	110	175	188	143	156	181	1.80
1 1/2"	120	180	193	148	161	189	2.10
2"	150	198	212	157	170	205	3.10