



JOB NAME:	CONTRACTOR:
JOB LOCATION:	APPROVAL:
ENGINEER:	CONTRACTOR P.O.:
APPROVAL:	REPRESENTATIVE:

PP710190V36DA - PP710061V36DA 30-60°
PP710190V6DA - PP710061V6DA 60°
PP710190V9DA - PP710061V9DA 90°

710190V36/V6/V9, 3-PC, 2-WAY
STAINLESS STEEL V-BALL VALVE, FULL PORT
BALL VALVE WITH DOUBLE ACTING
PNEUMATIC ACTUATOR AND PNEUMATIC
PNP-B 3-15 PSI POSITIONER

SIZES 1/2" TO 4"

710061V36/V6/V9 - SW

PP710190V36SR - PP710061V36SR 30-60°
PP710190V6SR - PP710061V6SR 60°
PP710190V9SR - PP710061V9SR 90°

710190V36/V6/V9, 3-PC, 2-WAY
STAINLESS STEEL V-BALL VALVE, FULL PORT
BALL VALVE WITH SPRING RETURN
PNEUMATIC ACTUATOR AND PNEUMATIC
PNP-B 3-15 PSI POSITIONER

SIZES 1/2" TO 4"

710061V36/V6/V9 - SW

SPECIFICATIONS

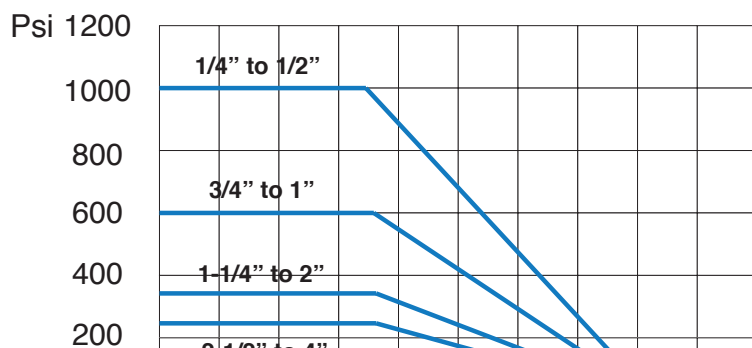
The PP710190V36/V6/V9 series electric V-ball packages feature the Valpres 3-piece stainless steel series 710190V36/V6/V9 NPT ball valve with 25% carbon filled PTFE seats, and thermal relief hole in the stem slot. The valves are rated for 1000psi maximum working pressure. The Valbia pneumatic actuator comes with a hard-anodized aluminum body, and powder coated end caps. In addition, all Valbia pneumatic actuators are standardly furnished with elevated temperature seals to 302°F. The patented side loaded limit stops never enter the piston chamber eliminating extra possible leak paths. The assembled package also features a compact PNP-B positioner with an input signal of 3-15psig.

- Hard anodized extruded aluminum body
- Concentric spring sets
- Die cast aluminum end caps
- Solid steel barstock pinion (not casting)
- 0°-90° rotation adjustment cam
- 0°-90° rotation adjustment bolts
- POM piston guides
- Minimum air pressure rating: 80 psi
- Maximum air pressure rating: 116 psi
- Working temperature: -4°F - 302°F
- No lubrication maintenance required for the entire actuator lifetime
- 100% factory tested

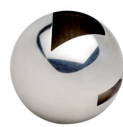
VALVE FEATURES

- CF8M Stainless Steel
- Sizes 1/2" to 4"
- Temperature range: -4°F to 406° F.
- Blow out proof stem, Antistatic Device.
- ISO 5211 mounting pad with double "D" stem
- 100% tested.
- TUV T.A. Luft approved.
- 25% carbon filled P.T.F.E. ball seats; thermal relief hole in the ball.

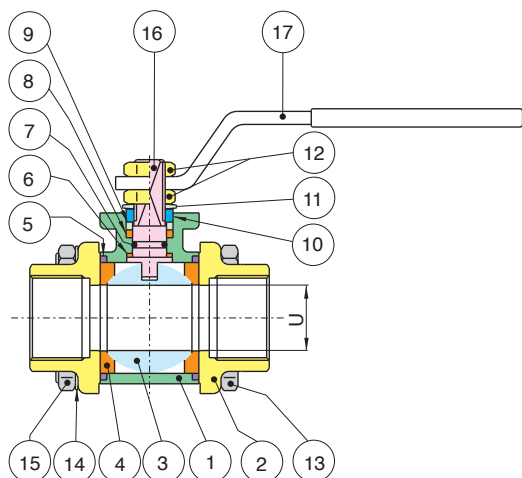
PRESSURE - TEMPERATURE CHART FOR SERIES 710190V36/V6/V9



PP710190V * DA - PP710190V * SR V-BALL SERIES MODEL OPTIONS

	90° V-BALL
	PP710190V9DA PP710190V9SR
	60° V-BALL
	PP710190V6DA PP710190V6SR
	30-60° V-BALL
	PP710190V36DA PP710190V36SR

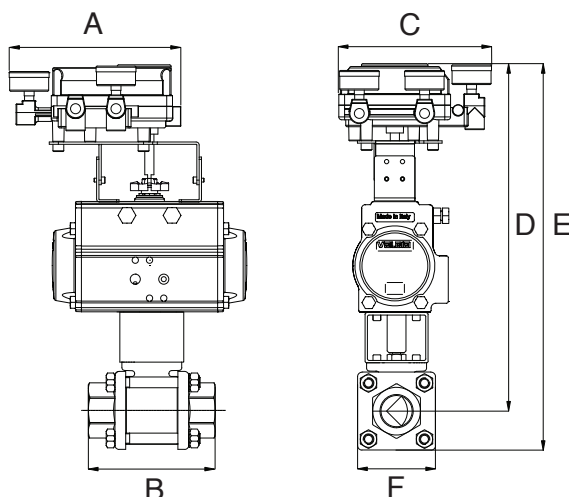
BILL OF MATERIALS FOR 710190V36/V6/V9



N POS	PART NAME	MATERIAL	N PCS
1	BODY	CF8M	1
2	END CAP	CF8M	2
3	BALL	AISI 304-CF8M	1
4	BALL SEAT	R.P.T.F.E.	2
5	SEAL	VITON	2
6	STEM SEAL	R.P.T.F.E.	1
7	O-RING	FKM (Viton)	1
8	STEM SEAL	R.P.T.F.E.	1
9	PACKING GLAND	STEEL	1

N POS	PART NAME	MATERIAL	N PCS
10	END STOP	AISI 430 (1/4" - 2") STEEL (2-1/2" - 4")	2 1
11	SPRING WASHER	STEEL (2-1/2" - 4")	2
12	NUT	STEEL	2
13	BOLT	STEEL (1/4" - 2") STEEL (2-1/2" - 4")	4 6
14	WASHER	STEEL (1/4" - 2") STEEL (2-1/2" - 4")	4 6
15	NUT	STEEL (1/4" - 2") STEEL (2-1/2" - 4")	4 6
16	STEM	AISI 304	1
17	HANDLE	STEEL	1

DIMENSIONS



PP710190V36DA
PP710190V6DA
PP710190V9DA

710190V36 with **DA** Actuator & PNP-B Positioner
 710190V6 with **DA** Actuator & PNP-B Positioner
 710190V9 with **DA** Actuator & PNP-B Positioner

PP710190V36SR
PP710190V6SR
PP710190V9SR

710190V36 with **SR** Actuator & PNP-B Positioner
 710190V6 with **SR** Actuator & PNP-B Positioner
 710190V9 with **SR** Actuator & PNP-B Positioner

Size	A	B	C	D	E	ACT. DA
1/2"	7.32	2.55	6.52	8.56	9.31	32
3/4"	7.32	2.99	6.52	11.40	12.34	52
1"	7.32	3.62	6.52	11.59	12.74	52
1-1/4"	7.32	4.19	6.52	11.75	13.05	52
1-1/2"	7.32	4.56	6.52	13.01	14.51	63
2"	7.32	5.36	6.52	13.96	15.73	75
3"	7.32	7.08	6.52	15.49	18.69	85
4"	7.32	8.54	6.52	17.42	21.16	100

Size	A	B	C	D	E	ACT. SR
1/2"	7.32	2.55	6.52	14.76	15.51	52
3/4"	7.32	2.99	6.52	17.60	18.54	63
1"	7.32	3.62	6.52	17.79	18.94	63
1-1/4"	7.32	4.19	6.52	17.95	19.25	63
1-1/2"	7.32	4.56	6.52	19.21	20.71	85
2"	7.32	5.36	6.52	20.16	21.93	100
3"	7.32	7.08	6.52	21.69	24.89	125
4"	7.32	8.54	6.52	23.62	27.36	125

CV VERSUS VALVE OPENING PERCENTAGE

Size	Degree	10°	20°	30°	40°	50°	60°	70°	80°	90°
1/2"	30-60°	0.05	0.06	0.20	0.50	0.80	1.40	2.20	3.60	5.30
	60°	0.05	0.06	0.30	0.80	1.40	2.50	4.20	7.10	10.80
	90°	0.06	0.08	0.40	1.00	1.90	3.40	6.10	10.50	15.80
3/4"	30-60°	0.00	0.10	0.50	1.00	1.80	3.00	4.70	7.80	11.40
	60°	0.09	0.19	0.50	1.20	2.20	3.80	6.70	11.60	19.80
	90°	0.09	0.19	0.50	1.40	2.80	5.00	9.00	16.70	27.50
1"	30-60°	0.00	0.10	0.70	1.50	2.70	4.30	6.90	10.90	14.90
	60°	0.00	0.18	0.80	2.00	3.60	6.20	9.80	17.10	26.90
	90°	0.00	0.13	0.80	2.30	4.40	8.20	13.90	24.10	39.20
1-1/4"	30-60°	0.00	0.20	0.70	1.30	2.30	3.90	6.50	11.30	18.00
	60°	0.00	0.40	1.30	2.50	4.50	7.60	12.70	21.90	36.00
	90°	0.00	0.80	2.20	4.50	8.00	13.40	22.40	38.80	64.00
1-1/2"	30-60°	0.13	0.20	1.20	2.90	5.30	8.80	13.90	21.30	31.20
	60°	0.13	0.40	1.60	3.60	7.90	15.70	23.80	38.10	61.50
	90°	0.13	0.80	2.90	6.60	12.00	20.80	35.80	62.30	114.10
2"	30-60°	0.04	1.40	3.90	7.40	12.30	19.20	28.30	42.60	61.70
	60°	0.15	1.30	4.40	9.20	16.10	26.60	44.10	69.70	101.10
	90°	0.15	1.50	5.60	11.50	21.40	36.80	63.50	108.20	184.60
2-1/2"	30-60°	0.06	2.19	6.13	11.49	19.24	30.03	44.19	66.64	96.37
	60°	0.24	2.07	6.82	14.33	25.08	41.58	68.92	108.96	157.93
	90°	0.24	2.41	8.67	18.00	33.47	57.52	99.19	168.99	288.42
3"	30-60°	0.32	2.20	7.10	13.90	23.80	37.00	57.60	86.60	128.10
	60°	0.31	3.00	9.60	20.40	35.00	58.50	94.60	147.00	233.60
	90°	0.31	3.70	12.70	26.40	49.40	85.80	140.80	242.20	418.70