



FEATURES

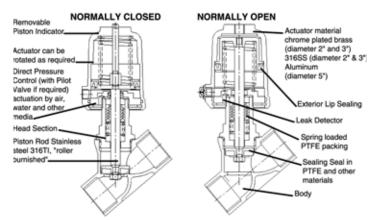
- Compact design, high flow rates
- · Visual position indicator standard
- For temperatures from 22°F to +430°F / -30°C to 221°C
- Working pressures up to 580 psi
- Damped closing anti-water hammer design (fluid under seat)
- Metal actuator housing for exceptional durability in steam & mildly aggressive applications
- Valves satisfy the Pressure Equipment Directive 97/23/EC
- Mountable in any position
- Tight shut-off and Long Service Life
- · Actuator and valve components fully repairable

Technical Specifications

Body Material		Bronze Rg5	AISI 316L	Brass
Function		2/2 NC, NO	2/2 NC, NO	2/2 NC, NO
Nominal sizes		1/2" - 2"	1/4" - 2 1/2"	2 1/2" and 3"
Connections:				
NPT thread standard		1/2" - 2"	1/4" - 2 1/2"	2 1/2" - 3"
BSP thread (ISO228/1)				
Tri Clamp				
Tube Ends				
Flanges ANSI 150				
Nominal Pressure		235 psi (16 bar)	580 psi (40 bar)	235 psi (16 bar)
Differential Pressure			Specifications tables	
Pilot Pressure			5 psi (10bar) reference of	
Actuator:		2" & 3" brass plated	2" & 3" brass plated	5" aluminum anodized
	^Optional		^ Stainless Actuator	
Max. Fluid Temperature		-22°F (-30°C) up to	-22°F (-30°C) up to	-22°F (-30°C) up to
Max. Fluid Temperature		392°F (200°C)	392°F (200°C)	392°F (200°C)
	[#] Optional	# to -40°F (-40°C)	# to -40°F (-40°C)	# to -40°F (-40°C)
	*Optional		* Up to +430°F (221°C)	
Ambient Temperature		-22°F (-0	30°C) up to +140°F (60°C	C)
Seal Material			PTFE	
Packing Gland			PTFE / Graphite	
Viscosity of the Fluid			600 mm²/s (600cSt, 80°l	
Vacuum		m	aximum 0.0295 mercury	(Hg)
Working pressure for			maximum 175 psi	
inverted packing for vacuum	service			
Leakage			ANSI Class VI shutoff	
Installation			Any position	
Optical Position Indicator			Standard all sizes	
Pilot Control Media			Air, neutral gas, water	
Fluids		Inert gases, hot	Aggressive & corrosive	
		water, oils, steam	fluids	oils, steam

Options

- Electrical position indicators
 - Inductive proximity switches
 - Mechanical limit switches
- Manual override
- Oil and Grease free version
- Ultra High Temp. (PEEK)
- Stroke limiter





Series 810 Operating Data: Normally Closed, Flow Direction Under Seat

Recommended for liquids and anti water-hammer application needs

BRONZ	E / BR	ASS *	BODY V	ALVES													
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	Э		Pilot P	ressure	Actu	ıator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Bronze (1) (2)	lbs
	inch	(mm)		(m³/h)		air, g	gases	water,	liquids	ste	eam			dia	bsp		
1/2	0.59	15	4.1	3.6	0	232	16.0	232	16.0	-	-	51-145	3.5-10	50	1/8	810VBN08T320BH000	2.4
3/4	0.78	20	9.2	8.0	0	190	13.0	190	13.0	-	-	65-145	4.5-10	50	1/8	810VBN12T320BH000	2.6
3/4	0.78	20	9.2	8.0	0	232	16.0	232	16.0	-	-	85-145	5.7-10	50	1/8	810VBN12T323BH000	2.8
1	1.00	25	17.4	15.0	0	85	5.8	85	5.8	-	-	65-145	4.5-10	50	1/8	810VBN16T320BH000	3.1
1	1.00	25	17.4	15.0	0	130	9.0	130	9.0	-	-	85-145	5.7-10	50	1/8	810VBN16T323BH000	3.3
1	1.00	25	18.6	16.0	0	232	16.0	232	16.0	-	-	51-145	3.5-10	80	1/4	810VBN16T330BH000	6.6
1-1/4	1.25	32	24.3	21.0	0	75	5.2	75	5.2	-	-	85-145	5.7-10	50	1/8	810VBN20T320BH000	4.0
1-1/4	1.25	32	27.8	24.0	0	175	12.1	175	12.1	-	-	51-145	3.5-10	80	1/4	810VBN20T330BH000	7.3
1-1/4	1.25	32	27.8	24.0	0	232	16.0	232	16.0	-	-	65-145	4.5-10	80	1/4	810VBN20T332BH000	7.5
1-1/2	1.56	40	40.6	35.0	0	100	7.0	100	7.0	-	-	51-145	3.5-10	80	1/4	810VBN24T330BH000	8.0
1-1/2	1.56	40	40.6	35.0	0	145	10.0	145	10.0	-	-	65-145	4.5-10	80	1/4	810VBN24T332BH000	8.2
1-1/2	1.56	40	40.6	35.0	0	190	13.0	190	13.0	-	-	80-145	5.5-10	80	1/4	810VBN24T333BH000	8.5
1-1/2	1.56	40	40.6	35.0	0	220	15.2	220	15.2	-	-	30-145	2.1-10	125	1/4	810VBN24T350BH000	12.8
2	2.00	50	63.8	55.1	0	60	4.0	60	4.0	-	-	51-145	3.5-10	80	1/4	810VBN32T330BH000	9.2
2	2.00	50	63.8	55.1	0	110	7.6	110	7.6	-	-	80-145	5.5-10	80	1/4	810VBN32T333BH000	9.6
2	2.00	50	63.8	55.1	0	125	8.6	125	8.6	-	-	30-145	2.1-10	125	1/4	810VBN32T350BH000	14.1
2	2.00	50	63.8	55.1	0	190	13.0	190	13.0	-	-	45-145	3.1-10	125	1/4	810VBN32T353BH000	14.4
2-1/2	2.56	65	107.9	93.3	0	75	5.0	75	5.0	-	-	45-145	3.1-10	125	1/4	810VBN40T350BH000 *	18.5
3	3.15	80	133.4	115.0	0	50	3.5	50	3.5	-	-	45-145	3.1-10	125	1/4	810VBN48T350BH000 *	23.1

316L	STAIN	LESS	STEEL	VALVES

Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	9		Pilot Pi	essure	Actu	ator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1) (2) (3) (4)	lbs
	inch	(mm)		(m ³ /h)		air, g	gases	water	, liquids	ste	eam			dia	bsp		
1/4	0.31	8	1.1	0.9	0	580	40.0	580	40.0	-	-	51-145	3.5-10	50	1/8	810VSN04T320BH000	2.2
3/8	0.39	10	1.9	1.6	0	580	40.0	580	40.0	-	-	51-145	3.5-10	50	1/8	810VSN06T320BH000	2.3
1/2	0.59	15	4.1	3.6	0	320	22.0	320	22.0	-	-	51-145	3.5-10	50	1/8	810VSN08T320BH000	2.4
3/4	0.78	20	9.2	8.0	0	190	13.0	190	13.0	-	-	65-145	4.5-10	50	1/8	810VSN12T320BH000	2.6
3/4	0.78	20	9.2	8.0	0	275	19.0	275	19.0	-	-	85-145	5.7-10	50	1/8	810VSN12T323BH000	2.8
1	1.00	25	17.4	15.0	0	85	5.8	85	5.8	-	-	65-145	4.5-10	50	1/8	810VSN16T320BH000	3.1
1	1.00	25	17.4	15.0	0	130	9.0	130	9.0	-	-	85-145	5.7-10	50	1/8	810VSN16T323BH000	3.3
1	1.00	25	18.6	16.0	0	320	22.0	320	22.0	-	-	51-145	3.5-10	80	1/4	810VSN16T330BH000	6.6
1-1/4	1.25	32	24.3	21.0	0	75	5.2	75	5.2	-	-	85-145	5.7-10	50	1/8	810VSN20T320BH000	4.0
1-1/4	1.25	32	27.8	24.0	0	175	12.1	175	12.1	-	-	51-145	3.5-10	80	1/4	810VSN20T330BH000	7.3
1-1/4	1.25	32	27.8	24.0	0	245	16.9	245	16.9	-	-	65-145	4.5-10	80	1/4	810VSN20T332BH000	7.5
1-1/4	1.25	32	27.8	24.0	0	320	22.0	320	22.0	-	-	85-145	5.7-10	80	1/4	810VSN20T333BH000	7.7
1-1/2	1.56	40	40.6	35.0	0	100	7.0	100	7.0	-	-	51-145	3.5-10	80	1/4	810VSN24T330BH000	7.9
1-1/2	1.56	40	40.6	35.0	0	145	10.0	145	10.0	-	-	65-145	4.5-10	80	1/4	810VSN24T332BH000	8.1
1-1/2	1.56	40	40.6	35.0	0	190	13.0	190	13.0	-	-	80-145	5.5-10	80	1/4	810VSN24T333BH000	8.3
1-1/2	1.56	40	40.6	35.0	0	220	15.2	220	15.2	-	-	30-145	2.1-10	125	1/4	810VSN24T350BH000	12.8
2	2.00	50	63.8	55.1	0	60	4.0	60	4.0	-	-	51-145	3.5-10	80	1/4	810VSN32T330BH000	9.2
2	2.00	50	63.8	55.1	0	110	7.6	110	7.6	-	-	80-145	5.5-10	80	1/4	810VSN32T333BH000	9.6
2	2.00	50	63.8	55.1	0	125	8.6	125	8.6	-	-	30-145	2.1-10	125	1/4	810VSN32T350BH000	14.1
2	2.00	50	63.8	55.1	0	190	13.0	190	13.0	-	-	45-145	3.1-10	125	1/4	810VSN32T353BH000	14.4
2-1/2	2.56	65	107.9	93.3	0	100	7.0	100	7.0	-	-	45-145	3.1-10	125	1/4	810VSN40T350BH000	18.5

Pressure ratings reflect standard product offering. Higher pressure ratings are available. Consult Parker.

- (1) Chrome Plated Brass Actuator Standard, Anodized Aluminum for 125mm housing
- (2) For BSP porting, change "N" to "G" in the 6th position
- (3) Optional Stainless Actuator, change "B" to "S" in the 13th position



Series 810 Operating Data: Normally Closed, Flow Direction Over Seat Recommended for steam and most gases

BRONZE / BRASS * BODY VALVES Pilot Pressure Valve Number Port Orifice Size Flow Coeff Operating Pressure Actuator Size psi bar bar bar Bronze (1) (2) lbs air, gases water, liquids steam (m³/h) (mm 1/2 0.59 15 4.1 3.6 232 16.0 210 14.5 40-145 2.8-10 50 1/8 810VBN08T120BH000 2.4 0.78 20 9.2 16.0 40-145 2.8-10 1/8 810VBN12T120BH000 8.0 14.5 810VBN16T120BH000 1 1.00 25 17.4 15.0 0 232 16.0 210 14.5 40-145 2.8-10 50 1/8 3.1 1-1/4 1.25 32 24.3 21.0 0 75 5.2 75 5.2 40-145 2.8-10 50 1/8 810VBN20T120BH000 4.0 1.25 32 27.8 24.0 0 232 16.0 80 1/4 810VBN20T130BH000 7.3 1-1/4 210 14.5 16-145 1.1-10 810VBN24T130BH000 1-1/2 1.56 40 40.6 35.0 0 232 16.0 210 14.5 16-145 1.1-10 80 1/4 7.9 55.1 1/4 50 810VBN32T130BH000 9.2 2 2.00 63.8 0 203 14.0 203 14.0 16-145 1.1-10 80 810VBN40T150BH000 2-1/2 2.56 65 107.9 93.3 0 175 12.1 175 12.1 8-145 0.6-10 125 1/4 18.5 115.0 9.0 8-145 810VBN48T150BH000

3	316L S	TAINLE	SS ST	EEL VA	LVES													
	Port	Orifice	Size	Flow	Coeff			Oper	rating F	ressure	Э		Pilot P	ressure	Actu	ator	Valve Number	Wt.
	Size		DN	Cv	Kv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1) (2) (3) (4)	lbs
		inch	(mm)		(m ³ /h)		air, g	gases	water,	liquids	ste	eam			dia	bsp		
	1/4	0.31	8	1.1	0.9	0	580	40.0	-	-	210	14.5	40-145	2.8-10	50	1/8	810VSN04T120BH000	2.2
	3/8	0.39	10	1.9	1.6	0	580	40.0	-	-	210	14.5	40-145	2.8-10	50	1/8	810VSN06T120BH000	2.3
	1/2	0.59	15	4.1	3.6	0	580	40.0	-	-	210	14.5	40-145	2.8-10	50	1/8	810VSN08T120BH000	2.4
	3/4	0.78	20	9.2	8.0	0	535	36.8	-	-	210	14.5	40-145	2.8-10	50	1/8	810VSN12T120BH000	2.6
	1	1.00	25	17.4	15.0	0	290	20.0	-	-	210	14.5	40-145	2.8-10	50	1/8	810VSN16T120BH000	3.1
	1	1.00	25	18.6	16.0	0	480	33.1	-	-	210	14.5	16-145	1.1-10	80	1/4	810VSN16T130BH000	6.6
	1-1/4	1.25	32	24.3	21.0	0	160	11.0	-	-	160	11.0	40-145	2.8-10	50	1/8	810VSN20T120BH000	4.0
	1-1/4	1.25	32	27.8	24.0	0	510	35.1	-	-	210	14.5	16-145	1.1-10	80	1/4	810VSN20T130BH000	7.3
	1-1/2	1.56	40	40.6	35.0	0	335	23.1	-	-	210	14.5	16-145	1.1-10	80	1/4	810VSN24T130BH000	7.9
	2	200	EΩ	620	EE 1	$I \cap I$	202	110	I		202	110	16 115	1 1 10	٥٥	1/1	040VCN33T430DU000	0.2

175 12.1 8-145

0.6-10 125

1/4

93.3 0 175 Pressure ratings reflect standard product offering. Higher pressure ratings are available. Consult Parker.

12.1

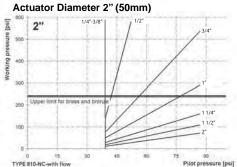
- Chrome Plated Brass Actuator Standard, Anodized Aluminum for 125mm housing
 - For BSP porting, change "N" to "G" in the 6th position

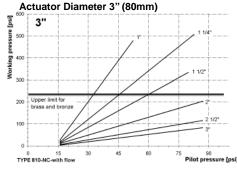
65 107.9

2-1/2 2.56

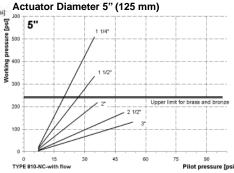
- Optional Stainless Actuator, change "B" to "S" in the 13th position
- For ultra-high temperature 430°F, 1/2" to 1-1/4"sizes only, see Ultra High Temperature tables

Control Pressure & Operating Pressure Charts





810VSN40T150BH000





Series 810 Operating Data: Normally Open, Flow Direction Under Seat

BRONZE / BRASS * BODY VALVES

DIVOIN		700	DOD1 47	<u> </u>													
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	9		Pilot Pr	ressure	Actu	ıator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Bronze (1) (2)	lbs
	inch	(mm)		(m ³ /h)		air, g	jases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	4.1	3.6	0	232	16.0	232	16.0	210	14.5	35-145	2.4-10	50	1/8	810VBN08T220BH000	2.4
3/4	0.78	20	9.2	8.0	0	232	16.0	232	16.0	210	14.5	45-145	3.1-10	50	1/8	810VBN12T220BH000	2.6
1	1.00	25	17.4	15.0	0	160	11.0	160	11.0	160	11.0	50-145	3.5-10	50	1/8	810VBN16T220BH000	3.1
1	1.00	25	18.6	16.0	0	232	16.0	232	16.0	210	14.5	20-145	1.4-10	80	1/4	810VBN16T230BH000	6.6
1-1/4	1.25	32	24.3	21.0	0	100	7.0	100	7.0	100	7.0	50-145	3.5-10	50	1/8	810VBN20T220BH000	4.0
1-1/4	1.25	32	27.8	24.0	0	232	16.0	232	16.0	210	14.5	20-145	1.4-10	80	1/4	810VBN20T230BH000	7.3
1-1/2	1.56	40	40.6	35.0	0	232	16.0	232	16.0	210	14.5	20-145	1.4-10	80	1/4	810VBN24T230BH000	7.9
2	2.00	50	63.8	55.1	0	190	13.0	190	13.0	190	13.0	20-145	1.4-10	80	1/4	810VBN32T230BH000	9.2
2-1/2	2.56	65	107.9	93.3	0	175	12.1	175	12.1	175	12.1	10-145	0.7-10	125	1/4	810VBN40T250BH000 ³	18.5
3	3.15	80	133.4	115.0	0	131	9.0	131	9.0	131	9.0	10-145	0.7-10	125	1/4	810VBN48T250BH000 *	23.1

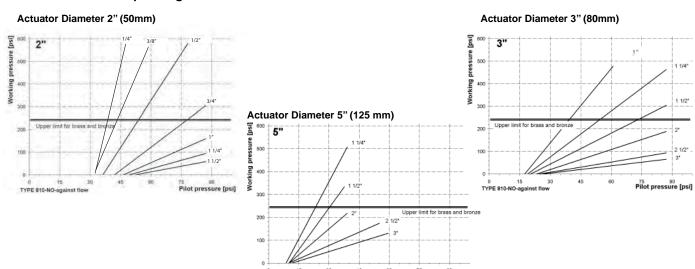
316L STAIN	LESS S1	TEEL V	'ALVES
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	IUL 3	IVIIAEE	33 31	CCL VAL	- V L J													
	Port	Orifice:	Size	Flow	Coeff			Oper	ating F	ressure	9		Pilot Pi	essure	Actu	ıator	Valve Number	Wt.
	Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1) (2) (3) (4)	lbs
		inch	(mm)		(m ³ /h)		air, g	gases	water,	liquids	ste	am			dia	bsp		
	1/4	0.31	8	1.1	0.9	0	580	40.0	580	40.0	210	14.5	35-145	2.4-10	50	1/8	810VSN04T220BH000	2.2
	3/8	0.39	10	1.9	1.6	0	580	40.0	580	40.0	210	14.5	35-145	2.4-10	50	1/8	810VSN06T220BH000	2.3
	1/2	0.59	15	4.1	3.6	0	580	40.0	580	40.0	210	14.5	35-145	2.4-10	50	1/8	810VSN08T220BH000	2.4
	3/4	0.78	20	9.2	8.0	0	305	21.0	305	21.0	210	14.5	45-145	3.1-10	50	1/8	810VSN12T220BH000	2.6
	1	1.00	25	17.4	15.0	0	160	11.0	160	11.0	160	11.0	50-145	3.5-10	50	1/8	810VSN16T220BH000	3.1
	1	1.00	25	18.6	16.0	0	480	33.1	480	33.1	210	14.5	20-145	1.4-10	80	1/4	810VSN16T230BH000	6.6
	1-1/4	1.25	32	24.3	21.0	0	100	7.0	100	7.0	100	7.0	50-145	3.5-10	50	1/8	810VSN20T220BH000	4.0
	1-1/4	1.25	32	27.8	24.0	0	460	31.7	460	31.7	210	14.5	20-145	1.4-10	80	1/4	810VSN20T230BH000	7.3
	1-1/2	1.56	40	40.6	35.0	0	305	21.0	305	21.0	210	14.5	20-145	1.4-10	80	1/4	810VSN24T230BH000	7.9
	2	2.00	50	63.8	55.1	o	190	13.0	190	13.0	190	13.0	20-145	1.4-10	80	1/4	810VSN32T230BH000	9.2
	2-1/2	2.56	65	107.9	93.3	l o l	175	12.1	175	12.1	175	12.1	10-145	0.7-10	125	1/4	810VSN40T250BH000	18.5

Pressure ratings reflect standard product offering. Higher pressure ratings are available. Consult Parker.

- (1) Chrome Plated Brass Actuator Standard, Anodized Aluminum for 125mm housing
- (2) For BSP porting, change "N" to "G" in the 6th position
- (3) Optional Stainless Actuator, change "B" to "S" in the 13th position
- (4) For ultra-high temperature 430°F, 1/2" to 1-1/4"sizes only, see Ultra High Temperature tables

Control Pressure & Operating Pressure Charts





Series 810 Operating Data: Ultra High Temp., Normally Closed, Flow Direction Under Seat- For control of fluids up to 430° F / 221° C

316L STAINLESS STEEL VALVES

Port	Orifice	Size	Flow	Coeff			Ope	ating F	ressure	9		Pilot Pi	ressure	Actu	uator	Valve Number	Wt.	ı
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1) (2) (3) (4)	lbs	ı
	inch	(mm)		(m ³ /h)		air, g	gases	water,	liquids	ste	am			dia	bsp			
1/4	0.31	80	1.1	0.9	0	380	26.1	380	26.1	-	-	85-145	5.8-10	50	1/8	810VSN04P320BU000	2.6	ı
1/2	0.59	15	4.1	3.6	0	380	26.1	380	26.1	-	-	85-145	5.8-10	50	1/8	810VSN08P320BU000	2.6	ı
3/4	0.78	20	10.4	9.0	0	360	24.8	360	24.8	-	-	51-145	3.5-10	80	1/8	810VSN12P330BU000	4.2	ı
1	1.00	25	19.7	17.1	0	250	17.2	250	17.2	-	-	51-145	3.5-10	80	1/4	810VSN16P330BU000	6.8	1
1-1/4	1,25	32	32.5	28.1	0	175	12.0	175	12.0	_	_	80-145	5.5-10	80	1/4	810VSN20P330BU000	7.5	1

Series 810 Operating Data: Ultra High Temp., Normally Closed, Flow Direction Over Seat- For control of fluids up to 430° F / 221° C

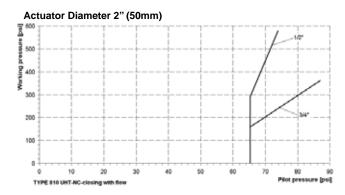
316L STAINLESS STEEL VALVES

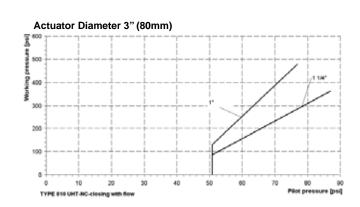
Port	Orifice :	Size	Flow	Coeff			Oper	ating F	ressure	•		Pilot Pi	ressure	Actu	ıator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1) (2) (3) (4)	lbs
	inch	(mm)		(m ³ /h)		air, g	jases	water,	liquids	ste	am			dia	bsp		
1/4	0.31	80	1.1	0.9	0	580	40.0	-	-	330	22.7	65-145	4.5-10	50	1/8	810VSN04P120BU000	2.6
1/2	0.59	15	4.1	3.6	0	580	40.0	-	-	330	22.7	65-145	4.5-10	50	1/8	810VSN08P120BU000	2.6
3/4	0.78	20	10.4	9.0	0	360	24.8	-	-	330	22.7	65-145	4.5-10	50	1/8	810VSN12P120BU000	2.9
1	1.00	25	19.7	17.1	0	475	32.7	-	-	330	22.7	51-145	3.5-10	80	1/4	810VSN16P130BU000	6.8
1-1/4	1.25	32	32.5	28.1	0	360	24.8	-	-	330	22.7	51-145	3.5-10	80	1/4	810VSN20P130BU000	7.5

Pressure ratings reflect standard product offering. Higher pressure ratings are available. Consult Parker.

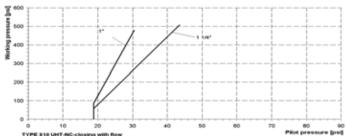
- (1) Chrome Plated Brass Actuator Standard, Anodized Aluminum for 125mm housing
- (2) For BSP porting, change "N" to "G" in the 6th position
- (3) Optional Stainless Actuator, change "B" to "S" in the 13th position
- 4) For ultra high temperature stainless valves, seal material changes from PTFE to PEEK.

Control Pressure & Operating Pressure Charts



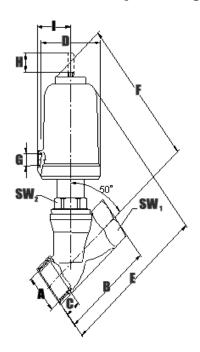


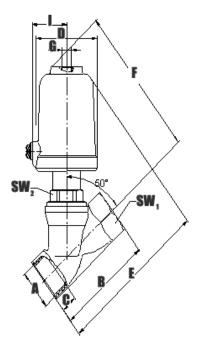
Actuator Diameter 5" (125 mm)

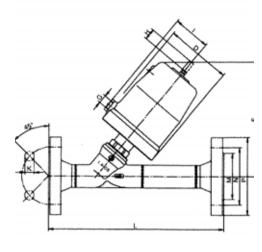




Series 810 Operating Data: Dimensions and Weights







Normally Closed

Normally Open

Flanged Version

Α	Actuator	DN	В	3	С	D			F	G	Н	1	SW	/1	SW2	Cv-va	lues	Wei	ight
Pipe Size	Diameter																		
NPT	mm																		
			Bronze	Brass			Bronze	Brass			stroke		Bronze	Brass		Bronze	Brass	lbs.	Kg.
			SST				SST						SST			SST			<u> </u>
1/4"	50	08	2.35	-	0.45	2.45	5.10	-	4.85	G1/8	0.33	1.35	0.80	-	1.20	1.1	-	2.2	1.0
3/8"	50	10	2.35	-	0.45	2.45	5.10	-	4.85	G1/8	0.35	1.35	0.90	-	1.20	1.9	•	2.3	1.0
1/2"	50	15	2.55	-	0.60	2.45	5.30	-	4.70	G1/8	0.28	1.35	1.00	-	1.20	4.1	-	2.4	1.1
3/4"	50	20	2.95	-	0.65	2.45	5.30	-	4.90	G1/8	0.47	1.35	1.20	-	1.20	9.2	-	2.6	1.2
1"	50	25	3.55	-	0.75	2.45	5.70	-	5.10	G1/8	0.63	1.35	1.55	-	1.20	17.3	-	3.1	1.4
1"	80	25	3.55	-	0.75	3.80	7.30	-	6.70	G1/4	0.63	2.15	1.55	-	1.20	18.5	-	6.6	3.0
1-1/4"	50	32	4.35	-	0.85	2.45	6.30	-	5.70	G1/8	0.63	1.35	1.90	-	1.20	24.3	-	4.0	1.8
1-1/4"	80	32	4.35	-	0.85	3.80	7.85	-	7.50	G1/4	0.79	2.15	1.90	-	1.20	27.7	-	7.3	3.3
1-1/4"	125	32	4.35	-	0.85	5.75	9.05	-	8.45	G1/4	0.79	3.15	1.90	-	1.20	28.0	-	12.1	5.5
1-1/2"	50	40	4.70	-	0.85	2.45	6.50	-	5.90	G1/8	0.63	1.35	2.15	-	1.20	35.0	-	4.6	2.1
1-1/2"	80	40	4.70	-	0.85	3.80	8.05	-	7.70	G1/4	0.91	2.15	2.15	-	1.20	40.4	-	7.9	3.6
1-1/2"	125	40	4.70	-	0.85	5.75	9.25	-	8.65	G1/4	0.91	3.15	2.15	-	1.20	40.4	-	12.8	5.8
2"	50	50	5.90	-	1.00	2.45	7.30	-	6.30	G1/8	0.63	1.35	2.70	-	1.25	46.0	-	5.9	2.7
2"	80	50	5.90	-	1.00	3.80	8.85	-	7.85	G1/4	1.14	2.15	2.70	-	1.25	63.5	-	9.2	4.2
2"	125	50	5.90	-	1.00	5.75	9.85	-	8.85	G1/4	1.14	3.15	2.70	-	1.25	63.5	-	14.1	6.4
2-1/2"	80	65	-	7.10	1.20	3.80	-	10.25	8.25	G1/4	1.14	2.15	-	3.35	1.60	-	107	13.6	6.2
2-1/2"	125	65	-	7.10	1.20	5.75	-	11.20	9.45	G1/4	1.14	3.15	-	3.35	1.60	-	107	18.5	8.4
3"	80	80	-	8.25	1.30	3.80	-	11.00	8.85	G1/4	1.14	2.15	-	3.95	1.60	-	133	18.3	8.3
3"	125	80	-	8.25	1.30	5.75	-	12.00	9.85	G1/4	1.14	3.15	-	3.95	1.60	-	133	23.1	10.5

Dimension and Weights for High Temperature

A Pipe Size NPT	Actuator Diameter mm	DN	В	С	D	E	F	G	Н	ı	SW1	SW2	Cv- values	Wei	ght
			SST			SST			stroke		SST		SST	lbs.	Kg.
1/4"	50	08	2.35	0.45	2.45	5.10	5.60	G1/8	0.33	1.35	0.80	1.20	1.1	2.2	1.0
1/2"	50	15	2.55	0.60	2.45	5.30	5.47	G1/8	0.28	1.35	1.00	1.20	4.1	2.6	1.2
3/4"	50	20	2.95	0.65	2.45	5.30	5.67	G1/8	0.47	1.35	1.20	1.20	9.3	2.9	1.3
3/4"	80	20	2.95	0.65	3.80	7.30	7.13	G1/4	0.47	1.35	1.20	1.20	9.3	4.2	1.9
1"	50	25	3.55	0.75	2.45	5.70	7.28	G1/8	0.63	1.35	1.55	1.20	17.4	6.8	3.1
1"	80	25	3.55	0.75	3.80	7.30	8.47	G1/4	0.63	2.15	1.55	1.20	18.6	11.7	5.3
1-1/4"	80	32	4.35	0.85	3.80	7.85	7.92	G1/4	0.79	2.15	1.90	1.20	24.4	7.5	5.4
1-1/4"	125	32	4.35	0.85	5.75	9.05	9.10	G1/4	0.79	3.15	1.90	1.20	27.8	12.3	5.6

Dimension and Weights for Flanged

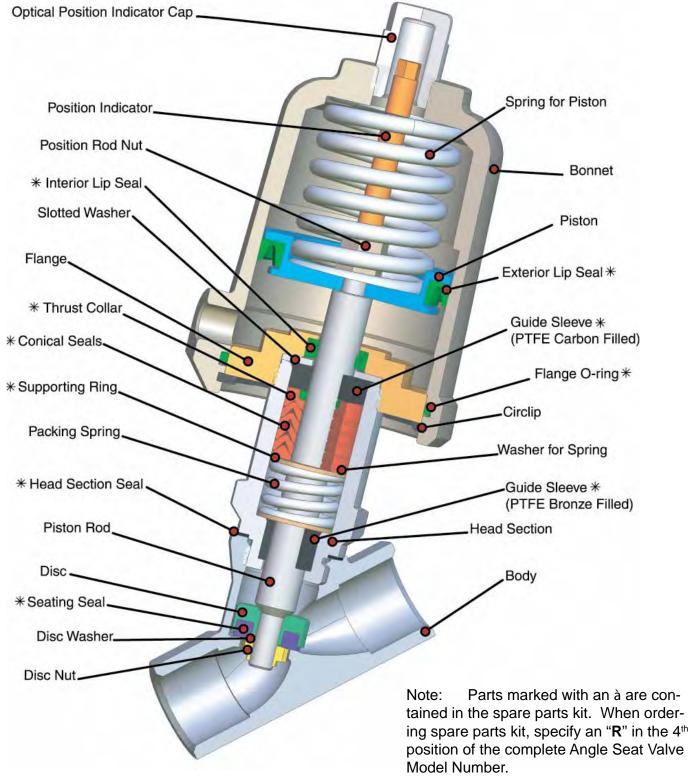
Α	Actuator	DN	М	N	Р	F	K	L	D	Wei	ight
Pipe Size NPT	Diameter mm								No. of drillings	lbs.	Kg.
1/2"	50	15	2.38	3.50	2.45	4.90	0.55	9.05	4	6.0	2.7
3/4"	50	20	2.75	3.88	2.45	4.90	0.55	10.25	4	7.5	3.4
1"	50	25	3.12	4.25	2.45	5.10	0.55	10.25	4	9.0	4.1
1"	80	25	3.12	4.25	3.80	6.70	0.55	10.25	4	12.6	5.7
1-1/4"	50	32	3.50	4.62	2.45	5.70	0.70	11.80	4	12.6	5.7
1-1/4"	80	32	3.50	4.62	3.80	7.30	0.70	11.80	4	15.9	7.2
1-1/4"	125	32	3.50	4.62	5.75	8.45	0.70	11.80	4	20.7	9.4
1-1/2"	50	40	3.88	5.00	2.45	5.90	0.70	11.80	4	14.1	6.4
1-1/2"	80	40	3.88	5.00	3.80	7.50	0.70	11.80	4	17.4	7.9
1-1/2"	125	40	3.88	5.00	5.75	8.65	0.70	11.80	4	22.1	10.0
2"	50	50	4.75	6.00	2.45	6.30	0.70	13.80	4	19.0	8.6
2"	80	50	4.75	6.00	3.80	7.70	0.70	13.80	4	22.3	10.1
2"	125	50	4.75	6.00	5.75	8.85	0.70	13.80	4	27.6	12.5

Dimension in inches except as noted

Parker

Series 810: 2 Way Angle Body Valves: 1/4" to 3" NPT

Series 810 Typical Cross Section Drawing







FEATURES

- Working pressures up to 232 psi
- Visual position indicator
- Compact design
- Temperatures from -22°F to 392°F
- Mountable in any position
- Tight shut-off and long service life
- Versatile actuator options
- Actuator and valve components fully repairable

Technical Specifications

Body Material	Bronze Rg5	AISI 316L
Functions	Distributing, Mixing, Norma ll y Closed, Normally Open	Distributing, Mixing, Normally Open
Nominal sizes	1/2" - 1-1/2 "	1/2" - 1-1/2 "
Connections: NPT thread standard BSP thread (ISO228/1)	1/2" - 1-1/2 "	1/2" - 1-1/2 "
Differential Pressure	See Specifications tables	See Specifications tables
Pilot Pressure	up to 145 psi (10bar) reference graphs	up to 145 psi (10bar) reference graphs
Actuator:	2" & 3" brass plated, 5" aluminum anodized	2" & 3" brass plated, 5" aluminum anodized
Max, fluid temperature	-22°F (-30°C) up to 392°F (200°C)	-22°F (-30°C) up to 392°F (200°C)
Max. ambient temperature	-22°F (-30°C) up to 140°F (60°C)	-22°F (-30°C) up to 140°F (60°C)
Seal Material	PTFE	PTFE
Packing Gland	PTFE / Graphite	PTFE / Graphite
Viscosity of the fluid	max.600 mm²/s (600cSt, 80°E, 2700SSU)	max.600 mm²/s (600cSt, 80°E, 2700SSU)
Vacuum	maximum 0.0295 mercury (Hg)	maximum 0.0295 mercury (Hg)
Working pressure for inverted packing for vacuum service	maximum 175 psi	maximum 175 psi
Leakage	ANSI Class VI shutoff	ANSI Class VI shutoff
Installation	Any position	Any position
Pilot Control Media	Air, neutral gas, water	Air, neutral gas, water
Fluids	Inert gases, hot water, oils, & slightly aggressive fluids	Inert gases, hot water, oils, & aggressive fluids
Optical Position Indicator	Standard	Standard

Options

- Electrical position indicators
 - Inductive proximity switches
 - Mechanical limit switches
 - Manual override



Bronze Valve Operating Data

BRONZ	E BO	DY VAI	LVES											DISTE	RIBUTI	NG VALVE DATA (pilot option	#3)
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure)		Pilot Pr	essure	Actu	ator	Valve Number	Wt.
Size		DN	Cv	Kv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Bronze (1)	lbs
	inch	(mm)		(m ³ /h)		air, g	jases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	6.1	5.3	0	80	5.5	80	5.5	-		45-145	3.1-10	50	1/8	880VBN08T320BH000	3.3
1/2	0.59	15	6.1	5.3	0	232	16.0	232	16.0	-	-	35-145	2.4-10	80	1/4	880VBN08T330BH000	6.8
3/4	0.78	20	8.5	7.4	0	80	5.5	80	5.5	-	-	45-145	3.1-10	50	1/8	880VBN12T320BH000	3.3
3/4	0.78	20	8.5	7.4	0	232	16.0	232	16.0	-	-	35-145	2.4-10	80	1/4	880VBN12T330BH000	6.8
1	1.00	25	14.3	12.4	0	48	3.3	48	3.3	-	-	50-145	3.5-10	50	1/8	880VBN16T320BH000	4.2
1	1.00	25	14.3	12.4	0	160	11.0	160	11.0	-	-	35-145	2.4-10	80	1/4	880VBN16T330BH000	7.7
1	1.00	25	14.3	12.4	0	232	16.0	232	16.0	-	-	25-145	1.7-10	125	1/4	880VBN16T350BH000	12.3
1-1/4	1.25	32	23.2	20.2	0	58	4.0	58	4.0	-	-	45-145	3.1-10	80	1/4	880VBN20T330BH000	10.6
1-1/4	1.25			32-145	2.2-10	125	1/4	880VBN20T350BH000	14.8								
1-1/2	1.56	40	26.7	23.2	0	58	4.0	58	4.0	-	-	45-145	3.1-10	80	1/4	880VBN24T330BH000	10.6
1-1/2	1.56	40	26.7	23.2	0	160	11.0	160	11.0	-	-	32-145	2.2-10	125	1/4	880VBN24T350BH000	14.8

BRONZ	E BOI	DY VA	LVES											MIXIN	G VAL	VE DATA (pilot option #4)	
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	Э		Pilot Pi	ressure	Actu	uator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Bronze (1)	lbs
	inch	(mm)		(m ³ /h)		air, ç	jases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	6.1	5.3	0	50	3.4	50	3.4	-	-	65-145	4.5-10	50	1/8	880VBN08T420BH000	3.3
1/2	0.59	15	6.1	5.3	0	232	16.0	232	16.0	-	-	60-145	4.2-10	80	1/4	880VBN08T430BH000	6.8
3/4	0.78	20	8.5	7.4	0	50	3.4	50	3.4	-	-	65-145	4.5-10	50	1/8	880VBN12T420BH000	3.3
3/4	0.78	20	8.5	7.4	0	232	16.0	232	16.0	-	-	60-145	4.2-10	80	1/4	880VBN12T430BH000	6.8
1	1.00	25	14.3	12.4	0	20	1.4	20	1.4	-	-	65-145	4.5-10	50	1/8	880VBN16T420BH000	4.2
1	1.00	25	14.3	12.4	0	140	9.6	140	9.6	-	-	65-145	4.5-10	80	1/4	880VBN16T430BH000	7.7
1	1.00	25	14.3	12.4	0	232	16.0	232	16.0	-	-	45-145	3.1-10	125	1/4	880VBN16T450BH000	12.3
1-1/4	1.25	32	23.2	20.2	0	60	4.1	60	4.1	-	-	75-145	5.2-10	80	1/4	880VBN20T430BH000	10.6
1-1/4	1.25	32	23.2	20.2	0	131	9.0	131	9.0	-	-	50-145	3.5-10	125	1/4	880VBN20T450BH000	14.8
1-1/2	1.56	40	26.7	23.2	0	60	4.1	60	4.1	-	-	75-145	5.2-10	80	1/4	880VBN24T430BH000	10.6
1-1/2	1.56	40	26.7	23.2	0	131	9.0	131	9.0	-	-	50-145	3.5-10	125	1/4	880VBN24T450BH000	14.8

BRONZ	ZE BO	DY VA	LVES										NORMAL	LY CL	OSED	VALVE DATA (pilot option #5)	
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	Э		Pilot P	ressure	Actu	ator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Bronze (1)	lbs
	inch	(mm)		(m ³ /h)		air, g	jases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	6.1	5.3	0	232	16.0	232	16.0	-	-	42-145	2.9-10	50	1/8	880VBN08T520BH000	3.3
3/4	0.78	20	8.5	7.4	0	232	16.0	232	16.0	-	-	42-145	2.9-10	50	1/8	880VBN12T520BH000	3.3
1	1.00	25	14.3	12.4	0	175	12.1	175	12.1	-	-	45-145	3.1-10	50	1/8	880VBN16T520BH000	4.2
1	1.00	25	14.3	12.4	0	232	16.0	232	16.0	-	-	18-145	1.3-10	80	1/4	880VBN16T530BH000	7.7
1-1/4	1.25	32	23.2	20.2	0	220	15.2	220	15.2	-	-	18-145	1.3-10	80	1/4	880VBN20T530BH000	10.6
1-1/4			-	6-145	0.4-10	125	1/4	880VBN20T550BH000	14.8								
1-1/2	1.56	40	26.7	23.2	0	220 15.2 220 15		15.2	-	-	18-145	1.3-10	80	1/4	880VBN24T530BH000	10.6	
1-1/2	1.56	40	26.7	23.2	0	232	16.0	232	16.0	-	-	6-145	0.4-10	125	1/4	880VBN24T550BH000	14.8

BRONZ	E BOI	DY VA	LVES										NORMAL	LY OP	EN VA	LVE DATA (pilot option #6)	
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	Э		Pilot P	ressure	Actu	ator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Bronze (1)	lbs
	inch	(mm)		(m ³ /h)		air, ç	jases	water,	liquids	ste	eam			dia	bsp		
1/2	0.59	15	6.1	5.3	0	175	12.1	175	12.1	-	-	44-145	3.0-10	50	1/8	880VBN08T620BH000	3.3
1/2	0.59	15	6.1	5.3	0	232	16.0	232	16.0	-	-	18-145	1.3-10	80	1/4	880VBN08T630BH000	6.8
3/4	0.78	20	8.5	7.4	0	175	12.1	175	12.1	-	-	44-145	3.0-10	50	1/8	880VBN12T620BH000	3.3
3/4	0.78	20	8.5	7.4	0	232	16.0	232	16.0	-	-	18-145	1.3-10	80	1/4	880VBN12T630BH000	6.8
1	1.00	25	14.3	12.4	0	105	7.2	105	7.2	-	-	45-145	3.1-10	50	1/8	880VBN16T620BH000	4.2
1	1.00	25	14.3	12.4	0	232	16.0	232	16.0	-	-	18-145	1.3-10	80	1/4	880VBN16T630BH000	7.7
1-1/4	1.25	32	23.2	20.2	0	185	12.7	185	12.7	-	-	22-145	1.5-10	80	1/4	880VBN20T630BH000	10.6
1-1/4	1.25	32	23.2	20.2	0	232	16.0	232	16.0	-	-	8-145	0.6-10	125	1/4	880VBN20T650BH000	14.8
1-1/2	1.56	40	26.7	23.2	0	185	12.7	185	12.7	-	-	22-145	1.5-10	80	1/4	880VBN24T630BH000	10.6
1-1/2	1.56	40	26.7	23.2	0	232	16.0	232	16.0	-	-	8-145	0.6-10	125	1/4	880VBN24T650BH000	14.8

⁽¹⁾ Chrome Plated Brass Actuator Standard, Anodized Aluminum for 125mm housing



Stainless Steel Valve Operating Data

316 ST	AINLES	S BO	DY VAL	VES										DISTE	RIBUTI	NG VALVE DATA (pilot option	#3)
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	Э		Pilot Pi	ressure	Actu	uator	Valve Number	Wt.
Size		DΝ	Cv	Kv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1)	lbs
	inch	(mm)		(m ³ /h)		air, g	gases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	6.1	5.3	0	130	9.0	130	9.0	-	-	55-145	3.8-10	50	1/8	880VSN08T320BH000	3.3
1/2	0.59	15	6.1	5.3	0	390	27.0	390	27.0	-	-	45-145	3.1-10	80	1/4	880VSN08T330BH000	6.8
3/4	0.78	20	8.5	7.4	0	130	9.0	130	9.0	-	-	55-145	3.8-10	50	1/8	880VSN12T320BH000	3.3
3/4	0.78	20	8.5	7.4	0	320	27.0	320	27.0	-	-	45-145	3.1-10	80	1/4	880VSN12T330BH000	6.8
1	1.00	25	14.3	12.4	0	60	4.1	60	4.1	-	-	68-145	4.7-10	50	1/8	880VSN16T320BH000	4.2
1	1.00	25	14.3	12.4	0	220	15.1	220	15.1	-	-	45-145	3.1-10	80	1/4	880VSN16T330BH000	7.7
1	1.00	25	14.3	12.4	0	390	27.0	390	27.0	-	-	29-145	2.0-10	125	1/4	880VSN16T352BH000	12.3
1-1/4	1.25	32	23.2	20.2	0	155	10.7	155	10.7	-	-	45-145	3.1-10	80	1/4	880VSN20T330BH000	10.6
1-1/4	1.25	32	23.2	20.2	0	260	18.0	260	18.0	-	-	32-145	2.2-10	125	1/4	880VSN20T352BH000	14.8
1-1/2	1.56	40	26.7	23.2	0	80	5.5	80	5.5	-	-	52-145	3.6-10	80	1/4	880VSN24T330BH000	
1-1/2	1.56	40	26.7	23.2	0	160	11.0	160	11.0	l -	_	32-145	2.2-10	125	1/4	880VSN24T352BH000	14.8

316 ST	AINLES	ѕ во	DY VAL	/ES										MIXIN	G VAL	.VE DATA (pilot option #4)	
Port	Orifice	Size	Flow	Coeff			Oper	ating F	ressure	Э		Pilot Pi	essure	Actu	ıator	Valve Number	Wt.
Size		DN	Cv	Κv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1)	lbs
	inch	(mm)		(m ³ /h)		air, g	ases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	6.1	5.3	0	50	3.4	50	3.4	-	-	57-145	3.9-10	50	1/8	880VSN08T420BH000	3.3
1/2	0.59	15	6.1	5.3	0	290	20.0	290	20.0	-	-	45-145	3.1-10	80	1/4	880VSN08T430BH000	6.8
3/4	0.78	20	8.5	7.4	0	50	3.4	50	3.4	-	-	57-145	3.9-10	50	1/8	880VSN12T420BH000	3.3
3/4	0.78	20	8.5	7.4	0	290	20.0	290	20.0	-	-	45-145	3.1-10	80	1/4	880VSN12T430BH000	6.8
1	1.00	25	14.3	12.4	0	20	1.4	20	1.4	-	-	60-145	4.2-10	50	1/8	880VSN16T420BH000	4.2
1	1.00	25	14.3	12.4	0	160	11.0	160	11.0	-	_	45-145	3.1-10	80	1/4	880VSN16T430BH000	7.7
1	1.00	25	14.3	12.4	0	350	24.0	350	24.0	-	_	29-145	2.0-10	125	1/4	880VSN16T452BH000	12.3
1-1/4	1.25	32	23.2	20.2	0	110	7.6	110	7.6	-	_	50-145	3.6-10	80	1/4	880VSN20T430BH000	10.6
1-1/4	1.25	32	23.2	20.2	0	232	16.0	232	16.0	-	_	35-145	2.3-10	125	1/4	880VSN20T452BH000	14.8
1-1/2	1.56	40	26.7	23.2	0	60	4.1	60	4.1	-	-	50-145	3.6-10	80	1/4	880VSN24T430BH000	10.6
1-1/2	1.56	40	26.7	23.2	0	115	8.0	115	8.0	-	_	35-145	2.3-10	125	1/4	880VSN24T452BH000	14.8

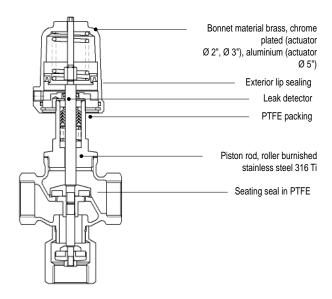
316 ST	AINLES	S BOI	DY VAL	VES									NORMAL	LY OP	EN VA	LVE DATA (pilot option #6)	
Port	Orifice:	Size	Flow	Coeff			Oper	ating F	ressure	9		Pilot Pi	ressure	Actu	uator	Valve Number	Wt.
Size		DN	Cv	Kv	Min	psi	bar	psi	bar	psi	bar	psi	bar	mm	port	Stainless (1)	Ibs
	inch	(mm)		(m ³ /h)		air, ç	jases	water,	liquids	ste	am			dia	bsp		
1/2	0.59	15	6.1	5.3	0	175	12.0	175	12.0	-	-	45-145	3.3-10	50	1/8	880VSN08T620BH000	3.3
1/2	0.59	15	6.1	5.3	0	580	40.0	580	40.0	-	-	18-145	1.3-10	80	1/4	880VSN08T630BH000	6.8
3/4	0.78	20	8.5	7.4	0	175	12.0	175	12.0	-	-	45-145	3.3-10	50	1/8	880VSN12T620BH000	3.3
3/4	0.78	20	8.5	7.4	0	580	40.0	580	40.0	-	-	18-145	1.3-10	80	1/4	880VSN12T630BH000	6.8
1	1.00	25	14.3	12.4	0	100	7.0	100	7.0	-	-	50-145	3.4-10	50	1/8	880VSN16T620BH000	4.2
1	1.00	25	14.3	12.4	0	390	27.0	390	27.0	-	-	18-145	1.3-10	80	1/4	880VSN16T630BH000	7.7
1-1/4	1.25	32	23.2	20.2	0	232	16.0	232	16.0	-	-	20-145	1.4-10	80	1/4	880VSN20T630BH000	10.6
1-1/2	1.56	40	26.7	23.2	0	150	10.3	150	10.3	-	-	20-145	1.4-10	80	1/4	880VSN24T630BH000	14.8

⁽¹⁾ Chrome Plated Brass Actuator Standard, Anodized Aluminum for 125mm housing

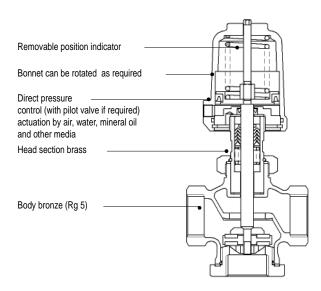


How the Valve Functions

Normal function, normally closed

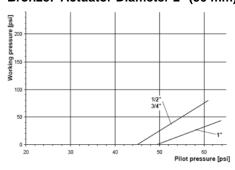


Distributing and mixing function

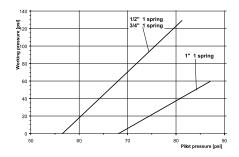


Distributing Function (Pilot Option #3)

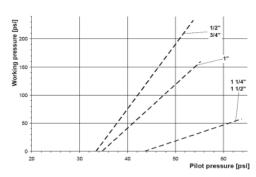
Bronze: Actuator Diameter 2" (50 mm)



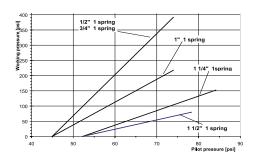
Stainless Steel: Actuator Diameter 2" (50 mm)



Bronze: Actuator Diameter 3" (80 mm)

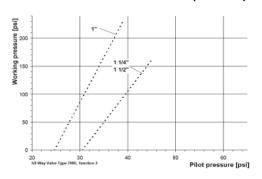


Stainless Steel: Actuator Diameter 3" (80 mm)

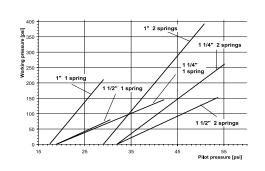


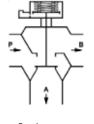
Distributing Function (Pilot Option #3)

Bronze: Actuator Diameter 5" (125 mm)



Stainless Steel: Actuator Diameter 5" (125 mm)



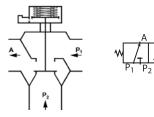




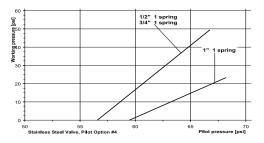
Mixing Function (Pilot Option #4)

Bronze: The valve may be used up to the nominal pressure of 232 psi, if the difference pressure between P1 and P2 does not exceed the admissible maximum value of Δ Pmax.

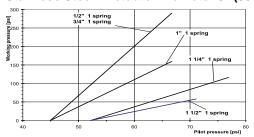
Size	P _{max}	Pilot pressure	Actuator
	psi	psi	inch
1/2"	0 - 50	65 - 145	2"
1/2"	0 - 232	60 - 90	3"
3/4"	0 - 50	65 - 145	2"
3/4"	0 - 232	60 - 90	3"
1"	0 - 20	65 - 145	2"
1"	0 - 140	65 - 90	3"
1"	0 - 232	45 - 50	5"
1 1/4"	0 - 60	75 - 130	3"
1 1/4"	0 - 130	50 - 75	5"
1 1/2"	0 - 60	75 - 130	3"
1 1/2"	0 - 130	50 - 75	5"



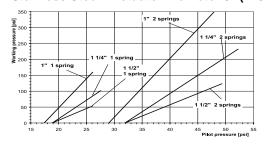
Stainless Steel: Actuator Diameter 2" (50 mm)



Stainless Steel: Actuator Diameter 3" (80 mm)



Stainless Steel: Actuator Diameter 5" (125 mm)

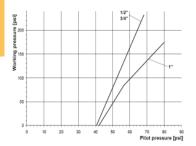


-Parker

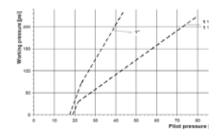
Series 880: 3 Way Angle Body Valves: 1/2" to 1-1/2" NPT

BRONZE: Normally Closed Function (Pilot Option #5)

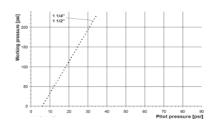
Actuator diameter 2" (50 mm)

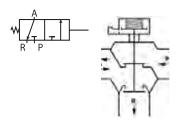


Actuator diameter 3" (80 mm)



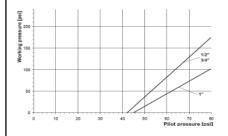
Actuator diameter 5" (125 mm)



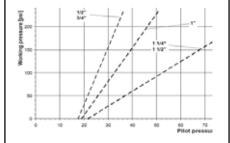


BRONZE: Normally Open Function (Pilot Option #6)

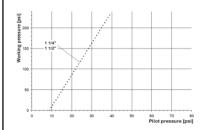
Actuator diameter 2" (50 mm)

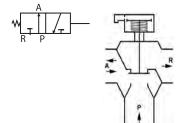


Actuator diameter 3" (80 mm)



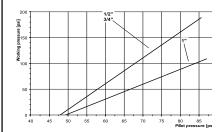
Actuator diameter 5" (125 mm)



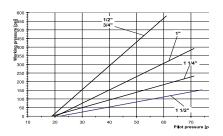


STAINLESS STEEL: Normally Open Function (Pilot Option #6)

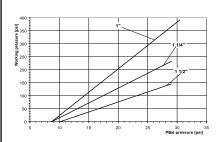
Actuator diameter 2" (50 mm)



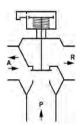
Actuator diameter 3" (80 mm)



Actuator diameter 5" (125 mm)

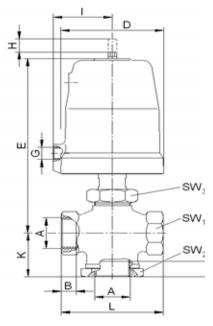


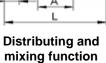


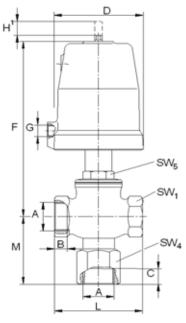




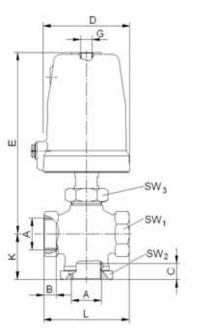
Dimensions and Weights: Body with Threaded Ends







Normal function, normally closed



Normal function, normally open

Α	Actuator	DN	В	С	D	E	F	G	Н	ı	J	K	L	М	SW1	SW2	SW3	SW4	SW5	Cv	Wei	ght
Pipe Size	Diameter								stroke		stroke											
NPT	mm																					
																					lbs.	Kg.
1/2"	50	15	0.50	0.60	2.45	6.00	5.80	G 1/8"	0.35	1.35	0.20	1.55	3.15	2.70	1.30	1.60	1.60	1.40	1.20	6.1	3.3	1.5
1/2"	80	15	0.50	0.60	3.85	7.50	7.30	G 1/4"	0.35	2.15	0.20	1.55	3.15	2.70	1.30	1.60	1.60	1.40	1.20	6.1	6.8	3.1
3/4"	50	20	0.50	0.60	2.45	6.00	5.80	G 1/8"	0.35	1.35	0.20	1.65	3.15	2.70	1.30	1.60	1.60	1.40	1.20	8.5	3.3	1.5
3/4"	80	20	0.50	0.60	3.85	7.50	7.30	G 1/4"	0.35	2.15	0.20	1.65	3.15	2.70	1.30	1.60	1.60	1.40	1.20	8.5	6.8	3.1
1"	50	25	0.55	0.70	2.45	6.00	6.50	G 1/8"	0.43	1.35	0.31	1.85	3.75	2.85	1.60	2.15	1.60	1.60	1.20	14.3	4.2	1.9
1"	80	25	0.55	0.70	3.85	7.50	8.05	G 1/4"	0.43	2.15	0.31	1.85	3.75	2.85	1.60	2.15	1.60	1.60	1.20	14.3	7.7	3.5
1"	125	25	0.55	0.70	5.75	8.45	9.00	G 1/4"	0.43	3.15	0.31	1.85	3.75	2.85	1.60	2.15	1.60	1.60	1.20	14.3	12.3	5.6
1-1/4"	80	32	0.70	0.75	3.85	8.20	8.30	G 1/4"	0.73	2.15	0.35	2.40	5.20	3.65	2.30	2.95	1.60	2.15	1.25	23.2	10.6	4.8
1-1/4"	125	32	0.70	0.75	5.75	9.15	9.25	G 1/4"	0.73	3.15	0.35	2.40	5.20	3.65	2.30	2.95	1.60	2.15	1.25	23.2	14.8	6.7
1-1/2"	80	40	0.70	0.75	3.85	8.20	8.30	G 1/4"	0.73	2.15	0.35	2.40	5.20	3.65	2.30	2.95	1.60	2.15	1.25	26.7	10.6	4.8
1-1/2"	125	40	0.70	0.75	5.75	9.15	9.25	G 1/4"	0.73	3.15	0.35	2.40	5.20	3.65	2.30	2.95	1.60	2.15	1.25	26.7	14.8	6.7

810/880 Series Valve Ordering

	1.	Series	2	Configuration	3.	Body Material	4	Connection Type	5.	Port /	Orifice	6.	Seal Material	7	Pilot Function
L										Inche	s / DN				
		810	٧	Valve Assembly	В	Bronze & Brass	Ν	NPT-thread	04	1/4"	DN08	Т	PTFE		For 810 Valve Series
		880	Α	Actuator Unit less	S	Stainless Steel 316L	G	BSP- ISO	06	3/8"	DN10	Ρ	PEEK	1	NC (closing with flow -
				Body											over seat)
			R	Repair Kit			Α	Weld Ends - ISO	08	1/2"	DN15			2	NO (closing against flow
															under seat)
							С	ANSI Flanges 150#	12	3/4"	DN20			3	NC (closing against flow -
															under seat)
							E	Tube Ends	16	1"	DN25		Consult factory for other	4	Universal, double acting
													seal materials		
							Т	Tri Clamp inch	20	1-1/4"	DN32				
								(ASME 1998)							
									24	1-1/2"	DN40				For 880 Valve Series
									32	2'	DN50			3	Distributing Valve
									40	2-1/2"	DN65			4	Mixing Valve
									48	3"	DN80			5	Normally Closed Valve
														6	Normally Open Valve

8	Actuator	9.	Springs	10.	Actuator Head	11.	Temperature Version	12	Packing	13	Accessories	14	Additional
2	Piston 2" (50mm)	0	Standard	В	Material Brass Plated, Alum Anodized for 5" size	Н	High Temperature standard (392°F / 200°C) (bronze, stainless steel)	0	Standard - PTFE Graphite Filled		No accessories Electrical position indicator with single switch	-	No additional accessories
3	Piston 3" (80mm)	2	2 springs	S	Stainless Steel 316 (Option for stainless body valves only)	U	Ultra High Temperature (430°F stainless steel	1	PTFE free	2	Electrical position indicator with double switches	1	Pilot Valve .078 (DN2) 120/60, 110/50 DIN coil
5	Piston 5" (125mm)	3	3 springs			L	Low Temperature (-40°F / -40°C)	2	Inverted packing for Vacuum Service only	5 6 7 8 9	Manual overide (N.C.) Stroke limitation(N.C.) Electrical position indicator compact Position indicator with 2 proximity switches Position indicator with 1 proximity switch Proximity position indicator compact ASI BUS (IP65)	3 4 5	Pilot Valve .078 (DN2) 240/60, 220/50 DIN coil Pilot Valve .078 (DN2) 24/60 DIN coil Pilot Valve .078 (DN2) 24/DC DIN coil Pilot Valve .078 (DN2) 12VDC DIN coil Silicone Free Oxygen Service



Accessories Selections

Numerous accessory options can be ordered and assembled to on-off pneumatic piston actuator valves. These include:

Position Indicator Switches

Indicator with single electrical switch – Option Code "1" Indicator with double electrical switches – Option Code "2"

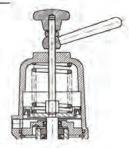
- Mounts on top of the actuator in place of the standard optical indicator
- Compact NEMA 4 housing

ELECTRICAL SWITCHES						
Breaking Capacity	6 A	5 A				
Voltage	250 V AC	4-30 V DC				
Protection Class IP 54		54				
Amb. Temp	-4°F (-20°C) up to 176°F (80°C)					



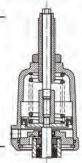
Manual Override for Normally Closed Valves - Option Code "4"

Available for normally closed operation when valve is de-pressurized



Stroke Limitation - Option Code "5"

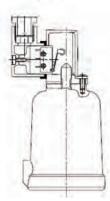
- Adjustable minimum and maximum flow settings from 0% to 100% Cv flow
- Available for normally closed and normally open valves
- Easy adjustment with threaded rod
- Optical position indicator is standard



Compact Electrical Position Indicator – Option Code "6"

Mounts on top of the actuator in place of the standard optical indicator

MECHANICAL SWI	TCH		
	5 A 230 V AC (resistor)		
Breaking Capacity	5 A 230 V AC (coil)		
	0.5 A 230 V AC (filament lamp)		
	2 A 15 - 30 V DC		
Amb. Temp.	14°F (-10°C) up to 160°F (70°C)		
Protection Class	IP 43		





Control Accessories

Proximity Indicator Switches

Indicator with 2 inductive proximity switches – Option Code "7" Indicator with 1 inductive proximity switch – Option Code "8"

- . Mounts on top of the actuator in place of the standard optical indicator
- Compact NEMA 4 housing

INDUCTIVE PROXIMITY SWITCHES			
Breaking Capacity	200mA		
Voltage	10 - 36 VDC		
Amb. Temp	-13°F (-20°C) up to 176°F (80°C)		
Protection Class	IP67		
Wiring	PNP or NPN		
	Optional Explosion Proof and High Voltage Versions		



Compact Inductive Proximity Switch - Option Code "9"

- · Activates switch when valve is fully open
- . Mounts on top of the actuator in place of the standard optical indicator
- Compact NEMA 4 housing

COMPACT INDUCTIVE PROXIMITY SWITCH		
Breaking Capacity	200 mA	
Voltage	10 - 30 V DC	
Amb. Temp.	-13°F (-20°C) up to 212°F (100°C)	
Protection Class	IP 67	



Banjo Valve

For air actuation of process and Industrial control valves

Customer Value Proposition:

Parker Fluid Control Division's 3-way normally closed Banjo valve offers an ideal and cost effective complement to our existing range of high quality valves for process application control.

The valve is offered standard with a DIN plug and cable gland connector for a cost-effective installation. But, to meet your requirements, the valve is also available in a modular design or fully assembled with other coil styles including hazardous coils. The valve is typically used for piston and diaphragm actuators.

The new valve screws directly into the actuator of Parker's family of angle seat valves without the need for supplemental pilot valve fittings for ease of installation.

In addition, the locking manual override allows manual operation during set-up and system control in case of power failure. With a life expectancy up to 5 million cycles, you can expect long life and dependable service.





Product Features:

- Direct mounting to angle seat valve actuator with banjo bolt
- Standard locking manual override
- Available hazardous coils for explosive atmospheres
- Din coil freely rotatable

- Life expectancy up to 5 million
- Modular pressure vessel design
- Agency approved hazardous coils
- AC and DC voltage compatible



Technical Specifications

Mechanical Characteristics Valve Type

3/2 normally closed solenoid valve

Materials

Anodized aluminum body, Stainless steel internals, FKM sealing material

Coil Enclosures

DIN, NEMA 4 with cable gland connector, Class F Available hazardous Class H coil that meets FM / CSA approvals for Class 1, Div. 1 Groups A,B,C,D and Class II, Div. 2 Groups E,F,G. Meets EEx m T4 Zone 1.

Coil Wattage

4.5 to 5.0 watt depending on voltage

Porting

1/8" NPT or G 1/8" pressure port. (reference valve number) Banjo bolt G 1/8" or G 1/4" male thread

Mounting

Any position

Operating Characteristics

 $\triangle P$ minimum 0 psid $\triangle P$ maximum 150psi

Environmental Temp. Ranges:

Fluid Temperature Range:

*0°F (-18°C) to 185°F (85°C)

Ambient Temperature Range

14°F (-10°C) to 122°F (50°C)

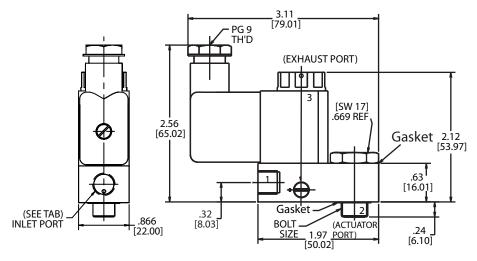
Compatible Fluids

Dry or lubricated air

Agency Approvals/Compliance

Din Coils: UL, CSA

Hazardous Coils: CSA, FM



Dimensions shown are in inches and millimeters.

Ordering Information

Part Number w/ DIN Coil & Connector	Actuator Enclosure Port 2	Valve Pressure Port 1		
U131B01NDAx	G 1/8"	1/8" NPT		
U131B02NDAx	G 1/4"	1/8" NPT		
U131B03NDAx	G 1/8"	G 1/8"		
U131B04NDAx	G 1/4"	G 1/8"		

Voltage Code for Din Coil

A= 12VDC B= 24VDC E= 24/60 F= 120/60, 110/50 G= 240/60, 220/50

Replace "x" in the Part number with one of the above Voltage Din Coil Codes.

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Bulletin ABV Banjo Valve

10/200



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^{*} Consult your local Territory Manager when ordering valve and additional coil configurations or coil separately.