

High pressure filter housings designed for the purification of compressed air and gases.

Donaldson® HD high pressure filter housings are designed for the purification of compressed air and gases in industrial operations. The housings offer low differential pressure at high flow rates. A wide variety of filter elements are available to meet a broad range of application requirements.

HD housings are available in eight different sizes, ranging from 6 mm to 51 mm (1/4" to 2") FNPT, and pressure rating 63.8 bar (925 psig) and 400.2 bar (5,800 psig). The HD high pressure filter housings are designed in accordance to ASME VIII, Division 1. Housings are available in aluminum, stainless steel, and carbon steel.



HD

SPECIFICATIONS

MATERIALS

Filter Housing	63.8 bar (925 psig): Aluminum (304 SS optional) 400.2 bar (5,800 psig): Carbon steel (316 SS optional)
Sealing	Buna

SURFACE FINISH

44.8 to 63.8 bar (650 to 925 psig): Aluminum anodized
248.4 to 400.2 bar (3,600 to 5,800 psig): Carbon steel nickel plated

CONNECTION

6 mm to 51 mm (1/4" to 2") FNPT

MINIMUM/MAXIMUM OPERATING TEMPERATURE

-10° C/+80° C (+14° F/+176° F)

CAPACITY CORRECTION FACTORS - 63.8 BAR (925 PSIG)

Operating Pressure (bar)	34.5	38.0	41.4	44.9	48.3	51.8	55.2	58.7	62.1	63.8
Operating Pressure (psig)	500	550	600	650	700	750	800	850	900	925
Correction Factor	0.55	0.6	0.65	0.71	0.76	0.81	0.87	0.92	0.97	1.00

CAPACITY CORRECTION FACTORS - 400.2 BAR (5,800 PSIG)

Operating Pressure (bar)	69.0	103.5	138.0	172.5	207.0	241.5	276.0	310.5	345.0	400.2
Operating Pressure (psig)	1000	1500	2000	2500	3000	3500	4000	4500	5000	5800
Correction Factor	0.17	0.26	0.35	0.43	0.52	0.6	0.69	0.78	0.86	1.00

1 Capacities are general recommendations and may vary based on element selection, operating conditions, and allowable pressure losses. To determine capacity at other operating pressures, multiply published capacity value by the correction factor