

DUPLEX STRAINERS

DS-P-SERIES-AUTO-Butterfly Valve-OL-Spec-pic

Design Features

- ▶ Standard sizes from 50 nb to 1200 nb
- ▶ Available In flanged Ends To ANSI B16.5 , AWWA , IS Standards with 150/300 ratings
- ▶ Butterfly type diverter valves
- ▶ Standard thru bolt cover design. Other covers on request
- ▶ Perforated screens are standard.
- ▶ May be installed in horizontal pipelines.
- ▶ All welders are qualified to ASME Section IX.
- ▶ Strainers designed to meet the requirements of ASME Section VIII, Div.1.
- ▶ Drain with plug is standard . Drain valves can be supplied on request
- ▶ Vents with plug and Dp indicators are standard .
- ▶ Large body with Guaranteed low pressure drop as per Table 4..
- ▶ Net free straining area minimum 6 times for standard screen
- ▶ Diverter valves are electrically actuated
- ▶ Diaphragm/Bellows Differential pressure switches are standard
- ▶ IP65 Control Panels are standard - Other classes on Request
- ▶ All valves have manual override



Principle Of Operation

At the time of startup , both filters are clean and ready for use. One of the filters is put into operation while the other is in standby mode Once the operation starts the filter will eventually choke and Dp across the filter will increase. When the dp reaches a pre set point the Controller will close the diverter valves that are in open state and open the valves that are in close state, thus the flow will be diverted to the clean filter and flow to the choked filter will be cut off. The Controller will also indicate which filter is choked and hooter will go on. The hooter can be manually reset and the choked filter can be cleaned and ready for the next cycle

Material Data

COMPONENT	MATERIAL
Strainer Body	IS1239,3589 ASTM A106, SS304/316, DUPLEX STEEL
Cover	A105, SA 516 GR 70, CS TO IS 2062, SS316,304, DUPLEX STEEL
Valve Body	Cast Iron, ASTM A 216 WCB,CF8,CF8M
Valve Disc	Cl,SS 304, SS 316
Fastners	A193 B7 Bolts & A 194 2 H Nuts with spring washer. SS 304/316
Gaskets	CAF, NACF, Neoprene, Nitrile,PTFE
Valve Seals	EPDM,Nitrile,PTFE
Drain / Vent Plug	A105, CS TO IS 1875-II, Stainless Steel
Filter Element	SS 304,316, Duplex, Brass, Monel, Hastalloy C

Standard Screens

SIZE RANGE	OPENING
2"-8"(50mm-200mm)	0.125 IN. (3.2mm)
10"-12"(250mm-300mm)	0.125 IN. (3.2mm)
14"-24"(250mm-600mm)	0.188 in. (4.8mm)

CONTROL PANEL FEATURES

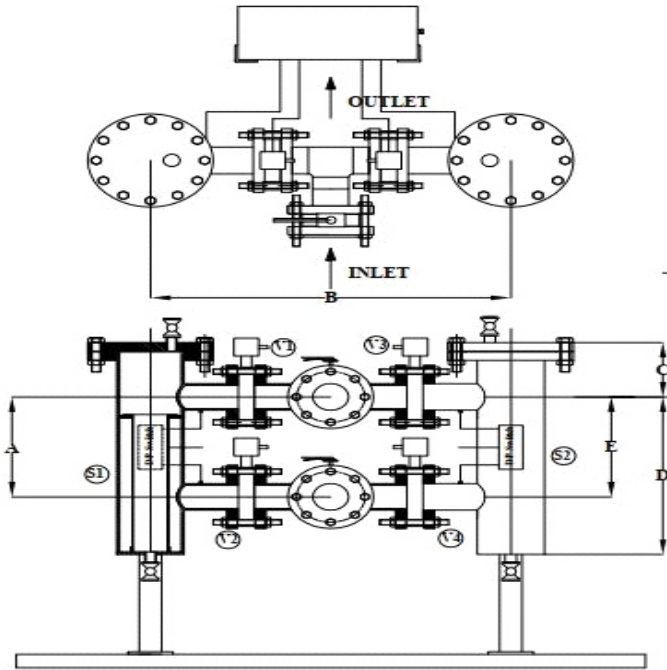
- .230 / 110 Volts power supply
- .Power over load protection is standard
- .Choked/Clean Indication
- .Manual Override switch
- .Cut off Switch
- .IP 65 class

Engineering Flow...

FABRICATED DUPLEX STRAINERS - 150/300 lbs

DP P Series BFV OL Series

Dimensions



Size	A	B	C	D	E
50	254	660	165	508	356
80	311	762	194	572	388
100	362	914	213	648	445
150	464	118	284	881	568
200	559	1270	366	1158	732
250	635	1626	441	1435	883
300	737	1829	517	1711	1034
350	816	1930	611	1988	1223
400	864	2134	693	2265	1387
450	965	2388	763	2542	1525
500	1051	2642	857	2819	1715
600	1168	3099	1021	3372	2042

Pressure Drop Curve for Duplex Strainers (Sizes 5" - 24")

Fabricated Duplex Strainer Pressure Drop Liquids (Sizes 5 - 24)

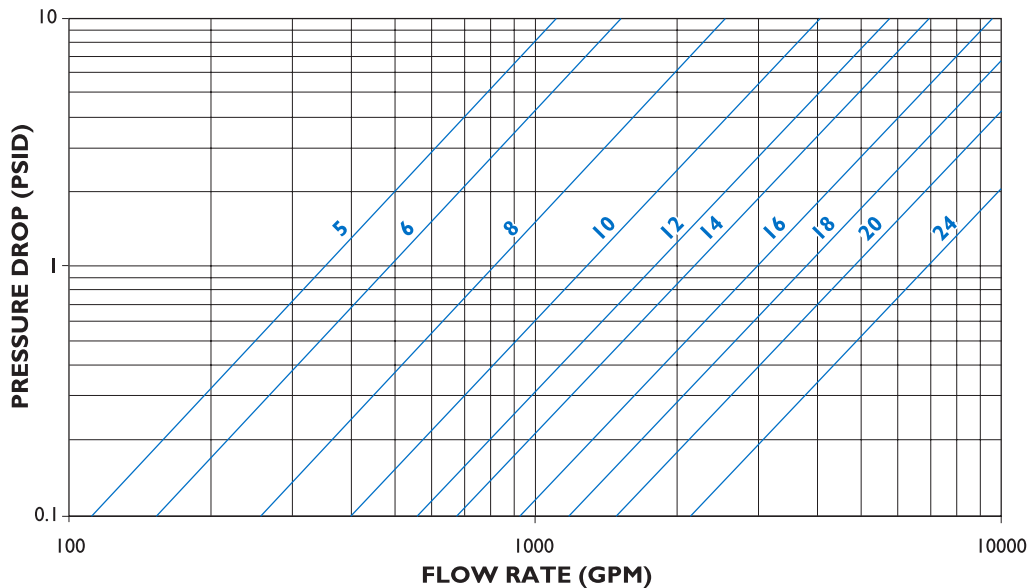


FIGURE 6

Note: Pressure drop curves are based on water flow with standard screens.

For more information:

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