LFV

Hydraulic valve with spool position monitoring
Sizes: 16, 25, 32, 40, 50
Flow: 130 to 1400 L/min
Max Pressure: 320 Bar

Index

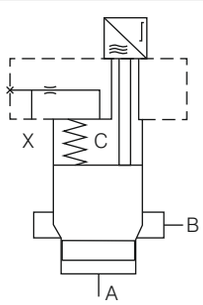
Introduction

2 way cartridge valve with spool position monitoring, it is designed to give feedback to inductive position switch to sense spool position, to secure equipment is operated under safety operation according to hydraulic circuit design and detection requirement.

When inductive position switch feedbacks error signal, the equipment stops operating immediately to ensure operator safety.

Symbols

(1). Standard Type



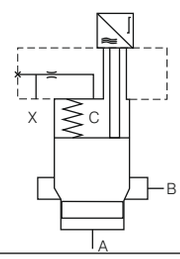
Specifications

Type	Model	Max Pressure (Bar)	Max Flow (l/min)					Cracking Pressure (Bar)	Installation
			16	25	32	40	50		
Standard	LFV*-A/B/C/D-20	320	130	350	500	850	1400	4	ISO 7368

Features

- Standard type (ISO7368 installation)
  - Size 16, 25, 32, 40, 50.
  - DIN43650 standard connector.
  - Installation bore according to ISO7368.
  - Functional diversity due to the installation of pilot solenoid valves.
  - Inductive position switch can be connected normal open or normal close.

Symbol



Ordering code

LFV	25	A	40	-	V	PM	G24	20	X15

Logic cartridge valve

Port Size:

NG16	= 16
NG25	= 25
NG32	= 32
NG40	= 40
NG50	= 50

Symbol:
refer to symbol table

Cracking Pressure:

4 Bar	= 40

Orifice

X10 =	1 mm orifice
X15 =	1.5 mm orifice
X20 =	2 mm orifice
X25 =	2.5mm orifice

Inductive position switch connector

20 =	DIN43650

Inductive position switch Voltage

G12 =	DC12V
G24 =	DC24V

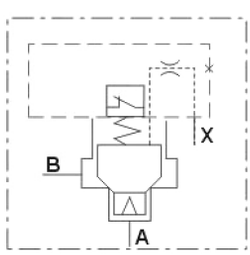
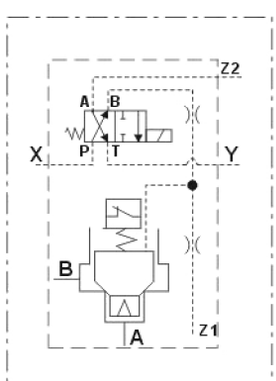
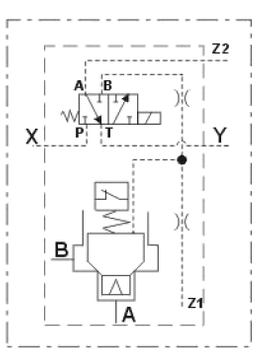
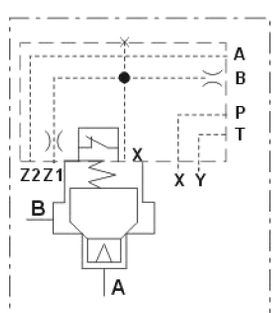
Inductive position switch

PM =	PNP
PH =	NPN

Seals

No code =	NBR (for mineral oil)
V =	Viton(Special)

Symbols:

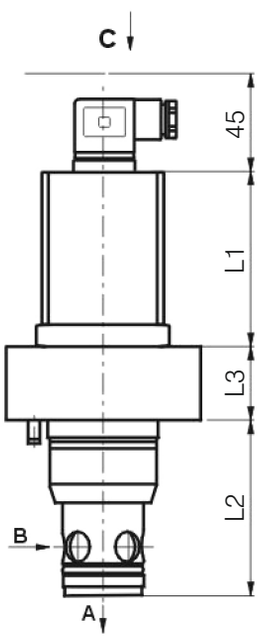
Type	A	B	C	D
Symbol				

Specifications

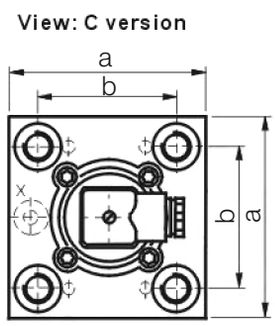
Type	Model	Max Pressure (Bar)	Max Flow (l/min)	Cracking Pressure(Bar)	Ratio of poppet area	Inductive position switch(V/mA)	Pilot Solenoid Valve (V/Hz)	Installation
Standard	LFV16-**	320	130	4	1.3:1	24/400	24/00	ISO7368
	LFV25-**		350		1.6:1			
	LFV32-**		500					
	LFV40-**		850					
	LFV50-**		1400					

Unit Dimensions

- LFV*A*-*-*(ISO7368 Installation)



Space for removing the mating connector



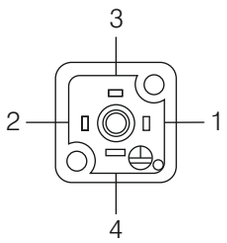
Port size	L1	L2	L3	a	b	Valve mounting screws	Tightening torque (kgf.cm)
LFV-16	70	56	57	65	46	4-M8X55	33
LFV-25	70	72	37	85	58	4-M12X35	115
LFV-32	70	85	40	102	70	4-M16X50	281
LFV-40	73.2	105	50	125	85	4-M20X60	553
LFV-50	73.2	122	60	140	100	4-M20X70	553

- Fixed screw included

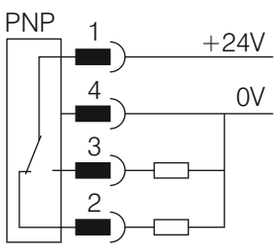
Electrical connection

• DIN 43650 Connector

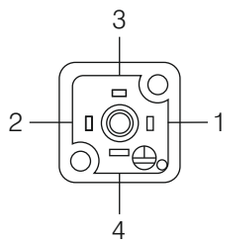
PMG24-*(PNP)
Contact assignment



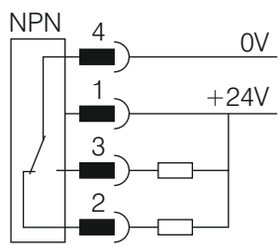
1. +24V
2. Normally closed
3. Normally opened
4. 0V



PHG24-*(NPN)
Contact assignment



1. +24V
2. Normally closed
3. Normally opened
4. 0V



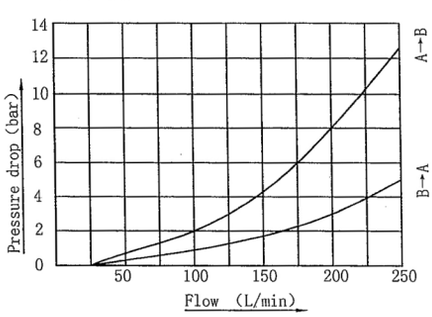
Note: The No. 4 pin is connected with 0 Voltage, not to the Ground

Performance Graph

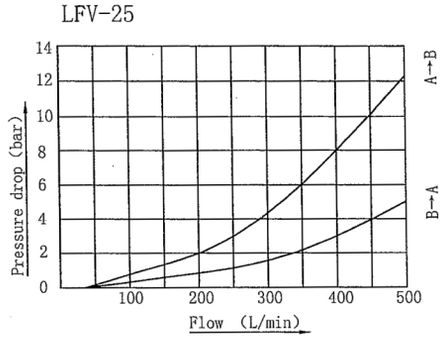
• Perfomance drop Characteristics

Simulated with HLP46, t = 45±5°C

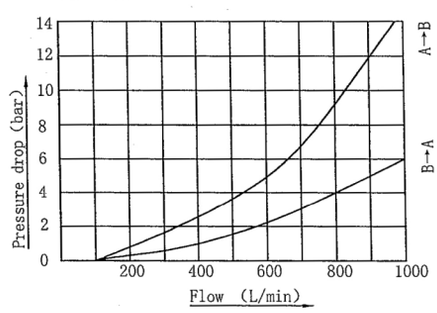
LFV-16



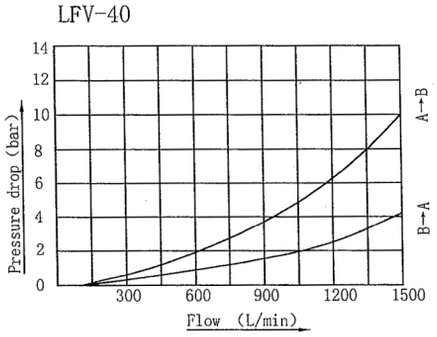
LFV-25



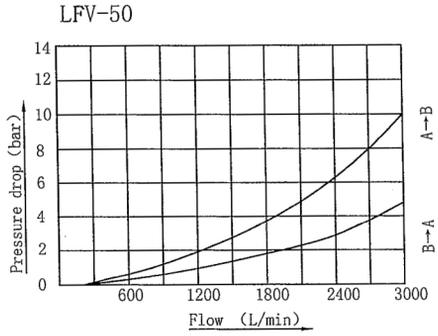
LFV-32



LFV-40



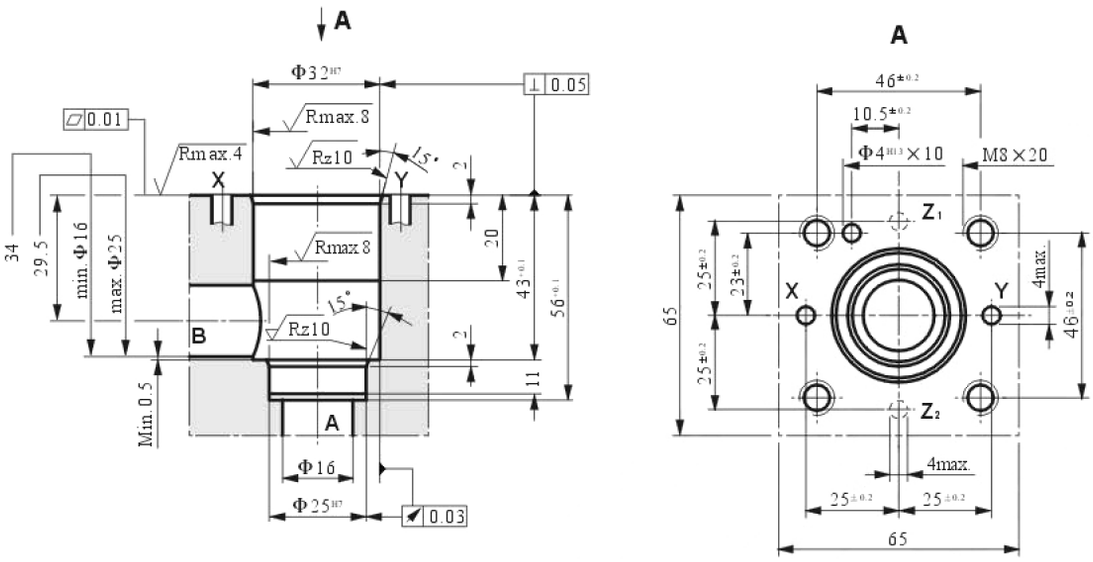
LFV-50



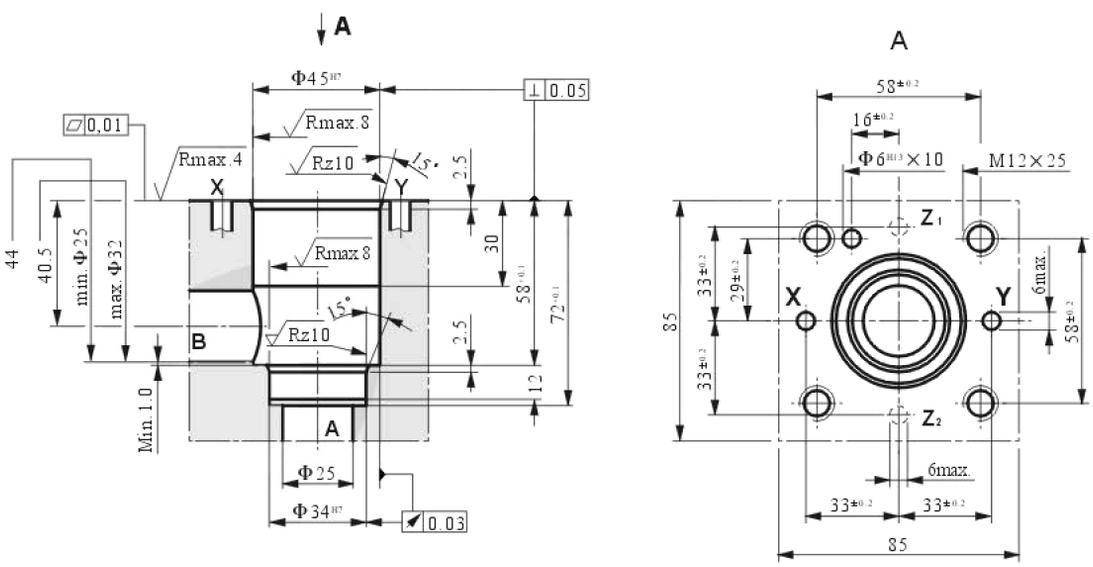
Cavity dimensions

- ISO 7368 Installation dimensions

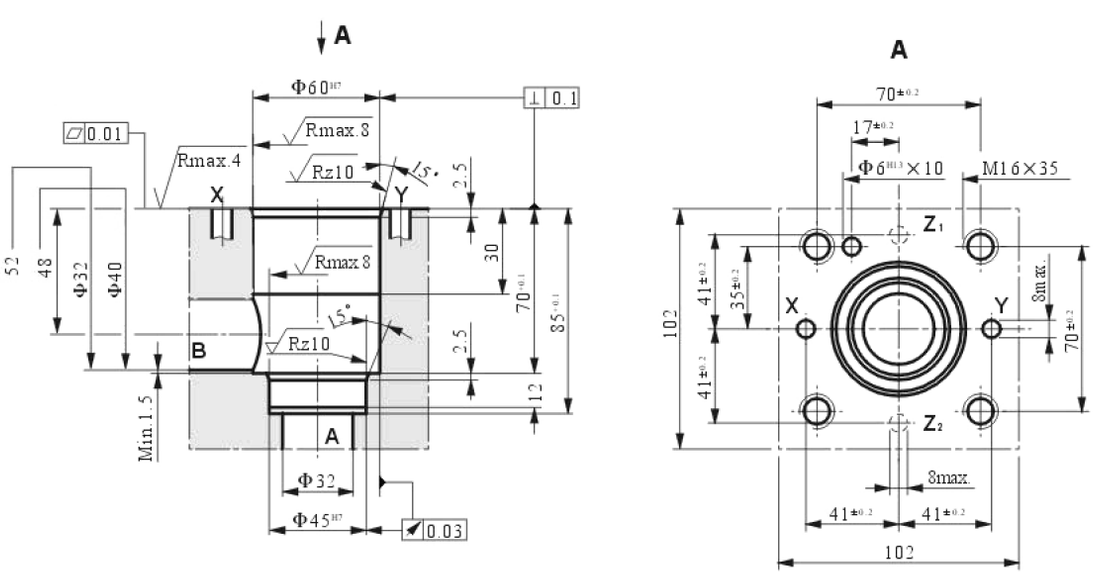
- **NG16**



- **NG25**

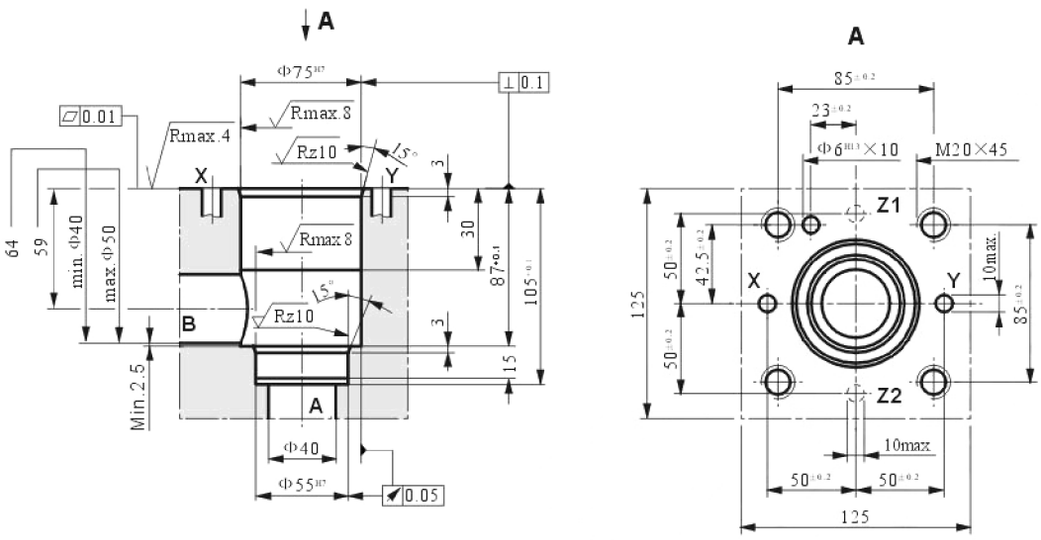


- **NG32**

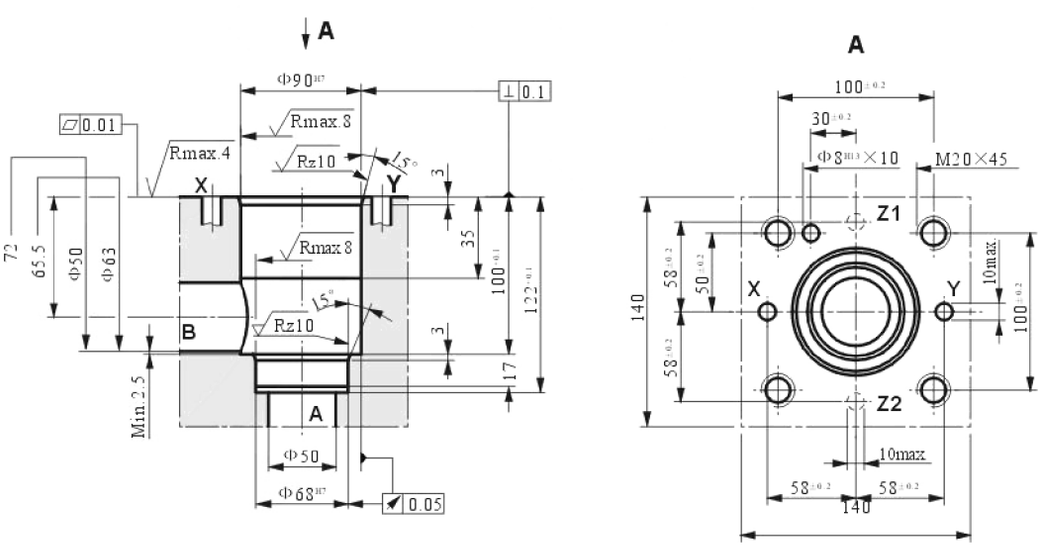


Cavity dimensions

- ISO 7368 Installation dimensions
- **NG40**



- **NG50**



The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

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