



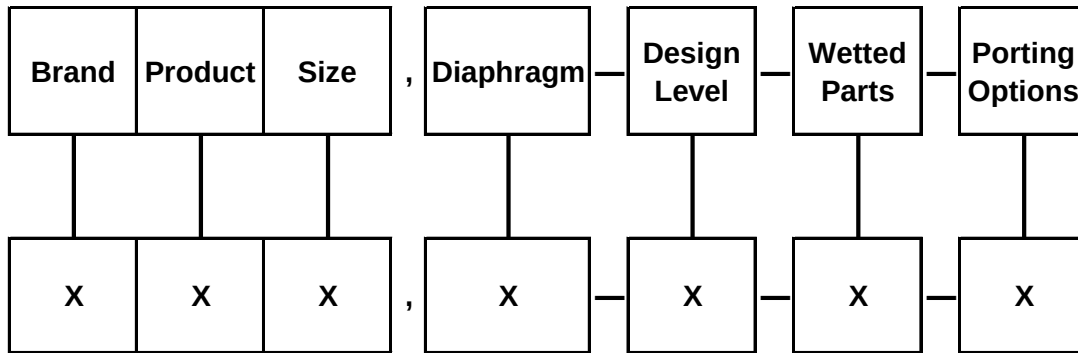
SeficoPower

MODEL: BTA1

Assembly, Installation and Operation Manual



Explanation of Pulsation Damper



Brand

B SeficoPower®

Product

TA Pulsation Damper

Size

1 1"
2 2"
3 3"

Diaphragm

N Neoprene
NG Neoprene Backup/PTFE Overlay
S Santoprene

Design Level

1 Design Level

Wetted Parts

A Aluminum
SS 316 Stainless Steel

Porting Options

N NPT
B BSPT

Pulsation Damper Options



Model & Description	Max. Pressure	Air Inlet Size	Liquid Inlet Size	Dimensions inches (mm)
BTA1 Designed for 1" pumps. 13 1/4" air inlet hose whip line supplied.	125 psi 8.6 bar Self-charging. Self-venting.	1/4" NPT (external thread)	1" NPT/BSPT	13 5/8" to 15 1/8" height (346mm to 384mm) 9" diameter (229mm) NPT(F)

Dimensional Drawings

Model BTA1

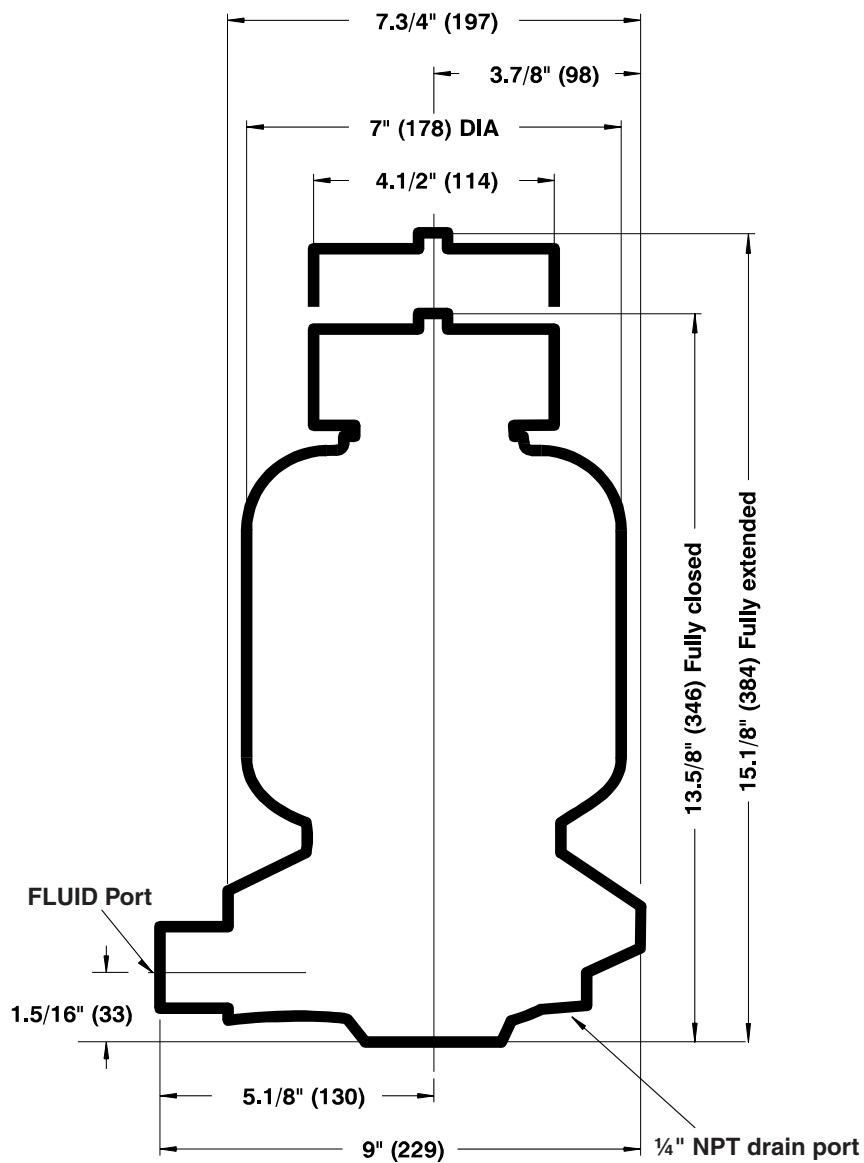
Air Inlet

1/4" Flexible hose

x 13.3/8" long supplied

1/4" NPT (external) fitting

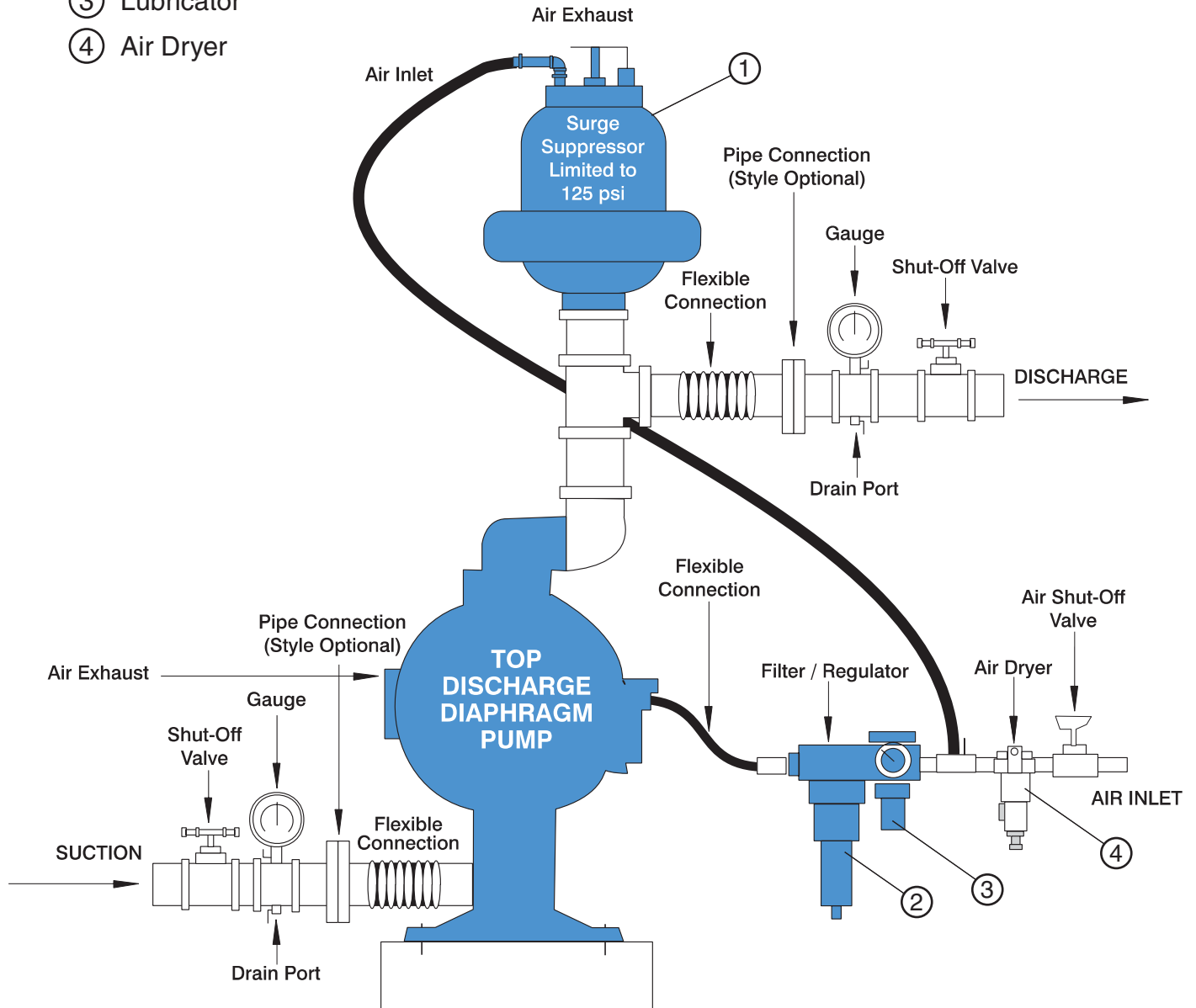
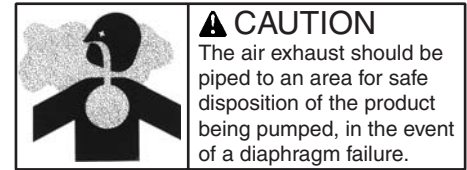
FLUID Port - 1" NPT/BSPT



INSTALLATION GUIDE

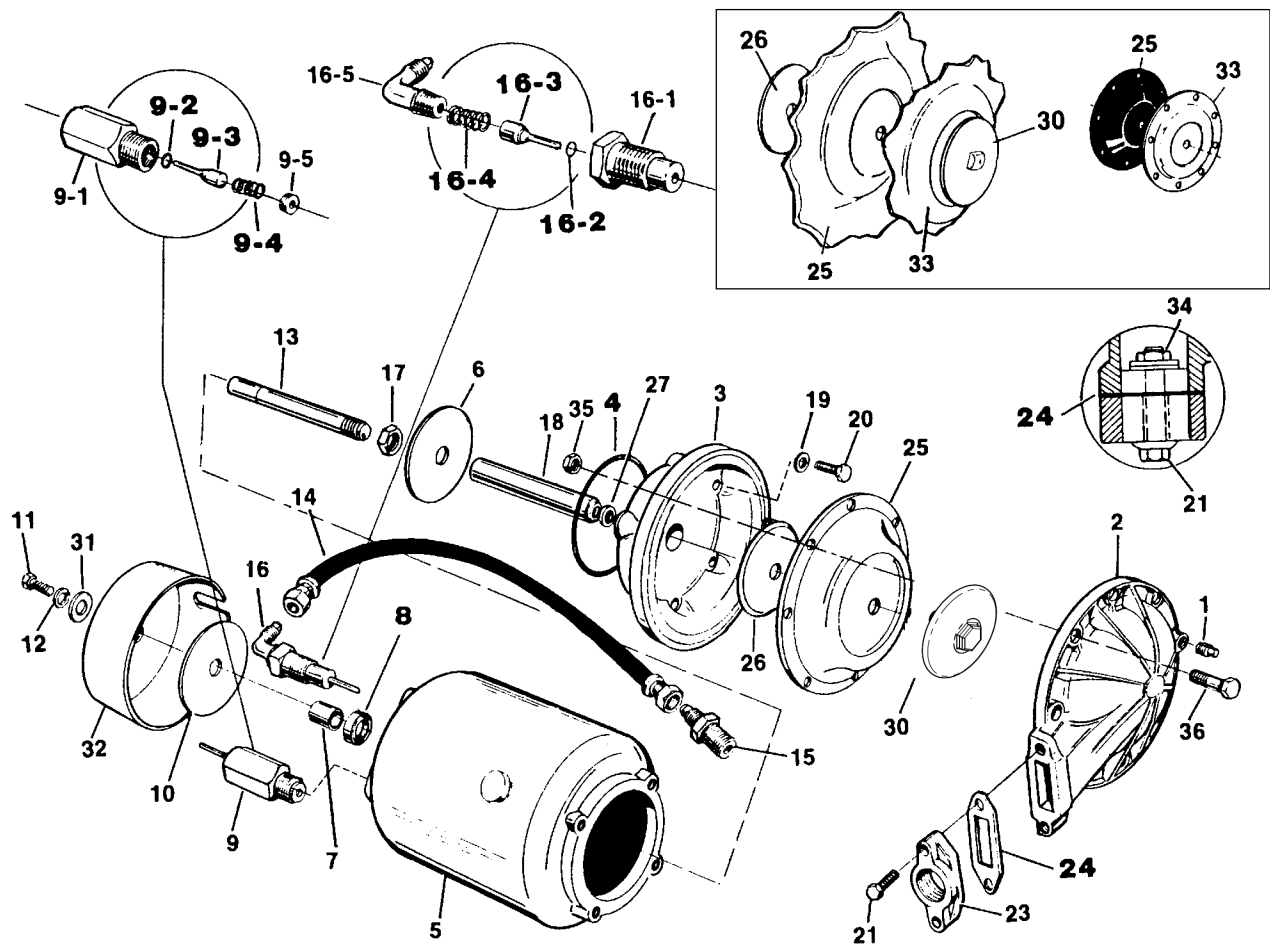
Top Discharge Ball or Flap Valve Unit

- ① Pulsation Damper
- ② Filter/Regulator
- ③ Lubricator
- ④ Air Dryer



EXPLODED VIEWS

Model BTA1



REPAIR PARTS LIST and DRAWING

Pulsation Damper Model BTA1

Metallic Construction

ITEM NO.	PART NUMBER	DESCRIPTION	TOTAL RQD.	MATERIAL CODES
1	B618-003-110	Plug, Pipe	1	000...Assembly sub assembly; and some purchased items
	B618-003-330	Plug, Pipe	1	010...Cast Iron
2	B196-012-110	Chamber, Diaphragm		012.... Powered Metal
		(Stainless Steel Units)	1	015...Ductile Iron
	B196-012-157	Chamber, Diaphragm	1	020.... Ferritic Malleable Iron
3	B196-018-157	Chamber, Inner	1	025.... Music Wire
4	B560-040-360	O-Ring	1	080...Carbon Steel AISI B-1112
5	B095-029-156	Body	1	100...Alloy 20
6	B612-043-330	Plate, Activator	1	110...Alloy Type 316 Stainless Steel
7	B070-014-170	Bearing	1	111....Alloy Type 316 Stainless Steel (Electro Polished)
8	B720-012-360	Seal, Shaft	1	112...Alloy "C"
9	B893-021-000	Valve Assembly, Exhaust	1	113....Alloy Type 316 Stainless Steel (Hand Polished)
		Consisting of:		114...303 Stainless Steel
9-1	B095-020-162	Body, Valve (Exhaust)	1	115...301/302/304 Stainless Steel
9-2	B560-001-360	O-Ring	1	117....440-C Stainless Steel (Martensitic)
9-3	B622-002-162	Poppet	1	120...416 Stainless Steel (Wrought Martensitic)
9-4	B780-013-115	Spring	1	123....410 Stainless Steel (Wrought Martensitic)
9-5	B670-007-162	Plug, Pipe (Special)	1	148...Hardcoat Anodized Aluminum
10	B612-044-330	Plate, Activator	1	149....2024-T4 Aluminum
11	B170-005-330	Capscrew	1	150...6061-T6 Aluminum
12	B900-004-330	Washer, Lock	1	151...6063-T6 Aluminum
13	B685-028-331	Rod, Activator	1	152....2024-T4 Aluminum (2023-T351)
14	B426-007-000	Hose Assembly	1	154...Almag 35 Aluminum
15	B866-020-162	Tube Fitting	1	155 or 156...356-T6 Aluminum
16	B893-023-000	Valve Assembly, Inlet	1	157...Die Cast Aluminum Alloy #380
		Consisting of:		158....Aluminum Alloy SR-319
16-1	B095-019-162	Body, Valve (Inlet)	1	159...Anodized Aluminum
16-2	B560-001-360	O-Ring	1	162...Brass Yellow Screw Machine Stock
16-3	B622-002-162	Poppet	1	165....Cast Bronze, 85-5-5-5
16-4	B780-013-115	Spring	1	166....Bronze SAE 660
16-5	B866-010-162	Tube Fitting	1	170...Bronze Bearing Type Oil Impregnated
17	B545-008-330	Nut, Hex	1	180...Copper Alloy
18	B685-027-159	Rod, Diaphragm	1	310....Kynar Coated
19	B901-014-180	Washer, Sealing	4	330...Plated Steel
20	B170-057-330	Capscrew	4	331...Chrome Plated Steel
21	B170-009-330	Capscrew	2	332...Electroless Nickel Plated
23	B334-018-110	Flange, Threaded 1" NPT		335...Galvanized Steel
		(Must be used with PTFE)	1	336....Zinc Plated Yellow Brass
	B334-018-156	Flange, Threaded 1" NPT	1	337....Silver Plated Steel
	B334-018-110E	Flange, Threaded 1" BSPT (Tapered)		340....Nickel Plated
		(Must be used with PTFE)	1	342....Filled Nylon
	B334-018-156E	Flange, Threaded 1" BSPT (Tapered)	1	354....Injection Molded #203-40 Santoprene
24	B360-030-425	Gasket, Flange	1	- Duro 40D 5; Color: Red
	B360-030-600	Gasket, Flange (Use with Viton®)	1	355....Thermoplastic Elastomer
25	B286-008-354	Diaphragm	1	356...Hytrel
	B286-008-356	Diaphragm	1	357...Rupplon (Urethane Rubber)
	B286-008-360	Diaphragm	1	358....Rupplon (Urethane Rubber)
	B286-008-363	Diaphragm	1	Color coded: PURPLE
	B286-008-364	Diaphragm	1	(Some applications, Compression Mold)
	B286-008-365	Diaphragm	1	359....Urethane Rubber
	B286-008-366	Diaphragm	1	360...Buna-N Rubber Color coded: RED
				361....Buna-N
				363...Viton (Fluorel) Color coded: YELLOW
				364...E.P.D.M Rubber Color coded: BLUE
				365...Neoprene Rubber Color coded: GREEN
				370....Butyl Rubber Color coded: BROWN
				371....Phlithane (Tuftane)
				375...Fluorinated Nitrile
				378....High density Polypropylene
				405...Cellulose Fibre
				408...Cork and Neoprene
				425...Compressed Fibre
				426...Blue Gard
				440...Vegetable Fibre
				465...Fibre
				500...Delrin 500
				501...Delrin 570

List Continued next page



ITEM NO.	PART NUMBER	DESCRIPTION	TOTAL RQD.	MATERIAL CODES
26	B612-022-330	Plate, Diaphragm	1	<i>Continued from previous page</i>
27	B901-012-180	Washer, Sealing	1	505...Acrylic Resin Plastic
30	B612-108-157	Plate, Diaphragm	1	520...Injection Molded PVDF Natural Color
	B612-101-110	Plate, Diaphragm	1	540...Nylon
31	B901-009-115	Washer, Flat	1	541...Nylon
32	B165-023-000	Cap	1	542...Nylon
33	B286-015-604	Diaphragm	1	544...Nylon Injection Molded
34	B545-005-330	Nut, Hex (Stainless Steel Units)	2	550...Polyethylene
35	B545-004-330	Nut, Hex	8	551...Polypropylene
36	B170-029-330	Capscrew	8	552...Unfilled Polypropylene
				553...Unfilled Polypropylene
				555...Polyvinyl Chloride
				570...Rulon II
				580...Ryton
				590...Valox
				591...Nylatron G-S
				592...Nylatron NSB
				600...Virgin PTFE
				601...Virgin PTFE (Bronze and moly filled)
				602...Filled Virgin PTFE
				603...Blue Gylon
				604...Virgin PTFE
				606...Virgin PTFE
				610...Virgin PTFE Encapsulated Silicon
				611...Virgin PTFE Encapsulated Viton