

CT-100

■ Features

1. Versatile application with equal percentage characteristics and 50:1 rangeability.
2. Stainless steel trim provides excellent sealing (ANSI Class IV seat leakage).
3. Easy to service.



■ Specifications

Model		CT-100	
Nominal size		15-32A	40A-50A
Application	Controlled fluid	Steam, air, cold and hot water, oil, other non-dangerous fluids	
	Driving fluid	Compressed air	
Connection		EN PN16/25 flanged	
Maximum working differential pressure	Standard	2.5MPa*1	1.0MPa
	High pressure type		2.5MPa*1
Working temperature		-5 to 250°C (no freezing) *1	
Valve characteristic		Equal percentage	
Rangeability		50:1	
Seal (valve and seat)		Metal to metal	
Seat leakage		Cv x 0.01% or less (ANSI Class IV)	
Ambient temperature		-20 to 60°C	
Actuator	Type	Pneumatic single-acting diaphragm actuator	
	Action	Reverse (normally close) or Direct (normally open)	
	Air pressure	0.1-0.3MPa	
Material	Body	Ductile cast iron	
	Valve	Stainless steel	
	Valve seat	Stainless steel	
	Gasket	Graphite + Stainless steel	
	Gland packing	Graphite	
Accessories (option)		DC 4-20mA E/P positioner + Air regulator	
		DC 4-20mA E/P smart positioner + Air regulator	

*1 The relation between maximum pressure and maximum temperature is according to the table below.

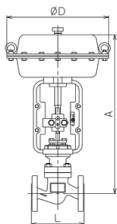
Flange	Temperature (degC)			
	-5 to 120	150	200	250
PN				
16	1.60MPa	1.55MPa	1.47MPa	1.39MPa
25	2.50MPa	2.43MPa	2.30MPa	2.18MPa

■ Cv Value

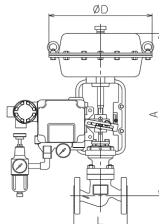
Pressure rating	Max. differential pressure	Nominal Size					
		15A	20A	25A	32A	40A	50A
PN16	1.0MPa	4.6 (CV005)	8.6 (CV008)	13.3 (CV013)	18.5 (CV018)	28.9 (CV028)	41.6 (CV042)
	1.6MPa					24.8 (CV025)	36.2 (CV036)
PN25	1.0MPa					28.9 (CV028)	41.6 (CV042)
	1.6MPa					24.8 (CV025)	36.2 (CV036)
	2.5MPa						

■ Dimensions (mm) and Weights (kg)

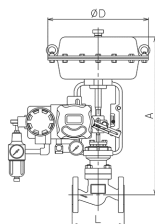
● No accessories



● With E/P positioner and air regulator



● With Smart positioner and air regulator



Nominal Size	L	H	A	Stroke	Weight		
					No accessories	With E/P positioner	With smart positioner
15A	130	464	290	25	19	23	24
20A	150	464	290	25	20	24	25
25A	160	464	290	25	21	25	26
32A	180	465	290	25	23	27	28
40A	200	468	290	25	25	29	30
50A	230	576	360	40	28	42	43

■ Description of CT-100 model code

CT-100	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	- CV	<input type="checkbox"/>
Pressure rating	PN16										PN16 flanged
	PN25										PN25 flanged
Max. working differential pressure	10										Max. 1.0MPa
	16										Max. 1.6MPa
	25										Max. 2.5MPa (not available for PN16)
Nominal size	DN015										Nominal size
	DN020										
	DN025										
	DN032										
	DN040										
Valve characteristic				E							Equal percentage
Actuator					DA						Direct Acting (Normally open)
					RA						Reverse Acting (Normally closed)
Positioner							N				No positioner
							E				E/P positioner
							S				Smart positioner
EAC certificate								N			Without EAC certificate
								E			With EAC certificate (not available with positioner)
Nominal Cv									CV		Nominal Cv