Nil-Cor®

Control Ball Valve Specification

Customer	
Reference	
Quote	
Date	
Prepared By	

Item:	Qty:	Tag(s):
Size:	Model:	

Body Subassembly Data

Body Type	1" to 6" Flanged					
	8" Flangeless (Installed between ANSI 150 flanges)					
Dimensions	Class 150 face-to-face dimensions per ISA S75.03-1992					
Leakage	Class VI per ANSI / FCI 70-2-1991					
Trim	☐ Equal % Full Cv ☐ Equal % Characterized ☐ Linear Characterized					
Part Name		**310 Series**	**300 Series**	**410 Series**	**500XP Series**	**610XP Series**
Body	1	Glass Fiber/ Vinyl Ester	Graphite Fiber/ Vinyl Ester	Glass Fiber/ Polysulfone	Graphite Fiber/ Novolac Epoxy	Glass Fiber/ Novolac Epoxy
Body Insert	2					
Ball	3	Graphite Fiber/ Vinyl Ester	Graphite Fiber/ Vinyl Ester	Glass Fiber/ Polysulfone	Graphite Fiber/ Novolac Epoxy	Glass Fiber/ Novolac Epoxy
Stem	4	Hastelloy C insert in: see Ball material				
Washer	5	Graphite Fiber Reinforced TFE				
Seat	6	☐ **R**, Reinforced TFE, O-ring ☐ **SR**, Reinforced TFE, Lip ☐ **CF-Cavity Filler** ☐ **OTHER-Specify:__**				
Seal	7	TFE Coated Viton O-ring				
Packing	8	Virgin TFE Chevron Style				
Gland	9	Hastelloy C				
Gland Bolts	10	**H**, Hastelloy C				

Actuators and Accessories

Control Mode		☐ On-Off ☐ Modulating ☐ Manual
Actuator	Type	☐ Spring Return ☐ Double Acting ☐ Electric ☐ Manual
	Mfr. / Model / Size	
	Action	**Air to**: ☐ Open ☐ Close / **Fail**: ☐ Close ☐ Open
	Supply: _____	☐ Psig ☐ Vac / Hz ☐ Vdc
	Manual	☐ Handwheel ☐ Lever ☐ Gear Box
Positioner	Type	☐ Pneumatic ☐_____(Other)
	Mfr. / Model	
	Input	☐____to____ Psig ☐ 4-20mA ☐ Digital or Hart
	Action	☐ Direct ☐ Reverse
	Supply	☐_____ Psig ☐ 24Vdc ☐ mA
Solenoid ☐ Yes ☐ No	Type	☐ 3-way ☐ 4-way
	Mfr. / Model	
	Enclosure	☐ Nema 4 ☐ Nema 7 ☐ _____(other)
	Voltage	☐_____ / ____ Vac / Hz ☐ _____Vdc
	Failure	Main Valve to: ☐ Close ☐ Open
Switch(es) ☐ SPDT ☐ DPDT	Qty / Mfr. / Model	_____ ea. /
	Rating	_____Volts / _____Amps
	Enclosure	☐ Nema 4 ☐ Nema 7 ☐ _____(other)
Position Transmitter	Mfr. / Model	
	Enclosure	☐ Nema 4 ☐ Nema 7 ☐ _____(other)
	Voltage	☐_____ / ____ Vac / Hz ☐ _____Vdc
Air Filter	Local Indicator	☐ Yes ☐ No ☐ Yes ☐ No
Volume Tank		☐ No ☐ Yes, Capacity: _____(in^3)
Booster, Qty: _____ea.		Volume: ☐ Yes ☐ No / Signal: ☐ Yes ☐ No
Airset	Mfr. / Model / Set	
	Gauge	☐ No ☐ Yes Range_____Psig

Service Conditions

Flow Rate (units)		☐ gpm ☐ scfh ☐ ____		
Pressure (units)		☐ psig ☐ psia ☐ ____		
Temperature (units)		☐ ºF ☐ ºC ☐ ____		
Fluid	State	☐ Gas ☐ Vapor ☐ Liquid		
	Description			
CASE →		**Min**	**Nor**	**Max**
Inlet Pressure				
Outlet Pressure				
ΔP Sizing				
Flow Rate				
Vapor Pressure				
Critical Pressure				
Temperature				
Sp. Gr. @ _____ º __				
Noise (dBA)				
Required Cv				
Rated Cv				
ΔP Shutoff				
Pipe	Inlet	Size:____ / Schedule:____		
	Outlet	Size:____ / Schedule:____		

Incomplete Service Conditions / No Sizing Rev. ☐

NOTES

	☐ Yes	☐ No
	☐ Yes	☐ No
	☐ Yes	☐ No
Special Instructions Attached	☐ Yes	☐ No
Estimated delivery	weeks	
Partial shipments	☐ No allowed	☐ Allowed
Shipping weight, lbs	Unit:	Total:
Unit Price US$		
Net Price US$		