

Filter elements for the installation into old EPE filter housings

Type 1.; 2. and 3. filter elements



Features

- Filter media made of glass fiber material (optionally water-absorbing), filter paper, wire mesh, non-woven material and non-woven metal fiber for numerous fields of application
- Cleanable wire mesh filter media
- Attainable oil cleanliness up to ISO 10/6/4 (ISO 4406)
- High dirt holding capacity and filtration performance due to multi-layer glass fiber technology and simultaneously a low initial differential pressure (ISO 3968)
- Extended product range for non-mineral oil based fluids
- Filter elements with high differential pressure stability

Sizes according to Hengst standard: 1.0004 ... 1.0270C; 1.10 ... 1801 2.0003 ... 2.0145; 2.10 ... 2.900; 2.Z30 ... 2.Z180 3.0003

- Differential pressure resistance up to 330 bar [up to 4786 psi]
- ► Filter rating: 1 to 800 µm
- ▶ Filter area: up to 4.68 m² [7.254 in²]
- ▶ Operating temperature: -10 °C ... +100 °C [+14 °F ... +212 °F]

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RE 51507 Edition: 2022-10

Filter element type 1.(E) size 10 ... 225/450

01	02	03		04	05	06		07		08
1			-	Α	0	0	-	0	-	0

Filter element

01	Design with valve in the filter housing	1.

Size

02	According to Hengst standard	10
		18
		32
		56
		90
		140
		225
		225/360
		225/450

Filter rating in µm

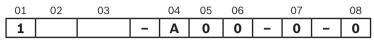
3	Nominal	Stainless steel wire mesh, cleanable	G10
			G25
			G40
			G60
			G100
			G200
			G500
			G800
		Filter paper, not reusable (not cleanable)	P10
			P25
	Absolute	Glass fiber material HXL, not reusable, not cleanable	H3XL
	(ISO 16889; β _{x(c)} ≥200)	Only available in combination with stainless steel material	H6XL
			H10XL
			H20XL
		Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
		Not available in combination with stainless steel material	PWR3
			PWR6
			PWR10
			PWR20

04	Max. admissible differential pressure of the filter element 30 bar [435 psi]	А
Elem	ent design	
05	Standard adhesive	0

0

Ordering codes Filter element

Filter element type 1.(E) size 10 ... 225/450



Element design

06 Standard material

Bypass valve

07	Without bypass valve	0
Seal		
08	Without seal	0

Further filter ratings and seal materials are available upon request. More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 1.32 PWR10-A00-0-0

Material no.: R928045217

Filter element type 1. size 0004 ... 0012

01	02	03		04	05	06		07		08
1.			-	Α	0	0	-	5	-	Μ

Filter element

ſ	01	Design	1.	
- 1	OT	Design	I <u>+</u> • I	

S	i	z	е
s	i	z	е

OILC			
02	According to Hengst standard	0004	Ĺ
		0006	
		0010	
		0012	

Filter rating in µm

	Nominal	Stainless steel wire mesh, cleanable	G10
			G25
			G40
			G60
			G100
			G200
			G500
			G800
		Filter paper, not reusable (not cleanable)	P10
			P25
ľ	Absolute	Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
	(ISO 16889; β _{x(c)} ≥200)	Not available in combination with stainless steel material	PWR3
			PWR6
			PWR10
			PWR20

Differential pressure

	04	Max. admissible differential pressure of the filter element 30 bar [435 psi]	Α	
E	Elem	ent design		

0

05	Standard adhesive

Filter element type 1. size 0004 ... 0012

1.			-	Α	0	0	-	5	-	М
01	02	03		04	05	06		07		08

Element design

	0		
	06 Standard material		0
B	/pass valve		
	07 With bypass valve -	- cracking pressure 2.5 bar [36.3 psi]	5
S	al		

Seal									
	08	NBR seal		М					

Further filter ratings and seal materials are available upon request.

More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 1.0006 PWR10-A00-5-M

Material no.: R928025249

Filter element type 1. size 0005; 0013 ... 0270C

01	02	03		04	05	06		07		08
1.			-	Α			-	0	-	

Filter element

01	Design	1.

S	i	z	е

0.20		
02	According to Hengst standard	0005
		0008
		0013
		0015
		0018
		0020
		0030
		0045
		0055
		0059
		0060
		0061
		0200
		0270
		0145C ¹⁾
		0200C 1)
		0270C 1)

Filter rating in µm

Nominal	Stainless steel wire mesh, cleanable	G10
		G25
		G40
		G60
		G100
		G200
		G500
		G800
	Filter paper, not reusable (not cleanable)	P10
		P25
Absolute	Glass fiber material HXL, not reusable, not cleanable	H3XL
(ISO 16889; β _{x(c)} ≥200)	Only available in combination with stainless steel material	H6XL
		H10XL
		H20XL
	Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
	Not available in combination with stainless steel material	PWR3
		PWR6
		PWR10
		PWR20
Water-absorbing	Water-absorbing AS, not reusable, not cleanable	AS3
	Only configurable with a max. differential pressure of 30 bar [435 psi]	AS6
	Only suitable for use in HLP and HEES fluids	AS10
		AS20

Differential pressure

04	Max. admissible differential pressure of the filter element 30 bar [435 psi]	A
	Max. permissible differential pressure for the filter element 60 bar [870 psi] only possible up to nominal size 0030	D
	Max. permissible differential pressure for the filter element 50 bar [725 psi] only possible for nominal size 0060 and 0095	Т

Filter element type 1. size 0005; 0013 ... 0270C

01	02	03		04	05	06		07		08
1.			-	Α			-	0	-	

Element design

05	Standard adhesive	0
	Special adhesive, improved temperature and media resistance Only configurable in connection with FKM seal	н

Element design

06	Standard material	0
	Stainless steel	v
	Only configurable in connection with special adhesive and FKM seal	

Bypass valve

07	Without bypass valve	0	
Sea	1		

08	NBR seal	М
	FKM seal	V

1) Only configurable with glass fiber material "PWR...". Not configurable with special adhesive "H" and stainless steel element design "V"

Further filter ratings and seal materials are available upon request.

More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 1.0013 PWR10-A00-0-M

Material no.: R928005513

Filter element type 1. size 360 ... 1801

01	02	03		04	05	06		07		08
1.			-				-	0	-	

Filter element

01	Design	1.

Size	
------	--

OILC		
02	According to Hengst standard	360
		361
		560
		561
		900
		901
		1400
		1401
		1800
		1801

Filter rating in µm

	Nominal	Stainless steel wire mesh, cleanable	G10
			G25
			G40
			G60
			G100
			G200
			G500
			G800
		Filter paper, not reusable (not cleanable)	P10
			P25
Ī	Absolute	Glass fiber material HXL, not reusable, not cleanable	H3XL
	(ISO 16889; β _{x(c)} ≥200)	Only available in combination with stainless steel material	H6XL
		•	H10XL
			H20XL
		Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
		Not available in combination with stainless steel material	PWR3
			PWR6
			PWR10
			PWR20

Differential pressure

04	Max. admissible differential pressure of the filter element 30 bar [435 psi]	А
	Max. admissible differential pressure of the filter element 60 bar [870 psi]	D

Filter element type 1. size 360 ... 1801

01	02	03		04	05	06		07		08
1.			-				-	0	-	

Element design

05	Standard adhesive	0
	Special adhesive, improved temperature and media resistance	н
	Only configurable in connection with FKM seal	

Element design

06	Standard material	0
	Stainless steel	v
	Only configurable in connection with special adhesive and FKM seal	

Bypass valve

07	Without bypass valve	0
Seal		
08	NBR seal	М
	FKM seal	v

Further filter ratings and seal materials are available upon request.

More detailed information on Hengst filter material configuration is available in RE 51548.

Order example:

1.560 PWR10-A00-0-M

Material no.: R928028040

Filter element type 2. size 10 ... 900

01	02	03		04	05	06		07		08
2.			-				-	0	-	

Filter element

01	Design	2.

S	i	z	e

Size		
02	According to Hengst standard	10
		18
		32
		56
		90
		140
		180 ¹⁾
		225
		360
		460
		560
		900

Filter rating in µm

Nominal	Stainless steel wire mesh, cleanable	G10
		G25
		G40
		G60
		G100
		G200
		G500
		G800
	Filter paper, not reusable (not cleanable)	P10
		P25
	Non-woven material, not reusable (not cleanable)	VS25
Absolute	Glass fiber material HXL, not reusable, not cleanable	H3XL
(ISO 16889; β _{x(c)} ≥200)	Only available in combination with stainless steel material	H6XL
		H10XL
		H20XL
	Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
	Not available in combination with stainless steel material	PWR3
		PWR6
		PWR10
		PWR20

0

Ordering codes Filter element

Filter element type 2. size 10 ... 900

01	02	03		04	05	06		07		08
2.			-				-	0	-	

Differential pressure

04	Max. admissible differential pressure of the filter element 30 bar [435 psi]	A
	Max. admissible differential pressure of the filter element 330 bar [4786 psi]	В

Element design

Γ	05	Standard adhesive	0
		Special adhesive, improved temperature and media resistance Only configurable in connection with FKM seal	н
		only configurable in configura	

Element design

06	Standard material	0
	Stainless steel	v
	Only configurable in connection with special adhesive and FKM seal	

Bypass valve

Seal 2)

ocui		
08	NBR seal	М
	FKM seal	v

¹⁾ Only configurable with differential pressure A = 30 bar [435 psi] and stainless steel element design "V"

Further filter ratings and seal materials are available upon request.

More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 2.32 PWR10-A00-0-M

Material no.: R928019015

Filter element type 2. size 0003 ... 0145

01	02	03		04	05	06		07		08
2.			-				-	0	-	

Filter element

Size	
------	--

Size		
02	According to Hengst standard	0003
		0004
		0005
		0008
		0013
		0014 ¹⁾
		0015
		0018
		0019 ¹⁾
		0020
		0030
		0045
		0055
		0095
		0145

Filter rating in µm

3 Nominal	Stainless steel wire mesh, cleanable	G10
		G25
		G40
		G60
		G100
		G200
		G500
		G800
	Filter paper, not reusable (not cleanable)	P10
		P25
	Non-woven material, not reusable (not cleanable)	VS25
Absolute	Glass fiber material HXL, not reusable, not cleanable	H3XL
(ISO 16889; β _{x(c)} ≥200)	Only available in combination with stainless steel material	H6XL
		H10XL
		H20XL
	Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
	Not available in combination with stainless steel material	PWR3
		PWR6
		PWR10
		PWR20
	Non-woven metal fiber, not reusable (not cleanable)	M5
		M10

0

Ordering codes Filter element

Filter element type 2. size 0003 ... 0145

01	02	03		04	05	06		07		08
2.			-				-	0	-	

Differential pressure

04	Max. admissible differential pressure of the filter element 30 bar [435 psi]	A
	Max. admissible differential pressure of the filter element 330 bar [4786 psi]	B ²⁾

Element design

05	Standard adhesive	0
	Special adhesive, improved temperature and media resistance	н
	Only configurable in connection with FKM seal	

Element design

0	6 3	Standard material	0
		Stainless steel Only configurable in connection with special adhesive and FKM seal	v
	'	Only configurable in connection with special adhesive and FNW sea	

Bypass valve

07 Without byp	ass valve
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Seal 2)

08	NBR seal	М
	FKM seal	v

¹⁾ Only configurable with stainless steel element design "V"

 $^{\rm 2)}$ Not in connection with size 0003

Further filter ratings and seal materials are available upon request.

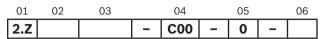
More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 2.0008 PWR10-A00-0-M

Material no.: R928006161

Filter element type 2.Z

for sandwich plate filter 250 ZH



Filter element

01	Design	2.Z

Size

0.20		
02	According to Hengst standard	30
		90
		120
		180
		220

Filter rating in µm

03	Absolute	Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR1
	(ISO 16889; β _{x(c)} ≥200)	Not available in combination with stainless steel material	PWR3
			PWR6
			PWR10
			PWR20

Differential pressure

04	Max. admissible differential pressure of the filter element 160 bar [2321 psi]	C00		
Bypass valve				
05	05 Without bypass valve			
Seal				

06	NBR seal	м
	FKM seal	V

Further filter ratings and seal materials are available upon request.

More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 2.Z90 PWR10-C00-0-M

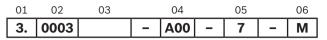
Material no.: R928036119

З.

Ordering codes Filter element

Filter element type 3.0003

for return flow filter 10 FRE 0003



Filter element

01 Design

Size

02	According to Hengst standard	0003

Filter rating in µm

3	Nominal	Stainless steel wire mesh, cleanable	G10
			G25
			G40
			G60
			G100
		Filter paper, not reusable (not cleanable)	P10
			P25
Ī	Absolute	Glass fiber material PWR Generation 5, not reusable, not cleanable	PWR3
	(ISO 16889; β _{x(c)} ≥200)	Not available in combination with stainless steel material	PWR6
			PWR10
			PWR20

Differential pressure

04	Max. admissible differential pressure of the filter element 30 bar [435 psi]					
Bypa	ss valve					
05	With bypass valve – cracking pressure 3.5 bar [50.8 psi]	7				
Seal						
06	NBR seal	М				

Further filter ratings and seal materials are available upon request.

More detailed information on Hengst filter material configuration is available in RE 51548.

Order example: 3.0003 PWR10-A00-7-M

Material no. R928025675

Filter element assignment to filter series

Element type	Series	Application	
1.10 - 225/450	16 RA 10 - 225/450 with valve		
1.E10 - 225/450	16 RA 10 - 225/450 without valve	Return flow filter	
4.000(4)	16 RL/DR 360(1) - 1800(1)		
1.360(1) - 1800(1)	25/100 L/D 360(1) - 1800(1)	Inline filter	
1.10 - 225/450 1.E10 - 225/450 1.360(1) - 1800(1) 1.0004 - 0012	10 RE	Return flow filter	
1.0005; 1.0008; 0013 - 0120	10 FRE/FRD 0005-0120; 40 FLDK 0008-0120; 40/100 FLE/FLD 0020-0120; 16 FLD 0190-0300	Return flow filter; double return flow filter; inline filter; duplex filter	
1.0145(C) - 0270 (C)	40 FLE 0145(C) - 0270(C); 40 FLD 0146(C) - 0274(C)	Inline filter; duplex filter	
2 10 - 900	25/100 - 250/400 D/ED	Duplex filter	
2.10 - 500	250/450 L /EL/F	Inline filter	
2.180	10 DLW	inine inter	
2.Z30 - 180	250 ZH	Sandwich plate filter	
2.0003 (without valve)	10 FRE 0003	Return flow filter	
3.0003 (with valve)	10 FRE 0003	Return now litter	
2.0004 - 0145	40/160/250/450 LE/LD 0003 - 0145; 250 FE 0003 - 0055; 450 FE 0003 - 0145 40/100 EL 0004-0045; 450 EL 0004 - 0145; 690 EL 0004 - 0014; 1000 EL 0004: 40/100 ED 0004 - 0019	Inline filter; duplex filter	

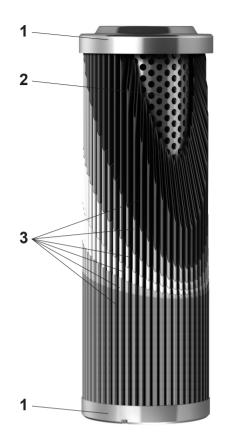
Function, section

The filter element is the main component of industrial filters. It is in the filter element where the actual filtration takes place. The main filter variables, such as retention capacity, dirt holding capacity and pressure loss are determined by the filter elements construction and the filter media used. Hengst filter elements are used for the filtration of various hydraulic fluids, lubrication fluids, other industrial fluids and gases.

Filter elements consist of a combination of star-like pleated filter media (3) which are laid around a perforated support tube (2). In longitudinal direction, the filter element is sealed using a 2-component adhesive and support tube and filter element mat are connected with both end disks (1). Sealing between the filter element and the filter housing is effectively done by means of one or two seals.

For the sizes 1.(E)10 to 1.(E)225/460, the seal is a part of the filter housing.

The general flow pattern is from the outside to the inside of the filter element.



Technical data preferred program

(For applications outside these values, please consult us!)

General			
		from the outside to the inside -10 +65 [+14 +149] (for short periods down to -30 [-22])	
	Seal FKM	°C [°F]	-20 +65 [-4 +149]; max. relative air humidity 65%
Material	Cover/base		steel galvanized/aluminum/polyamide or stainless steel
	Support tube		steel galvanized/tin-coated or stainless steel
	► Seals		NBR or FKM
Hydraulic			
Minimum conductivity of the medium pS/m		n 300	

Admissible operating temperature range, depending on material combination

		Operating temperature range	e °C [°F]			
Filter material configuration	Code letter	Sealing material NBR "M" adhesive (standard) "0" material (standard) "0"	Sealing material (FKM) "V" adhesive (standard) "0" material (standard) "0"	High-temperature "HV-V" adhesive (standard) "H" material (standard) "V"		
Aquasorb	AS	-0 +100 [32 +212]	-0 +100 [32 +212]	not configurable		
Stainless steel wire mesh	G	-40 +100 [-40 +212]	-20 +100 [-4 +212]	-20 +170 [-4 +338]		
Glass fiber material HXL	HXL	-40 +100 [-40 +212]	-20 +100 [-4 +212]	-20 +160 [-4 +320]		
Glass fiber material PWR	PWR	-40 +100 [-40 +212]	-20 +100 [-4 +212]	not configurable		
Non-woven metal fiber	M	-40 +100 [-40 +212]	-20 +100 [-4 +212]	-20 +170 [-4 +338]		
Filter paper	P	-40 +100 [-40 +212]	-20 +100 [-4 +212]	not configurable		
Non-woven material	VS	-40 +80 [-40 +176]	-20 +80 [-4 +176]	-20 +80 [-4 +176]		

For temperatures up to 170 °C, the high-temperature configuration "...HV-V" is required. That means:

- ► Filter element adhesive (special) "H"
- ► Filter element material (stainless steel) "V"
- Sealing material (FKM) "V"

Compatibility with permitted hydraulic fluids

Hydraulic fluid		Classification	Suitable sealing materials	Suitable adhesive	Standards
Mineral oil		HLP	NBR	Standard	DIN 51524
Bio-degradable	– insoluble in	HETG	NBR		VDMA 24568
	water	HEES	FKM		VDIVIA 24568
	- soluble in water	HEPG	FKM		VDMA 24568
Flame-resistant	- water-free	HFDU, HFDR	FKM		VDMA 24317
	– containing	HFAS	NBR		DIN 24220
	water	HFAE	NBR		DIN 24320
		HFC	NBR		VDMA 24317

Important information on hydraulic fluids!

- ► For further information and data on the use of other hydraulic fluids, please refer to data sheet 90220 or contact us!
- Flame-resistant containing water: Due to possible chemical reactions with materials or surface coatings of machine and system components, the service life with these hydraulic fluids may be less than expected.

Filter materials made of filter paper P may not be used, filter elements with glass fiber filter material are to be used instead.

 Bio-degradable: If filter materials made of filter paper are used, the filter life may be shorter than expected due to material incompatibility of and swelling.

Assembly, commissioning, maintenance

When must the filter element be replaced or cleaned?

As soon as the back pressure or the differential pressure setting of the maintenance indicator has been reached, the red pushbutton of the mechanical/visual maintenance indicator pops out. If an electronic switching element is present, an electric signal will be generated. In this event, the filter element should be replaced or cleaned. It is not advisable to operate a filter housing without a filter element maintenance indicator, however, in the event that the filter housing is not fitted with an indicator, we recommend exchanging or cleaning the filter elements at least every 6 months.

Environment and recycling

Filter element exchange

- For single filters: Switch off the system and discharge the filter on the pressure side.
- For duplex switch filters: See relevant maintenance instructions according to the data sheet.

Detailed instructions with regard to the filter element exchange can be found in the data sheet of the relevant filter series.

A WARNING!		
 Filters are containers under pressure. Before opening the filter housing, check whether the system pressure in the filter has been decreased to ambient pressure. Only then may the filter housing be opened for main- tenance. 	 Filter elements must be unpacked outside ATEX zones 	

IF Notice:

- Due to the high viscosity at cold start conditions, the pre-set signal value of the visual maintenance indicator may be exceeded at start-up.
 Once the operating temperature has been reached, the mechanical/visual indicator can be reset manually. The electrical signal will reset once the operating temperature has been reached.
- If the maintenance indicator alarm is disregarded, the disproportional, increasing differential pressure may damage the filter element (collapse).
- Information on dirt holding capacity characteristic values exclusively refer to the measurement results obtained under laboratory conditions according to ISO 16889. These may deviate from measurements obtained in real applications due to various influencing factors.

It is expected that a higher comparable dirt holding capacity, according to ISO 16889 at a comparable filtration ratio $\beta_{x(c)}$, can be achieved under real operating conditions.

- Warranty expires in the event that the delivered item is changed by the ordering party or third parties or improperly mounted, installed, maintained, repaired, used or exposed to environmental conditions that do not comply with the installation conditions.
- Technical characteristic values such as retention rate and dirt holding capacity have been determined at a temperature of 40 °C (+/- 5 °C).

Guidelines and standards

Product validation

Hengst filter elements are tested and quality-controlled according to various ISO test standards:

Filtration performance test (multipass test)	ISO 16889:2008-06
Δp (pressure loss) characteristic curves	ISO 3968:2001-12
Compatibility with hydraulic fluid	ISO 2943:1998-11
Collapse pressure test	ISO 2941:2009-04
Fluid power, hydraulic filters, part 2, evaluation criteria and requirements	DIN 24550-2:2006-09

The development, manufacture and assembly of Hengst industrial filters and Hengst filter elements are carried out within the framework of a certified quality management system in accordance with ISO 9001:2015.

Use in potentially explosive areas according to directive 2014/34/EU (ATEX):

The filter elements are not equipment or components in the sense of directive 2014/34/EU and are not provided with the CE marking.

It has been proven with the ignition risk analysis that these filter elements do not have own ignition sources according to DIN EN ISO 80079-36.

The filter elements can be used for the following potentially explosive atmospheres:

	Zone suitability	
Gas	1	2
Dust	21	22

A WARNING!		
 For use of the filter elements in potentially explosive areas, ATEX suitability of the complete filter assembly is an imperative requirement. Conductivity of the medium: at least 300 pS/m. During filter element exchange, the packaging material is to be removed from the replacement element outside the potentially explosive atmosphere. 	Maintenance to be conducted only by specialists, as per the instruction by the machine end-user according to DIRECTIVE 1999/92/EC appendix II, section 1.1	

Intended use

The filter elements serve as components as per the EC Machinery Directive 2006/42/EC in hydraulic machinery for the separation of dirt particles.

- The filter elements are to be used under the following boundary conditions and limits:
- ▶ Only in hydraulic systems with fluids of group 2, according to Pressure Equipment Directive 2014/68/EU
- > Only according to the application and environmental conditions in the chapter "Technical data"
- Only in compliance with the specified performance limits in the section "Technical data"; extended operational durability/load cycles on request
- > Only with hydraulic fluids and the intended seals according to the section "Compatibility with hydraulic fluids"
- ▶ Use in potentially explosive atmospheres according to the chapter "Guidelines and standards"
- Compliance with application and environmental conditions according to the technical data
- Compliance with the specified performance limits
- ▶ The filter elements are intended exclusively for professional use and not for private use.

Improper use

Any use deviating from the intended use is deemed as improper and thus not admissible.

Improper use of the filter elements includes:

- Incorrect storage
- Incorrect transport
- Lack of cleanliness during storage and assembly
- ► Incorrect installation
- Use of inappropriate/non-admissible hydraulic fluids
- Exceedance of the specified maximum pressures and load cycles
- Operation outside the approved temperature range
- ▶ Installation and operation in inadmissible device group and category

Hengst Filtration GmbH does not assume any liability for damage caused by improper use. The user assumes all risks involved with improper use.

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