

# Selection exercise



Item		1	3		
Quantity		1	1		
Tag No.		PICV-001	FICV-002		
Nomina size & Connection		1", ANSI 300RF	1-1/2", JIS10K RF		
Type		,G, Single seated	,G, Single seated		
Material	Body	SCPH2	SCS13		
	Trim	SUS316 Stellite fillet	SUS304		
Characteristics		EQ%	EQ%		
Action		C	C		
Actuator		DP	DP		
Bonnet		PL	PL		
Accessories	Positioner		E/P, 4~20mADC	E/P, 4~20mADC	
	Air filter Regulator		With	With	
	Mannal hndle		-	-	
	Solenoid valve		-	-	
	Limit switch		-	-	
Fluid Condition	Fluid		Steam	Water	
	Flow rate	Max	-	17.5m <sup>3</sup> /h	
		Mor.	326 kg/h	8.5m <sup>3</sup> /h	
	Temperature °C		186	50	
	Specific gravity		-	1.0	
	Pressure kgf/cm <sup>2</sup> G	Inlet pressure		10.3	12.5
		Outlet pressure		8.3	11.2
Differential pressure		2.0	1.3		
Shut-off pressure		12.0	13.0		
Piping size		1-1/2	2		
Cv value	at Max flow	at Normal flow			
	Rated CV				
Note					

### Symbols

- (1)Type----- G:Globe, R:Eccentric Rotary, A: Angle, B: Butterfly, SD:Diaphragm  
(2)Action----- C:Reverse(Air-fail-close), O:Direct (Air-fail-open)  
(3)Actuator--- DP:Diaphragm, PP:Piston, EL:Motorized  
(4)Bonnet----- PL:Plain, CF:Cooling fin, EX:Extension, BE:Bellows  
(5)Positioner--P/P:Pneumatic Positioner, E/P:Electro-pneumatic Positioner

Item		5	7	
Quantity		1	1	
Tag No.		FICV-003	FICV-005	
Nomina size & Connection		2B,JIS40K RF	1B,JIS10K RF	
Type		,G, Single seated	,G, Single seated	
Material	Body	SCS14	SCPH2	
	Trim	SUS316 Stellite fillet	SUS304 Soft seat	
Characteristics		EQ%	EQ%	
Action		O	C	
Actuator		DP	DP	
Bonnet		EX	PL	
Accessories	Positioner	E/P, 4~20mADC	E/P, 4~20mADC	
	Air filter Regulator	With	With	
	Mannal hndle	-	-	
	Solenoid valve	-	With (Explosion proof)	
	Limit switch	-	-	
Fluid Condition	Fluid		LNG (Liquid)	Liquid
	Flow rate	Max	43 m <sup>3</sup> /h	3500 kg/h
		Mor.	-	2700 kg/h
	Temperature °C		-164	40
	Specific gravity		0.485	0.959
	Pressure kgf/cm <sup>2</sup> G	Inlet pressure	41.3	5.5
		Outlet pressure	4	5
Differential pressure		37.3	0.5	
Shut-off pressure		55	6	
Piping size		3	1	
Cv value	at Max flow			
	at Normal flow			
Rated CV				
Note				

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(2)Action----- C:Reverse(Air-fail-close), O:Direct (Air-fail-open)  
(3)Actuator--- DP:Diaphragm, PP:Piston, EL:Motorized  
(4)Bonnet----- PL:Plain, CF:Cooling fin, EX:Extension, BE:Bellows  
(5)Positioner--P/P:Pneumatic Positioner, E/P:Electro-pneumatic Positioner

Item		8	9		
Quantity		1	1		
Tag No.		FICV-006	PICV-003		
Nomina size & Connection		2B,JPI150 RF	3B,JIS20K RF		
Type		,G, Single seated	,R, Single seated		
Material	Body	SCS13	SCS14		
	Trim	SUS316ΩStellite fillet	SUS316 Stellite fillet		
Characteristics		EQ%	Linear		
Action		C	C		
Actuator		DP	DP		
Bonnet		PL	PL		
Accessories	Positioner		P/P,0.2~1.0.kgf/cm <sup>2</sup>	E/P, 4~20mADC	
	Air filter Regulator		With	With	
	Mannal hndle		With (Side handle)	With	
	Solenoid valve		-	With (Explosion proof)	
	Limit switch		-	With (close-ON)	
Fluid Condition	Fluid		gas	Liquid	
	Flow rate	Max	4100 Nm <sup>3</sup> /h	92.8 m <sup>3</sup> /h	
		Mor.	3000 Nm <sup>3</sup> /h	57.4 m <sup>3</sup> /h	
	Temperature °C		89.8	30	
	Specific gravity		MW32.0	0.89	
	Pressure kgf/cm <sup>2</sup> G	Inlet pressure		10.5	17.2
		Outlet pressure		6.2	15.7
Differential pressure		4.3	1.5		
Shut-off pressure		11	19.5		
Piping size		2-1/2	4		
Cv value	at Max flow	at Normal flow			
	Rated CV				
Note					

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(3)Actuator--- DP:Diaphragm, PP:Piston, EL:Motorized  
(4)Bonnet----- PL:Plain, CF:Cooling fin, EX:Extension, BE:Bellows  
(5)Positioner--P/P:Pneumatic Positioner, E/P:Electro-pneumatic Positioner

Item		11		
Quantity		1		
Tag No.		FICV-007		
Nomina size & Connection		1-1/2B,JIS10K RF		
Type		,G, Single seated		
Material	Body	SCS13		
	Trim	SCS304		
Characteristics		EQ%		
Action		C		
Actuator		DP		
Bonnet		PL		
Accessories	Positioner		P/P,0.2~1.0 kgf/cm <sup>2</sup>	
	Air filter Regulator		With	
	Mannal hndle		With	
	Solenoid valve		-	
	Limit switch		With (close-ON, Explosion proof)	
Fluid Condition	Fluid		air	
	Flow rate	Max	894 Nm <sup>3</sup> /h	
		Mor.	630 Nm <sup>3</sup> /h	
	Temperature °C		35	
	Specific gravity		1.0	
	Pressure kgf/cm <sup>2</sup> G	Inlet pressure		4.6
		Outlet pressure		3.1
Differential pressure		1.5		
Shut-off pressure		6		
Piping size		2		
Cv value	at Max flow	at Normal flow		
	Rated CV			
Note				

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