

<p>No.: 1 QTY: 1</p> <p>Tag no. E-EmV-301</p> <p>Service</p> <p>< Specification ></p> <p>Model HCB</p> <p>Description Pressure Balanced Cage Type Control Valves</p> <p>Valve size 8 inch</p> <p>Port size 8 inch</p> <p>Rated Cv 650</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCS13A</p> <p>Trim material SCS14A+SOFT SEAT</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator HA4</p> <p>Manual operator</p> <p>Valve action DIRECT(Air fail open)</p> <p>Gland packing V-PTFE</p> <p>Gasket V543,V8590</p> <p>Grease</p> <p>Air supply 390kPa</p> <p>Spring range 80-240kPa</p> <p>< Accesories ></p> <p>Positioner / Signal</p> <p>Explosion-proof</p> <p>Signal On-Off action</p> <p>Regurator INA-13-127</p> <p>Regulator 2</p> <p>Limit Switch VCX5001</p> <p>Action Full Close on</p> <p>Solenoid valve JE3 8320G174</p> <p>Action En. : CV Close , De-en.: Open</p> <p>Power supply AC110V 50Hz</p> <p>Others Air valve: 500A-20W</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
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809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 2 QTY: 1</p> <p>Tag no. E-EmV-302</p> <p>Service</p> <p>< Specification ></p> <p>Model AGVM</p> <p>Description Top-Guided Single-Seat Control Valves</p> <p>Valve size 3/4 inch</p> <p>Port size Cv=6.3 inch</p> <p>Rated Cv 6.3</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCS13A</p> <p>Trim material SUS316 STELLITE</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator PSA2</p> <p>Manual operator</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing V-PTFE</p> <p>Gasket V543(PTFE)</p> <p>Grease</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 80-240kPa</p> <p>< Accesories ></p> <p>Positioner / Signal</p> <p>ExproSION-proof</p> <p>Signal On-Off action</p> <p>Regurator KZ03-2A-1L</p> <p>Regulator 2</p> <p>Limit Switch VCX5001</p> <p>Action Full Close on</p> <p>Solenoid valve JE3 8320G174</p> <p>Action En. : CV Close , De-en.: Open</p> <p>Power supply AC110V 50Hz</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																												
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No.: 6 QTY: 1 Tag no. E-TIC-603 Service		Product no.: -																																																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
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No.: 7 QTY: 1 Tag no. E-PIC-209 Service		Product no.: -																																																																																	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=10 inch Rated Cv 10 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
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No.: 8 QTY: 4 Tag no. E-FRC-151A,151B,151C,151D Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name C2H6Vapor [GAS] MAX NOR MIN UNIT Flow rate 1825 m3/h[N] Inlet pressure 6.5 kgf/cm2G Outlet pressure 4.2 kgf/cm2G Diff. pressure 2.3 kgf/cm2 Shut-off press. 10.3 kgf/cm2 Temperature 60 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 30.1 MW Viscosity cP Flash % Velocity 0.16 Mach S.P.L. 70 dBA Calculated Cv 23.05 Travel 79 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.411-8093-0100 =same as 419-8138-1900('73) Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 9 QTY: 4 Tag no. E-FRC-132A,132B,132C,132D Service		Product no.: -																																																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 24 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator PSA1 Manual operator --- Valve action DIRECT(Air fail open) Gland packing NP4519 Gasket V543,V8590 Grease Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accesories > Positioner / Signal AVP302-ESD3B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Vapor</td> <td>[</td> <td>STEAM</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td></td> <td>736</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td></td> <td>5.8</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>4.2</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td></td> <td>1.6</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>10.3</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td></td> <td>242</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td></td> <td>0.15</td> <td></td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td></td> <td>58</td> <td></td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td></td> <td>13.54</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td></td> <td>81</td> <td></td> <td>%</td> </tr> </table>		Fluid name	Vapor	[STEAM]		MAX	NOR	MIN	UNIT	Flow rate		736		kg/h	Inlet pressure		5.8		kgf/cm2G	Outlet pressure		4.2		kgf/cm2G	Diff. pressure		1.6		kgf/cm2	Shut-off press.		10.3		kgf/cm2	Temperature		242		degC	Sp.Gr. (liq.)				water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity		0.15		Mach	S.P.L.		58		dBa	Calculated Cv		13.54			Travel		81		%	<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.411-8093-0200 =same as 419-8138-2000('73) Y-138A	
Fluid name	Vapor	[STEAM]																																																																															
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Flow rate		736		kg/h																																																																															
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 10 QTY: 4 Tag no. E-HC-151A,151B,151C,151D Service < Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 24 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2 < Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		Product no.: - <Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Fuel Gas</td> <td>[GAS]</td> <td></td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN UNIT</td> </tr> <tr> <td>Flow rate</td> <td></td> <td>1150</td> <td>m3/h[N]</td> </tr> <tr> <td>Inlet pressure</td> <td></td> <td>3.9</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>1.4</td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td></td> <td>2.5</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>7</td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td></td> <td>38</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td>7</td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td></td> <td>0.18</td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td></td> <td>64</td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td></td> <td>8.584</td> <td></td> </tr> <tr> <td>Travel</td> <td></td> <td>66</td> <td>%</td> </tr> </table>		Fluid name	Fuel Gas	[GAS]			MAX	NOR	MIN UNIT	Flow rate		1150	m3/h[N]	Inlet pressure		3.9	kgf/cm2G	Outlet pressure		1.4	kgf/cm2G	Diff. pressure		2.5	kgf/cm2	Shut-off press.		7	kgf/cm2	Temperature		38	degC	Sp.Gr. (liq.)			water=1	Sp.Gr.(gas,vapor)		7	MW	Viscosity			cP	Flash			%	Velocity		0.18	Mach	S.P.L.		64	dBa	Calculated Cv		8.584		Travel		66	%	<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.411-8093-0400 =same as 419-8140-2100('73) Y-138A	
Fluid name	Fuel Gas	[GAS]																																																																	
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		<Line spec> <table border="1"> <tr> <td>Design press.</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Design temp.</td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Line size in/out</td> <td>3</td> <td>/</td> <td>3 inch</td> </tr> <tr> <td>Line Sch. / Thick.</td> <td>40</td> <td>/</td> <td>5.5 mm</td> </tr> </table>		Design press.			kgf/cm2G	Design temp.			degC	Line size in/out	3	/	3 inch	Line Sch. / Thick.	40	/	5.5 mm																																																
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No.: 11 QTY: 1 Tag no. E-HC-651 Service		Product no.: -	
< Specification > Model HLS Description Small-Port Single Seated Control Valves Valve size 1 inch Port size Cv=4.0 inch Rated Cv 4.0 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Exprosnion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Boiler Water [WATER] MAX NOR MIN UNIT Flow rate 3000 kg/h Inlet pressure 51 kgf/cm2G Outlet pressure 2.5 kgf/cm2G Diff. pressure 48.5 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 265 degC Sp.Gr. (liq.) 0.776 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash Flashing % Velocity 2.12 m/s S.P.L. 77 dBA Calculated Cv 2.25 Travel 84 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.411-8093-0500 =same as 419-8140-3710('73) Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

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No.: 12 QTY: 1 Tag no. E-HC-652 Service		Product no.: -	
< Specification > Model HLS Description Small-Port Single Seated Control Valves Valve size 1 inch Port size Cv=10 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch VCX5001 Action Full Open on Solenoid valve JE38320G174 Action Power supply AC110V 50Hz Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Boiler Water [STEAM] MAX NOR MIN UNIT Flow rate 3000 kg/h Inlet pressure 51 kgf/cm2G Outlet pressure 0 kgf/cm2G Diff. pressure 51 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 265 degC Sp.Gr. (liq.) 0.776 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash Flashing % Velocity 6.57 Mach S.P.L. 85 dBA Calculated Cv 4.879 Travel 80 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.411-8093-0600 =same as 419-8140-4210('73) Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 13 QTY: 1 Tag no. E-TIC-110 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 4 inch Port size 4 inch Rated Cv 175 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator HA2 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Quench Water [LIQUID] MAX NOR MIN UNIT Flow rate 46.47 t/h Inlet pressure 8.3 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.9 kgf/cm2 Shut-off press. 11.8 kgf/cm2 Temperature 60 degC Sp.Gr. (liq.) 0.98 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 1.62 m/s S.P.L. 61 dBA Calculated Cv 57.76 Travel 64 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-0100 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 14 QTY: 1 Tag no. E-TIC-206 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator HA3 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease Air supply 1.4kgf/cm2 Spring range 0.2-1.0kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal Explosion-proof Signal 0.2-1.0 kgf/cm2 Regurator Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Quench Water [LIQUID] MAX NOR MIN UNIT Flow rate 16.1 t/h Inlet pressure 8.3 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.9 kgf/cm2 Shut-off press. 11.8 kgf/cm2 Temperature 60 degC Sp.Gr. (liq.) 0.98 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 2.25 m/s S.P.L. 56 dBA Calculated Cv 20.01 Travel 74 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-0200 *with lock unit	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 15 QTY: 1 Tag no. E-TRC-210B Service		Product no.: -																																																																																	
< Specification > Model VST-High press Description High Pressure Service Top Guiding Single Seated Control Valves Valve size 2-1/2 inch Port size 2-1/2 inch Rated Cv 56 Connection size inch Body rating ANSI1500 End connection RJ Body material SCPH21 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type FIN Actuator PSA6 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543,V564(MONEL) Grease PS6 Air supply 4.0kgf/cm2 Spring range 2.0-3.5kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accessories > Positioner / Signal AVP302-ESD3B-1CYL-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 12-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others Air lock valve:IL201-02		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>STEAM</td> <td>[</td> <td>STEAM</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>2.81</td> <td></td> <td></td> <td>t/h</td> </tr> <tr> <td>Inlet pressure</td> <td>41.5</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>1</td> <td></td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td>56.1</td> <td></td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>435</td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.03</td> <td></td> <td></td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td>54</td> <td></td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>27.79</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>69</td> <td></td> <td></td> <td>%</td> </tr> </table>		Fluid name	STEAM	[STEAM]		MAX	NOR	MIN	UNIT	Flow rate	2.81			t/h	Inlet pressure	41.5			kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	1			kgf/cm2	Shut-off press.	56.1			kgf/cm2	Temperature	435			degC	Sp.Gr. (liq.)				water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity	0.03			Mach	S.P.L.	54			dBA	Calculated Cv	27.79				Travel	69			%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8138-0300 *with lock unit Y-138A	
Fluid name	STEAM	[STEAM]																																																																															
	MAX	NOR	MIN	UNIT																																																																															
Flow rate	2.81			t/h																																																																															
Inlet pressure	41.5			kgf/cm2G																																																																															
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S.P.L.	54			dBA																																																																															
Calculated Cv	27.79																																																																																		
Travel	69			%																																																																															
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 16 QTY: 1 Tag no. E-TIC-211 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 4 inch Port size 4 inch Rated Cv 175 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator HA2 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name C3Hg [GAS] MAX NOR MIN UNIT Flow rate 1948 m3/h[N] Inlet pressure 5.5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.18 kgf/cm2 Shut-off press. 14.3 kgf/cm2 Temperature 21 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 44.1 MW Viscosity cP Flash % Velocity 0.04 Mach S.P.L. 51 dBA Calculated Cv 99.56 Travel 82 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-0500 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 6 / 6 inch Line Sch. / Thick. 40 / 7.1 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 17 QTY: 1 Tag no. E-TIC-212 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=4.0 inch Rated Cv 4.0 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543(PTFE) Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Quench Water [LIQUID] MAX NOR MIN UNIT Flow rate 2.06 1.03 t/h Inlet pressure 8.7 8.7 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 1.2 1.2 kgf/cm2 Shut-off press. 11.8 kgf/cm2 Temperature 76 degC Sp.Gr. (liq.) 0.974 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.58 m/s S.P.L. 45 dBA Calculated Cv 1.112 Travel 66 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8138-0600 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 18 QTY: 1 Tag no. E-TIC-214 Service		Product no.: -																																																																																	
< Specification > Model HPS Description Top-Guided High Pressure Single Seated Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 25 Connection size inch Body rating ANSI1500 End connection RF Body material SCPH21 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA4 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543,V564(MONEL) Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYN-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>STEAM</td> <td>[</td> <td>STEAM</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td></td> <td>930</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td></td> <td>41.7</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td></td> <td>1.2</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>44.5</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td></td> <td>435</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td>0.974</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td></td> <td>0.03</td> <td></td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td></td> <td>46</td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td></td> <td>8.383</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td></td> <td>73</td> <td></td> <td>%</td> </tr> </table>		Fluid name	STEAM	[STEAM]		MAX	NOR	MIN	UNIT	Flow rate		930		kg/h	Inlet pressure		41.7		kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure		1.2		kgf/cm2	Shut-off press.		44.5		kgf/cm2	Temperature		435		degC	Sp.Gr. (liq.)		0.974		water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity		0.03		Mach	S.P.L.		46		dBA	Calculated Cv		8.383			Travel		73		%	<Seat Leakage> CLASS IV (SV0201-003)	
Fluid name	STEAM	[STEAM]																																																																															
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		<Note> Tokumi - OldProd.No.419-8138-0700 *with lock unit Y-138A																																																																																	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 19 QTY: 1 Tag no. E-TRC-307B Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 3 inch Port size 3 inch Rated Cv 99 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS14A STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator HA2 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name STEAM [STEAM] MAX NOR MIN UNIT Flow rate 1.481 t/h Inlet pressure 1.83 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.83 kgf/cm2 Shut-off press. 4.5 kgf/cm2 Temperature 138 degC Sp.Gr. (liq.) 0.974 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.18 Mach S.P.L. 50 dBA Calculated Cv 54.32 Travel 80 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-0900 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 20 QTY: 1 Tag no. E-TRCA-601 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 2 inch Port size 2 inch Rated Cv 50 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543(PTFE) Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve JE38320G174 Action Power supply AC110V 50Hz Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name FuelGas [GAS] MAX NOR MIN UNIT Flow rate 2520 m3/h[N] Inlet pressure 2.9 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 1.94 kgf/cm2 Shut-off press. 5 kgf/cm2 Temperature 49 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 7.091 MW Viscosity cP Flash % Velocity 0.29 Mach S.P.L. 65 dBA Calculated Cv 24.28 Travel 73 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8138-1400 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 22 QTY: 1 Tag no. E-TIC-806 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 6 inch Port size 6 inch Rated Cv 360 Connection size inch Body rating ANSI300 End connection RF Body material SCS13A Trim material SCS14A Flow characteristic EQ% Bonnet type EXT-1 LOW Actuator HA3 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet SV0018-003 Water-free treatment	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name C2H4 [GAS] MAX NOR MIN UNIT Flow rate 15793 m3/h[N] Inlet pressure 10.15 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.75 kgf/cm2 Shut-off press. 12.5 kgf/cm2 Temperature -27 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 30.1 MW Viscosity cP Flash % Velocity 0.06 Mach S.P.L. 70 dBA Calculated Cv 230.7 Travel 86 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-1800 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 6 / 6 inch Line Sch. / Thick. 40 / 7.1 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 23 QTY: 4</p> <p>Tag no. E-FRC-101A,B,C,D</p> <p>Service</p> <p>< Specification ></p> <p>Model HCB</p> <p>Description Pressure Balanced Cage Type Control Valves</p> <p>Valve size 2 inch</p> <p>Port size 2 inch</p> <p>Rated Cv 44</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SCS24</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator PSA1</p> <p>Manual operator SIDE*</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing V-PTFE</p> <p>Gasket V543,V8590</p> <p>Grease ---</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD2B-1CYS-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
<p><Operating condition></p> <table border="1"> <tr> <td>Fluid name</td> <td>C2H6 Vapor</td> <td>[</td> <td>GAS</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>1826</td> <td></td> <td></td> <td>m3/h[N]</td> </tr> <tr> <td>Inlet pressure</td> <td>6.5</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>2.3</td> <td></td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td>10.3</td> <td></td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>60</td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td>30.1</td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.16</td> <td></td> <td></td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td>62</td> <td></td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>23.06</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>79</td> <td></td> <td></td> <td>%</td> </tr> </table>	Fluid name	C2H6 Vapor	[GAS]		MAX	NOR	MIN	UNIT	Flow rate	1826			m3/h[N]	Inlet pressure	6.5			kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	2.3			kgf/cm2	Shut-off press.	10.3			kgf/cm2	Temperature	60			degC	Sp.Gr. (liq.)				water=1	Sp.Gr.(gas,vapor)	30.1			MW	Viscosity				cP	Flash				%	Velocity	0.16			Mach	S.P.L.	62			dBA	Calculated Cv	23.06				Travel	79			%	<p><Seat Leakage></p> <p>CLASS II (SV0201-007)</p> <p><Note> Tokumi -</p> <p>OldProd.No.419-8138-1900</p> <p>*with lock unit</p> <p>Y-138A</p> <p><Line spec></p> <table border="1"> <tr> <td>Design press.</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Design temp.</td> <td></td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Line size in/out</td> <td>4</td> <td>/</td> <td>4</td> <td>inch</td> </tr> <tr> <td>Line Sch. / Thick.</td> <td>40</td> <td>/</td> <td>6</td> <td>mm</td> </tr> </table>	Design press.				kgf/cm2G	Design temp.				degC	Line size in/out	4	/	4	inch	Line Sch. / Thick.	40	/	6	mm
Fluid name	C2H6 Vapor	[GAS]																																																																																																	
	MAX	NOR	MIN	UNIT																																																																																																	
Flow rate	1826			m3/h[N]																																																																																																	
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Line size in/out	4	/	4	inch																																																																																																	
Line Sch. / Thick.	40	/	6	mm																																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 25 QTY: 4 Tag no. E-FRC-103A,B,C,D Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name C2H6 Vapor [GAS] MAX NOR MIN UNIT Flow rate 1826 m3/h[N] Inlet pressure 6.5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 2.3 kgf/cm2 Shut-off press. 10.3 kgf/cm2 Temperature 60 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 30.1 MW Viscosity cP Flash % Velocity 0.16 Mach S.P.L. 62 dBA Calculated Cv 23.06 Travel 79 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-2100 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 26 QTY: 4</p> <p>Tag no. E-FRC-104A,B,C,D</p> <p>Service</p> <p>< Specification ></p> <p>Model HCB</p> <p>Description Pressure Balanced Cage Type Control Valves</p> <p>Valve size 1-1/2 inch</p> <p>Port size 1-1/2 inch</p> <p>Rated Cv 24</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SCS24</p> <p>Flow characteristic EQ%</p> <p>Bonnet type EXT-1 HIGH</p> <p>Actuator PSA1</p> <p>Manual operator SIDE*</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing NP4519</p> <p>Gasket V543,V8590</p> <p>Grease ---</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD2B-1CYS-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
<p><Operating condition></p> <table border="1"> <tr> <td>Fluid name</td> <td>STEAM</td> <td>[</td> <td>STEAM</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td></td> <td>736</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td></td> <td>5.8</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td></td> <td>1.6</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>11.5</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td></td> <td>242</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td></td> <td>0.15</td> <td></td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td></td> <td>52</td> <td></td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td></td> <td>13.54</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td></td> <td>81</td> <td></td> <td>%</td> </tr> </table>	Fluid name	STEAM	[STEAM]		MAX	NOR	MIN	UNIT	Flow rate		736		kg/h	Inlet pressure		5.8		kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure		1.6		kgf/cm2	Shut-off press.		11.5		kgf/cm2	Temperature		242		degC	Sp.Gr. (liq.)				water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity		0.15		Mach	S.P.L.		52		dBa	Calculated Cv		13.54			Travel		81		%	<p><Seat Leakage></p> <p>CLASS II (SV0201-007)</p> <p><Note> Tokumi -</p> <p>OldProd.No.419-8138-2200</p> <p>*with lock unit</p> <p>Y-138A</p> <p><Line spec></p> <table border="1"> <tr> <td>Design press.</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Design temp.</td> <td></td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Line size in/out</td> <td>3</td> <td>/</td> <td>3</td> <td>inch</td> </tr> <tr> <td>Line Sch. / Thick.</td> <td>40</td> <td>/</td> <td>5.5</td> <td>mm</td> </tr> </table>	Design press.				kgf/cm2G	Design temp.				degC	Line size in/out	3	/	3	inch	Line Sch. / Thick.	40	/	5.5	mm
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<p>No.: 30 QTY: 4</p> <p>Tag no. E-FRC-108A,B,C,D</p> <p>Service</p> <p>< Specification ></p> <p>Model HCB</p> <p>Description Pressure Balanced Cage Type Control Valves</p> <p>Valve size 1-1/2 inch</p> <p>Port size 1-1/2 inch</p> <p>Rated Cv 24</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SCS24</p> <p>Flow characteristic EQ%</p> <p>Bonnet type EXT-1 HIGH</p> <p>Actuator PSA1</p> <p>Manual operator ---</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing NP4519</p> <p>Gasket V543,V8590</p> <p>Grease ---</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD2B-1CYS-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 31 QTY: 4 Tag no. E-FIC-120 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 24 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator PSA1 Manual operator --- Valve action DIRECT(Air fail open) Gland packing NP4519 Gasket V543(PTFE) Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD3B-1CYS-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name STEAM [STEAM] MAX NOR MIN UNIT Flow rate 1.18 t/h Inlet pressure 15 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 7.95 kgf/cm2 Shut-off press. 17 kgf/cm2 Temperature 240 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.15 Mach S.P.L. 58 dBA Calculated Cv 6.568 Travel %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8138-2700 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 33 QTY: 1 Tag no. E-FRCA-202 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 6 inch Port size 5 inch Rated Cv 275 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS14A+SOFT SEAT Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator SIDE Valve action DIRECT(Air fail open) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD3B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name charge gas [GAS] MAX NOR MIN UNIT Flow rate 47068 m3/h[N] Inlet pressure 17.4 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 16.4 kgf/cm2 Shut-off press. 19.6 kgf/cm2 Temperature 40 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 20.3 MW Viscosity cP Flash % Velocity 0.98 Mach S.P.L. 102 dBA Calculated Cv 160.6 Travel 83 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-2900 *with lock unit stroke speed:close->open 10sec. Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 34 QTY: 1 Tag no. E-FIC-203 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS14A Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action DIRECT(Air fail open) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD3B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Waste Caus [LIQUID] MAX NOR MIN UNIT Flow rate 25 t/h Inlet pressure 21 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 2.8 kgf/cm2 Shut-off press. 25.2 kgf/cm2 Temperature 54 degC Sp.Gr. (liq.) 1.2 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 2.85 m/s S.P.L. 60 dBA Calculated Cv 15.92 Travel 67 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-3000 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 35 QTY: 1 Tag no. E-FIC-204 Service		Product no.: -																																																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS14A Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action DIRECT(Air fail open) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
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Travel	62			%																																																																															
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 36 QTY: 1 Tag no. E-FRCA-215 Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 4 inch Port size 4 inch Rated Cv 175 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA6 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease --- Air supply 4.0kgf/cm2 Spring range 2.0-3.5kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD3B-1CYL-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others KOSO Breeder HB-220x2		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name charge gas [GAS] MAX NOR MIN UNIT Flow rate 46199 m3/h[N] Inlet pressure 36 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 20.7 kgf/cm2 Shut-off press. 22.5 kgf/cm2 Temperature 40 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 20.52 MW Viscosity cP Flash % Velocity 0.27 Mach S.P.L. 96 dBA Calculated Cv 78.9 Travel 73 %		<Seat Leakage> 0.001% Rated Cv (SV0201-001) <Note> Tokumi - OldProd.No.419-8138-3200 *with lock unit stroke speed:close->open 10sec. Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 8 / 8 inch Line Sch. / Thick. 40 / 8.2 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 37 QTY: 1 Tag no. E-FIC-609 Service		Product no.: -																																																																	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 2 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosnion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																	
<Operating condition> <table border="1"> <thead> <tr> <th>Fluid name</th> <th>STEAM</th> <th></th> <th>[STEAM]</th> </tr> <tr> <th></th> <th>MAX</th> <th>NOR</th> <th>MIN UNIT</th> </tr> </thead> <tbody> <tr> <td>Flow rate</td> <td>3</td> <td>0</td> <td>t/h</td> </tr> <tr> <td>Inlet pressure</td> <td>49.5</td> <td>49.5</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>47.5</td> <td>47.5</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>56.1</td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>265</td> <td>265</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.56</td> <td></td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td>82</td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>5.034</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>76</td> <td></td> <td>%</td> </tr> </tbody> </table>		Fluid name	STEAM		[STEAM]		MAX	NOR	MIN UNIT	Flow rate	3	0	t/h	Inlet pressure	49.5	49.5	kgf/cm2G	Outlet pressure			kgf/cm2G	Diff. pressure	47.5	47.5	kgf/cm2	Shut-off press.		56.1	kgf/cm2	Temperature	265	265	degC	Sp.Gr. (liq.)			water=1	Sp.Gr.(gas,vapor)			MW	Viscosity			cP	Flash			%	Velocity	0.56		Mach	S.P.L.	82		dBA	Calculated Cv	5.034			Travel	76		%	<Seat Leakage> 0.001% Rated Cv (SV0201-001)	
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 38 QTY: 1 Tag no. E-FIC-704 Service		Product no.: -																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
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<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Fuel Gas</td> <td>[GAS]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR MIN UNIT</td> </tr> <tr> <td>Flow rate</td> <td>360</td> <td>271 m3/h[N]</td> </tr> <tr> <td>Inlet pressure</td> <td>1.1</td> <td>1.1 kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>0.1</td> <td>0.1 kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>3.5 kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>40</td> <td>40 degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td>10</td> <td>10 MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.04</td> <td>0.03 Mach</td> </tr> <tr> <td>S.P.L.</td> <td>40</td> <td>40 dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>21.33</td> <td>16.06</td> </tr> <tr> <td>Travel</td> <td>76</td> <td>67 %</td> </tr> </table>		Fluid name	Fuel Gas	[GAS]		MAX	NOR MIN UNIT	Flow rate	360	271 m3/h[N]	Inlet pressure	1.1	1.1 kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	0.1	0.1 kgf/cm2	Shut-off press.		3.5 kgf/cm2	Temperature	40	40 degC	Sp.Gr. (liq.)		water=1	Sp.Gr.(gas,vapor)	10	10 MW	Viscosity		cP	Flash		%	Velocity	0.04	0.03 Mach	S.P.L.	40	40 dBA	Calculated Cv	21.33	16.06	Travel	76	67 %	<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-5500 *with lock unit Y-138A	
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809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 39 QTY: 1</p> <p>Tag no. E-FIC-705</p> <p>Service</p> <p>< Specification ></p> <p>Model HLS</p> <p>Description Small-Port Single Seated Control Valves</p> <p>Valve size 1 inch</p> <p>Port size Cv=10 inch</p> <p>Rated Cv 10</p> <p>Connection size inch</p> <p>Body rating ANSI600</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SUS316 STELLITE</p> <p>Flow characteristic EQ%</p> <p>Bonnet type EXT-1 HIGH</p> <p>Actuator PSA1</p> <p>Manual operator ---</p> <p>Valve action DIRECT(Air fail open)</p> <p>Gland packing NP4519</p> <p>Gasket V543</p> <p>Grease</p> <p>Air supply 4.0kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD3B-1CYS-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																												
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809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 40 QTY: 1</p> <p>Tag no. E-PIC-110</p> <p>Service</p> <p>< Specification ></p> <p>Model AGVM</p> <p>Description Top-Guided Single-Seat Control Valves</p> <p>Valve size 1-1/2 inch</p> <p>Port size 1-1/2 inch</p> <p>Rated Cv 30</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SUS316 STELLITE</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator PSA1</p> <p>Manual operator ---</p> <p>Valve action DIRECT(Air fail open)</p> <p>Gland packing NP4519</p> <p>Gasket V543(PTFE)</p> <p>Grease ---</p> <p>Air supply 4.0kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD3B-1CYS-X</p> <p>ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
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Shut-off press.		6.5		kgf/cm2																																																																																																	
Temperature	40	40		degC																																																																																																	
Sp.Gr. (liq.)				water=1																																																																																																	
Sp.Gr.(gas,vapor)	28	28		MW																																																																																																	
Viscosity				cP																																																																																																	
Flash				%																																																																																																	
Velocity				Mach																																																																																																	
S.P.L.				dBA																																																																																																	
Calculated Cv																																																																																																					
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Design press.				kgf/cm2G																																																																																																	
Design temp.				degC																																																																																																	
Line size in/out	2	/	2	inch																																																																																																	
Line Sch. / Thick.	40	/	3.9	mm																																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 42 QTY: 1 Tag no. E-PRCA-114 Service < Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 4 inch Port size 4 inch Rated Cv 175 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA2 Manual operator SIDE Valve action DIRECT(Air fail open) Gland packing NP4519 Gasket V543,V8590 Grease Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2 < Accesories > Positioner / Signal AVP302-ESD3B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		Product no.: - <Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
<Operating condition> Fluid name MP STEAM [STEAM] MAX NOR MIN UNIT Flow rate 10600 kg/h Inlet pressure 15 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 7.9 kgf/cm2 Shut-off press. 15 kgf/cm2 Temperature 240 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.19 Mach S.P.L. 85 dBA Calculated Cv 59.12 Travel 64 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-6400 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 6 / 6 inch Line Sch. / Thick. 40 / 7.1 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 43 QTY: 1 Tag no. E-PIC-115 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 6 inch Port size 5 inch Rated Cv 275 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator SIDE Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name MP STEAM [STEAM] MAX NOR MIN UNIT Flow rate 12530 kg/h Inlet pressure 15 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 2 kgf/cm2 Shut-off press. 17 kgf/cm2 Temperature 240 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.05 Mach S.P.L. 73 dBA Calculated Cv 124.5 Travel 74 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8138-6500 *with lock unit Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 8 / 8 inch Line Sch. / Thick. 40 / 8.2 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 44 QTY: 2</p> <p>Tag no. E-PIC-806A,B</p> <p>Service</p> <p>< Specification ></p> <p>Model HLS</p> <p>Description Small-Port Single Seated Control Valves</p> <p>Valve size 1 inch</p> <p>Port size Cv=4.0 inch</p> <p>Rated Cv 4.0</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCS13A</p> <p>Trim material SUS316 STELLITE</p> <p>Flow characteristic EQ%</p> <p>Bonnet type EXTENSION-2</p> <p>Actuator PSA1</p> <p>Manual operator ---</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing V-PTFE</p> <p>Gasket V543(PTFE), V563(PTFE)</p> <p>Grease</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD2B-1CYS-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p>SV0018-002 Oil-free treatment Gr.B (For stainless steel body)</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
<p><Operating condition></p> <table border="1"> <tr> <td>Fluid name</td> <td>C2H4</td> <td>[</td> <td>LIQUID</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>4760</td> <td>0</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>24.02</td> <td>24.02</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>23.02</td> <td>23.02</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>28.8</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>-104</td> <td>-104</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.566</td> <td>0.566</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>4.61</td> <td></td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>78</td> <td></td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>1.539</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>74</td> <td></td> <td></td> <td>%</td> </tr> </table>	Fluid name	C2H4	[LIQUID]		MAX	NOR	MIN	UNIT	Flow rate	4760	0		kg/h	Inlet pressure	24.02	24.02		kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	23.02	23.02		kgf/cm2	Shut-off press.		28.8		kgf/cm2	Temperature	-104	-104		degC	Sp.Gr. (liq.)	0.566	0.566		water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity	4.61			m/s	S.P.L.	78			dBA	Calculated Cv	1.539				Travel	74			%	<p><Seat Leakage></p> <p>0.001% Rated Cv (SV0201-001)</p> <p><Note> Tokumi -</p> <p>OldProd.No.419-8139-3100</p> <p>Y-138A</p> <p><Line spec></p> <table border="1"> <tr> <td>Design press.</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Design temp.</td> <td></td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Line size in/out</td> <td>1-1/2</td> <td>/</td> <td>1-1/2</td> <td>inch</td> </tr> <tr> <td>Line Sch. / Thick.</td> <td>40</td> <td>/</td> <td>3.7</td> <td>mm</td> </tr> </table>	Design press.				kgf/cm2G	Design temp.				degC	Line size in/out	1-1/2	/	1-1/2	inch	Line Sch. / Thick.	40	/	3.7	mm
Fluid name	C2H4	[LIQUID]																																																																																																	
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Flow rate	4760	0		kg/h																																																																																																	
Inlet pressure	24.02	24.02		kgf/cm2G																																																																																																	
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Line Sch. / Thick.	40	/	3.7	mm																																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 47 QTY: 1 Tag no. E-PIC-901 Service		Product no.: -	
< Specification > Model VST-High press Description High Pressure Service Top Guiding Single Seated Control Valves Valve size 4 inch Port size 4 inch Rated Cv 144 Connection size inch Body rating ANSI900 End connection RJ Body material SCPH21 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator DAP1000 Manual operator SIDE Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543,V564(MONEL) Grease PS6 Air supply 5.0kgf/cm2 Spring range		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet SV0605 Air-fail-lock functioned	
< Accesories > Positioner / Signal AVP302-ESD5B-1CY4-W ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-3A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others Booster:IL100-02x2		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name HP STEAM [STEAM] MAX NOR MIN UNIT Flow rate 31000 kg/h Inlet pressure 41.5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 25.5 kgf/cm2 Shut-off press. 54.5 kgf/cm2 Temperature 425 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.41 Mach S.P.L. 98 dBA Calculated Cv 75.48 Travel 71 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-4400 *with lock unit stroke speed close->open 10sec. Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 8 / 8 inch Line Sch. / Thick. 40 / 8.2 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 48 QTY: 1 Tag no. E-PIC-902 Service		Product no.: -																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2-1/2 inch Port size 2-1/2 inch Rated Cv 68 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA2 Manual operator SIDE Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543,V8590 Grease PS6 Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>MP STEAM</td> <td>[STEAM]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR MIN UNIT</td> </tr> <tr> <td>Flow rate</td> <td>7700</td> <td>5400 kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>15</td> <td>15 kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>12</td> <td>12 kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>17 kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>280</td> <td>280 degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.76</td> <td>0.53 Mach</td> </tr> <tr> <td>S.P.L.</td> <td>89</td> <td>86 dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>44.84</td> <td>31.44</td> </tr> <tr> <td>Travel</td> <td>87</td> <td>75 %</td> </tr> </table>		Fluid name	MP STEAM	[STEAM]		MAX	NOR MIN UNIT	Flow rate	7700	5400 kg/h	Inlet pressure	15	15 kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	12	12 kgf/cm2	Shut-off press.		17 kgf/cm2	Temperature	280	280 degC	Sp.Gr. (liq.)		water=1	Sp.Gr.(gas,vapor)		MW	Viscosity		cP	Flash		%	Velocity	0.76	0.53 Mach	S.P.L.	89	86 dBA	Calculated Cv	44.84	31.44	Travel	87	75 %	<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8139-4500 *with lock unit Y-138A	
Fluid name	MP STEAM	[STEAM]																																																	
	MAX	NOR MIN UNIT																																																	
Flow rate	7700	5400 kg/h																																																	
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 49 QTY: 1 Tag no. E-LICA-105 Service		Product no.: -																																																																																	
< Specification > Model HLS Description Small-Port Single Seated Control Valves Valve size 1 inch Port size Cv=10 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td colspan="3">WATER</td> <td>[WATER]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>15320</td> <td>11744</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>13.58</td> <td>13.58</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>11.48</td> <td>11.48</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>16.3</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>80</td> <td>80</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.9723</td> <td>0.9723</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>8.64</td> <td>6.62</td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>80</td> <td>79</td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>5.353</td> <td>4.103</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>83</td> <td>76</td> <td></td> <td>%</td> </tr> </table>		Fluid name	WATER			[WATER]		MAX	NOR	MIN	UNIT	Flow rate	15320	11744		kg/h	Inlet pressure	13.58	13.58		kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	11.48	11.48		kgf/cm2	Shut-off press.		16.3		kgf/cm2	Temperature	80	80		degC	Sp.Gr. (liq.)	0.9723	0.9723		water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity	8.64	6.62		m/s	S.P.L.	80	79		dBA	Calculated Cv	5.353	4.103			Travel	83	76		%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-4700 Y-138A	
Fluid name	WATER			[WATER]																																																																															
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 50 QTY: 1 Tag no. E-LICA-106 Service		Product no.: -																																																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 24 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS14A STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Flash WT</td> <td>[</td> <td>WATER</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>12530</td> <td></td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>12.75</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>10.1</td> <td></td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td>17</td> <td></td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>193</td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.8727</td> <td></td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td>Flashing</td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>3.5</td> <td></td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>71</td> <td></td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>17.22</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>89</td> <td></td> <td></td> <td>%</td> </tr> </table>		Fluid name	Flash WT	[WATER]		MAX	NOR	MIN	UNIT	Flow rate	12530			kg/h	Inlet pressure	12.75			kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	10.1			kgf/cm2	Shut-off press.	17			kgf/cm2	Temperature	193			degC	Sp.Gr. (liq.)	0.8727			water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash	Flashing			%	Velocity	3.5			m/s	S.P.L.	71			dBA	Calculated Cv	17.22				Travel	89			%	<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8139-4800 Y-138A	
Fluid name	Flash WT	[WATER]																																																																															
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809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 51 QTY: 1</p> <p>Tag no. E-LICA-107</p> <p>Service</p> <p>< Specification ></p> <p>Model AGVM</p> <p>Description Top-Guided Single-Seat Control Valves</p> <p>Valve size 1 inch</p> <p>Port size Cv=2.5 inch</p> <p>Rated Cv 2.5</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SUS316 STELLITE</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator PSA1</p> <p>Manual operator ---</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing NP4519</p> <p>Gasket V543(PTFE)</p> <p>Grease</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD2B-1CYS-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																																				
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 52 QTY: 1 Tag no. E-LICA-204 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=1.6 inch Rated Cv 1.6 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 1.4kgf/cm2 Spring range 0.2-1.0kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal Explosion-proof Signal 0.2-1.0 kgf/cm2 Regurator Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 668 kg/h Inlet pressure 2.4 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 1.64 kgf/cm2 Shut-off press. 4.4 kgf/cm2 Temperature 40 degC Sp.Gr. (liq.) 0.9924 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.36 m/s S.P.L. 58 dBA Calculated Cv 0.6112 Travel 74 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5000	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 53 QTY: 1 Tag no. E-LICA-206 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=1.0 inch Rated Cv 1.0 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 1.4kgf/cm2 Spring range 0.2-1.0kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal Explosion-proof Signal 0.2-1.0 kgf/cm2 Regurator Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 980 kg/h Inlet pressure 6.83 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 6.07 kgf/cm2 Shut-off press. 8.9 kgf/cm2 Temperature 40 degC Sp.Gr. (liq.) 0.9926 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.54 m/s S.P.L. 67 dBA Calculated Cv 0.4661 Travel 79 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5100	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 54 QTY: 1</p> <p>Tag no. E-LICA-207</p> <p>Service</p> <p>< Specification ></p> <p>Model AGVM</p> <p>Description Top-Guided Single-Seat Control Valves</p> <p>Valve size 1 inch</p> <p>Port size Cv=0.4 inch</p> <p>Rated Cv 0.4</p> <p>Connection size inch</p> <p>Body rating ANSI300</p> <p>End connection RF</p> <p>Body material SCPH2</p> <p>Trim material SUS316 STELLITE</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator PSA1</p> <p>Manual operator ---</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing NP4519</p> <p>Gasket V543(PTFE)</p> <p>Grease</p> <p>Air supply 1.4kgf/cm2</p> <p>Spring range 0.2-1.0kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal</p> <p>ExproSION-proof</p> <p>Signal 0.2-1.0 kgf/cm2</p> <p>Regurator</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																												
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 55 QTY: 1 Tag no. E-LICA-209 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=0.25 inch Rated Cv 0.25 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE FACE Flow characteristic LINEAR Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 160 kg/h Inlet pressure 15.1 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 8.2 kgf/cm2 Shut-off press. 19.6 kgf/cm2 Temperature 40 degC Sp.Gr. (liq.) 0.9929 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.08 m/s S.P.L. 53 dBA Calculated Cv 0.06545 Travel 30 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5310 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 56 QTY: 1 Tag no. E-LICA-210 Service		Product no.: -																																																	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=0.63 inch Rated Cv 0.63 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 1.4kgf/cm2 Spring range 0.2-1.0kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
< Accesories > Positioner / Signal Explosion-proof Signal 0.2-1.0 kgf/cm2 Regurator Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Dil.Caust</td> <td>[WATER]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR MIN UNIT</td> </tr> <tr> <td>Flow rate</td> <td>668</td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>17.2</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>14.5</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td>19.6</td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>54</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.9869</td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.37</td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>67</td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td>0.2061</td> <td></td> </tr> <tr> <td>Travel</td> <td>70</td> <td>%</td> </tr> </table>		Fluid name	Dil.Caust	[WATER]		MAX	NOR MIN UNIT	Flow rate	668	kg/h	Inlet pressure	17.2	kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	14.5	kgf/cm2	Shut-off press.	19.6	kgf/cm2	Temperature	54	degC	Sp.Gr. (liq.)	0.9869	water=1	Sp.Gr.(gas,vapor)		MW	Viscosity		cP	Flash		%	Velocity	0.37	m/s	S.P.L.	67	dBa	Calculated Cv	0.2061		Travel	70	%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5400	
Fluid name	Dil.Caust	[WATER]																																																	
	MAX	NOR MIN UNIT																																																	
Flow rate	668	kg/h																																																	
Inlet pressure	17.2	kgf/cm2G																																																	
Outlet pressure		kgf/cm2G																																																	
Diff. pressure	14.5	kgf/cm2																																																	
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Velocity	0.37	m/s																																																	
S.P.L.	67	dBa																																																	
Calculated Cv	0.2061																																																		
Travel	70	%																																																	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 57 QTY: 1 Tag no. E-LICA-211 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=1.0 inch Rated Cv 1.0 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 1.4kgf/cm2 Spring range 0.2-1.0kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal Explosion-proof Signal 0.2-1.0 kgf/cm2 Regurator Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 1000 kg/h Inlet pressure 17.2 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 10 kgf/cm2 Shut-off press. 19.6 kgf/cm2 Temperature 54 degC Sp.Gr. (liq.) 0.9869 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.55 m/s S.P.L. 66 dBA Calculated Cv 0.3716 Travel 73 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5500	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 58 QTY: 1 Tag no. E-LICA-213 Service		Product no.: -	
< Specification > Model HPS Description Top-Guided High Pressure Single Seated Control Valves Valve size 1 inch Port size Cv=4.0 inch Rated Cv 4.0 Connection size inch Body rating ANSI1500 End connection RJ Body material SCPH2 Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543,V564(MONEL) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 1280 kg/h Inlet pressure 40.5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 37.8 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 252 degC Sp.Gr. (liq.) 0.7972 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash Flashing % Velocity 1.15 m/s S.P.L. 72 dBA Calculated Cv 1.06 Travel 67 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5600 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 59 QTY: 1 Tag no. E-LICA-214 Service		Product no.: -																																																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td colspan="3">WATER</td> <td>[WATER]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>40400</td> <td>16200</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>5.94</td> <td>5.94</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>2.94</td> <td>2.94</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>7.2</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>80</td> <td>80</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.9719</td> <td>0.9719</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>5.7</td> <td>2.28</td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>70</td> <td>66</td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>27.9</td> <td>11.19</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>85</td> <td>55</td> <td></td> <td>%</td> </tr> </table>		Fluid name	WATER			[WATER]		MAX	NOR	MIN	UNIT	Flow rate	40400	16200		kg/h	Inlet pressure	5.94	5.94		kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	2.94	2.94		kgf/cm2	Shut-off press.		7.2		kgf/cm2	Temperature	80	80		degC	Sp.Gr. (liq.)	0.9719	0.9719		water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity	5.7	2.28		m/s	S.P.L.	70	66		dBA	Calculated Cv	27.9	11.19			Travel	85	55		%	<Seat Leakage> CLASS II (SV0201-007)	
Fluid name	WATER			[WATER]																																																																															
	MAX	NOR	MIN	UNIT																																																																															
Flow rate	40400	16200		kg/h																																																																															
Inlet pressure	5.94	5.94		kgf/cm2G																																																																															
Outlet pressure				kgf/cm2G																																																																															
Diff. pressure	2.94	2.94		kgf/cm2																																																																															
Shut-off press.		7.2		kgf/cm2																																																																															
Temperature	80	80		degC																																																																															
Sp.Gr. (liq.)	0.9719	0.9719		water=1																																																																															
Sp.Gr.(gas,vapor)				MW																																																																															
Viscosity				cP																																																																															
Flash				%																																																																															
Velocity	5.7	2.28		m/s																																																																															
S.P.L.	70	66		dBA																																																																															
Calculated Cv	27.9	11.19																																																																																	
Travel	85	55		%																																																																															
		<Note> Tokumi - OldProd.No.419-8139-5700 *with lock unit Y-138A																																																																																	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 4 / 4 inch Line Sch. / Thick. 40 / 6 mm																																																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 60 QTY: 1 Tag no. E-LICA-215 Service		Product no.: -																																																	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1/2 inch Port size Cv=0.16 inch Rated Cv 0.16 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE FACE Flow characteristic LINEAR Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Water</td> <td>[WATER]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR MIN UNIT</td> </tr> <tr> <td>Flow rate</td> <td>330</td> <td>165 kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>36</td> <td>36 kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>18.6</td> <td>18.6 kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>41.3 kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>40</td> <td>40 degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.9938</td> <td>0.9938 water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.72</td> <td>0.36 m/s</td> </tr> <tr> <td>S.P.L.</td> <td>57</td> <td>54 dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>0.0896</td> <td>0.0448</td> </tr> <tr> <td>Travel</td> <td>66</td> <td>32 %</td> </tr> </table>		Fluid name	Water	[WATER]		MAX	NOR MIN UNIT	Flow rate	330	165 kg/h	Inlet pressure	36	36 kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	18.6	18.6 kgf/cm2	Shut-off press.		41.3 kgf/cm2	Temperature	40	40 degC	Sp.Gr. (liq.)	0.9938	0.9938 water=1	Sp.Gr.(gas,vapor)		MW	Viscosity		cP	Flash		%	Velocity	0.72	0.36 m/s	S.P.L.	57	54 dBA	Calculated Cv	0.0896	0.0448	Travel	66	32 %	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5810 Y-138A	
Fluid name	Water	[WATER]																																																	
	MAX	NOR MIN UNIT																																																	
Flow rate	330	165 kg/h																																																	
Inlet pressure	36	36 kgf/cm2G																																																	
Outlet pressure		kgf/cm2G																																																	
Diff. pressure	18.6	18.6 kgf/cm2																																																	
Shut-off press.		41.3 kgf/cm2																																																	
Temperature	40	40 degC																																																	
Sp.Gr. (liq.)	0.9938	0.9938 water=1																																																	
Sp.Gr.(gas,vapor)		MW																																																	
Viscosity		cP																																																	
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S.P.L.	57	54 dBA																																																	
Calculated Cv	0.0896	0.0448																																																	
Travel	66	32 %																																																	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 61 QTY: 1 Tag no. E-LICA-216 Service		Product no.: -	
< Specification > Model HPS Description Top-Guided High Pressure Single Seated Control Valves Valve size 1 inch Port size Cv=2.5 inch Rated Cv 2.5 Connection size inch Body rating ANSI1500 End connection RJ Body material SCPH21 Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543,V564(MONEL) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 930 kg/h Inlet pressure 40.5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 37.8 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 252 degC Sp.Gr. (liq.) 0.7972 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash Flashing % Velocity 0.83 m/s S.P.L. 71 dBA Calculated Cv 0.7702 Travel 71 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-5900 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 62 QTY: 1 Tag no. E-LICA-217 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=0.4 inch Rated Cv 0.4 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYS-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Water [WATER] MAX NOR MIN UNIT Flow rate 335 kg/h Inlet pressure 5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 4.2 kgf/cm2 Shut-off press. 9.9 kgf/cm2 Temperature 13 degC Sp.Gr. (liq.) 0.9997 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.18 m/s S.P.L. 61 dBA Calculated Cv 0.1908 Travel 80 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-6000 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 63 QTY: 1 Tag no. E-LIC-220 Service		Product no.: -																																																	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=1.6 inch Rated Cv 1.6 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA2 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 1.4kgf/cm2 Spring range 0.2-1.0kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
< Accesories > Positioner / Signal Explosion-proof Signal 0.2-1.0 kgf/cm2 Regurator Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Dil.Caust</td> <td>[WATER]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR MIN UNIT</td> </tr> <tr> <td>Flow rate</td> <td>670</td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>2.4</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>1.4</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td>19.6</td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>54</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.9863</td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.37</td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>53</td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td>0.6656</td> <td></td> </tr> <tr> <td>Travel</td> <td>76</td> <td>%</td> </tr> </table>		Fluid name	Dil.Caust	[WATER]		MAX	NOR MIN UNIT	Flow rate	670	kg/h	Inlet pressure	2.4	kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	1.4	kgf/cm2	Shut-off press.	19.6	kgf/cm2	Temperature	54	degC	Sp.Gr. (liq.)	0.9863	water=1	Sp.Gr.(gas,vapor)		MW	Viscosity		cP	Flash		%	Velocity	0.37	m/s	S.P.L.	53	dBa	Calculated Cv	0.6656		Travel	76	%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8139-6100	
Fluid name	Dil.Caust	[WATER]																																																	
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809: YEU / Algeria Sonatrach/ enip algeria R

<p>No.: 64 QTY: 1</p> <p>Tag no. E-LICA-601</p> <p>Service</p> <p>< Specification ></p> <p>Model HTS</p> <p>Description Top-Guided Single Seated Control Valves</p> <p>Valve size 1-1/2 inch</p> <p>Port size 1 inch</p> <p>Rated Cv 10</p> <p>Connection size inch</p> <p>Body rating ANSI600</p> <p>End connection RF</p> <p>Body material SCS14A</p> <p>Trim material SUS440C</p> <p>Flow characteristic EQ%</p> <p>Bonnet type PLAIN</p> <p>Actuator HA3</p> <p>Manual operator ---</p> <p>Valve action REVERSE(Air fail close)</p> <p>Gland packing V-PTFE</p> <p>Gasket V543</p> <p>Grease</p> <p>Air supply 2.8kgf/cm2</p> <p>Spring range 0.8-2.4kgf/cm2</p> <p>< Accesories ></p> <p>Positioner / Signal AVP302-ESD2B-1CYT-X</p> <p>Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4,</p> <p>Signal 4-20 mADC</p> <p>Regurator KZ03-2A-XX</p> <p>Regulator 2</p> <p>Limit Switch</p> <p>Action</p> <p>Solenoid valve</p> <p>Action</p> <p>Power supply</p> <p>Others</p> <p style="text-align: right;">Air lock valve:IL201-02</p>	<p>Product no.: -</p> <p><Option></p> <p>SV0703-105 Indicating unit : "kgf/cm2"</p> <p>SV0601-000 Air piping Connection: Rc1/4</p> <p>SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap</p> <p>SV0801-E01 Material certificate in English. Scope: valve body and bonnet</p> <p>SV0505-001 Minimum flow stopper for actuator</p> <p><Finish></p> <p>Body: 7.5BG4/1.5</p> <p>Diaph. Case:</p> <p>Yoke:</p> <p>Paint: Standard</p>																																																																																
<p><Operating condition></p> <table border="1"> <thead> <tr> <th>Fluid name</th> <th>BFW</th> <th>[WATER]</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> </tr> <tr> <td>Flow rate</td> <td>14980</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>71.4</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>16.1</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td>71.4</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>171</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.9003</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>4.05</td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>63</td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>4.593</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>74</td> <td></td> <td>%</td> </tr> </tbody> </table>	Fluid name	BFW	[WATER]	UNIT		MAX	NOR	MIN	Flow rate	14980		kg/h	Inlet pressure	71.4		kgf/cm2G	Outlet pressure			kgf/cm2G	Diff. pressure	16.1		kgf/cm2	Shut-off press.	71.4		kgf/cm2	Temperature	171		degC	Sp.Gr. (liq.)	0.9003		water=1	Sp.Gr.(gas,vapor)			MW	Viscosity			cP	Flash			%	Velocity	4.05		m/s	S.P.L.	63		dBA	Calculated Cv	4.593			Travel	74		%	<p><Seat Leakage></p> <p>CLASS IV (SV0201-003)</p> <p><Note> Tokumi -</p> <p>OldProd.No.419-8140-0410</p> <p>Min.stopper 20%</p> <p>Y-138A</p> <p><Line spec></p> <table border="1"> <tr> <td>Design press.</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Design temp.</td> <td></td> <td></td> <td>degC</td> </tr> <tr> <td>Line size in/out</td> <td>3</td> <td>/</td> <td>3 inch</td> </tr> <tr> <td>Line Sch. / Thick.</td> <td>40</td> <td>/</td> <td>5.5 mm</td> </tr> </table>	Design press.			kgf/cm2G	Design temp.			degC	Line size in/out	3	/	3 inch	Line Sch. / Thick.	40	/	5.5 mm
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 65 QTY: 1 Tag no. E-LICA-602 Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 1-1/2 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet SV0505-001 Minimum flow stopper for actuator	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others Air lock valve:IL201-02		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name BFW [WATER] MAX NOR MIN UNIT Flow rate 14980 kg/h Inlet pressure 71.4 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 16.1 kgf/cm2 Shut-off press. 71.4 kgf/cm2 Temperature 171 degC Sp.Gr. (liq.) 0.9003 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 4.05 m/s S.P.L. 63 dBA Calculated Cv 4.593 Travel 74 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-0510 Min.stopper 20% Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 66 QTY: 1 Tag no. E-LICA-603 Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 1-1/2 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet SV0505-001 Minimum flow stopper for actuator	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others Air lock valve:IL201-02		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name BFW [WATER] MAX NOR MIN UNIT Flow rate 14980 kg/h Inlet pressure 71.4 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 16.1 kgf/cm2 Shut-off press. 71.4 kgf/cm2 Temperature 171 degC Sp.Gr. (liq.) 0.9003 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 4.05 m/s S.P.L. 63 dBA Calculated Cv 4.593 Travel 74 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-0610 Min.stopper 20% Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

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No.: 67 QTY: 1 Tag no. E-LICA-604 Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 1-1/2 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet SV0505-001 Minimum flow stopper for actuator	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others Air lock valve:IL201-02		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name BFW [WATER] MAX NOR MIN UNIT Flow rate 14980 kg/h Inlet pressure 71.4 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 16.1 kgf/cm2 Shut-off press. 71.4 kgf/cm2 Temperature 171 degC Sp.Gr. (liq.) 0.9003 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 4.05 m/s S.P.L. 63 dBA Calculated Cv 4.593 Travel 74 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-0610 Min.stopper 20% Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 3 / 3 inch Line Sch. / Thick. 40 / 5.5 mm	

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No.: 69 QTY: 1 Tag no. E-LIC-612 Service		Product no.: -																																																																																	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=10 inch Rated Cv 10 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																																																	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>LP Cond</td> <td>[</td> <td>LIQUID</td> <td>]</td> </tr> <tr> <td></td> <td>MAX</td> <td>NOR</td> <td>MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>12820</td> <td>5010</td> <td></td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>9.1</td> <td>9.1</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>7.0</td> <td>7.0</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>10.9</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>100</td> <td>100</td> <td></td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.959</td> <td>0.959</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td></td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>7.33</td> <td>2.86</td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>78</td> <td>74</td> <td></td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>5.776</td> <td>2.257</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>85</td> <td>60</td> <td></td> <td>%</td> </tr> </table>		Fluid name	LP Cond	[LIQUID]		MAX	NOR	MIN	UNIT	Flow rate	12820	5010		kg/h	Inlet pressure	9.1	9.1		kgf/cm2G	Outlet pressure				kgf/cm2G	Diff. pressure	7.0	7.0		kgf/cm2	Shut-off press.		10.9		kgf/cm2	Temperature	100	100		degC	Sp.Gr. (liq.)	0.959	0.959		water=1	Sp.Gr.(gas,vapor)				MW	Viscosity				cP	Flash				%	Velocity	7.33	2.86		m/s	S.P.L.	78	74		dBA	Calculated Cv	5.776	2.257			Travel	85	60		%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-1700 Y-138A	
Fluid name	LP Cond	[LIQUID]																																																																															
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 70 QTY: 1 Tag no. E-LIC-614 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=6.3 inch Rated Cv 6.3 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name LP Cond [LIQUID] MAX NOR MIN UNIT Flow rate 1140 kg/h Inlet pressure 1 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.32 kgf/cm2 Shut-off press. 4.5 kgf/cm2 Temperature 120 degC Sp.Gr. (liq.) 0.943 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.66 m/s S.P.L. 44 dBA Calculated Cv 2.422 Travel 74 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-1800 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 71 QTY: 1 Tag no. E-LIC-702 Service		Product no.: -	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 24 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS14A Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543,V8590 Grease Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accessories > Positioner / Signal AVP302-ESD2B-1CYS-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Coustic [LIQUID] MAX NOR MIN UNIT Flow rate 1835 kg/h Inlet pressure 1.1 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.1 kgf/cm2 Shut-off press. 3.5 kgf/cm2 Temperature 30 degC Sp.Gr. (liq.) 1.14 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.39 m/s S.P.L. 41 dBA Calculated Cv 6.344 Travel 56 %		<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8140-1910 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 73 QTY: 1 Tag no. E-HC-602 Service		Product no.: -																																																													
< Specification > Model HLS Description Small-Port Single Seated Control Valves Valve size 1 inch Port size Cv=4.0 inch Rated Cv 4.0 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA2 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543 Grease PS6 Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																													
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																													
<Operating condition> <table border="1"> <thead> <tr> <th>Fluid name</th> <th>BFW</th> <th>[FLASH]</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>Flow rate</td> <td>MAX 3000</td> <td>NOR 0</td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>51</td> <td>51</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>48.5</td> <td>48.5</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>56.1</td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>265</td> <td>265</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.776</td> <td>0.776</td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td>18</td> <td>18</td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td>27</td> <td>27</td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>2.12</td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>77</td> <td></td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td>1.928</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>80</td> <td></td> <td>%</td> </tr> </tbody> </table>		Fluid name	BFW	[FLASH]	UNIT	Flow rate	MAX 3000	NOR 0	kg/h	Inlet pressure	51	51	kgf/cm2G	Outlet pressure			kgf/cm2G	Diff. pressure	48.5	48.5	kgf/cm2	Shut-off press.		56.1	kgf/cm2	Temperature	265	265	degC	Sp.Gr. (liq.)	0.776	0.776	water=1	Sp.Gr.(gas,vapor)	18	18	MW	Viscosity			cP	Flash	27	27	%	Velocity	2.12		m/s	S.P.L.	77		dBa	Calculated Cv	1.928			Travel	80		%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-3810 Y-138A	
Fluid name	BFW	[FLASH]	UNIT																																																												
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 75 QTY: 1 Tag no. E-HC-604 Service		Product no.: -																																																													
< Specification > Model HLS Description Small-Port Single Seated Control Valves Valve size 1 inch Port size Cv=4.0 inch Rated Cv 4.0 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA2 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543 Grease PS6 Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																													
< Accessories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																													
<Operating condition> <table border="1"> <thead> <tr> <th>Fluid name</th> <th>BFW</th> <th>[FLASH]</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>Flow rate</td> <td>3000</td> <td>0</td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>51</td> <td>51</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>48.5</td> <td>48.5</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>56.1</td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>265</td> <td>265</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.776</td> <td>0.776</td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td>18</td> <td>18</td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td>27</td> <td>27</td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>2.12</td> <td></td> <td>m/s</td> </tr> <tr> <td>S.P.L.</td> <td>77</td> <td></td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td>1.928</td> <td></td> <td></td> </tr> <tr> <td>Travel</td> <td>80</td> <td></td> <td>%</td> </tr> </tbody> </table>		Fluid name	BFW	[FLASH]	UNIT	Flow rate	3000	0	kg/h	Inlet pressure	51	51	kgf/cm2G	Outlet pressure			kgf/cm2G	Diff. pressure	48.5	48.5	kgf/cm2	Shut-off press.		56.1	kgf/cm2	Temperature	265	265	degC	Sp.Gr. (liq.)	0.776	0.776	water=1	Sp.Gr.(gas,vapor)	18	18	MW	Viscosity			cP	Flash	27	27	%	Velocity	2.12		m/s	S.P.L.	77		dBa	Calculated Cv	1.928			Travel	80		%	<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-4010 Y-138A	
Fluid name	BFW	[FLASH]	UNIT																																																												
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809: YEU / Algeria Sonatrach/ enip algeria R

No.: 76 QTY: 1 Tag no. E-HC-605 Service < Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 3 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543 Grease PS6 Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2 < Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		Product no.: - <Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet <Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name STEAM [STEAM] MAX NOR MIN UNIT Flow rate 3000 0 kg/h Inlet pressure 51 51 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 51 51 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 265 265 degC Sp.Gr. (liq.) 0.776 0.776 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.73 Mach S.P.L. 85 dBA Calculated Cv 4.879 Travel 76 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-4110 Y-138A <Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 77 QTY: 1 Tag no. E-HC-606 Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 3 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543 Grease PS6 Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name STEAM [STEAM] MAX NOR MIN UNIT Flow rate 3000 0 kg/h Inlet pressure 51 51 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 51 51 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 265 265 degC Sp.Gr. (liq.) 0.776 0.776 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.73 Mach S.P.L. 85 dBA Calculated Cv 4.879 Travel 76 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-4210 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 78 QTY: 1 Tag no. E-HC-607 Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 3 inch Port size 1 inch Rated Cv 10 Connection size inch Body rating ANSI600 End connection RF Body material SCS14A Trim material SUS440C Flow characteristic EQ% Bonnet type EXT-1 HIGH Actuator HA3 Manual operator --- Valve action REVERSE(Air fail close) Gland packing P6610CH+P6528 Gasket V543 Grease PS6 Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X ExproSION-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name STEAM [STEAM] MAX NOR MIN UNIT Flow rate 3000 0 kg/h Inlet pressure 51 51 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 51 51 kgf/cm2 Shut-off press. 56.1 kgf/cm2 Temperature 265 265 degC Sp.Gr. (liq.) 0.776 0.776 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.73 Mach S.P.L. 85 dBA Calculated Cv 4.879 Travel 76 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-4310 Y-138A	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 80 QTY: 2 Tag no. E-HC-701A,B Service		Product no.: -																																																	
< Specification > Model HCB Description Pressure Balanced Cage Type Control Valves Valve size 2 inch Port size 2 inch Rated Cv 44 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SCS24 Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543,V8590 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
< Accesories > Positioner / Signal AVP300-ESD2B-1CYS-X Exprosn-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>MP STEAM</td> <td>[STEAM]</td> </tr> <tr> <td></td> <td>MAX NOR MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>3000 0</td> <td>kg/h</td> </tr> <tr> <td>Inlet pressure</td> <td>15 15</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>7 7</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>200 200</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td>0.776 0.776</td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td></td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.18</td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td>72</td> <td>dBa</td> </tr> <tr> <td>Calculated Cv</td> <td>16.6</td> <td></td> </tr> <tr> <td>Travel</td> <td>68</td> <td>%</td> </tr> </table>		Fluid name	MP STEAM	[STEAM]		MAX NOR MIN	UNIT	Flow rate	3000 0	kg/h	Inlet pressure	15 15	kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	7 7	kgf/cm2	Shut-off press.		kgf/cm2	Temperature	200 200	degC	Sp.Gr. (liq.)	0.776 0.776	water=1	Sp.Gr.(gas,vapor)		MW	Viscosity		cP	Flash		%	Velocity	0.18	Mach	S.P.L.	72	dBa	Calculated Cv	16.6		Travel	68	%	<Seat Leakage> CLASS II (SV0201-007) <Note> Tokumi - OldProd.No.419-8140-4500 Y-138A	
Fluid name	MP STEAM	[STEAM]																																																	
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Travel	68	%																																																	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 6 / 6 inch Line Sch. / Thick. 40 / 7.1 mm																																																	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 81 QTY: 2 Tag no. E-EmV-609A,B Service		Product no.: -	
< Specification > Model HTS Description Top-Guided Single Seated Control Valves Valve size 1-1/2 inch Port size 1-1/2 inch Rated Cv 30 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing V-PTFE Gasket V543 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal Explosion-proof Signal On-Off action Regurator KZ03-2A-1B Regulator 2 Limit Switch VCX5001 Action Full Open on Solenoid valve JE38320G174 Action En. : CV Close , De-en.: Open Power supply AC110V 50Hz Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name BW [WATER] MAX NOR MIN UNIT Flow rate 14 t/h Inlet pressure 2.4 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 0.6 kgf/cm2 Shut-off press. 8.7 kgf/cm2 Temperature 130 degC Sp.Gr. (liq.) 0.9346 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 3.65 m/s S.P.L. 71 dBA Calculated Cv 21.82 Travel 82 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-5010 Reg.:with 40A gage 0-4k	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1-1/2 / 1-1/2 inch Line Sch. / Thick. 40 / 3.7 mm	

809: YEU / Algeria Sonatrach/ enip algeria R

No.: 82 QTY: 1 Tag no. E-EMV-701 Service		Product no.: -																																																	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=10 inch Rated Cv 10 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action DIRECT(Air fail open) Gland packing NP4519 Gasket V543(PTFE) Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet																																																	
< Accesories > Positioner / Signal Explosion-proof Signal On-Off action Regurator KZ03-2A-1B Regulator 2 Limit Switch VCX5001 Action Full Open on Solenoid valve JE38320G174 Action En. : CV Close , De-en.: Open Power supply AC110V 50Hz Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard																																																	
<Operating condition> <table border="1"> <tr> <td>Fluid name</td> <td>Fuel Gas</td> <td>[GAS]</td> </tr> <tr> <td></td> <td>MAX NOR MIN</td> <td>UNIT</td> </tr> <tr> <td>Flow rate</td> <td>360 0</td> <td>m3/h[N]</td> </tr> <tr> <td>Inlet pressure</td> <td>1.1 1.1</td> <td>kgf/cm2G</td> </tr> <tr> <td>Outlet pressure</td> <td></td> <td>kgf/cm2G</td> </tr> <tr> <td>Diff. pressure</td> <td>1.1 1.1</td> <td>kgf/cm2</td> </tr> <tr> <td>Shut-off press.</td> <td></td> <td>kgf/cm2</td> </tr> <tr> <td>Temperature</td> <td>40 40</td> <td>degC</td> </tr> <tr> <td>Sp.Gr. (liq.)</td> <td></td> <td>water=1</td> </tr> <tr> <td>Sp.Gr.(gas,vapor)</td> <td>10 10</td> <td>MW</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>cP</td> </tr> <tr> <td>Flash</td> <td></td> <td>%</td> </tr> <tr> <td>Velocity</td> <td>0.37</td> <td>Mach</td> </tr> <tr> <td>S.P.L.</td> <td>52</td> <td>dBA</td> </tr> <tr> <td>Calculated Cv</td> <td>7.452</td> <td></td> </tr> <tr> <td>Travel</td> <td>92</td> <td>%</td> </tr> </table>		Fluid name	Fuel Gas	[GAS]		MAX NOR MIN	UNIT	Flow rate	360 0	m3/h[N]	Inlet pressure	1.1 1.1	kgf/cm2G	Outlet pressure		kgf/cm2G	Diff. pressure	1.1 1.1	kgf/cm2	Shut-off press.		kgf/cm2	Temperature	40 40	degC	Sp.Gr. (liq.)		water=1	Sp.Gr.(gas,vapor)	10 10	MW	Viscosity		cP	Flash		%	Velocity	0.37	Mach	S.P.L.	52	dBA	Calculated Cv	7.452		Travel	92	%	<Seat Leakage> CLASS IV-S1 (SV0201-009) <Note> Tokumi - OldProd.No.419-8140-5100 Reg.:with 40A gage 0-4k	
Fluid name	Fuel Gas	[GAS]																																																	
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No.: 83 QTY: 1 Tag no. E-EMV-803 Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 2 inch Port size 2 inch Rated Cv 50 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543(PTFE) Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal Explosion-proof Signal On-Off action Regurator KZ03-2A-1B Regulator 2 Limit Switch VCX5001 Action Full Open on Solenoid valve JE38320G174 Action En. : CV Close , De-en.: Open Power supply AC110V 50Hz Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name Nitrogen [GAS] MAX NOR MIN UNIT Flow rate 212 0 m3/h[N] Inlet pressure 4.5 4.5 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure kgf/cm2 Shut-off press. 6.5 kgf/cm2 Temperature 20 20 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) 28 28 MW Viscosity cP Flash % Velocity Mach S.P.L. dBA Calculated Cv Travel %		<Seat Leakage> CLASS IV-S1 (SV0201-009) <Note> Tokumi - OldProd.No.419-8140-5200 Reg.:with 40A gage 0-4k	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 2 / 2 inch Line Sch. / Thick. 40 / 3.9 mm	

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No.: 85 QTY: 1 Tag no. E-HC-701A Service		Product no.: -	
< Specification > Model AGVM Description Top-Guided Single-Seat Control Valves Valve size 1 inch Port size Cv=4.0 inch Rated Cv 4.0 Connection size inch Body rating ANSI300 End connection RF Body material SCPH2 Trim material SUS316 STELLITE Flow characteristic EQ% Bonnet type PLAIN Actuator PSA1 Manual operator SIDE* Valve action DIRECT(Air fail open) Gland packing NP4519 Gasket V543(PTFE) Grease --- Air supply 4.0kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD3B-1CYS-X Exprosnion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 12-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name MP STEAM [STEAM] MAX NOR MIN UNIT Flow rate 317 kg/h Inlet pressure 15 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 7 kgf/cm2 Shut-off press. 15 kgf/cm2 Temperature 200 degC Sp.Gr. (liq.) water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.07 Mach S.P.L. 54 dBA Calculated Cv 1.754 Travel 78 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - OldProd.No.419-8140-6100 *with lock unit	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 6 / 6 inch Line Sch. / Thick. 40 / 7.1 mm	

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No.: 86 QTY: 1 Tag no. E-TIC-901 Service		Product no.: -	
< Specification > Model HLC Description Small-Port Cage Guide Type Single Seated Control Valves Valve size 1 inch Port size Cv=1.6 inch Rated Cv 1.6 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator HA2 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name WATER [WATER] MAX NOR MIN UNIT Flow rate 4220 kg/h Inlet pressure 64 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 47.2 kgf/cm2 Shut-off press. 84 kgf/cm2 Temperature 138 degC Sp.Gr. (liq.) 0.931 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 2.48 m/s S.P.L. 77 dBA Calculated Cv 0.7431 Travel 79 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - Replacement of GADELIUS valve	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm	

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No.: 87 QTY: 1 Tag no. E-TIC-902 Service		Product no.: -	
< Specification > Model HLC Description Small-Port Cage Guide Type Single Seated Control Valves Valve size 1 inch Port size Cv=0.63 inch Rated Cv 0.63 Connection size inch Body rating ANSI600 End connection RF Body material SCPH2 Trim material SUS440C Flow characteristic EQ% Bonnet type PLAIN Actuator HA2 Manual operator --- Valve action REVERSE(Air fail close) Gland packing NP4519 Gasket V543 Grease --- Air supply 2.8kgf/cm2 Spring range 0.8-2.4kgf/cm2		<Option> SV0703-105 Indicating unit : "kgf/cm2" SV0601-000 Air piping Connection: Rc1/4 SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap SV0801-E01 Material certificate in English. Scope: valve body and bonnet	
< Accesories > Positioner / Signal AVP302-ESD2B-1CYT-X Explosion-proof JIS Flameproof w/ cable packing adaptor, Rc1/4, Signal 4-20 mADC Regurator KZ03-2A-XX Regulator 2 Limit Switch Action Solenoid valve Action Power supply Others		<Finish> Body: 7.5BG4/1.5 Diaph. Case: Yoke: Paint: Standard	
<Operating condition> Fluid name WATER [WATER] MAX NOR MIN UNIT Flow rate 1440 kg/h Inlet pressure 64 kgf/cm2G Outlet pressure kgf/cm2G Diff. pressure 47.2 kgf/cm2 Shut-off press. 84 kgf/cm2 Temperature 138 degC Sp.Gr. (liq.) 0.931 water=1 Sp.Gr.(gas,vapor) MW Viscosity cP Flash % Velocity 0.84 m/s S.P.L. 72 dBA Calculated Cv 0.2536 Travel 75 %		<Seat Leakage> CLASS IV (SV0201-003) <Note> Tokumi - Replacement of GADELIUS valve	
		<Line spec> Design press. kgf/cm2G Design temp. degC Line size in/out 1 / 1 inch Line Sch. / Thick. 40 / 3.4 mm	

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