Popular W-Series Hydraulic Assemblies

Quick-ship W assemblies help you meet tight deadlines and avoid lengthy made-to-order lead times.

THREE EASY STEPS TO CREATE YOUR ORDER
Mix-and-Match

Combine your preferred assembly with a hydraulic filter and indicator to meet your performance requirements.

1. Choose the Assembly

Select the specific part numbers needed for both the head and the housing. Indicator ports are machined into every head.

2. Choose the Filter

Use the Donaldson Hydraulic Filtration Product Guide (F112100) as a reference guide for filter selection.

Refer to the filter choice tables found in the catalog to determine a specific part number to meet your performance, ISO cleanliness and pressure drop requirements.

The hydraulic catalog is available online at DonaldsonFilters.com.

3. Choose the Indicator

Indicators are optional but recommended to help monitor the condition of the filter and maintain the proper ISO cleanliness level for your application.

High-Performance DT Cartridge Filters

Donaldson DT filters provide superior hydraulic system protection.

Premium Uptime Protection

- Better protection from particles and contaminant
- Extends filter life with Donaldson DT Synteq™ media technology

W023
Spin-On Assembly

Max Flow: 60 gpm (227 lpm)
Max Pressure: 150 (1034 kPa) / 10.3 bar
- Gray iron head construction
- Excellent choice for use in high corrosion environments

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Head (includes head only)				
P574241	SAE-20 O-ring	NA	**50 psi** (345 kPa) / 3.45 bar	Buna-N
P575930	1-1/4" NPT	NA	None	Buna-N

WL15
In-Tank Assembly

Max Flow: 50 gpm (190 lpm)
Max Pressure: 200 (1379 kPa) / 13.8 bar
- Meets HF4 automotive standard
- Optional secondary inlet port offers the use of a second return line

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Housing Assembly (includes head and bowl; does not include the 12" extension tube)				
P574231	(1) SAE-24 O-ring	9"	**25 psi** (172 kPa) / 1.72 bar	Buna-N
P575923	(1) SAE-24 O-ring	9"	**50 psi** (345 kPa) / 3.45 bar	Buna-N
P575924	(1) SAE-24 O-ring	9" with 12" extension	**25 psi** (172 kPa) / 1.72 bar	Buna-N
P575925	(2) 1½" SAE 4-Bolt Flange Code 61	9" with 12" extension	**50 psi** (345 kPa) / 3.45 bar	Buna-N

Head/Bowl/Housing Seal Kits		
Series	**Part No.**	**Material**
WL15/16	X011140	Buna
	X011141	Viton

WL16
In-Tank Assembly

Max Flow: 200 gpm (757 lpm)
Max Pressure: 200 (1379 kPa) / 13.8 bar
- Meets HF4 automotive standard
- Top or side reservoir mounting options – with optional anti-flow back valve (side mounting only)

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Housing Assemblies (includes head and bowl)				
P574232	(2) SAE-24 O-ring	9"	**25 psi** (172 kPa) / 1.72 bar	Buna-N
P574233		18"		
P574234		27"		
P574235	(2) 1½" SAE 4-Bolt Flange Code 61	18"		
P574236	(1) 1½" SAE 4-Bolt Flange Code 61	18"	**50 psi** (345 kPa) / 3.45 bar	
P574237	(1) 1½" SAE 4-Bolt Flange Code 61	27"		
P575922	(2) SAE-24 O-ring	18"		

Filter Selection: Refer to the Hydraulic Filtration Product Guide (F112100) for filter choices.

W061
In-Line Assembly

Max Flow: 100 gpm (379 lpm)
Max Pressure: 600 (4137 kPa) / 41.3 bar
- Meets HF3 automotive standard
- Cast iron head with steel housing construction
- Bleed plug in head

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Heads (bowl ordered separately)				
P574242	SAE-12 O-ring	NA	**50 psi** (345 kPa) / 3.45 bar	Buna-N
P574243	SAE-16 O-ring			
P575929	SAE-16 O-ring		**25 psi** (172 kPa) / 1.72 bar	Viton
Housings (head ordered separately)				
X011115	NA	4"	NA	Buna-N
X011111		8"		
X011117		13"		

Head/Bowl/Housing Seal Kits		
Series	Part No.	Material
W061	X011160	Buna
	X011161	Viton

Filter Selection
Refer to page 110 of the Hydraulic Filtration Product Guide (F112100) for filter choices.

W041
In-Line Assembly

Max Flow: 300 gpm (1136 lpm)
Max Pressure: 500 (3450 kPa) / 34.5 bar
- Base-mounted assembly
- All aluminum head with plated steel housing and cast iron cover
- Two drain plugs in base; bleed/fill plug in head

Housing Assemblies (includes head and bowl)				
P574218	2" SAE 4-Bolt Flange Code 61	16"	**50 psi** (345 kPa) / 3.45 bar	Viton
P574219	2½" SAE 4-Bolt Flange Code 61	39"		
P575920	2" SAE 4-Bolt Flange Code 61	39"		
P575921	2½" SAE 4-Bolt Flange Code 61	16"		

Head/Bowl/Housing Seal Kits		
Series	Part No.	Material
W041	X011156	Buna
	X011157	Viton

Filter Selection
Refer to page 118 of the Hydraulic Filtration Product Guide (F112100) for filter choices.

W440
In-Line Assembly

Max Flow: 20 gpm (75 lpm)
Max Pressure: 4000 (27580 kPa) / 275.8 bar
- Meets HF2 automotive standard
- Positive sealing poppet bypass for reliability and zero leakage
- Compact design for use with servo or proportional valve
- Cast iron head
- Steel housing with drain plug

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Heads (bowl ordered separately)				
P574248	SAE-12 O-ring	NA	**50 psi** (345 kPa) / 3.45 bar	Buna-N
P574249	Manifold Mount			
P574250	Manifold Mount		No Bypass	Viton
Housings (head ordered separately)				
X011125	NA	4"	NA	Buna-N
X011126		8"		

Head/Bowl/Housing Seal Kits		
Series	Part No.	Material
W440	X011172	Buna
	X011173	Viton

Filter Selection
Refer to page 134 of the Hydraulic Filtration Product Guide (F112100) for filter choices.

W350
In-Line Assembly

Max Flow: 50 gpm (190 lpm)
Max Pressure: 3000 (20685 kPa) / 206.9 bar
- T-type ported design meets HF3 automotive standard
- Cast iron head with bleed plug
- Steel housing with drain plug

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Heads (bowl ordered separately)				
P574245	SAE-16 O-ring	NA	**50 psi** (345 kPa) / 3.45 bar	Buna-N
P574246			**90 psi** (620 kPa) / 6.21 bar	
P574247			No Bypass	
Housings (head ordered separately)				
X011556	NA	4"	NA	Buna-N
X011558		8"		

Head/Bowl/Housing Seal Kits		
Series	Part No.	Material
W350	X011170	Buna
	X011171	Viton

Filter Selection
Refer to page 144 of the Hydraulic Filtration Product Guide (F112100) for filter choices.

Filter Selection: Refer to the Hydraulic Filtration Product Guide (F112100) for filter choices.

W451
In-Line Assembly

Max Flow: 150 gpm (568 lpm)
Max Pressure: 4500 (31027 kPa) / 310 bar
- Meets HF4 automotive standard
- Cast iron base and cover with bleed/fill plug
- Steel cylinder with drain plug

Filter Selection
Refer to page 168 of the Hydraulic Filtration Product Guide (F112100) for filter choices.

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Housing Assemblies (includes head and bowl)				
P574220	SAE-24 O-ring	9"	50 psi (345 kPa) / 3.45 bar	Buna-N
P574221		18"		
P574222		27"		
P574223	1½" SAE 4-Bolt Flange Code 61	18"		
P574224		27"	90 psi (620 kPa) / 6.21 bar	
P574225		18"	50 psi (345 kPa) / 3.45 bar	
P574226	1½" SAE 4-Bolt Flange Code 62			
P574227	Manifold Mount			
P574228		27"		
P574229		9"	NA	
P574230		18"		
P575915	SAE-24 O-ring			Viton
P575916		27"		
P575917		9"		
P575918	1½" SAE 4-Bolt Flange Code 61	18"		
P575919		9"	90 psi (620 kPa) / 6.21 bar	

Head/Bowl/Housing Seal Kits		
Series	**Part No.**	**Material**
W451	X011174	Buna
	X011175	Viton

W620
In-Line Assembly

Max Flow: 150 gpm (568 lpm)
Max Pressure: 6000 (41370 kPa) / 413.8 bar
- Meets HF3 automotive standard
- Cast iron head and steel housing

Filter Selection
Refer to page 172 of the Hydraulic Filtration Product Guide (F112100) for filter choices.

Donaldson Part Number	Port Size	Housing Length	Bypass Pressure Setting	Seal Material
Heads (bowl ordered separately)				
P574252	SAE-16 O-ring	NA	50 psi (345 kPa) / 3.45 bar	Buna-N
P574253	SAE-24 O-ring			
P574254	1½" SAE 4-Bolt Flange Code 62			
P575931	1¼" SAE 4-Bolt Flange Code 62		90 psi (620 kPa) / 6.21 bar	Viton
P575932			50 psi (345 kPa) / 3.45 bar	
P575933	SAE-16 O-ring		90 psi (620 kPa) / 6.21 bar	
P575934	SAE-20 O-ring		50 psi (345 kPa) / 3.45 bar	
P575935			90 psi (620 kPa) / 6.21 bar	
Housings (head ordered separately)				
X011557	NA	4"	NA	Buna-N
X011559		8"		
X011554		13"		
X011555		16"		

Head/Bowl/Housing Seal Kits		
Series	**Part No.**	**Material**
W620	X011182	Buna
	X011183	Viton

Select an Indicator to Suit your Requirements

Select an indicator to help monitor the condition of the filter and maintain the proper ISO level for your application.

Electrical

Donaldson Part Number	Indicator Pressure Setting	Connector Style	Seal Material	Thermal Lockout	Surge Control
P572355	**15 psi** (103 kPa) /1.03 bar	Hirschmann	Buna-N	No	No
P572359	**35 psi** (241 kPa) /2.41 bar	Hirschmann	Buna-N	No	No
P572361	**35 psi** (241 kPa) /2.41 bar	Brad Harrison	Buna-N	No	No
P572369	**70 psi** (482 kPa) /4.83 bar	Hirschmann	Buna-N	No	No

Visual

P572345	**15 psi** (103 kPa) /1.03 bar	None	Buna-N	No	No
P572347	**35 psi** (241 kPa) /2.41 bar	None	Buna-N	No	No
P569636	**35 psi** (241 kPa) /2.41 bar	None	Viton	No	No
P572348	**35 psi** (241 kPa) /2.41 bar	None	Buna-N	Yes	Yes
P567456	**35 psi** (241 kPa) /2.41 bar	None	Viton	Yes	Yes
P572319	**70 psi** (482 kPa) /4.83 bar	None	Buna-N	Yes	Yes
P567457	**70 psi** (482 kPa) /4.83 bar	None	Viton	Yes	Yes
P569637	**70 psi** (482 kPa) /4.83 bar	None	Viton	No	No
P572353	**100 psi** (689 kPa) /6.89 bar	None	Buna-N	Yes	Yes
P572354	**100 psi** (689 kPa) /6.89 bar	None	Viton	Yes	Yes

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Hirschmann® is a registered trademark of Richard Hirschmann of America Inc.
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 Filter Selection: Refer to the Hydraulic Filtration Product Guide (F112100) for filter choices.

Visual / Electrical

Donaldson Part Number	Indicator Pressure Setting	Connector Style	Seal Material	Thermal Lockout	Surge Control
P572323	**15 psi** (103 kPa) /1.03 bar	Hirschmann	Buna-N	No	No
P572342	**15 psi** (103 kPa) /1.03 bar	3-wire flying leads	Buna-N	No	No
P572327	**35 psi** (241 kPa) /2.41 bar	Hirschmann	Buna-N	No	No
P572329	**35 psi** (241 kPa) /2.41 bar	Brad Harrison	Buna-N	No	No
P569638	**35 psi** (241 kPa) /2.41 bar	Hirschmann	Viton	Yes	No
P572384	**35 psi** (241 kPa) /2.41 bar	Hirschmann	Buna-N	Yes	Yes
P567458	**35 psi** (241 kPa) /2.41 bar	Hirschmann	Viton	Yes	Yes
P572385	**35 psi** (241 kPa) /2.41 bar	Brad Harrison	Buna-N	Yes	Yes
P572349	**35 psi** (241 kPa) /2.41 bar	3-wire flying leads	Buna-N	No	No
P572320	**70 psi** (482 kPa) /4.83 bar	Hirschmann	Buna-N	Yes	Yes
P567459	**70 psi** (482 kPa) /4.83 bar	Brad Harrison	Buna-N	Yes	Yes
P572373	**70 psi** (482 kPa) /4.83 bar	Hirschmann	Buna-N	Yes	No
P569639	**70 psi** (482 kPa) /4.83 bar	Hirschmann	Viton	Yes	No
P572387	**100 psi** (689 kPa) /6.89 bar	Hirschmann	Buna-N	Yes	Yes

Electrical

X011061	**18 psi** (124 kPa) /1.24 bar	Hirschmann	Buna-N	No	No
X011064	**35 psi** (241 kPa) /2.41 bar	Hirschmann	Buna-N	No	No
X011065	**18 psi** (124 kPa) /1.24 bar	Brad Harrison	Buna-N	No	No
X011066	**35 psi** (241 kPa) /2.41 bar	Brad Harrison	Buna-N	No	No

Pressure Gauge

X011059	**25 psi** (172 kPa) /1.72 bar
X011060	**50 psi** (345 kPa) /3.45 bar

How to Select a Filter for your W Assembly

Use the Hydraulic Filtration Product Guide (F112100) as a reference tool.
Refer to the filter choice tables found in the hydraulic catalog to determine a specific part number that will meet your performance, ISO cleanliness and pressure drop requirements.

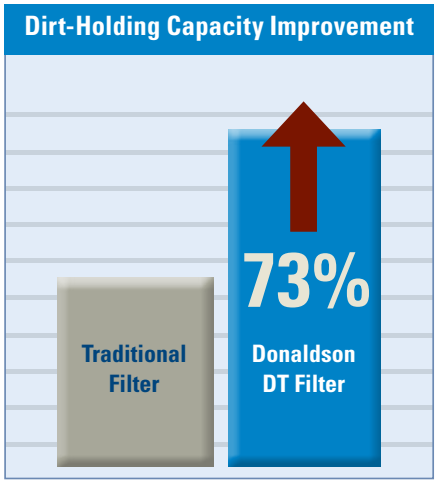
High-Performance DT Filters Provide Superior System Protection

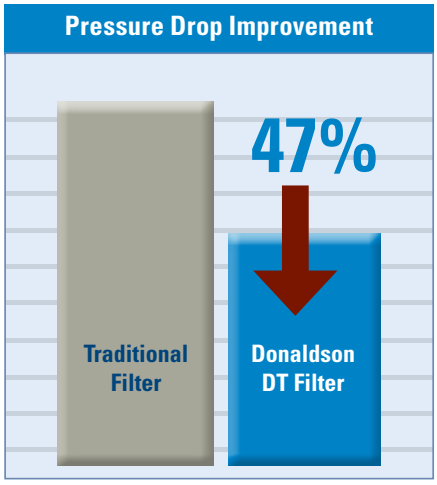
Premium Uptime Protection

Every hydraulic system has suspended particles in its fluid. Contaminants grind and wear at the surface of moving parts, introducing even more particles into the system. These contaminants cause more than 70% of all hydraulic system downtime.

Donaldson high-performance DT cartridge filters provide better protection from the particles and contaminants that reduce the effectiveness of lubricant and hydraulic fluid. Using Donaldson DT Synteq™ media technology, these filters extend filter life, allow higher initial cleanliness and provide superior system protection.

Donaldson DT filters are stocked and ready to ship!





Donaldson FILTRATION SOLUTIONS

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