

# HILCO® Hyflow Duplex Filters with Integral Transfer Valves



Up to 3000 PSIG, ASME, API, ATEX, CRN, PED, other Codes, or Non-Code, with flow rates to 75 GPM, ANSI Flanged, NPT, or SAE Connections

**Save space and lower equipment costs in all of your lube oil filtration applications. Provides continuous flow during transfer and filter changeout.**



- **Compact Model** -- Saves space and costs
- **High Flow Rates** -- Up to 75 GPM
- **System Pressure** -- Up to 3,000 PSIG
- **Connections** -- NPT, ANSI Flanged, SAE
- **Filter Elements** -- O-Ring sealed, wide selection



HILCO Hyflow duplex filters provide continuous flow during fluid transfer and cartridge changeout. An integral transfer valve with two stops and a witness mark indicates the side of the filter in use. In-line filtration of fluids up to 3,000 PSIG, ASME Code and non-Code, with flow rates to 75 GPM is possible with these filters. HILCO duplex filters are ideal for cost effective, efficient filtration of fuels, solvents, hydraulic, lube and compressor oils.

### Benefits

- Specially designed for turbine or compressor systems with high pressure, high flow rate, and minimal dirt load
- Provides continuous flow during fluid transfer and cartridge changeout
- Utilizes highly efficient and readily available HILCO "PHCG" Series filter elements
- Cost-effective and efficient filtration

### Features

- Compact size
- Beta-rated PHCG cartridges use synthetic PH media and have O-ring seals. The filter media is screen-supported upstream and downstream to withstand high cyclic and pulse flows
- Fabricated steel construction
- Integral transfer valve with stops and witness mark to indicate the side of the filter in use
- Easy to maintain plug-type valve with O-ring seals
- Zero-leak option for hazardous duty
- Air vents (plugged)
- Drains (plugged)
- Cross-over line (option)
- Casing O-ring seals
- Meets API-614 with stainless valve plug (option)
- Epoxy paint
- Seal and fuel gas models available

### Applications

- High flow rate and high pressure for turbines and compressors with relatively clean fluids
- Lower flow rate for engines, machine tools and pumps with heavily contaminated fluids

### Filter Element Selection Guide

Flow Rate <sup>1</sup> (GPM)	Cartridge Series
0-25	PH312
10-50	PH414
20-75	PH518

<sup>1</sup> Per Element

### Filter Media Efficiency (99.5%)

Beta <sub>x</sub> = 200	Media
<1	-16
3	-12
10	-11
15	-01
25	-03
41	-05
51	-10

## Specifications

Model Number	Data Sheet	Inlet/Outlet NPT, SAE or ANSI 150#	Flow Rate* Range GPM (LPM)
51312-0250-1B01	DD-696-11	0.75"	0-15 (0-56)
51312-0250-1C01	DD-696-13	1.00"	0-25 (0-95)
51414-0150-1001	DD-697-6	1.50"	10-50 (38-190)
51414-0250-1001	DD-697-6	1.50"	10-50 (38-190)
51518-0150-1B01	DD-616-24	1.50"	20-75 (75-285)
51518-0200-1001	DD-616-26	1.50"	20-75 (75-285)

\* ISO VG 32 @ 210°F; consult pressure drop curves for other viscosities.

Model Number	Max. Design Pressure** psi (bar)	Approximate Weight (dry) Net lb (kg)	Fluid Capacity Each Side gal (L)
51312-0250-1B01	250 psi @ 250°F 17.2 bar @ 121°C	28 (12.7)	.5 (1.9)
51312-0250-1C01	250 psi @ 250°F 17.2 bar @ 121°C	28 (12.7)	.5 (1.9)
51414-0150-1001	150 psi @ 250°F 10.3 bar @ 121°C	110 (49.9)	1.2 (4.5)
51414-0250-1001	250 psi @ 250°F 17.2 bar @ 121°C	110 (49.9)	1.2 (4.5)
51518-0150-1B01	150 psi @ 250°F 10.3 bar @ 121°C	115 (52.2)	1.9 (7.2)
51518-0200-1001	200 psi @ 250°F 13.8 bar @ 121°C	115 (52.2)	1.9 (7.2)

\*\*Consult factory for higher pressures.

Larger models available to 600 GPM as a duplex package with our standard HILCO transfer valve between vessels.

*The Hilliard Corporation reserves the right to change specifications and dimensions at any time.  
Please contact the factory for the most current information.*

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