

ACCESSORY

P800 Altitude Pilot

REF EFC-402 ISSUED 15 Jun 2026

SPECIFICATIONS

APPROVALS & CERTIFICATIONS

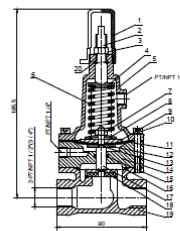
- ISO 9001

APPLICATIONS

- Water towers
- Elevated storage tanks
- High-level reservoirs
- Standpipes



P800 Differential pressure pilot



Part list & Material

No.	Description	Material	Standard
1	Cap	Plastic	ABS
2	Adjusting Screw	Stainless Steel	AISI 304
3	Jam Nut	Stainless Steel	AISI 304
4	Spring table	Stainless Steel	AISI 304
5	Bonnet	Stainless Steel	AISI 304
6	Spring	Spring Steel	SiCrV
7	Nut	Stainless Steel	A2
8	Spring table	Spring Steel	Mn-steel+Ni Plated
9	Fixing Holder	Stainless Steel	AISI 304
10	Screw	Stainless Steel	A2
11	Diaphragm	NylonReinforced Rubber	EPDM+Nylon
12	Gasket	Stainless Steel	AISI 304
13	O-Ring	Rubber	NBR
14	Internal Body	Stainless Steel	AISI 304
15	O-Ring	Rubber	NBR
16	O-Ring	Rubber	NBR
17	Stem	Stainless Steel	AISI 304
18	Disc	Stainless Steel+Rubber	AISI 304+EPDM
19	Body	Stainless Steel	AISI 304
20	O-Ring	Rubber	NBR

FEATURES

- The P800 altitude pilot uses a remote hydrostatic sensing point at the base of an elevated tank or tower to derive the water level
- When hydrostatic pressure indicates the tank is full, the pilot closes the A800 main control valve
- The fully hydraulic design requires no float mechanism inside the structure and no electrical power

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SECTION Technical drawing 1 REF EFC-402



FIG BT127-1
Altitude Valve - One Way (Tank Fill)

Provides automatic filling of elevated tanks or reservoirs. When the altitude control senses a drop in level below the predetermined set-point, the valve opens to fill the tank. Supply pressure must be greater than static head pressure. Discharge of the tank is by a separate line.

Adjustable ranges:	1.5m - 6m
	3m - 22m
	15m - 60m

Quick Sizing: Valve size, line size or one size smaller.

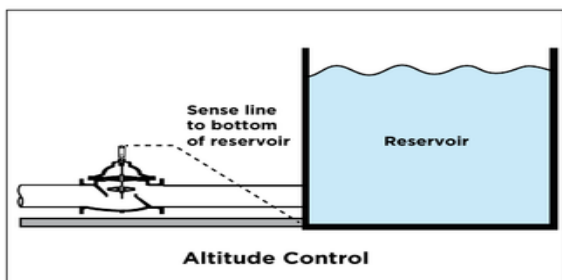


FIG BT127-1
Altitude Valve - Two Way Flows (Tank Fill & Discharge)

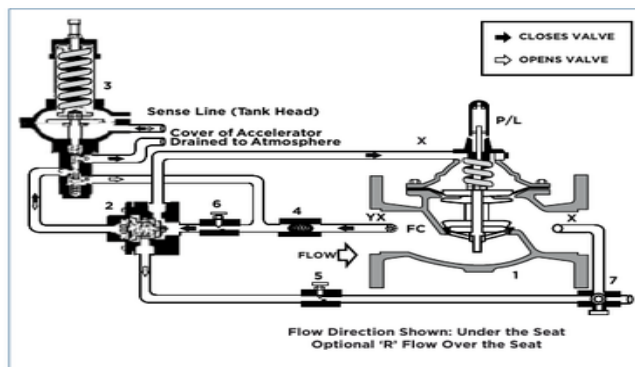
Provides automatic filling of elevated tanks or reservoirs. Supply pressure must be greater than static head pressure. When the altitude control senses a drop in level below the predetermined set-point, the valve opens to fill the tank. The valve opens for tank discharge when tank head pressure is greater than valve inlet pressure.

Adjustment ranges:	1m - 5m
	5m - 12m
	10m - 32m
	22m - 40m

Quick Sizing: Valve size, line size or one size smaller.

Points to consider: Tank discharge flow requires a valve inlet (system pressure) to be 13 kPa less than tank head pressure.

Two way flows allowing water in and out through the same line can be done with a modified schematic



VALVE FUNCTION

- Closes when reservoir level reaches pilot setting
- Opens approximately 300mm lower.

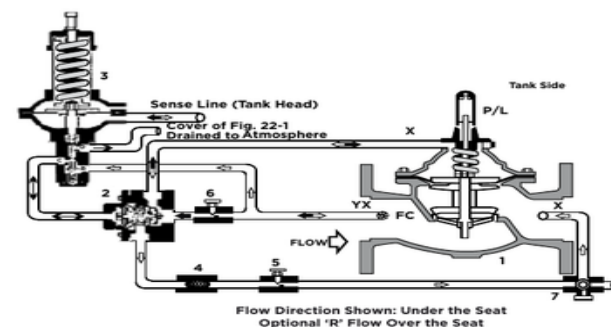
ACCESSORIES

Located as indicated
Included as marked

- X - Isolation Cocks
- Y - Y Strainer (Eliminates Flo-Clean)
- L - Limit Switch

COMPONENTS

1. Main Valve
 2. Fig. 22-1 Accelerator Control for sizes larger than 150mm.
 3. Fig. 27 Altitude Control
 4. Check Valve
 5. Needle Valve - Adj. Opening Speed
 6. Needle Valve - Adj. Closing Speed
 7. 3-Way Ball Valve
- P - Position Indicator
FC - Flo-Clean Strainer



VALVE FUNCTION

- Tank fill
- Opens when reservoir level drops below pilot setting (adjustable)
- Closes when reservoir level reaches pilot setting
- Tank Discharge
- Opens when valve inlet / system pressure is below tank head

- X - Isolation Cocks
- Y - Y Strainer
- FC - Flo-Clean Strainer
- L - Limit Switch

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SECTION Dimensions per size REF EFC-402

SIZE	L	H	OD	OKOD_PN10_PN16	OD_PN25	OK_PN10_PN16	OK_PN25	OK_PN10	OK_PN16	H_A900	OD_PN10	OD_PN16
DN50	230	177	165	125	—	—	—	—	—	—	—	—
DN65	290	202	185	145	—	—	—	—	—	—	—	—
DN80	310	219	200	160	—	—	—	—	—	—	—	—
DN100	350	243	—	—	220	235	180	190	—	—	—	—
DN125	400	243	—	—	250	270	210	220	—	—	—	—
DN150	480	333	—	—	285	300	240	250	—	—	—	—
DN200	600	428	—	—	340	360	295	310	—	—	—	—
DN250	730	478	—	—	405	425	—	370	350	355	—	—
DN300	850	538	—	—	460	485	—	430	400	410	—	—
DN350	980	550	—	—	520	555	—	490	460	470	—	—
DN400	1100	—	—	—	—	580	—	525	620	515	710	550
DN500	1250	—	—	—	—	715	—	650	730	620	822	725
DN600	1450	—	—	—	—	840	—	770	845	725	885	842
DN800	1850	—	—	—	—	1085	—	990	950	950	1260	1025

All dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.