

McSYS[®]

G-SERIES CAGE APPLICATION VALVE

MS, MD, MT, CC

General Purpose Globe Valves



C-Series Cage Control Valves

This versatile design can be used for compressible and non-compressible fluid service application in valve sizes ranging from 3/4 through 18" in pressure classes 150, 2500, 3000, 4500.

C-Series valves are supplied with either direct or reverse acting actuators plus a number of optional accessories to satisfy most final control element requirements. Our C-Series valves also permits interchangeability of actuators and trim types within certain valve sizes for simplifying control changes in the field. This feature combined with a wide selection of standard and optional trim assemblies provides optimum control and has proven to be economical should field conversion be necessary.

McCaughey's long experience success with fluid control devices carries through with the C-Series control valve & Actuator series to meet the needs of the power and process industries.

Contents

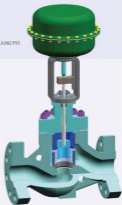
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Heavyduty Cage Guided Design



Specification

Body Size	1" to 24" (Optional / up to 36")
Body Style	Globe, Angle
Pressure Rating	ANSI Class 150 to 2500, 3000, 4500
End Connection	Flanged, Socket welded, Butt welded, Ring joint type, etc.
Trim Design	Unbalanced, Balanced and Auxiliary pilot CC : Conventional Cage, MS : Multi-hole Intage, MD : Multi-hole Stages, MT : Multi-hole Stages S/Skel trim : Disk Stack
Stem Type	Bolted design, Pressure seal design Standard, Extension, Cryogenic, Bellows seal
Seat Leakage	ANSI B16.34 / FCJ 20-1 Class IV(Standard), V(Optional), VI(Optional, Soft seat) MSS-SP-61(Optional)
Characteristic	Equal % , Linear, Modified % , Quick opening Custom engineered
Standard Materials	
Body & Bonnet	A216 WCB / A305, A217 WCB / A182 F11, A217 WC9 / A302 F22, A182 F91 Stainless steel, Titanium, Inconel, Monel, Hastelloy, etc.
Trim	316SS, 416SS, 420SS, 420J SS, 630SS P-11, P-22, P-91 with Stellite overlay Inconel, Others special materials,
Balance Seal	RTFE "U" Seal Carbon with metal seal Graphite with Inconel seal
Rangeability	15:1, 50:1, 50:1 to 100:1 Custom engineered



General Application

Conventional cage / balanced single seat port throttle

General purpose cage guided valve trim which can be used in most clean compressible and non-compressible fluid services for both modulating and on/off control. The balanced plug design reduces actuator force requirements thus permitting use of smaller, less expensive actuators while maintaining tight shut-off capability.



CONVENTIONAL CAGE

Multi-hole 1stage, 2stages Trim

This trim offers some of the advantages of the multiple stages MH Trim. Single stage trim reduces the damaging effects of flashing and cavitation when used with compressible and non-compressible fluids. Turn down ratio, seat leakage, dBA levels, flashing and cavitation reduction are based upon the individual design criteria of each trim. The single stage trim can be used in place of other port throttling trim styles, size available in from 2inch through 18" valves with balanced and unbalanced plugs. / Option 2T-36"



MULTI-HOLE 2STAGES

Multi-hole 3stage Trim

Use multi-hole multi-stage trim assembly in unbalanced or balanced single seat designs provides multiple pressure breakdowns for noise abatement in critical pressure drop steam or gas applications. This trim is also equally effective in high pressure drop liquid applications for preventing cavitation and trim erosion damage.



MULTI-HOLE 3STAGES

Auxiliary pilot plug trim (APT)

The APT trim is designed primarily for high pressure differential applications where tight shut-off is essential. Such applications include steam and water pressure reduction, steam throttling to atmosphere or to condenser, isolation, super-critical boiler start-up and variety of other uses in steam and water control systems. The design of the APT trim provides tight shut-off, excellent control and rangeability, but requires low actuator thrust which provides rapid response. It is also lower in cost. The trim is basically a port throttling single seat design with main and pilot plugs working in APT. The large main plug is the control device. Inside the main plug is the pilot plug connected rigidly to the valve stem. When closing the main plug seats first as a large balanced plug and this is rapidly followed by the closing of the pilot plug. At this point, the plug from an unbalanced assembly and up stream pressure helps create high seating force resulting in reliable shut-off as high as class V. To open the actuator need only lift the small pilot plug to cause the main plug to once again become balanced.



AUXILIARY PLOT TRIM / APT WITH 1STAGE

BlueJet™ INC.

General Selection Information

Trim Cv Calculation

A full description of the procedure used for calculating the Cv on various is detailed in the DDTO sizing & selection program.

Body Selection

Generally, the valve body must be capable of supporting the selected trim design without producing excessive velocity. The following tables can be used as a guide for determining the maximum recommended body velocities for liquid and gas/vapor applications.

Recommended maximum inlet and outlet velocities for liquid service

Valve size	Maximum Recommended Velocity					
	Valve Body Material					
	Carbon Steel		Alloy Steel		Cu / Ni Alloys	
	m / s	ft / s	m / s	ft / s	m / s	ft / s
1" - 12" / 21A - 380A	13.3	45	15.8	52	7.6	25
14" - 24" / 593A - 698A	16.7	55	13.3	45	6.4	21
Above 24"	7.6	25	16.7	55	4.6	15

Recommended maximum inlet and outlet velocities for gas/vapor service

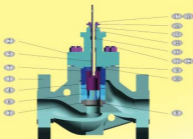
Allowable Noise Level (dBA)	Maximum Recommended Velocity				
	Inlet		Outlet		Mach Number
	m / s	ft / s	m / s	ft / s	
185	141	475	253	880	0.5

Trim Inherent Rangeability

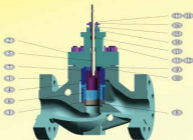
The inherent rangeability of a valve trim is dependent on a number of factors including size and style. The values detailed below table provide a general guideline to the maximum achievable values.

Trim size	Standard Rangeability
Up to 8"	50 : 1
Up to 8"	60 : 1
Up to 8"	70 : 1
Up to 8"	80 : 1
Special Application Maximum Rangeability	800 : 1

Body Materials



Conventional Cage Valve



Velocity Control Valve

General Selection Information

Carbon Steel or Alloy Steel

Part No.	Valve type	Temperature Range	Fluid Temperature (°F)			
			30	40	40	50
1	Body	AISI WCB A217-WCP or A217-WCS				
2	Bonnet	AISI WCB A217-WCP or A217-WCS				
3	Seat Ring	2105, 2105 + Sealsite 4202 SS 304SS				
4	Plug	2105, 2105 + Sealsite 4202 SS 304SS				
5	Plugstem	304SS				
6	Cap	304SS				
7	Balance Cylinder	Balance 304SS				
8	Seat Ring Gasket	Spiral wound				
9+30	Body Gasket	Spiral wound				
11	Body Stud	A193 B7				
12	Body Nut	A194 B7				
13	Packing Spacer	304SS				
14	Packing	See Specification Sheet				
15	Gland	304SS				
16	Packing Flange	NBC or 2105				
17	Packing Stud	2105				
18	Packing Nut	2105				

Stainless Steel

Part No.	Valve type	Temperature Range	Fluid Temperature (°F)			
			30	40	40	50
1	Body	A309 CF8M				
2	Bonnet	A309 CF8M				
3	Seat Ring	2105, 2105 + Sealsite 304SS, 316SS + Sealsite				
4	Plug	2105, 2105 + Sealsite 304SS or 316SS				
5	Plugstem	304SS or 316SS				
6	Seat Ring Retainer	2105				
7	Upper Seat Ring Retainer	2105 with Cr. Plug				
8	Seat Ring Gasket	Spiral wound				
9+30	Body Gasket	Spiral wound				
11	Body Stud	A307 B8			304SS	
12	Body Nut	304SS			304SS	
13	Packing Spacer	NBC or 304SS				
14	Packing	See Specification sheet				
15	Gland Follower	2105				
17	Packing Stud	2105				
18	Packing Nut	2105				

Cv, FL Travel Chart

Linear Standard Type

Percent of Travel FL	FL										
	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.96	
Value Size (Inches, Trade Size)	Based Cv										
1-1/2"	1.50	20/30	4.95	7.00	11.52	14.70	18.06	21.47	24.95	28.45	31.92
2"	1.50	40	6.33	10.05	15.40	20.75	24.26	28.83	33.37	37.95	42.47
2-1/2"	2.50	30/40	5.40	10.55	20.00	30.60	37.72	44.77	51.80	58.80	65.84
3"	2.00	30/40	7.15	12.47	17.78	23.30	28.42	33.73	39.05	44.37	49.69
3 1/2"			13.05	23.40	35.05	44.30	54.25	64.40	74.55	84.70	94.85
4"	3.15	40/50	21.30	24.93	35.57	46.20	56.83	67.47	78.10	88.73	99.37
5/8"			24.70	33.07	44.45	56.80	68.77	130.55	154.30	155.27	171.65
6"	3.50	40/50	26.0	35.3	56.7	66.0	108.3	122.7	142.0	155.5	180.7
5/8"			30.70	42.0	68.7	128.5	148.0	206.7	245.5	284.0	322.7
8"	7.80	70	70.2	122.4	174.0	226.8	279.0	331.2	383.4	435.0	487.0
		100	87.1	151.8	216.0	281.4	346.2	410.9	475.7	540.5	605.2
10"	9.80	70	100.2	186.4	272.0	352.8	434.0	515.2	596.4	677.0	758.0
		100	115.2	215.7	306.3	400.8	517.5	637.9	758.4	878.9	999.5
12"	11.00	70	130.5	238.8	330.5	441.0	542.5	644.0	745.5	847.0	948.5
		100	148.5	328.7	448.8	609.0	749.2	889.5	1029.8	1169.8	1309.8
14"	13.00	100	165.0	346.8	489.0	630.0	775.0	930	1085.0	1240.0	1395.0
		150	217.4	448.8	640.2	844.0	1024.0	1214.4	1405.8	1597.2	1788.0
16"	15.00	100	200.5	404.7	562.8	744.0	938.0	1127.5	1319.5	1513.7	1708.0
		150	236.0	509.1	693.7	924.0	1145.5	1396.7	1646.0	1895.5	2145.0

Equal Percentage Standard Type

Percent of Travel FL	FL										
	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.96	
Value Size (Inches, Trade Size)	Based Cv										
1-1/2"	1.50	20/30	3.44	2.50	3.23	4.55	6.85	8.96	11.02	17.75	24.51
2"	1.50	40	2.20	3.00	4.55	6.51	8.96	11.96	15.94	23.45	47.0
2-1/2"	2.50	30/40	3.28	4.60	6.47	9.49	12.76	17.86	25.21	35.45	49.82
3"	2.00	30/40	3.53	4.67	6.50	9.25	12.90	18.21	25.93	35.90	50.55
3 1/2"			4.52	6.90	9.71	14.44	20.77	28.94	37.85	48.14	74.75
4"	3.15	40/50	5.15	7.24	10.17	14.20	20.00	28.22	38.05	55.71	76.20
5/8"			8.90	12.50	17.57	24.60	34.60	48.74	68.40	95.22	130.0
6"	3.50	40/50	9.2	12.9	18.1	25.5	35.8	50.4	70.7	99.5	130.5
5/8"			10.70	14.7	20.3	28.0	39.0	53.6	74.2	103.0	140.0
8"	7.80	70	24.4	34.2	48.1	67.6	94.9	133.4	187.4	263.0	370.1
		100	30.4	42.8	60.1	84.5	118.7	166.8	234.3	325.2	462.0
10"	9.80	70	30.5	43.5	77.7	109.1	155.4	215.5	302.8	429.5	607.0
		100	40.7	58.4	96.2	135.1	190.9	266.0	374.9	520.0	743.2
12"	11.00	70	47.8	67.2	98.5	142.5	200.2	281.7	397.7	546.0	778.0
		100	60.5	83.5	130.5	186.5	260.3	364.3	511.9	719.2	1013.0
14"	13.00	100	67.9	95.4	154.1	219.4	304.7	422.0	582.7	794.4	1099.0
		150	92.7	130.3	203.1	287.5	394.5	537.0	733.7	1012.0	1390.0
16"	15.00	100	80.0	124.0	178.7	246.9	340.0	467.4	644.9	882.5	1212.0
		150	116.0	167.8	250.0	357.4	493.1	665.5	908.4	1275.4	1750.0

C-Series Application Value

BluePrint® INC.

Cv, FL Travel Chart

Linear Multi Hole Type(1-Stage)

Percent of Travel	FL									
	10	20	30	40	50	60	70	80	90	100
1-1/2"	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90
2"	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90
2-1/2"	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90
3"	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.89
4"	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.88
6"	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.87
8"	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.87	0.86	0.86
10"	0.89	0.89	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.85
12"	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.85	0.84	0.84
14"	0.87	0.87	0.86	0.86	0.85	0.85	0.84	0.84	0.83	0.83
16"	0.86	0.86	0.85	0.85	0.84	0.84	0.83	0.83	0.82	0.82

Equal Percentage Multi Hole Type(1-Stage)

Percent of Travel	FL									
	10	20	30	40	50	60	70	80	90	100
1-1/2"	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90
2"	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90
2-1/2"	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90
3"	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.89
4"	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.88
6"	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.87
8"	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.87	0.86	0.86
10"	0.89	0.89	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.85
12"	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.85	0.84	0.84
14"	0.87	0.87	0.86	0.86	0.85	0.85	0.84	0.84	0.83	0.83
16"	0.86	0.86	0.85	0.85	0.84	0.84	0.83	0.83	0.82	0.82

Dimensions



ANSI Class 150-600

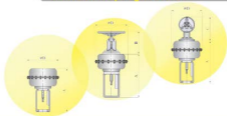
valve Size (DN)	A						B		H			
	ANSI Class 150		ANSI Class 300		ANSI Class 600		ANSI Class 150-300	ANSI Class 400	ANSI Class 150-300		ANSI Class 400	
	Welding	RF	Welding	RF	Welding	RF	Welding	RF	Standard Bracket	Extension Bracket	Standard Bracket	Extension Bracket
1-1/2"	222	215	215	251	250	251	62	72	72	515	205	390
2"	251	240	247	280	280	280	75	80	80	570	270	431
2.5"	279	262	262	292	311	311	90	100	100	590	295	430
3"	308	294	295	328	337	337	100	120	120	600	320	454
4"	352	339	339	368	394	394	120	140	140	440	340	485
6"	450	475	475	475	508	508	150	182	182	440	398	520
8"	540	560	560	560	610	610	205	215	215	750	495	760
10"	670	708	708	708	752	752	230	260	260	610	505	860
12"	790	795	795	795	810	810	280	300	300	650	700	950
14"	880	927	927	927	972	972	315	345	345	-	545	-
16"	1000	1057	1057	1057	1108	1108	340	370	370	-	750	-

ANSI Class 900-2500

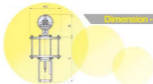
valve Size (DN)	A						B		H			
	ANSI Class 900		ANSI Class 1500		ANSI Class 2500		ANSI Class 900-1500	ANSI Class 2000	ANSI Class 900-1500		ANSI Class 2500	
	Welding	RF	Welding	RF	Welding	RF	Welding	RF	Welding	Extension Bracket	Welding	Extension Bracket
1-1/2"	315	330	331	330	361	361	80	100	208	390	420	475
2"	375	375	375	375	400	400	100	120	380	440	355	515
2.5"	430	430	430	430	441	441	120	135	525	480	380	508
3"	441	460	460	460	460	460	140	150	500	540	440	550
4"	511	530	530	530	537	537	170	185	405	535	498	715
6"	734	768	768	768	864	864	220	250	530	720	662	860
8"	972	972	972	972	1022	1020	265	298	540	780	610	-
10"	991	991	991	991	1270	1270	310	350	900	860	680	-
12"	1130	1130	1130	1130	1321	1321	358	-	650	-	-	-

Dimensions

Dimension - Diaphragm Actuator



ACTUATOR SIZE	D	A	B	C
S1	220	300	250	-
S2	250	350	250	-
S3	370	470	250	-
S4	480	605	-	300
S5	590	700	-	400



Dimension - Cylinder

ACTUATOR SIZE	D	A	B
TA	400	700	600
TB	440	800	700
TC	550	1000	800
TD	600	1100	900
Special	Custom	Engineered	-

ORDERING INFORMATION (CONTROL VALVE)

S G - 20A 10K - 2 B 1 S 1 B - 2 3 H 1

1 2 3 4 5 6 7 8 9 10

1. VALVE TYPE	
SG	- SINGLE PORT
CG	- CAGE PORT
GA	- GATE

2. SIZE	
15A - 500A	(1/2" - 20")

3. RATING	
10K	- KS (CS) 10K RF
20K	- KS (CS) 20K RF
40K	- KS (CS) 40K RF
63K	- KS (CS) 63K RF
150F	- ANS 150# RF
300F	- ANS 300# RF
600F	- ANS 600# RF
900F	- ANS 900# RF
1500F	- ANS 1500# RF
150W	- ANS 150# B.W
300W	- ANS 300# B.W
600W	- ANS 600# B.W
900W	- ANS 900# B.W
1500W	- ANS 1500# B.W

3. PAI ACTION	
A	LAST STKY
B	CLOSE
C	OPEN
D	OTHERS

4. PLUG TYPE	
1	ON-OFF SINGLE PORT
2	P-PORT 50% S0
3	P-PORT LINEAR S0
4	ON-OFF CAGE
5	P-PORT 50% CAGE
6	P-PORT LINEAR CAGE
7	LOW NOISE 3-STAGE
8	LOW NOISE 2-STAGE
9	LOW NOISE MULTI
E	EXTREME TRIM
W	WEDGE
O	OTHERS

5. BODY MATERIAL	
A	FCI
B	30PH (WCR)
C	SCS13 (CF8)
D	SCS14 (CF8M)
E	SCS19 (CF3)
F	SCS16 (CF3M)
G	HASTELLOY-C
H	PTFE
I	OTHERS

6. TRIM MATERIAL	
1	SUS304
2	SUS316
3	SUS410
4	SUS316L
5	PTFE
6	HASTELLOY-C
7	OTHERS

7. BONNET TYPE	
5	STANDARD
E	EXTENSION
H	EXTENSION (FIN)
B	BELLOWS
E	OTHERS

8. ACTUATOR TYPE	
1	DIAPHRAGM (SPRING RETURN)
2	CYLINDER (DOUBLE ACTING)
3	CYLINDER (SPRING RETURN)
4	ELECTRIC
5	ELECTRO-HYDRAULIC
6	OTHERS

10. ACCESSORY			
PNEUMATIC		ELECTRIC	
1	NONE	S	SPEED CONTROLLER
2	FILTER REGULATOR	B	BOOSTER RELAY
3	E/P POSITIONER	H1	TOP HANDWHEEL
4	P/P POSITIONER	H2	SIDE HANDWHEEL
5	SOL VALVE	O	OTHERS
6	SOL VALVE (1/4")		
7	LIMIT SWITCH		
8	LIMIT SWITCH (1/4")		
9	LOCK-UP VALVE		
		A	LINEAR
		B	MULTI-TURN
		C	AC 220V
		D	AC 380V
		E	AC 440V
		F	ON-OFF
		G	MODULATING
		H	OTHERS

BAS Product

ACTUATOR & VALVE

구분					
모델명	DVA-401100	DVA-401105	DVA-401110	DVA-401115	DVA-401120
스프링 로드	20kg	40kg	40kg	80kg	80kg
공칭력	20N	2.20N	2.20N	2.20N	2.40N
작동시간	20sec	80sec	80sec	120sec	120sec
전원	AC20V	AC20V	AC20V	AC20V	AC20V
무전류	0.5A	0.5A	0.5A	0.5A	0.5A
공기 저항압력	600µa	600µa	600µa	1000µa	1000µa
쿠러전류	0.5A	1.0A	2.0A	1.0A	2.0A
모터전류	직회전식/20-0V	직회전식/20-0V	직회전식/20-0V	직회전식/20-0V	직회전식/20-0V
제어출력	공전	공전	공전	18점	18점
유체소용	04-05L	04-05L	04-05L	04-05L	04-05L
작동 온도범위	-13 ~ 50°C	-13 ~ 50°C	-13 ~ 50°C	-13 ~ 50°C	-13 ~ 50°C
무전류용량	0.7kV	0.7kV	0.7kV	0.7kV	0.7kV
전원 소용량	0.15A	0.15A	0.15A	0.15A	0.15A
중량	2kg	2.5kg	2.5kg	2.5kg	2.5kg

구분								
모델명	VS1 1/2	VS1 3/4	VS1 21	VS1 21	VS1 22	VS1 22	VS1 21	VS1 21
용량	1.0m³/d	1.0m³/d	1.0m³/d	1.0m³/d	1.0m³/d	1.0m³/d	1.0m³/d	1.0m³/d
시공도	15 ~ 65A	15 ~ 30A	15 ~ 150A	20 ~ 150A	15 ~ 150A	15 ~ 150A	100 ~ 300A	100 ~ 300A
배양기 수(배)	4 ~ 16	4 ~ 16	3 ~ 300	3 ~ 300	3 ~ 300	3 ~ 300	324 ~ 2160	324 ~ 2160
시공방법	상/중/하	상/중/하	상/중/하	상/중/하	상/중/하	상/중/하	상/중/하	상/중/하
공식	공용	공용	공용	공용	공용	공용	공용	공용
소재	스테인리스	스테인리스	스테인리스	스테인리스	스테인리스	스테인리스	스테인리스	스테인리스
플러그 소재	스테인리스	스테인리스	황동	황동	스테인리스	스테인리스	황동	황동
디스킹 형	공용	공용	공용	공용	스테인리스	스테인리스	황동	황동
색	황동	황동	황동	황동	황동	황동	황동	황동
작동 압력	10kg/cm²	10kg/cm²	10kg/cm²	10kg/cm²	20kg/cm²	20kg/cm²	10kg/cm²	10kg/cm²
크기(호스)	20mm	20mm	20 ~ 40mm	20 ~ 40mm	20 ~ 40mm	20 ~ 40mm	40 ~ 150mm	40 ~ 150mm
부품 적산	유체용	유체용	유체용	유체용	유체용	유체용	유체용	유체용
작동용량	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
모델명	DVA-401100 DVA-401105	DVA-401100 DVA-401105	DVA-401100 DVA-401105	DVA-401100 DVA-401105	DVA-401100 DVA-401105	DVA-401100 DVA-401105	DVA-401100 DVA-401105	DVA-401100 DVA-401105

BAS Product

온도 검출기

제 형				
모델명	DT5-F100(1000) DT5-F3K(10K)	DT5-G100(1000) DT5-G3K(10K)	DT5-F100(1000) DT5-R3K(10K)	DT5-D100(1000) DT5-D3K(10K)
종도	배관용	저기용	실내용	이더넷용
감출소자	100, 1000Ω Thermistor 3,10KΩ	100, 1000Ω Thermistor 3,10KΩ	100, 1000Ω Thermistor 3,10KΩ	100, 1000Ω Thermistor 3,10KΩ
측정범위	-50 ~ 200°C	-30 ~ 90°C	-15 ~ 50°C	-30 ~ 130°C
허용 분-습도	-30 ~ 150°C 5 ~ 95RH	-35 ~ 80°C 5 ~ 95RH	-15 ~ 75°C 5 ~ 95RH	-15 ~ 80°C 5 ~ 95RH
중량	0.43kg	0.09kg	0.09kg	0.17kg

온도 검출기 (2WIRE TYPE)

제 형				
모델명	DT5-F42D DT5-F15D	DT5-G42D DT5-R15D	DT5-F42D DT5-R15D	DT5-D42D DT5-D15D
종도	배관용	저기용	실내용	이더넷용
전원	D.C. 24V	D.C. 24V	D.C. 24V	D.C. 24V
출력신호	· C, 4-20mA 1-5V D.C.	D.C. 4-20mA 1-5V D.C.	D.C. 4-20mA 1-5V D.C.	D.C. 4-20mA 1-5V D.C.
측정범위	-50 ~ 150°C	-30 ~ 90°C	0 ~ 90°C	-20 ~ 70°C
허용 분-습도	-35 ~ 80°C 5 ~ 95RH	-35 ~ 80°C 5 ~ 95RH	-35 ~ 80°C 5 ~ 95RH	-15 ~ 80°C 5 ~ 95RH
중량	0.43kg	0.09kg	0.09kg	0.17kg

BAS Product

온도 조절기

외 형			
모델명	DTC-F19(L)	DTC-F10	DTC-D19K(L)
용도	배관용	상대용	역류용
감출소자	P1 100Ω	P1 100Ω	P1 100Ω
조절범위	20 ~ 170°C 0 ~ 50°C	0 ~ 40°C	20 ~ 170°C 0 ~ 50°C
전력	AC 2W	AC 2W	AC 2W
감출신호	0 ~ 10V DC	0 ~ 10V DC	0 ~ 10V DC
소비전력	0.5 VA	0.5 VA	0.5 VA
사용 온-습도	-25 ~ 100°C 5 ~ 95%RH	-15 ~ 75°C 5 ~ 95%RH	-15 ~ 100°C 5 ~ 95%RH
중량	0.5kg	0.08kg	0.5kg

온도 조절기

외 형			
모델명	DTC-F10	DTC-D	
용도	냉각 조절기	방열 온도 조절기	
감출소자		P1 100Ω	
조절범위	0 ~ 100%	-100.0 ~ 200.0°C	
전력	AC 2W	AC 200W	
감출신호	0 ~ 10V DC	4 ~ 20mA DC	
소비전력	3.5 VA	8 VA	
사용 온-습도	-10 ~ 75°C 5 ~ 95%RH	-10 ~ 75°C 5 ~ 95%RH	
중량	0.2kg	0.5kg	



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