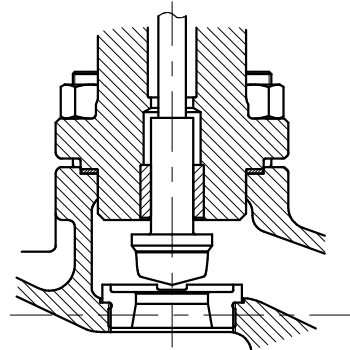


ORIENTATION  
配管取付姿勢 No. 1



TRIM STRUCTURE (EXAMPLE)  
トリム構成図 (参考)

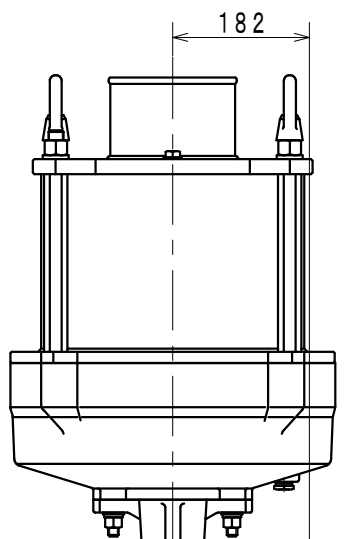
PRODUCTION No. 工事番号	
Tag No.	215FRC320

UNIT : mm

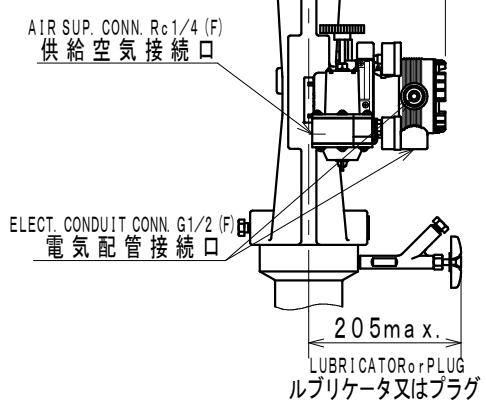
Top-Guide Single-Seated Control Valve トップガイド形単座調節弁	NOMINAL SIZE (INCH) 口径 (B)	RATING 圧力定格 (フランジ規格年度)	END CONNECTION 接続形式	BONNET TYPE 上蓋形式	ACTUATOR 操作器	VALVE ACTION 弁作動	TRAVEL トラベル	WEIGHT 製品質量 (kg)
MODEL No. <b>AGVM</b>	1- $\frac{1}{2}$	ANSI300 (1988)	RF	PLAIN TYPE 常温形	PSA1	AIR TO OPEN 逆作動	20	31.2

Item No. / Qty	2		1		Ref. No.	
Tag No.	215HCV201				Purchaser	
Service					End user	
<Control valve>					Project	
<Control valve>					<Remarks>	
Model	HTS				SV0703-105 Indicating unit : "kgf/cm2"	
Description	Top-Guided Single Seated Control Valves				SV0601-001 Air piping Connection: 1/4 NPT	
Body/Port size	3 in.		3 in.		SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Conn. Size. / Rated CV			99		SV0210 High shut-off pressure trim for Model HTS	
Rating / Conn. Type	ANSI300		RF		SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Body material	A351CF8M				SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral)	
Trim material	SUS316 STELLITE					
Flow characteristic	LINEAR					
Bonnet	EXT-1 (230 to 450 degC)					
Actuator / Handle	PSA6R		---			
Action	AIR TO OPEN					
Gland packing / Grease	P6610CH+P6528		PS6			
Gasket	V543					
Air supply / Spring range	4.0kgf/cm2		2.0-3.5kgf/cm2			
Seat leakage	CLASS IV					
Color: Body/Diaph./Yoke	Non Painting	M10B5/10	M10B5/10			
Paint	Standard					
<Accessories>						
Positioner	AVP302-CSD3B-1DYL-X					
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5					
Input signal	4-20 mADC					
Regulator	KZ03-2B-XX		1			
Regulator2						
Limit switch						
Action						
Solenoid valve						
Action / Power						
Booster						
Air lock valve						
<Process data>						
Fluid name/Phase	Medium Pressure Superheated			LIQUID		
	MAX	NOR	MIN	Unit		
Flow rate				kg/h		
Inlet pressure	17			kgf/cm2G		
Outlet pressure	0			kgf/cm2G		
Differential press.				kPa		
Shut-off press.	17			kgf/cm2		
Temperature	270			degC		
Density/Gravity(Liq)				kg/m3		
Density/Gravity(G,V)				kg/m3(A)		
Viscosity				mPa-s		
Flash				%		
Calculated CV						
Travel				%		
Inlet velocity				m/s		
Predictive SPL				dBA		
<Piping spec.>						
Strength Calc. Sheet						
Design				kPaG		
Temp.				degC		
Size		3 in.		3 in.		
Sch No.		40		40		
Thickness		5.5		5.5		
<b>Yamatake Corporation</b>						

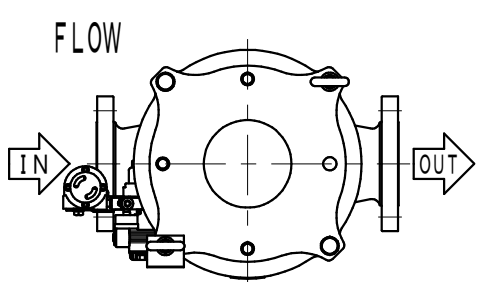
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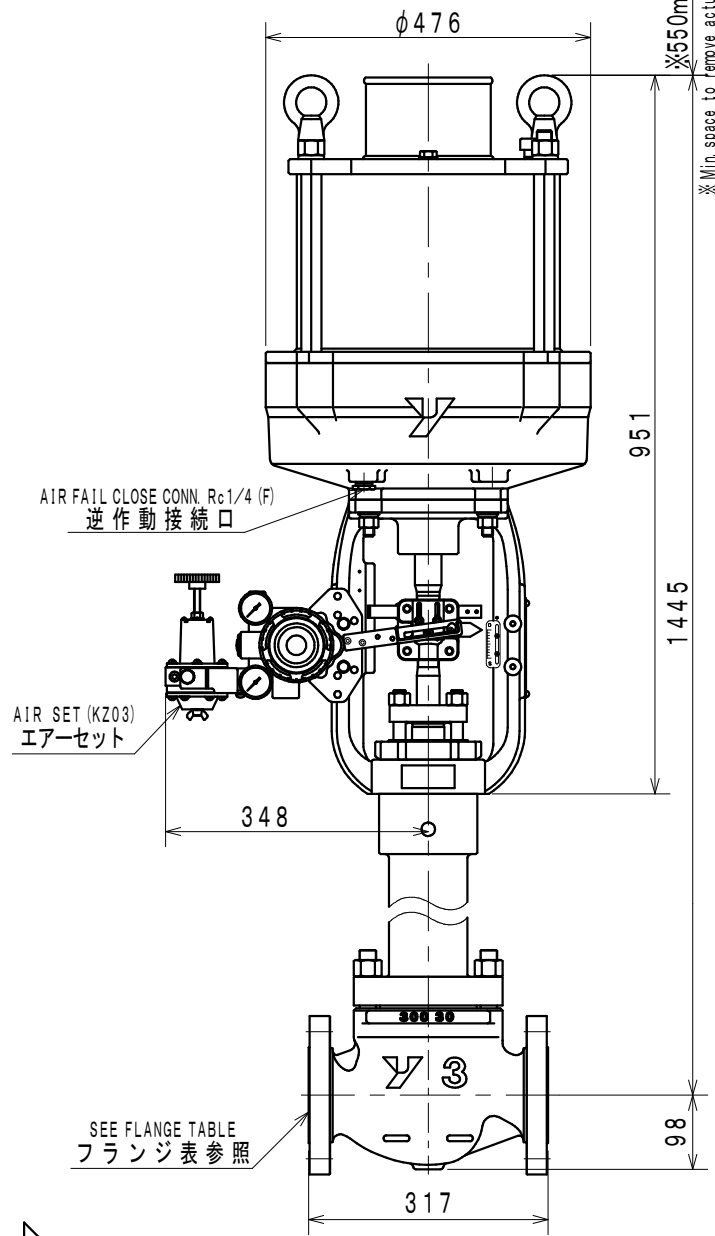
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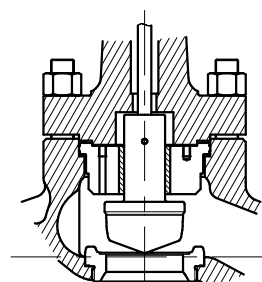
3



4



SEE FLANGE TABLE  
フランジ表参照



TRIM STRUCTURE (EXAMPLE)  
トリム構成図 (参考)

PRODUCTION No. 工事番号	
Tag No.	215HCV201

UNIT : mm

5

Top-Guide Single-Seated Control Valve トップガイド形単座調節弁	NOMINAL SIZE (INCH) 口径 (B)	RATING 圧力定格 (フランジ規格年度)	END CONNECTION 接続形式	BONNET TYPE 上蓋形式	ACTUATOR 操作器	VALVE ACTION 弁作動	TRAVEL トラベル	WEIGHT 製品質量 (kg)
MODEL No. HTS	3	ANSI300 (1981)	RF	HIGH/LOW TEMP. TYPE 高/低温形	PSA6	AIR TO OPEN 逆作動	38	217.2

**Yamatake Corporation**

DRAWING No.  
**109G-11637**

Item No. / Qty	3		1		Ref. No.	
Tag No.	215HCV202				Purchaser	
Service					End user	
<Control valve>					Project	
<Control valve>					<Remarks>	
Model	HTS				SV0703-105 Indicating unit : "kgf/cm2"	
Description	Top-Guided Single Seated Control Valves				SV0601-001 Air piping Connection: 1/4 NPT	
Body/Port size	3 in.		3 in.		SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Conn. Size. / Rated CV			99		SV0210 High shut-off pressure trim for Model HTS	
Rating / Conn. Type	ANSI300		RF		SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Body material	A216WCB				SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral)	
Trim material	SUS316 STELLITE					
Flow characteristic	LINEAR					
Bonnet	PLAIN (-17 to 230 degC)					
Actuator / Handle	HA4R		---			
Action	AIR TO OPEN					
Gland packing / Grease	P4519					
Gasket	V543					
Air supply / Spring range	2.8kgf/cm2		0.8-2.4kgf/cm2			
Seat leakage	CLASS IV					
Color: Body/Diaph./Yoke	M10B5/10	M10B5/10	M10B5/10			
Paint	Standard					
<Accessories>						
Positioner	AVP300-CSD2B-1DYN-X					
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5					
Input signal	4-20 mADC					
Regulator	KZ03-2B-XX		1			
Regulator2						
Limit switch						
Action						
Solenoid valve						
Action / Power						
Booster						
Air lock valve						
<Process data>						
Fluid name/Phase	LIQUID			LIQUID		
	MAX	NOR	MIN	Unit		
Flow rate				m3/h		
Inlet pressure	12			kgf/cm2G		
Outlet pressure	0.2			kgf/cm2G		
Differential press.				kgf/cm2		
Shut-off press.	12			kgf/cm2		
Temperature	60			degC		
Density/Gravity(Liq)	0.26			water=1		
Density/Gravity(G,V)				MW		
Viscosity				mPa-s		
Flash				%		
Calculated CV				%		
Travel				%		
Inlet velocity				m/s		
Predictive SPL				dBA		
<Piping spec.>						
Strength Calc. Sheet						
Design					kPaG	
Temp.					degC	
Size		3 in.		3 in.		
Sch No.		40		40		
Thickness		5.5		5.5		
<b>Yamatake Corporation</b>						

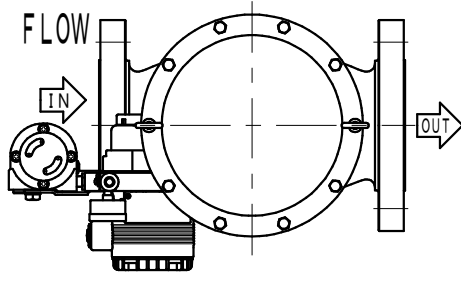
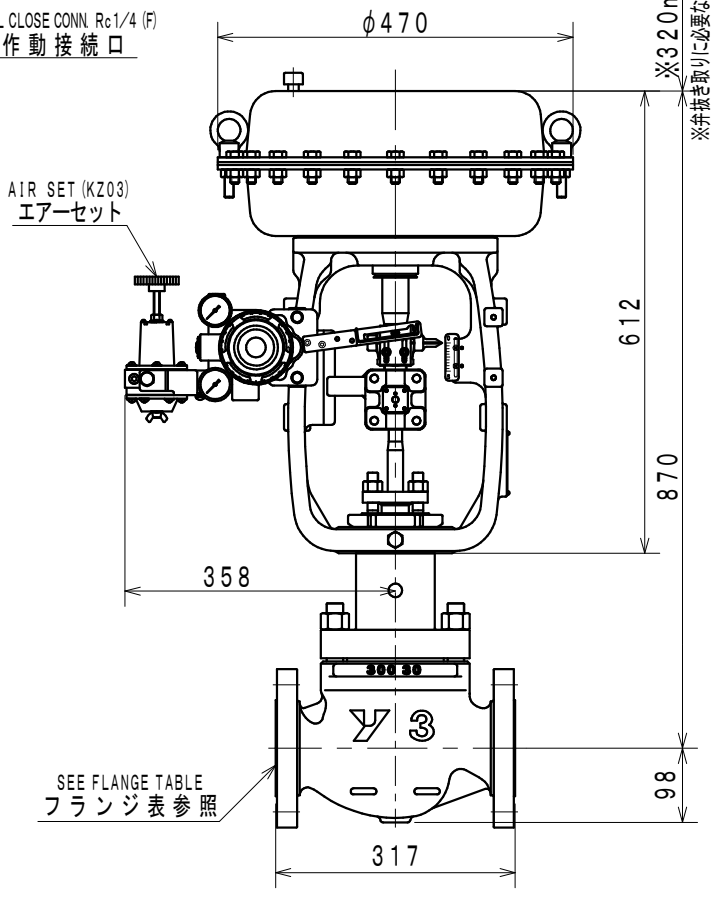
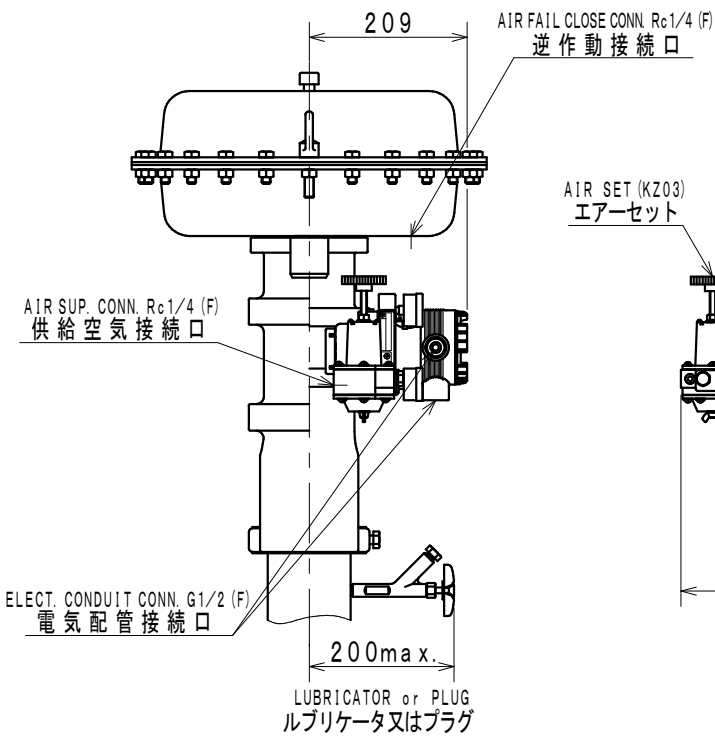
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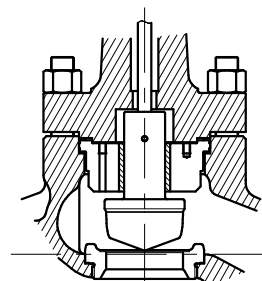
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ORIENTATION  
配管取付姿勢 No. 1



TRIM STRUCTURE (EXAMPLE)  
トリム構成図 (参考)

PRODUCTION No. 工事番号	
Tag No.	215HCV202

UNIT: mm

Top-Guide Single-Seated Control Valve トップガイド形単座調節弁	NOMINAL SIZE (INCH) 口径 (B)	RATING 圧力定格 (フランジ規格年度)	END CONNECTION 接続形式	BONNET TYPE 上蓋形式	ACTUATOR 操作器	VALVE ACTION 弁作動	TRAVEL トラベル	WEIGHT 製品質量 (kg)
MODEL No. HTS	3	ANSI300 (1981)	RF	PLAIN TYPE 常温形	HA4	AIR TO OPEN 逆作動	38	109.2

**Yamatake Corporation**

DRAWING No.  
**109G-11350**



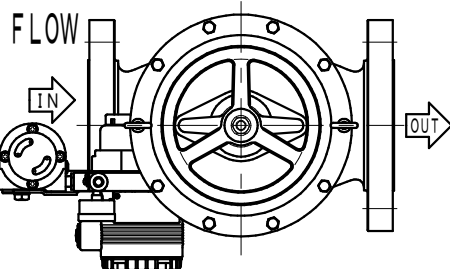
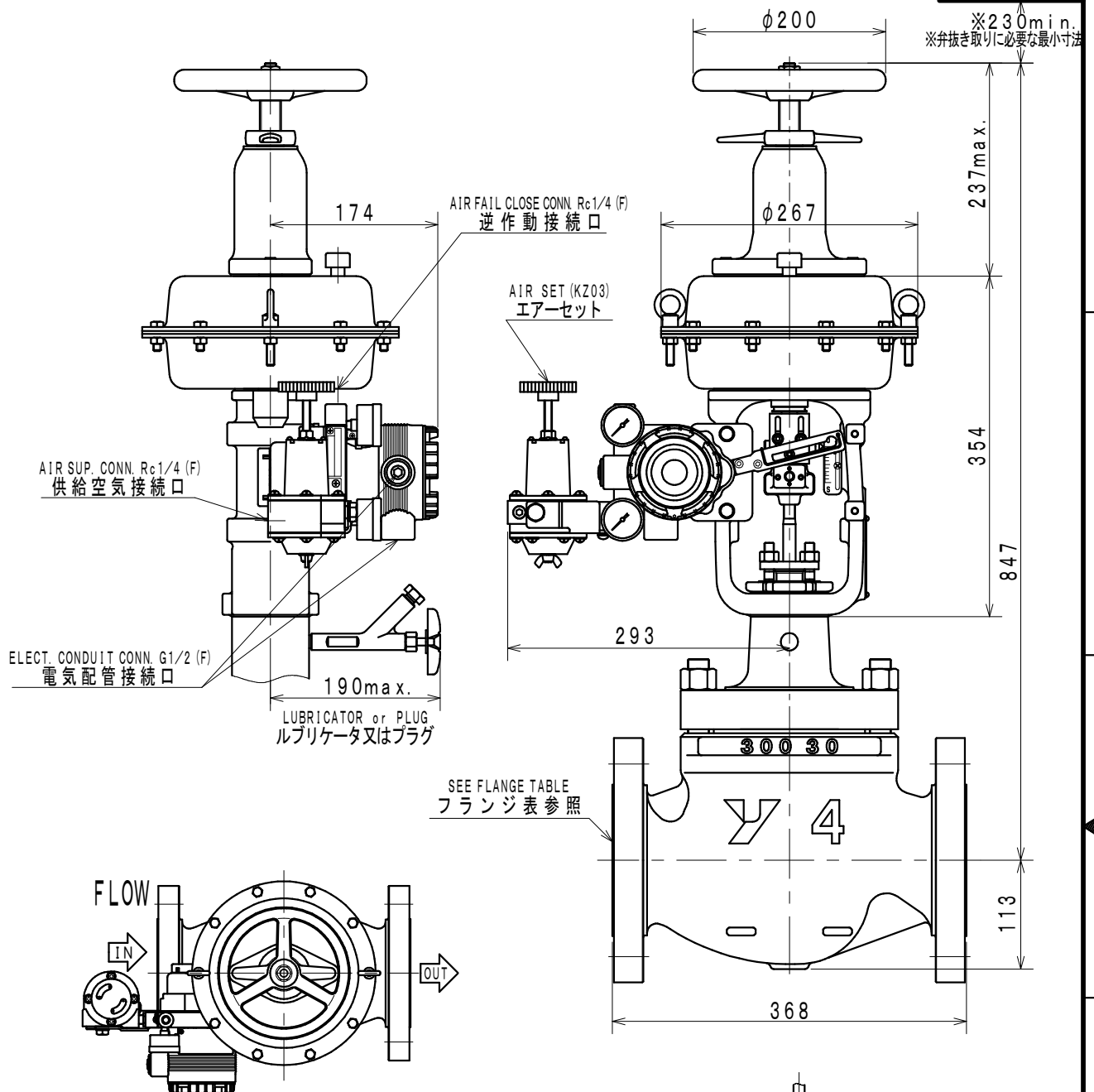
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2

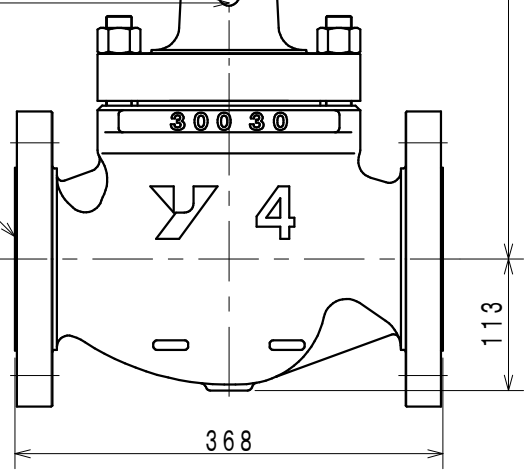
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ORIENTATION  
配管取付姿勢 No. 1



TRIM STRUCTURE (EXAMPLE)  
トリム構成図 (参考)

PRODUCTION No. 工事番号	
Tag No.	215PDRC501A

UNIT : mm

Top-Guide Single-Seated Control Valve トップガイド形単座調節弁	NOMINAL SIZE (INCH) 口径 (B)	RATING 圧力定格 (フランジ規格年度)	END CONNECTION 接続形式	BONNET TYPE 上蓋形式	ACTUATOR 操作器	VALVE ACTION 弁作動	TRAVEL トラベル	WEIGHT 製品質量 (kg)
MODEL No. HTS	4	ANSI300 (1981)	RF	PLAIN TYPE 常温形	HA2	AIR TO OPEN 逆作動	38	89.2

Yamatake Corporation

DRAWING No.

109H-11490

A

B

C

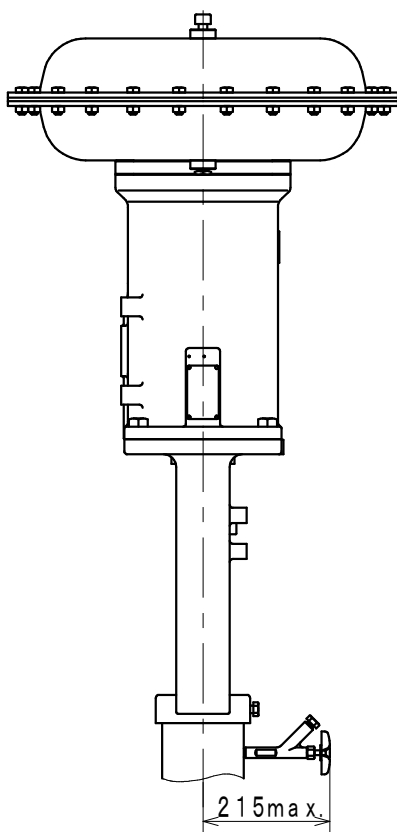
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E

Rev.0

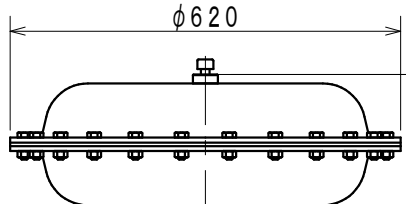
Item No. / Qty	5	1	Ref. No.	
Tag No.	215PDRC501B		Purchaser	
Service			End user	
<Control valve>			<Remarks>	
Model	HTS		SV0703-105 Indicating unit : "kgf/cm2"	
Description	Top-Guided Single Seated Control Valves		SV0601-001 Air piping Connection: 1/4 NPT	
Body/Port size	6 in.	6 in.	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Conn. Size. / Rated CV		460	SV0506 On-Off action	
Rating / Conn. Type	ANSI300	RF	SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral)	
Body material	A216WCB			
Trim material	SUS316			
Flow characteristic	QUICK OPENING (ON-OFF)			
Bonnet	PLAIN (-17 to 230 degC)			
Actuator / Handle	VA5R	---		
Action	AIR TO OPEN			
Gland packing / Grease	P4519			
Gasket	V543			
Air supply / Spring range	2.8kgf/cm2	0.8kgf/cm2		
Seat leakage	0.00001% Rated Cv			
Color: Body/Diaph./Yoke	M10B5/10	M10B5/10	M10B5/10	
Paint	Standard			
<Accessories>				
Positioner				
Structure				
Input signal				
Regulator	KZ03-2B-1N		1	
Regulator2				
Limit switch	VCX7001-C		1	
Action	Full Open and Close on			
Solenoid valve	NFB327A001		1	
Action / Power	En: Control, De: Close	DC24V		
Booster				
Air lock valve				
<Process data>				
Fluid name/Phase	Fuel Gas			
	MAX	NOR	MIN	Unit
Flow rate				m3/h
Inlet pressure	2.8			kgf/cm2G
Outlet pressure				kgf/cm2G
Differential press.	2.8			kPa
Shut-off press.		2.8		kgf/cm2
Temperature	38			degC
Density/Gravity(Liq)				kg/m3
Density/Gravity(G,V)				MW
Viscosity				mPa-s
Flash				%
Calculated CV				
Travel				%
Outlet velocity				
Predictive SPL				dBA
<Piping spec.>				
Strength Calc. Sheet				
Design			kPaG	
Temp.			degC	
Size	6 in.		6 in.	
Sch No.	40		40	
Thickness	7.1		7.1	
<b>Yamatake Corporation</b>				

1



LUBRICATOR or PLUG  
ルブリケータ又はプラグ

2



1105

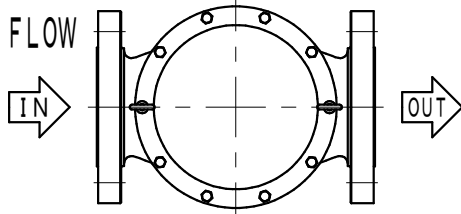
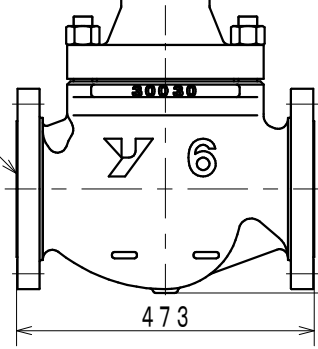
1480

※420min.  
※弁抜き取りに必要な最小寸法

AIR FAIL CLOSE CONN. Rc1/4 (F)  
逆作動接続口

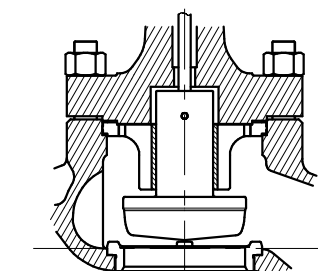
3

SEE FLANGE TABLE  
フランジ表参照



ORIENTATION  
配管取付姿勢 No. 1

4



TRIM STRUCTURE (EXAMPLE)  
トリム構成図 (参考)

PRODUCTION No. 工事番号	
Tag No.	215PDRC501B

UNIT : mm

5

Top-Guide Single-Seated Control Valve トップガイド形単座調節弁	NOMINAL SIZE (INCH) 口径 (B)	RATING 圧力定格 (フランジ規格年度)	END CONNECTION 接続形式	BONNET TYPE 上蓋形式	ACTUATOR 操作器	VALVE ACTION 弁作動	TRAVEL トラベル	WEIGHT 製品質量 (kg)
MODEL No. HTS	6	ANSI300 (1981)	RF	PLAIN TYPE 常温形	VA5	AIR TO OPEN 逆作動	50	345.0

Yamatake Corporation

DRAWING No.  
109K-08442

Item No. / Qty	6		1		Ref. No.	
Tag No.	215TRCAH502				Purchaser	
Service					End user	
<Control valve>					Project	
					<Remarks>	
Model	HTS				SV0703-105 Indicating unit : "kgf/cm2"	
Description	Top-Guided Single Seated Control Valves				SV0601-001 Air piping Connection: 1/4 NPT	
Body/Port size	4 in.		4 in.		SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Conn. Size. / Rated CV			175		SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral)	
Rating / Conn. Type	ANSI300		RF		SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Body material	A216WCB				SV0210 High shut-off pressure trim for Model HTS	
Trim material	SUS316 STELLITE					
Flow characteristic	LINEAR					
Bonnet	PLAIN (-17 to 230 degC)					
Actuator / Handle	HA2R		TOP			
Action	AIR TO OPEN					
Gland packing / Grease	P4519		---			
Gasket	V543					
Air supply / Spring range	2.8kgf/cm2		0.8-2.4kgf/cm2			
Seat leakage	CLASS IV					
Color: Body/Diaph./Yoke	M10B5/10	M10B5/10	M10B5/10			
Paint	Standard					
<Accessories>						
Positioner	AVP300-CSD2B-1DYT-X					
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5					
Input signal	4-20 mADC					
Regulator	KZ03-2B-XX		1			
Regulator2						
Limit switch						
Action						
Solenoid valve						
Action / Power						
Booster						
Air lock valve						
<Process data>						
Fluid name/Phase	Fuel gas			GAS		
	MAX	NOR	MIN	Unit		
Flow rate	7250			m3/h(N)		
Inlet pressure	2.8			kgf/cm2G		
Outlet pressure	1.2			kgf/cm2G		
Differential press.				kgf/cm2		
Shut-off press.	2.8			kgf/cm2		
Temperature	38			degC		
Density/Gravity(Liq)				kg/m3		
Density/Gravity(G,V)	17.758			MW		
Viscosity				mPa-s		
Flash				%		
Calculated CV	135.5					
Travel	56			%		
Outlet velocity	0.3203			Mach		
Predictive SPL	92			dBA		
<Piping spec.>						
Strength Calc. Sheet						
Design					kgf/cm2G	
Temp.					degC	
Size			4 in.		4 in.	
Sch No.			40		40	
Thickness			6		6	
<b>Yamatake Corporation</b>						

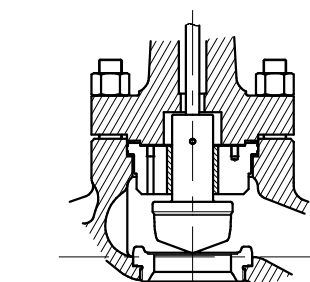
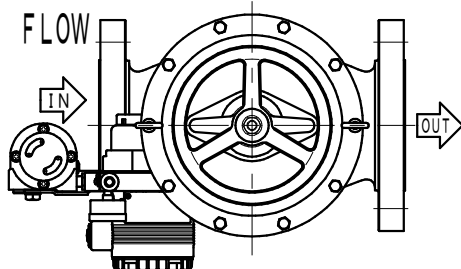
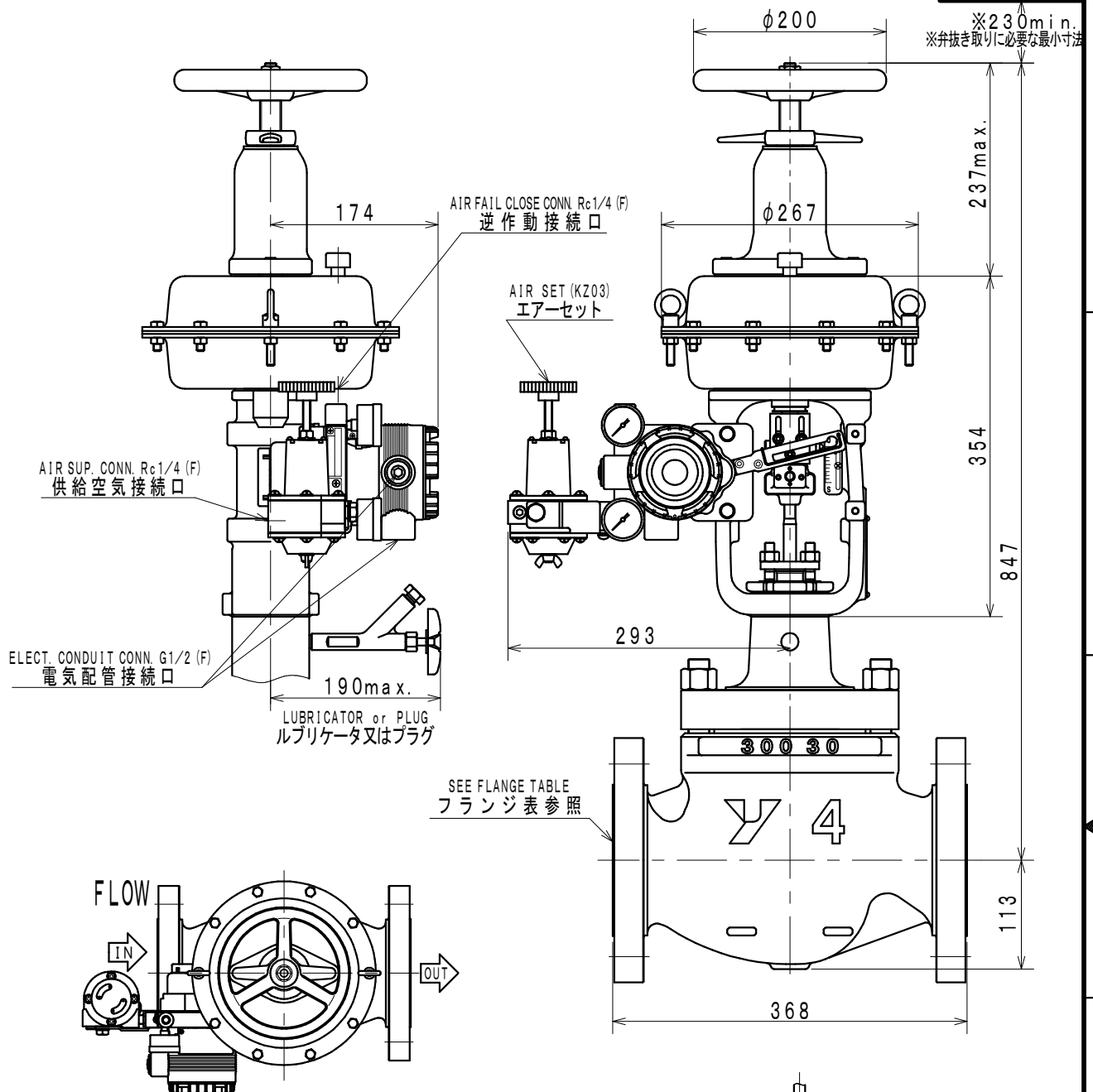
1

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5



PRODUCTION No. 工事番号	
Tag No.	215TRCAH502

UNIT : mm

Top-Guide Single-Seated Control Valve トップガイド形単座調節弁	NOMINAL SIZE (INCH) 口径 (B)	RATING 圧力定格 (フランジ規格年度)	END CONNECTION 接続形式	BONNET TYPE 上蓋形式	ACTUATOR 操作器	VALVE ACTION 弁作動	TRAVEL トラベル	WEIGHT 製品質量 (kg)
MODEL No. HTS	4	ANSI300 (1981)	RF	PLAIN TYPE 常温形	HA2	AIR TO OPEN 逆作動	38	89.2

Yamatake Corporation

DRAWING No.  
109H-11490

A B C D E Rev.0