

Masoneilan Valves

-41615

Spec Data Sheet

Quote No: Project	Project: Taquiperenda
Customer: End User: JRA	End User Location: Estacioun
RFQ No: Revision:	End User Country: BOLIVIA (PLURINATIONAL STATE OF)
CustomerPO: Revision:	ValSpeQ v4.08.0b

Tag: VRS-100	PID No
General Item No 1 Item Revision	Service
Quantity 1 Serial No	Line No

Area Class / PED 2014/68 EU Pass / Category	/ PED Calc not possible / PED Classification : 0	
Leakage Class / NACE	ANSI Class IV /	
Line Size - Schedule - OD - Wall Inlet / Outlet	6 B - 40 - 6,625 - 0,28 / 6 B - 40 - 6,625 - 0,28	
Process Fluid / Fluid State	Natural Gas / Gas	
Design Press / Design Temp	1073 psi g / 60/120 deg F Ambient Temperature Min / Max deg C / 40 deg C	

Service Inputs	Sizing Conditions		Units	Min	Norm	Max	Other
	Flow Rate (total)	Flow Rate	MM scfd	24	25	25	30
Inlet Pressure	Inlet Pressure	psi g	700	1073	1073	1073	
Outlet Pressure	Outlet Pressure	psi g	650	850	850	850	
Temperature	Temperature	deg F	80	110	120	120	
Z			0,8794	0,8583	0,8678	0,8678	
MW			17,38	17,38	17,38	17,38	
k			1,27	1,27	1,27	1,27	

Service Results	Flowing Cond. required Cv		dB	69,63	29,87	30,31	36,44
	Sound Level, IEC	Sound Level, IEC	dB	73	87	87	89
% Travel	% Travel		48,35	28,95	29,28	33,1	
FL	FL		0,9217	0,931	0,9307	0,93	
sonic diameter	sonic diameter	in	0,8797	0,7931	0,7987	0,8749	
Mach No.	Mach # Valve Outlet		0,0818	0,06568	0,06698	0,08038	

Body Bonnet	Model No -41615	Body & Bonnet Matl A216 gr WCC
Body Type	Globe, Reciprocating	Bonnet Type / Bellows Standard/
Size (In x Body x Out)	3 B	Packing Type/Qualification/Endurance PTFE/Carbon Fiber / - / -
Rating / End Conn /sch	CL 600 / RF Flanges	Body Studs A193 gr B7 without plating
Face Finish	125 - 250 AARH	Body Nuts A194 gr 2H without plating

Trim	Rated Cv 155	Plug Type Balanced/PTFE
Trim Type	Linear Contoured	Plug/Ball/Disc Matl 17-4PH St. St.
Characteristic	Linear	Seat Ring Mtl 410 St. St.
Size	full area	Cage:Retnr / Guide Matl 6 NM St.St. Cr.Plated/440C St. St.
Flow Action	Flow to Open	Stem/Shaft Mtl 630(H1075) St. St.

Actuator	Type	Model / Size - /
Fail Position	Fail Position	Shutoff Pressure
Manual Override	Manual Override	Bench Range / Travel / 2 in
Limit Stop	Limit Stop	Supply Pressure / Oversize Factor /
Mounting / Installation	Mounting / Installation /	Yoke Matl / Volume Chamber /

Positioner	Model	Type -
Input Signal / Characteristic	/	Agency / Approval /
Diagnostics Level / Position Transmit	/	Approval Description: / Enclosure /
Air Connection /Elect Conn	/	Remote Mount /
Tag		Airset / Gauge /

Tubing Mat l / Fitting Type / Tubing Size(min.) / Gauge scale: / / /

FN Notes

ITP: ITP-1 Serial Plate Language(s): Spanish / English

Notes to Customer:

Revisions	Item Revision	Description	Date	By	Contact
					EDWIN POMARAYME Phone: 71091613

Accessory Sheet

Notes Sheet

Seller, at its option and at no expense to the customer, may make design changes to goods or materials not impacting form, fit, or function
lunes, 14 de marzo de 2022

Masoneilan Valves

Calculation Sheet

Quote No: Project	Project: Taquiperenda
Customer:	End User: JRA
RFQ No:	End User Location: Estaci3n
CustomerPO:	ValSpeQ v 4.08.0t Size v4.08.0
Revision:	
Revision:	

Tag	VRS-100	Service	
General	Item No 1 Quantity 1	Item Revision	
		PID No	
		Serial No	

Sizing Data	Size (In x Body x Out):	3 B ASME CL 600					
	Model No:	-41615					
	Rated Cv:	155					
	Trim Type:	Linear Contoured					
	Inlet Pipe Size / Sch / OD / Wall:	6	B	/	40	/	6,625 / 0,28
Outlet Pipe Size / Sch / OD / Wall:	6	B	/	40	/	6,625 / 0,28	

Fluid	Process Fluid / Design Press	Natural Gas / 1073 psi g				
	Fluid State / Min / Max Design Temp:	Gas / 60/120 deg F				

Service Conditions	Sizing Conditions	Units	Min	Norm	Max	Other
		Flow Rate	MM scfd	24	25	25
	Inlet Pressure	psi g	700	1073	1073	1073
	Outlet Pressure	psi g	650	850	850	850
	Pressure Drop	psi	50	223	223	223
	Temperature	deg F	80	110	120	120
	Z		0,8794	0,8583	0,8678	0,8678
	MW	MW	17,38	17,38	17,38	17,38
	k		1,27	1,27	1,27	1,27
	flowing cond.					
	required Cv.		69,63	29,87	30,31	36,44
	oversize req Cv.	Cv x 1	69,63	29,87	30,31	36,44
	sound level, IEC	dBA	73	87	87	89
	% Travel		48,35	28,95	29,28	33,1
	% Cv		44,92	19,27	19,55	23,51
	FL		0,9217	0,931	0,9307	0,93
	Sonic Diameter	in	0,8797	0,7931	0,7987	0,8749
	Outlet Velocity	Mach # Valve Outlet	0,0818	0,06568	0,06698	0,08038
	Xt		0,7136	0,7281	0,7276	0,7265

Sizing Warning:

Notes to Customer

Restrictor Sheet

Masoneilan Valves

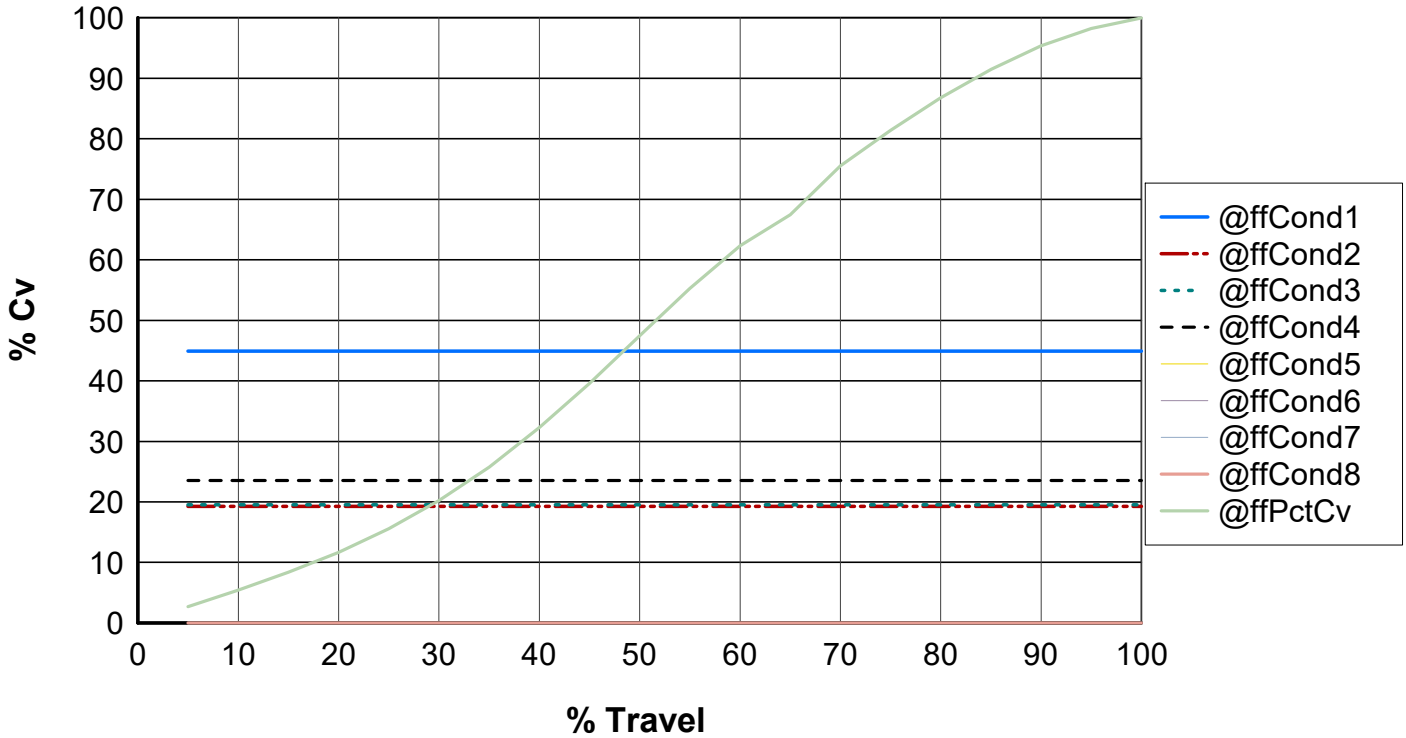
Flow Curve Sheet

Quote No: Project		Project: Taquiperenda	
Customer:		End User: JRA	
RFQ No:		End User Location: Estaci3n	
CustomerPO:		ValSpeQ v 4.08.0k	
Revision:			
Revision:			
Tag	VRS-100	Service	
General	Item No 1	PID No	
	Item Revision	Serial No	
	Quantity 1		

1 VRS-100 [-41615] 3in, Martensitic, ASME CL 600, A216 gr WCC, RF Flanges

Linear Contoured

Cv 155



- @ffCond1 = Min
- @ffCond2 = Norm
- @ffCond3 = Max
- @ffCond4 = Other
- @ffCond5 = Case 5
- @ffCond6 = Case 6
- @ffCond7 = Case 7
- @ffCond8 = Case 8