

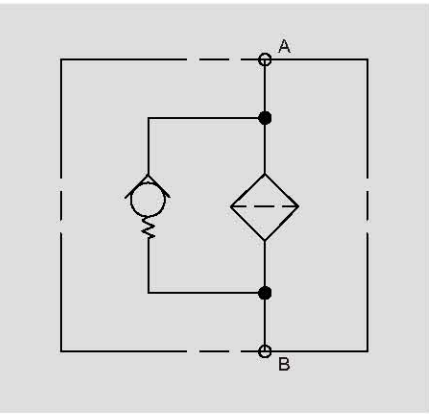


直回型回油过滤器 LFA

Gyri-Rectus Return Filter LFA

- 流量至 1000L/min
Maximum Flow Rate 1000L/min

液压符号
Hydraulic Symbols



1 技术说明
Technical States

1.1 过滤器壳体
Filter Shell

结构
Structure

直回型回油过滤器由滤盖、滤筒、旁通阀组成，出油口对面有污染发讯器接孔。
Gyri-Rectus Return Filter consists of Cover and Barrel and Bypass-Valve. There is a clogging indicator opposite the oil-outlet.

1.2 滤芯最大允许压差
Filter Element-Maximum Allowable Pressure Differential:

BN3HC: 25bar
P/HC: 10bar
W/HC: 30bar

1.3 介质的兼容性
Compatibility of Medium

适用于矿物油、润滑油、抗燃油、以及可迅速分解的生物油。
用于水介质时请咨询我们技术部门。
Suitable for mineral oils, lubrication oils, non-flam oils and rapidly biodegradable oils. Please inquire for aqueous medium if needed.

2 概述
General

安装
Mounting

油箱顶部安装
Tank-top mounted

流向
Flow Direction

入口：侧面
Inlet: Side

出口：垂直向下
Outlet: Vertically Downward

温度范围
Temperature Range
-10℃~+100℃

其他温度范围请咨询。
Please inquire for other temperature if needed.

污染发讯器设定压力
Pressure Setting of Clogging Indicator
 $\Delta P_a = 3.5 \text{ bar}$

旁通阀开启压力
Opening Pressure of Bypass Valve
 $\Delta P_o = 4 \text{ bar}$

其他开启压力请咨询。
Please inquire for other opening pressure if needed.

3 型号说明 (订货示例)
Model Code (Order Example)

3.1 过滤器
Filter

过滤器型式 Filter Type LFA BN/HC 160 M 10 B 1 X /-V

滤芯材料 Material of Element

BN/HC 玻璃纤维 Glass Fiber

P/HC 纸质 Paper

W/HC 不锈钢金属网 Stainless Steel Net

壳体规格/材料 Shell: Material/Spec

铝 Al: 25、40、63、100、160、250、400、630、800、1000

连接形式/连接尺寸 Connection Type/Connection Size

代号 Code	连接类型 Connecting	过滤器型号 Filter Model								
		25	40	63	100	160	250	400	630	1000
M	M22X1.5	●								
M	M27X2		●							
M	M33X2			●						
M	M42X2				●					
M	M48X3					●				
F	Ø50						●			
F	Ø65							●		
F	Ø90								●	●
Z		根据用户需要定制 According to customer specification								

过滤精度 (μm) Filtration Precision (μm)

BN3HC : 3、5、10、20

P/HC : 10、20

W/HC : 25、50、100、200

污染发讯器形式 Type of Clogging Indicator

A 发讯器接口带钢制螺塞 Clogging indicator with steel plug

B 目视发讯器 Visual clogging indicator

C 电气发讯器 Electrical clogging indicator

D 目视/电气发讯器 Combined visual / electrical clogging indicator

型式代号 Type Number

1 标准连接 Standard Connection

改型代号 Modification Number

X 提供最新版本 Newest Version Provided

补充说明 Supplemental Instruction

V 氟橡胶密封，过滤器适用于易迅速生物分解的油和磷酸酯

FPM seal, filter suitable for rapidly biodegradable oil and organic phosphate

L 相应电压 (24V、220V) with corresponding voltage (24V、220V)

KB 无旁通阀 No Bypass Valve

B 旁通阀有特殊开启压力 (B2=2bar) Bypass Valve with special opening pressure (B2=2bar)

3.2 滤芯

Filter

规格Spec

0025、0040、0063、0100、0160、
0250、0400、0630、0800、1000、

型式Type

A

过滤精度 (μm) Filtration Precision (μm)

BN3HC:3、5、10、20
P/HC :10、20
W/HC :25、50、100、200

过滤材料 Material of Element

BN3HC, P/HC,W/HC

补充说明 Supplemental Parameters

V 氟橡胶密封, 过滤器适用于易迅速生物分解的油和磷酸酯 (HFD-R)
FPMseal, filter suitable for rapidly biodegradable oil and organic phosphate (HFD-R)
W 丁腈胶密封, 过滤器适用于乳化液 (HFA, HFC) (只适用于W/HC滤芯)
NBR seal, suitable for oil-water emulsions (HFA/HFC), only for W/HC filters

0160

A

010

BN3HC

/-V

4 过滤器技术参数

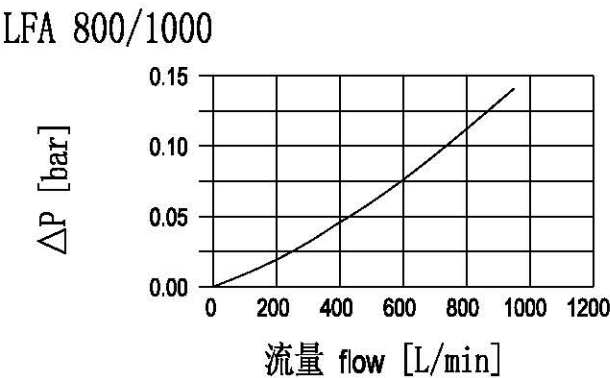
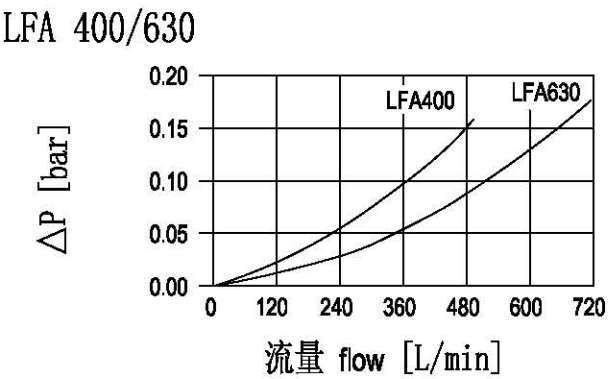
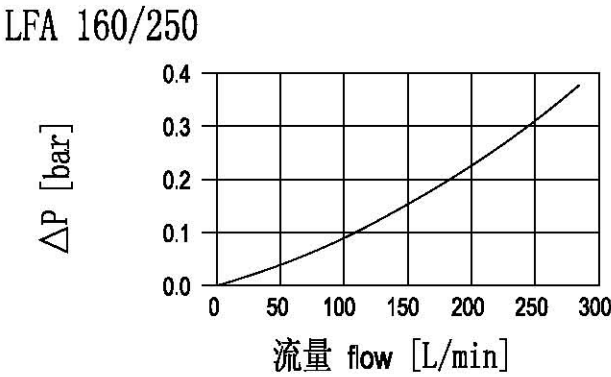
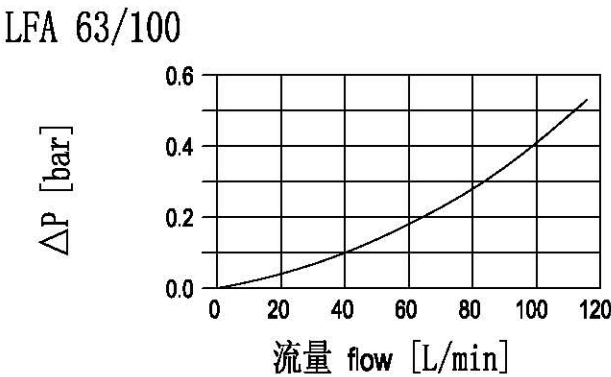
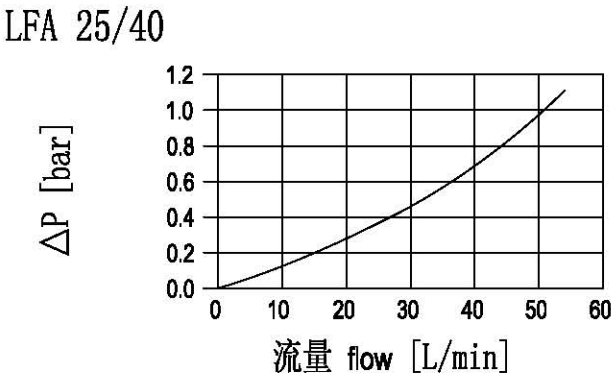
Filter--Technical Parameters

过滤器型号 Filter Model	通径 Dia (mm)	公称流量 Flow rate (L/min)	公称压力 Press (Mpa)	过滤精度 Filter (μm)	发讯值 Indicator (Mpa)	旁通阀开启压力 By-pass valve (Mpa)	发讯器功率 Indicator power	滤芯型号 Model of element	连接形式 Connecting	重量 Weight (kg)
LFA 25...	ø15	25	1.6	3 5 10 20 30 50	0.35	0.4	DC:48W 24V 2A AC:55W 220V 0.25A	0025 A...	螺纹	0.85
LFA 40...	ø20	40						0040 A...		0.9
LFA 63...	ø25	63						0063 A...		1.5
LFA 100...	ø32	100						0100 A...		1.7
LFA 160...	ø40	160						0160 A...		2.7
LFA 250...	ø50	250						0250 A...	法兰	4.35
LFA 400...	ø65	400						0400 A...		6.15
LFA 630...	ø90	630						0630 A...		8.2
LFA 800...	ø90	800						0800 A...		8.9
LFA 1000...	ø90	1000						1000 A...		9.96

5 压差流量曲线图

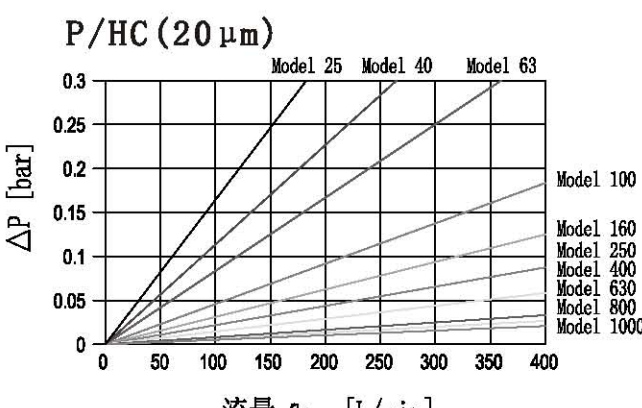
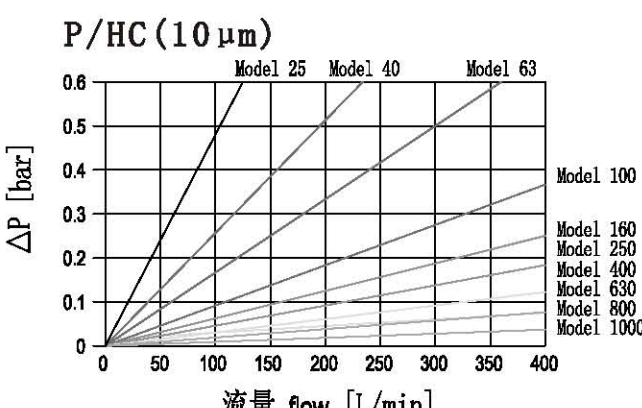
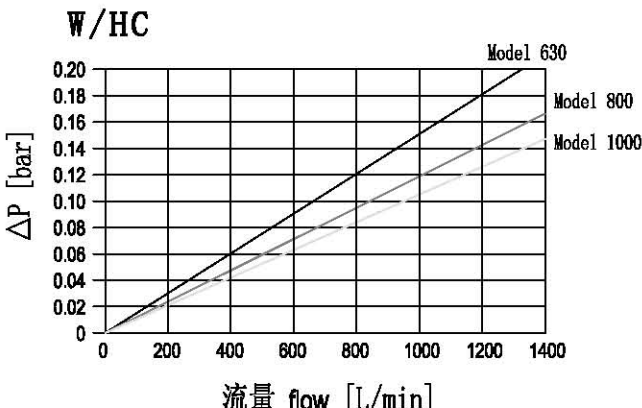
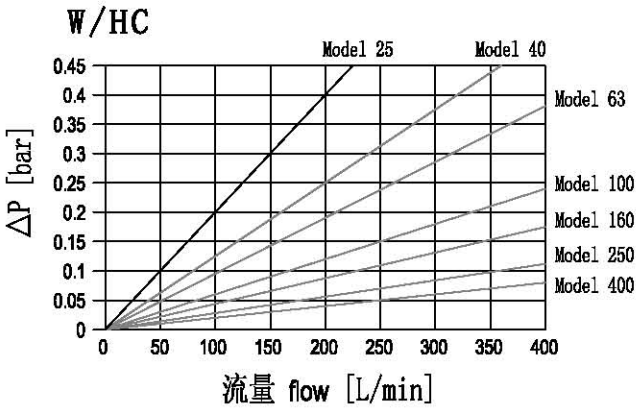
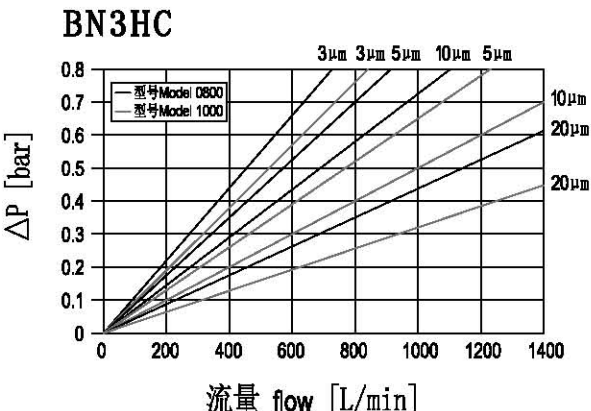
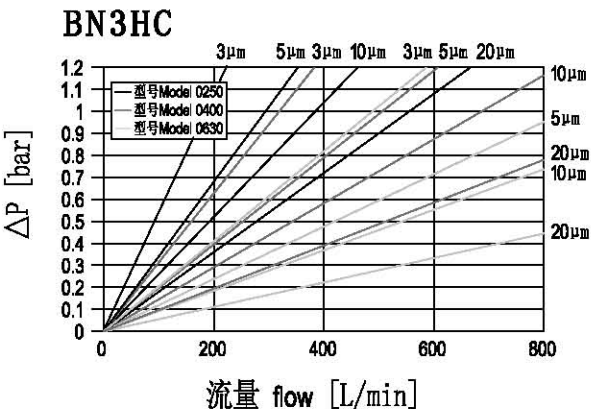
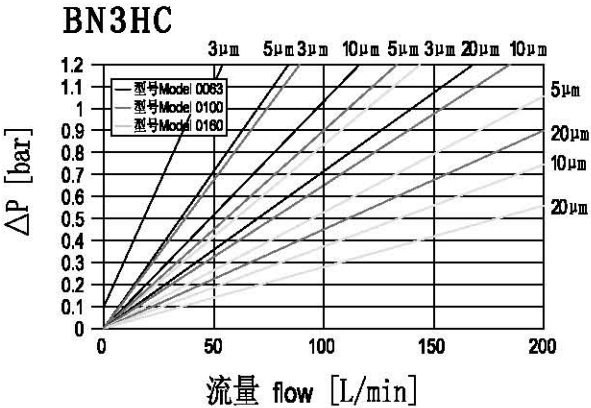
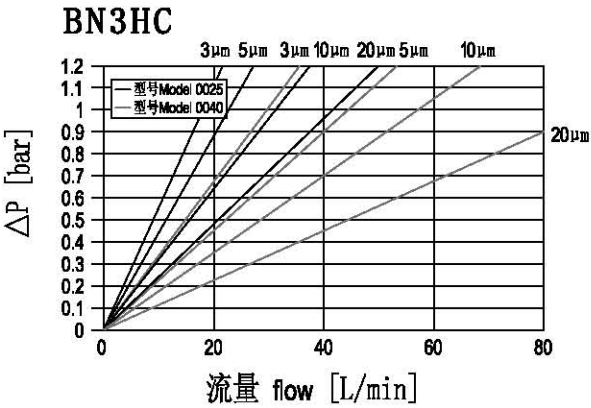
Pressure Differential Flow Curve Chat
特性曲线适用于密度为0.86kg/dm³且运动粘度为30mm²/s的矿物油。
Characteristic Curve is suitable for the mineral oil with density 0.86kg/dm³ & kinematic viscosity 30 mm²/s.

5.1 壳体压降流量特性曲线, 按ISO3968
Filter Shell Pressure Drop Flow Rate
Characteristic Curve, according to
ISO3968



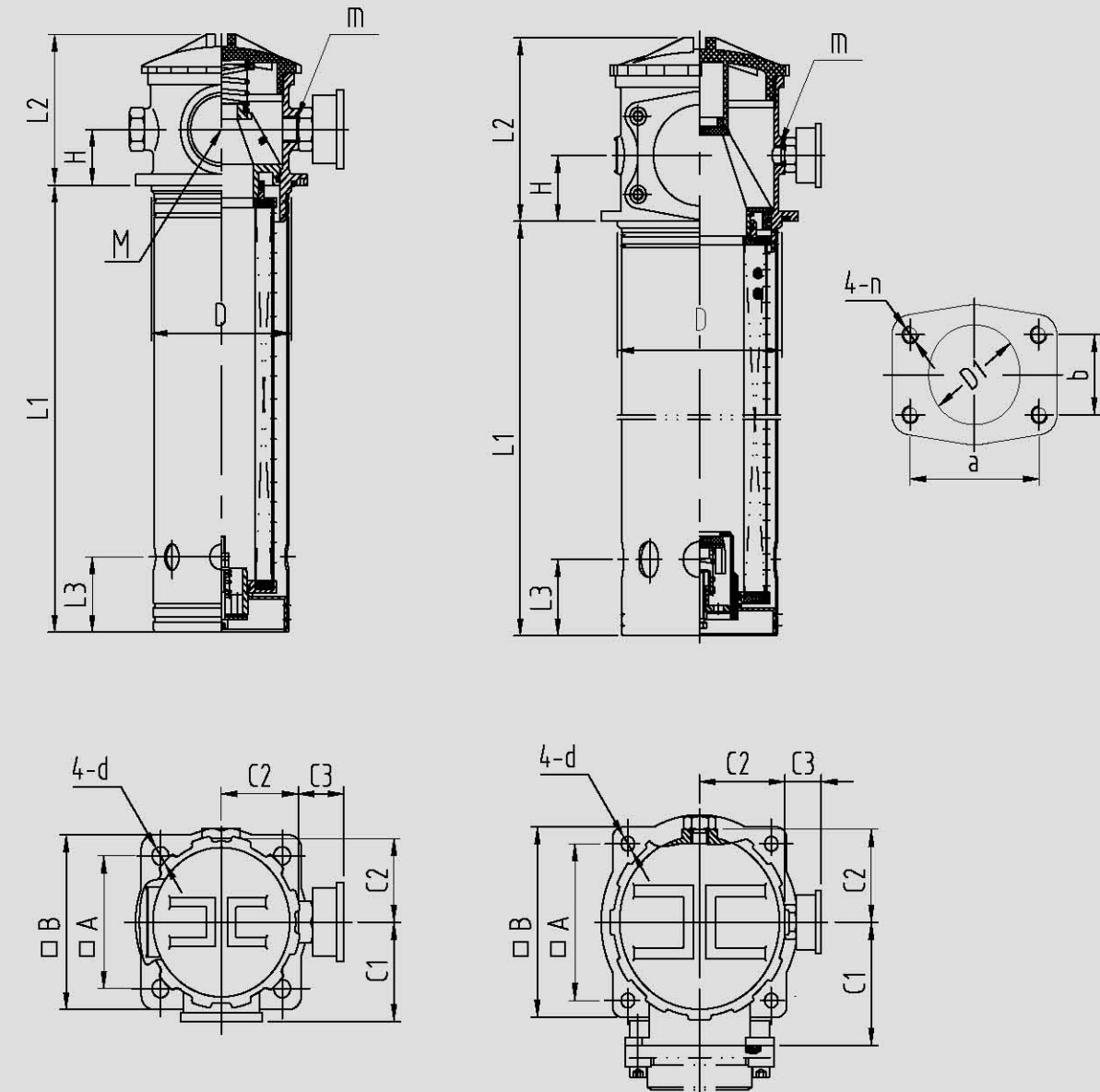
5.2 滤芯压降流量特性曲线

Filter Element--Pressure Drop
Characteristic Curve



6 外形尺寸

Overall Dimensions



过滤器型号 Filter Model	尺寸 Size (mm)															
	L1	L2	L3	H	D	M(D1)	m	A	B	C1	C2	C3	4-d	a	b	4-n
LFA 25...	127	74	45	25	Ø75	M22×1.5	M18 × 1.5	90	70	53	45	39	Ø9	/	/	/
LFA 40...	158					M27×2								/	/	/
LFA 63...	185					M33×2								/	/	/
LFA 100...	245					M42×2								/	/	/
LFA 160...	322	108	80	40	Ø110	M48×2		125	95	71	61		Ø13	/	/	/
LFA 250...	422					Φ50				81	61			70	40	
LFA 400...	467	135	100	55	Ø130	Φ65		140	110	90	68			90	50	M10
LFA 630...	494					120				70						
LFA 800...	606					175				118	70			Ø160	Φ90	
LFA 1000...	786															