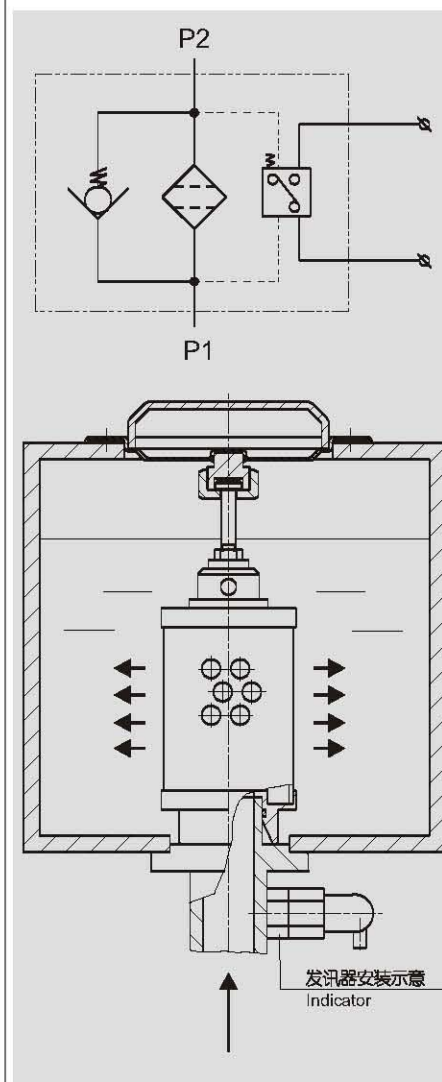


箱内回油过滤器 LNL

Inside Return Filter LNL

- 流量至1000L/min
Maximum Flow Rate 1000L/min
- 压力至6bar
Pressure up to 6bar

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

箱内回油过滤器由滤芯、法兰盖、旁通阀、止回阀、磁性装置组成。

Inside Return Filter consists of Element, Flange-Cover, Bypass-Valve, Check Valve and Magnetic Device.

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

装于液压系统回油管处
Mounted by the Hydraulic System Oil-Return Pipeline

流向
Flow Direction

内进外出
Inside Inlet, Outside Outlet

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
 $\Delta P_o = 4 \text{ bar}$

压力损失
Pressure Loss
 $\Delta P \leq 1 \text{ bar}$

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 LNL BN/HC 160 F 10 C 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	800	1000
F	Ø25	●	●								
F	Ø40			●	●						
F	Ø55					●	●				
F	Ø85							●	●		
F	Ø100									●	●
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 无发讯器 No clogging indicator

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 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

无参数标准 (丁腈橡胶密封) No Data Standard (NBR seal)

V 氟橡胶密封, 过滤器适用于可迅速生物分解的液压介质和磷酸酯 (HFD-R)

FPM seal, filter suitable for rapidly biodegradable oil and organic phosphate (HFD-R)

L 相应电压 (24V、220V) 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

L

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 氟橡胶密封件, 过滤器适用于磷酸酯 (HFD-R)
FPM seal, filter suitable for rapidly biodegradable oil and organic phosphate (HFD-R)

W 丁腈橡胶密封件, 过滤器适用于油水乳化液 (HFA,HFC)
NBR seal, suitable for oil-water emulsions (HFA/HFC)

0160 L 010 BN3HC /-V

4 过滤器技术参数

Filter--Technical Parameters

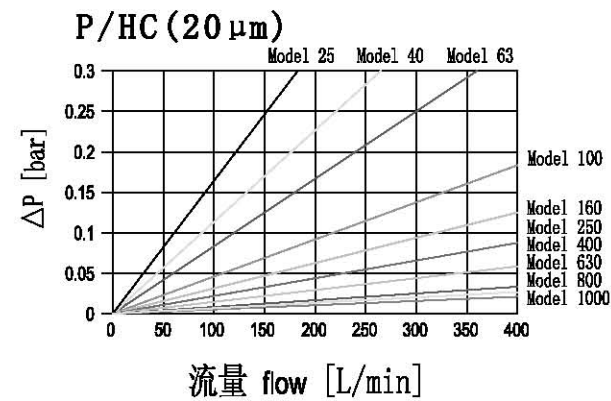
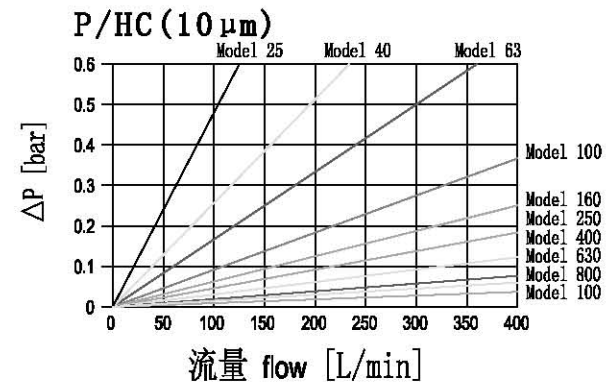
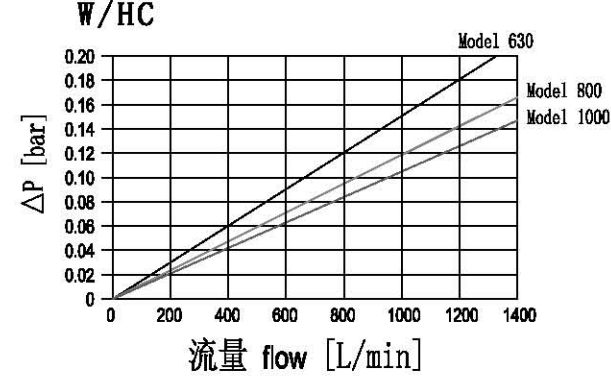
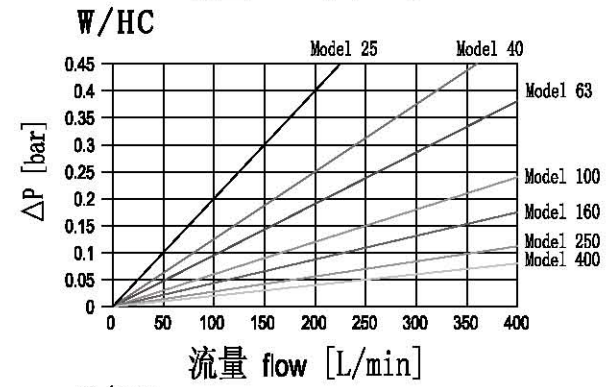
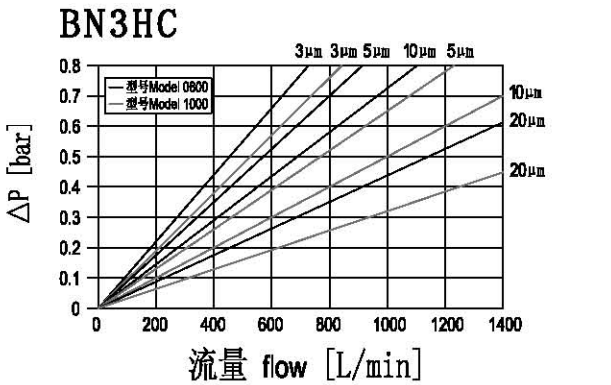
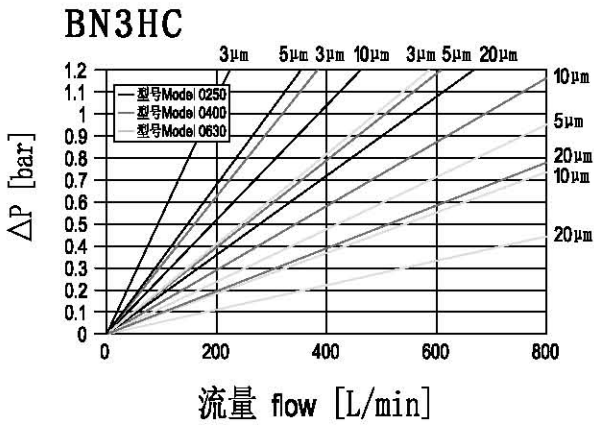
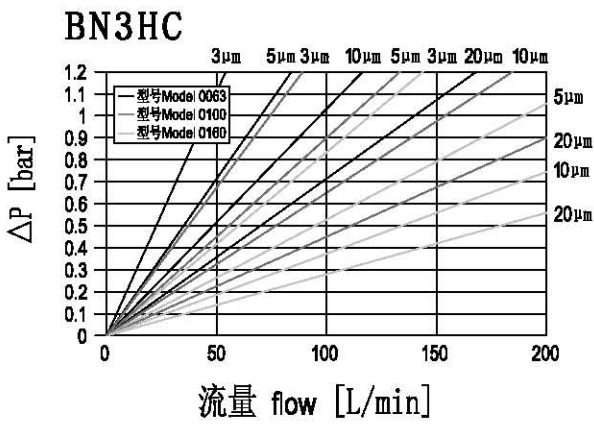
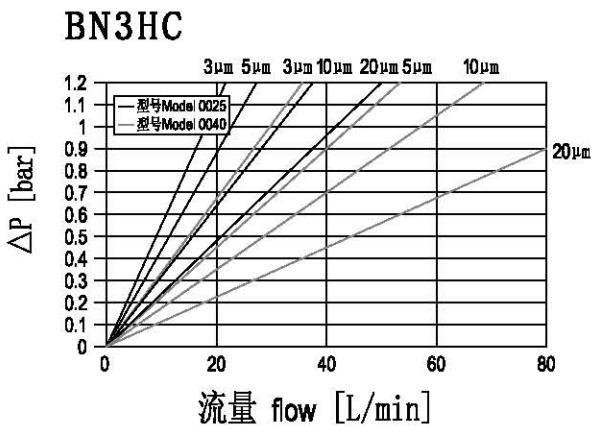
过滤器型号 Filter Model	通径 Dia (mm)	公称流量 Flow rate (L/min)	原始压力损失 Initial ΔP (Mpa)	发讯值 Indicator (Mpa)	旁通阀开启压力 By-pass valve (Mpa)	发讯器功率 Indicator power	滤芯型号 Model of element	连接形式 Connecting	重量 Weight (kg)
LNL 25...	ø20	25	< 0.01	0.35	0.4	DC:48W 24V 2A	0025 LBNVHC...	法兰	1.2
LNL 40...		40					0040 LBNVHC...		1.5
LNL 63...		63					0063 LBNVHC...		2.3
LNL 100...	ø32	100					0100 LBNVHC...		2.5
LNL 160...		160					0160 LBNVHC...		4.6
LNL 250...	ø50	250				AC:55W 220V 0.25A	0250 LBNVHC...		5.1
LNL 400...		400					0400 LBNVHC...		10.1
LNL 630...	ø80	630					0630 LBNVHC...		10.8
LNL 800...		800					0800 LBNVHC...		14.2
LNL 1000...	ø90	1000					1000 LBNVHC...		14.9

5 压差流量曲线图

Pressure Differential Flow Curve Chat

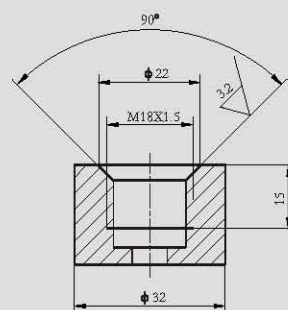
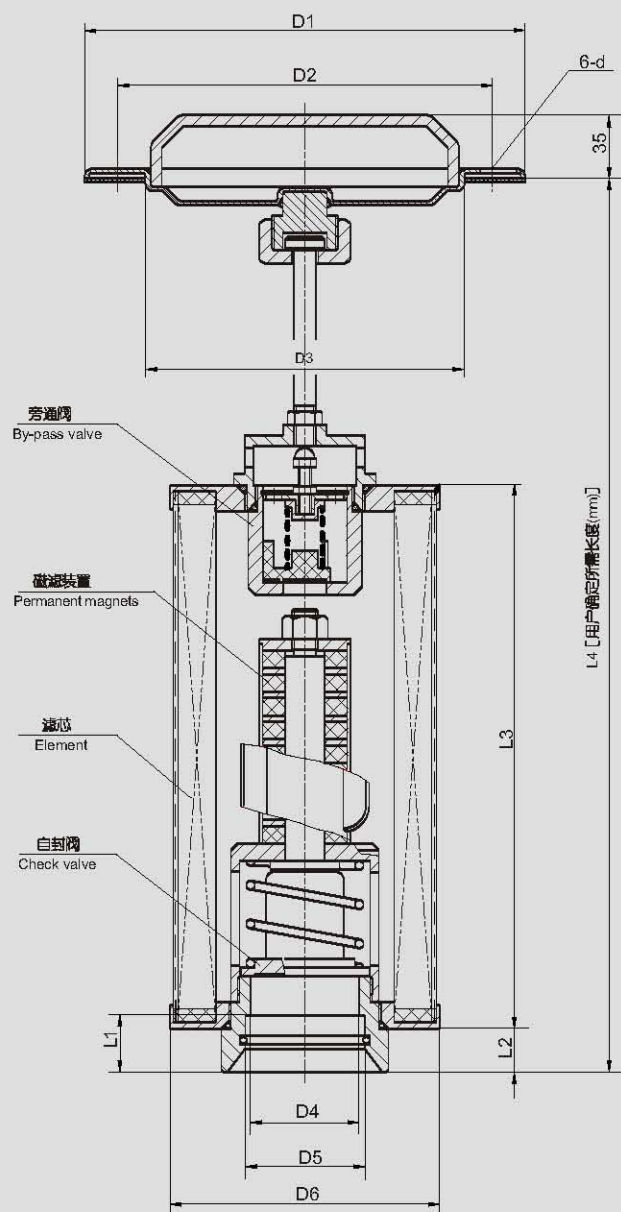
特性曲线适用于密度为0.86kg/dm³且运动粘度为30mm²/s的矿物油。压降流量特性曲线，按ISO3968

Characteristic Curve is suitable for the mineral oil with density 0.86kg/dm³ & kinematic viscosity 30 mm²/s.ressure Drop Flow Rate Characteristic Curve according to ISO3968

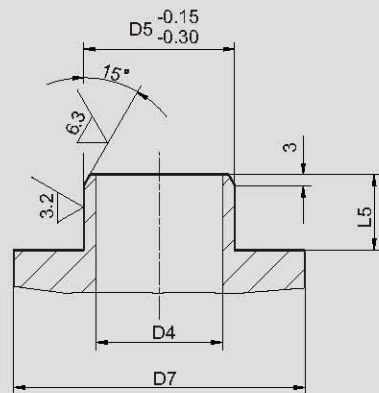


6 外形尺寸

Overall Dimensions



发讯器接口尺寸
Connect size for indicator



回油口接口尺寸
Connect size for inlet

过滤器型号 Filter Model	尺寸 Size (mm)												
	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4最小min	L5	d
LNL 25...	Ø129	Ø105	Ø85	Ø20	Ø25	Ø80	Ø46	21	12	145	280	20	Ø9
LNL 40...										180	315		
LNL 63...	Ø154	Ø130	Ø110	Ø32	Ø40	Ø106	Ø56	23	15	160	300	22	
LNL 100...										210	350		
LNL 160...	Ø200	Ø170	Ø145	Ø50	Ø55	Ø141	Ø76	28	20	250	430	27	Ø11
LNL 250...										320	500		
LNL 400...	Ø242	Ø210	Ø185	Ø80	Ø85	Ø180	Ø108	32	22	400	580	31	Ø13.5
LNL 630...										500	680		
LNL 800...	Ø262	Ø230	Ø205	Ø90	Ø100	Ø200	Ø127	32	22	600	805		
LNL 1000...										750	955		