

Flow Control Valve Series



- C.1.1-1.2 Needle valve
- C.2.1-2.2 Check restrictive valve
- C.3.1-3.2 Restrictive check valve
- C.4.1-4.4 Modular restrictive valve
- C.5.1-5.4 Modular flow control valve
- C.6.1-6.2 Modular restrictive check valve

Needle Valve

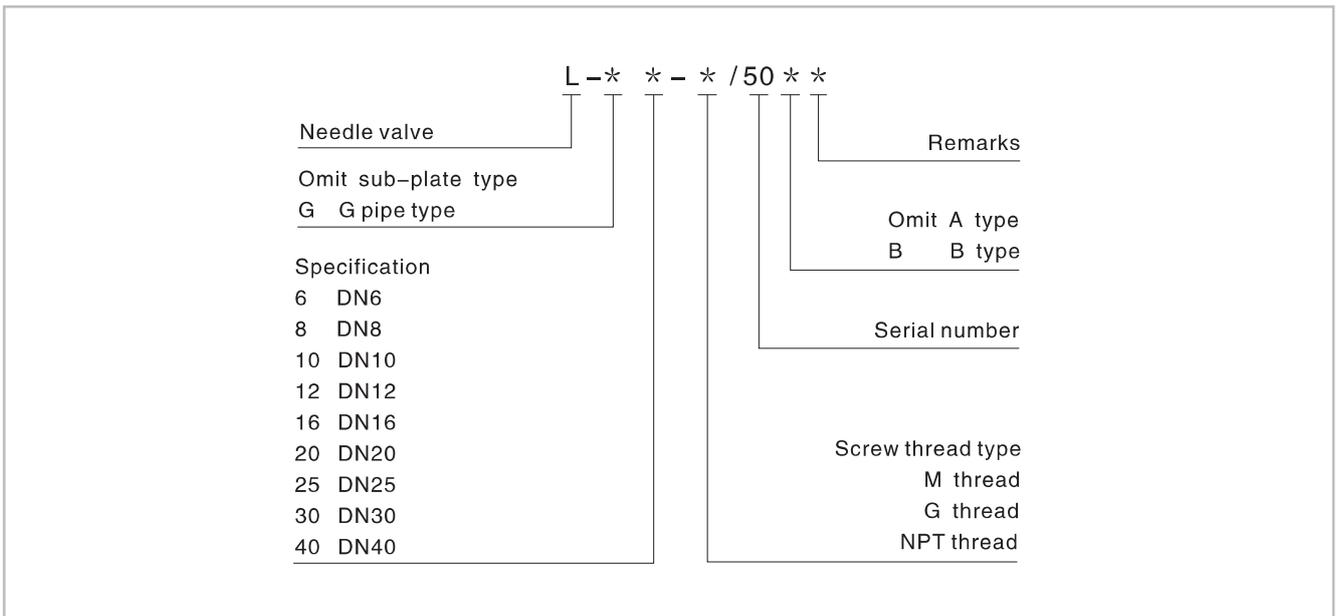
Technical specification



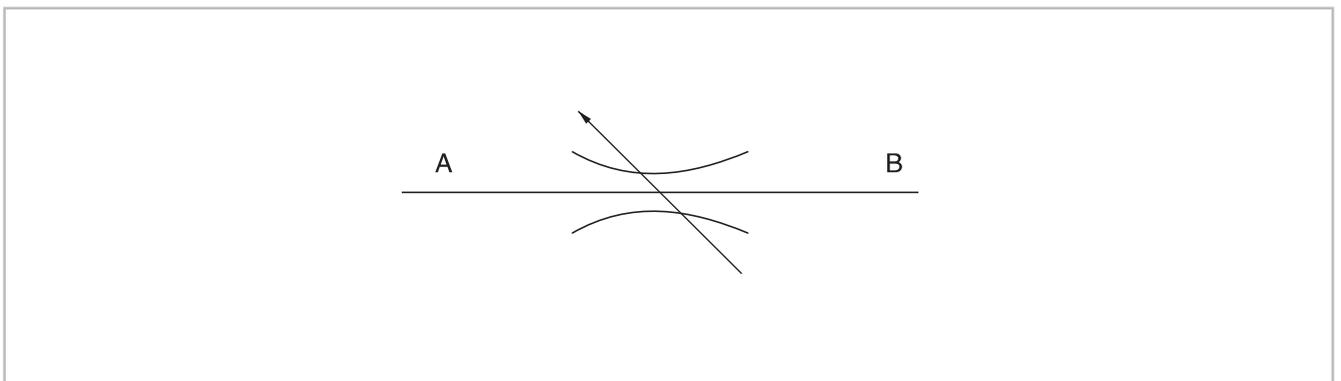
Specification	6	8	10	12	16	20	25	30	40
Max.pressure(MPa) (MPa)	31.5								
Max.flow (L/min)	14	40	60	85	175	200	300	400	600
Hydraulic fluid	Mineral oil;phosphate-ester								
Fluid temp (°C)	-20~70								
Viscosity (mm ² /s)	2.8~380								
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta 10 \geq 75$.								

Needle valve is used to control the flow by changing the throttle section or length.
Needle valve is a simple flow control valve, which can constitute the throttle system with other components.

Model instruction

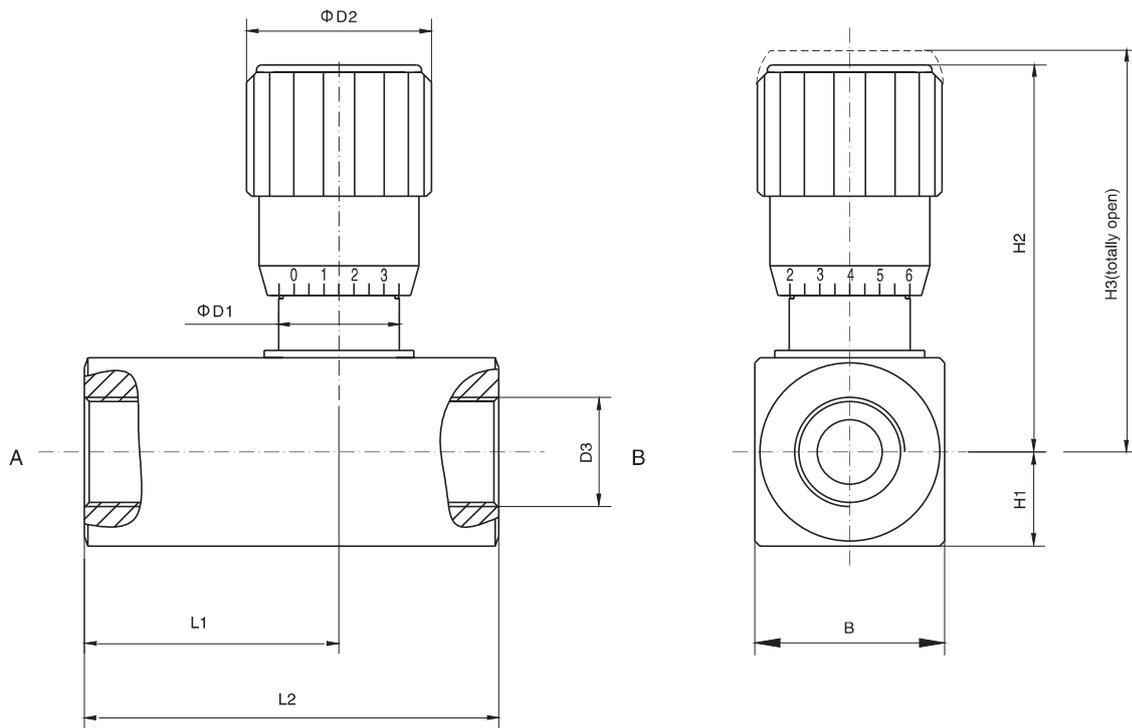


Code symbol



Needle Valve

External dimensions



C.1.2

Model	B	D1	D2	D3			H1	H2	H3	L1	L2
G6	28	19.3	30	M10X1	G1/8"	NPT1/8"	14	59.3	64.8	26	48
G8	28	19.3	30	M14X1.5	G1/4"	NPT1/4"	14	61.3	67.9	28	54
G10	28	19.3	30	M18X1.5	G3/8"	NPT3/8"	14	61.5	67.5	28	54
G12	38	24.2	37	M22X1.5	G1/2"	NPT1/2"	19	78.1	86.5	34	68
G16	38	24.2	37	M27X2	G3/4"	NPT3/4"	19	78.3	86.5	39	78
G20	48	35	48	M33X2	G1"	NPT1"	24	102.3	114.4	45.8	92
G25	60	50	48	M42X2	G1 1/4"	NPT1 1/4"	30	134.68	148.1	57	114
G30	70	70	80	M48X2	G1 1/2"	NPT1 1/2"	35	161.5	181.5	61	122
G40	90	71	80	M60X2	G2"	NPT2"	45	171.5	191.5	61	122

Check Restrictive Valve

Technical specification



Specification	6	8	10	12	16	20	25	30	40
Max.pressure (MPa)	31.5								
Max.flow (L/min)	14	40	60	85	175	200	300	400	600
Hydraulic fluid	Mineral oil;phosphate-ester								
Fluid temp (°C)	-20~70								
Viscosity (mm ² /s)	2.8~380								
Opening pressure (MPa)	a: 0.05 b:0.4								
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.								

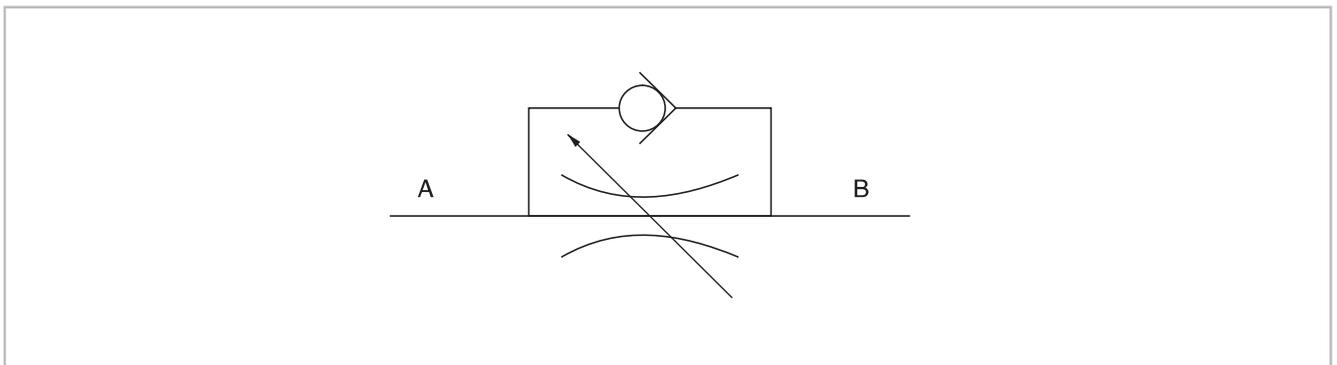
1-way restrictive valve consists of needle valve and 1-way valve in parallel. It is used to adjust the flow in one way, and reverse back freely.

Model instruction

LA- * - * / 50 * *

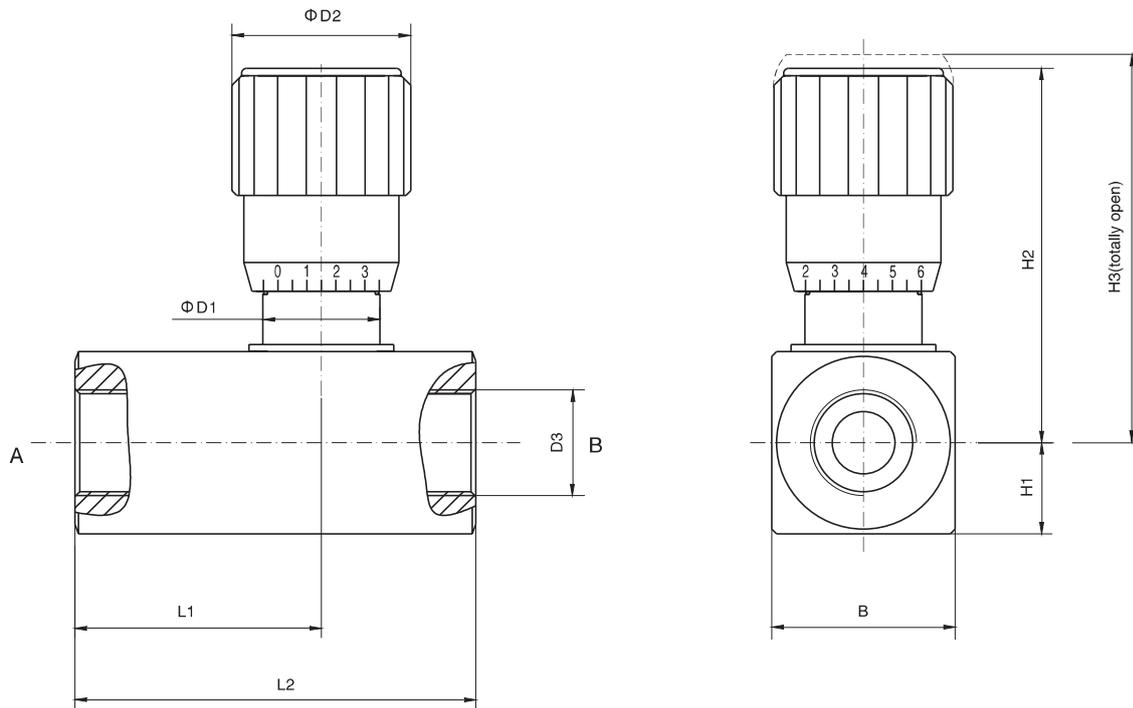
<p>Check restrictive valve</p> <p>Omit sub-plate type G G pipe type</p> <p>Specification</p> <p>6 DN6 8 DN8 10 DN10 12 DN12 16 DN16 20 DN20 25 DN25 30 DN30 40 DN40</p>	<p>Remarks</p> <p>Omit A type B B type</p> <p>Serial number</p> <p>Screw thread type M thread G thread NPT thread</p> <p>Opening pressure a 0.05MPa b 0.4MPa</p>
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Code symbol



Check Restrictive Valve

External dimensions



C.2.2

Model	B	D1	D2	D3			H1	H2	H3	L1	L2
G6	28	19.3	30	M10X1	G1/8"	NPT1/8"	14	59.3	64.8	36	58
G8	28	19.3	30	M14X1.5	G1/4"	NPT1/4"	14	61.3	67.9	39	64
G10	28	19.3	30	M18X1.5	G3/8"	NPT3/8"	14	61.5	67.5	43	70
G12	38	24.2	37	M22X1.5	G1/2"	NPT1/2"	19	78.1	86.5	52	83
G16	38	24.2	37	M27X2	G3/4"	NPT3/4"	19	78.3	86.5	55.5	89
G20	48	35	48	M33X2	G1"	NPT1"	24	102.3	114.4	70.8	117
G25	60	50	48	M42X2	G1 1/4"	NPT1 1/4"	30	134.68	148.1	97	154
G30	70	70	80	M48X2	G1 1/2"	NPT1 1/2"	35	161.5	181.5	111	172
G40	90	71	80	M60X2	G2"	NPT2"	45	171.5	191.5	129	190

Restrictive Check Valve

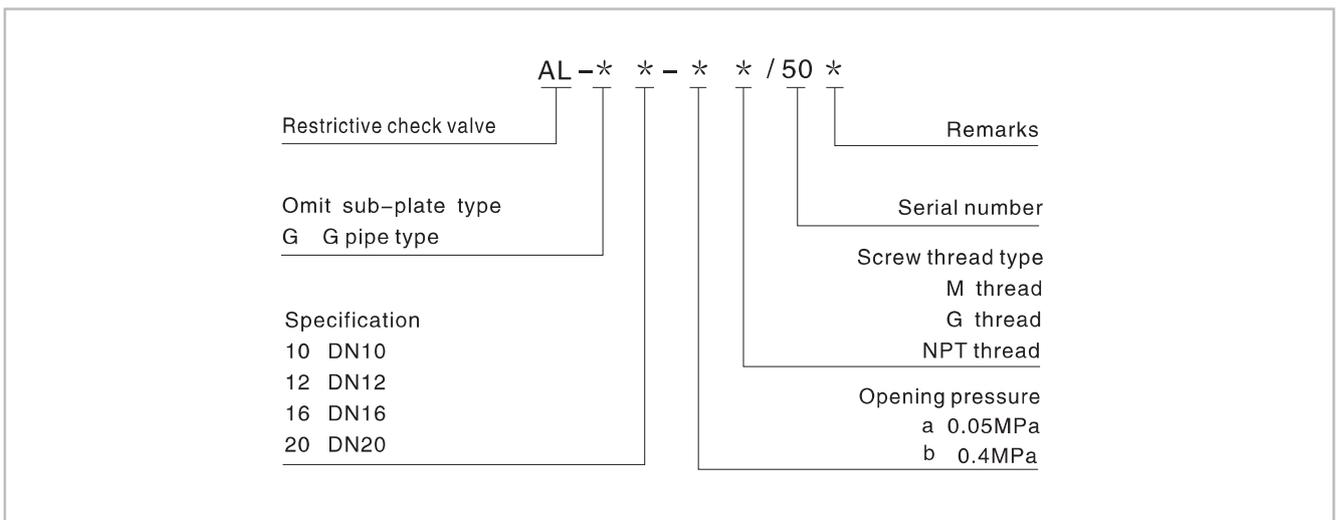
Technical specification



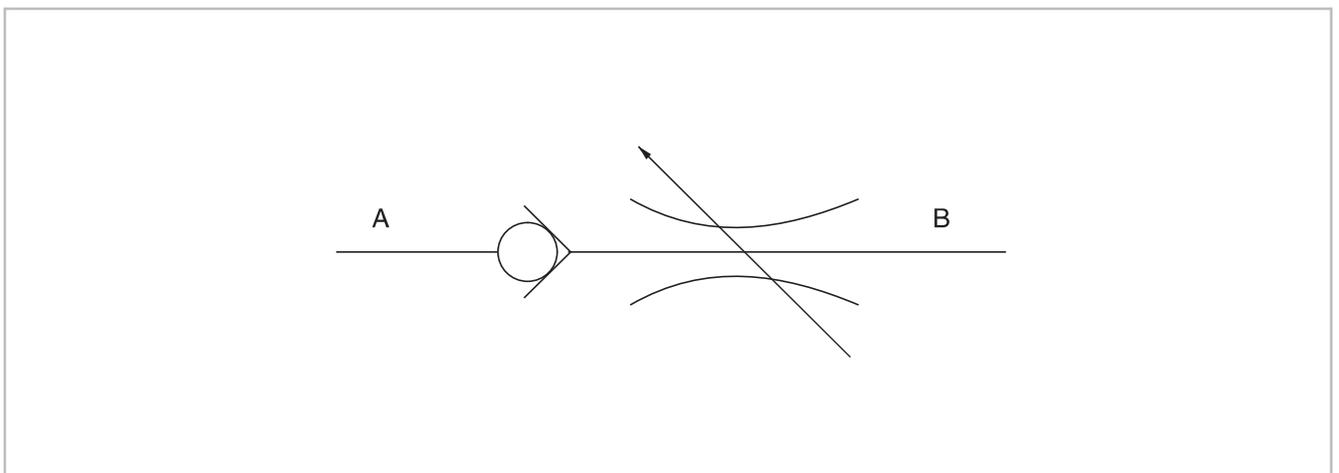
Specification	10	12	16	20
Max.pressure (MPa)	31.5			
Max.flow (L/min)	60	85	175	200
Hydraulic fluid	Mineral oil;phosphate-ester			
Fluid temp (°C)	-20~70			
Viscosity (mm ² /s)	2.8~380			
Opening pressure (MPa)	a: 0.05 b:0.4			
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.			

Restrictive check valve consists of restrictive valve and 1-way valve in series. It can control the flow and only allows the flow in one way. Flow will be shut off in the opposite direction.

Model instruction

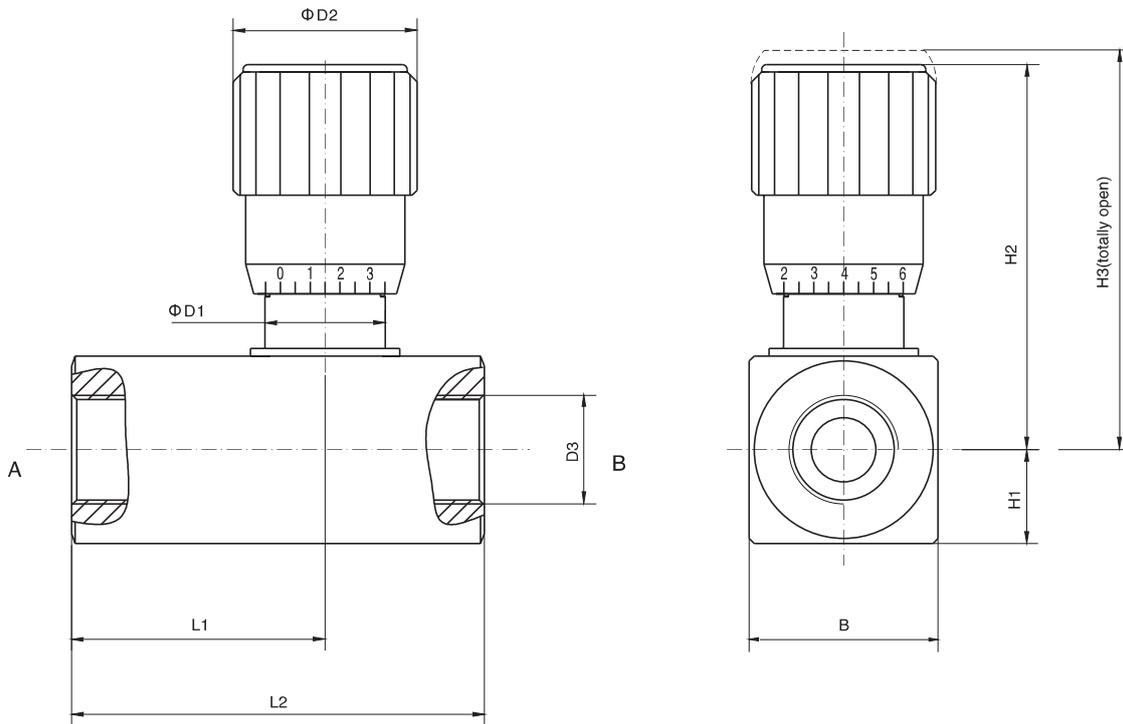


Code symbol



Restrictive Check Valve

External dimensions



C.3.2

Model	B	D1	D2	D3			H1	H2	H3	L1	L2
G10	28	19.3	30	M18X1.5	G3/8"	NPT 3/8"	14	61.5	67.5	45.5	73
G12	38	24.2	37	M22X1.5	G1/2"	NPT 1/2"	19	78.1	86.5	54	86
G16	38	24.2	37	M27X2	G3/4"	NPT 3/4"	19	78.3	86.5	59	94
G20	48	35	48	M33X2	G1"	NPT 1"	24	102.3	114.4	74.8	123

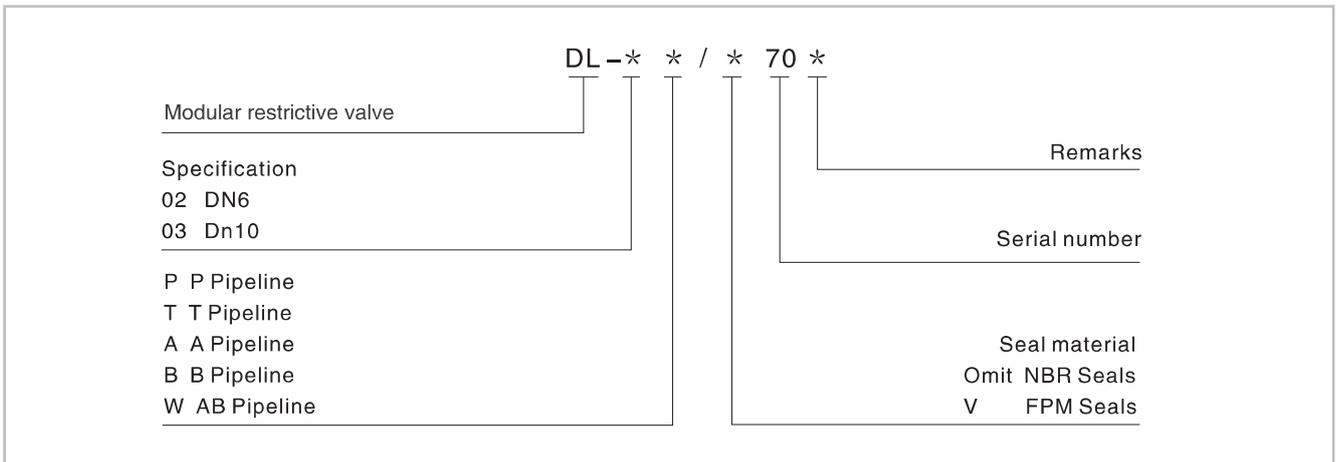
Modular Restrictive Valve

Technical specification

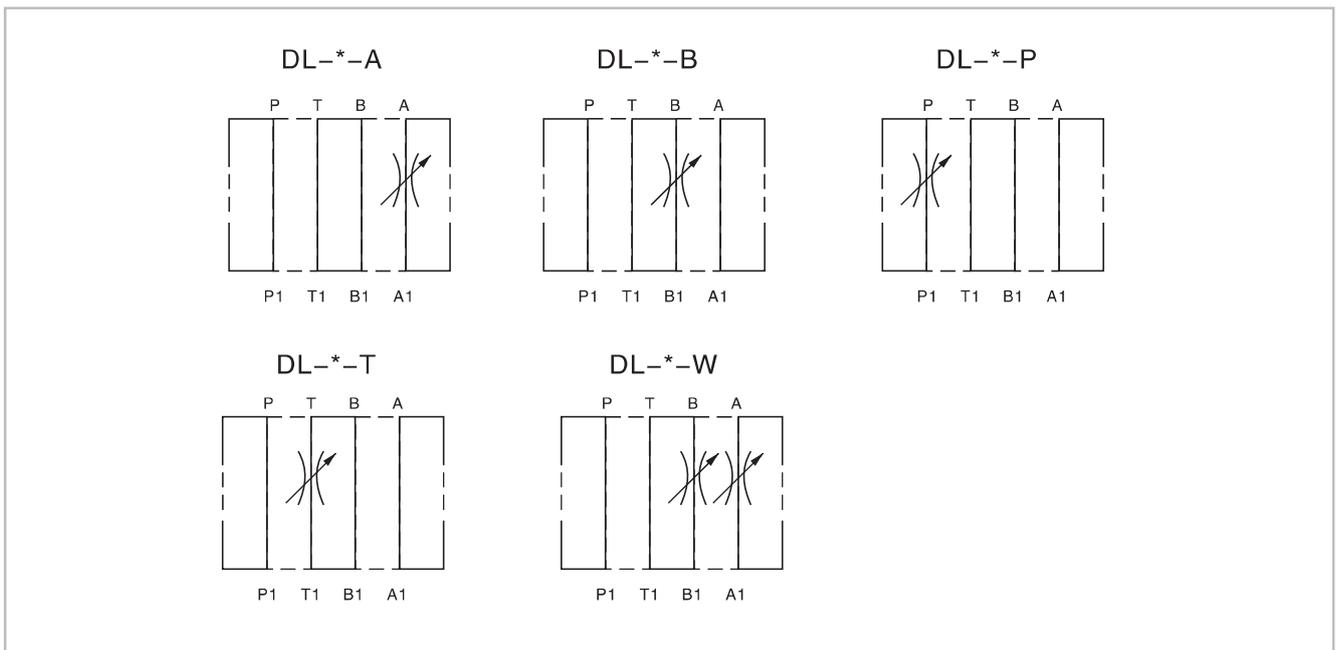


Specification	02	03
Max.pressure (MPa)	31.5	
Max.flow (L/min)	30	50
Hydraulic fluid	Mineral oil;phosphate-ester	
Fluid temp (°C)	-20~70	
Viscosity (mm ² /s)	2.8~380	
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.	

Model instruction



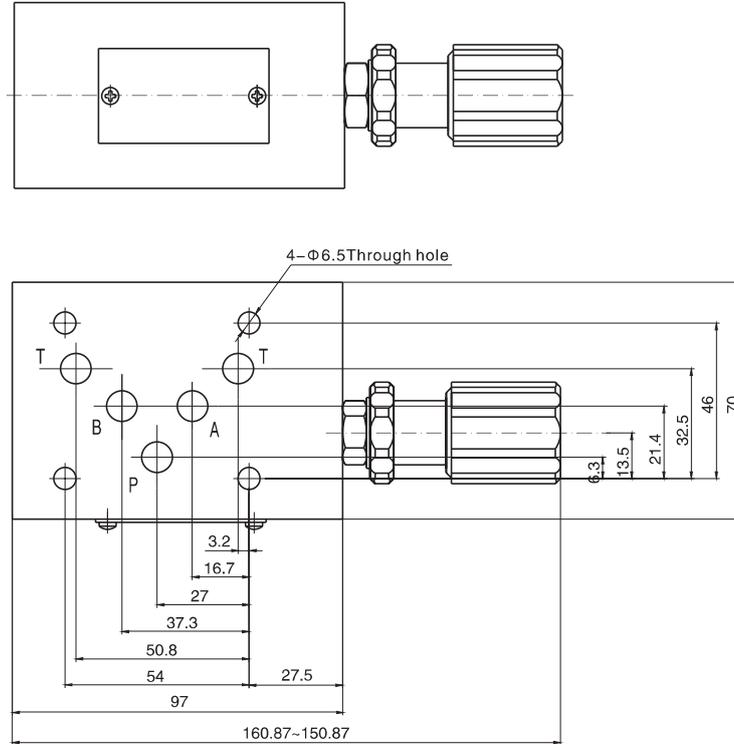
Code symbol



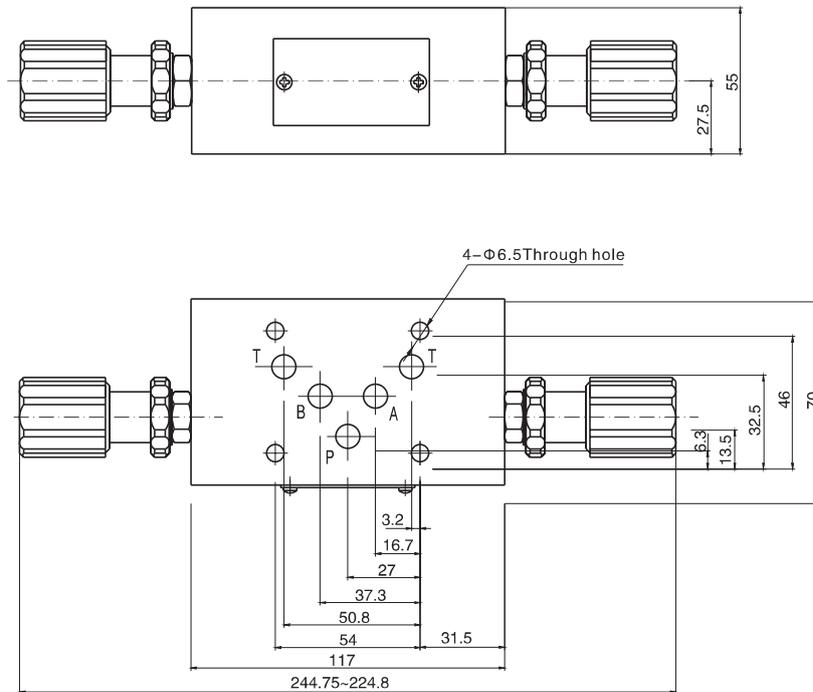
Modular Restrictive Valve

External dimensions

DL-03-P,B,T/ ...



DL-03-W/ ...



Notice: The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

Modular Flow Control Valve

Technical specification

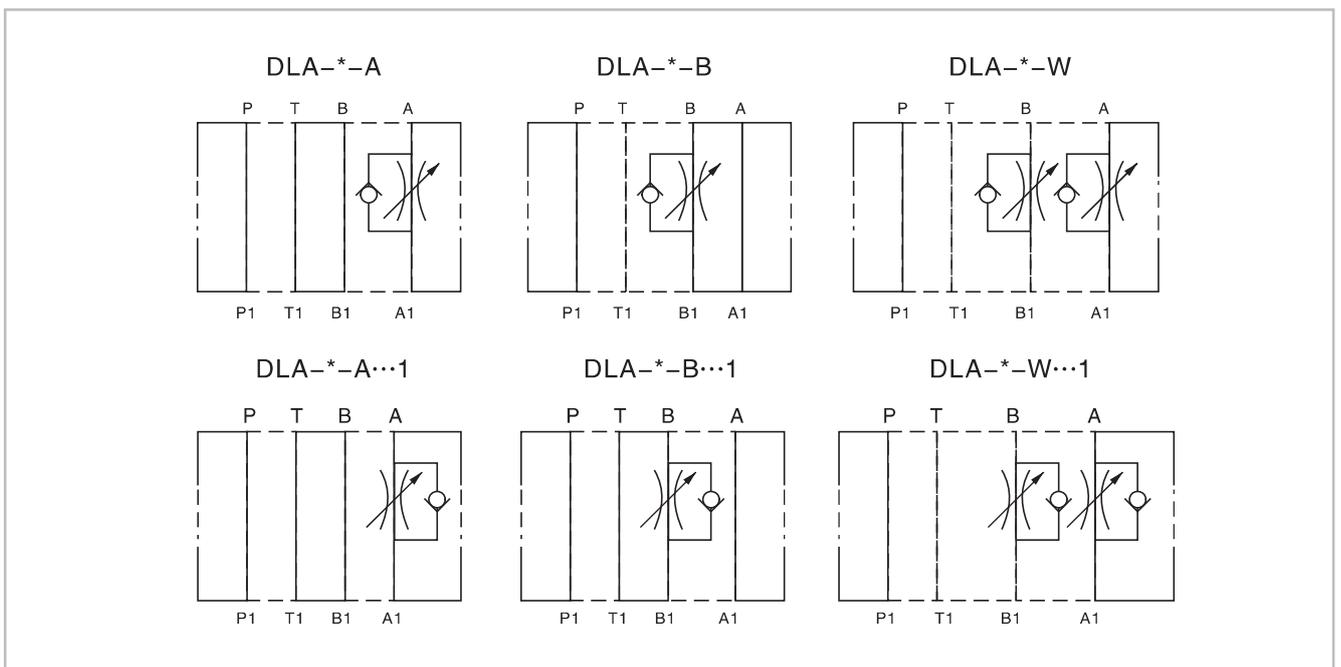


Specification	02	03
Max.pressure (MPa)	31.5	
Max.flow (L/min)	30	50
Hydraulic fluid	Mineral oil;phosphate-ester	
Fluid temp (°C)	-20~70	
Viscosity (mm ² /s)	2.8~380	
Opening pressure (MPa)	a: 0.05	
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta 10 \geq 75$.	

Model instruction

DLA-* * -* * / * 70 *		Remarks
Modular flow control valve		
Specification		Serial number
02 DN6		Seal material
03 DN10		Omit NBR Seals
A A Pipeline		V FPM Seals
B B Pipeline		
W AB Pipeline		Throttle direction
Opening pressure		Omit meter out
a 0.05MPa		1 meter in

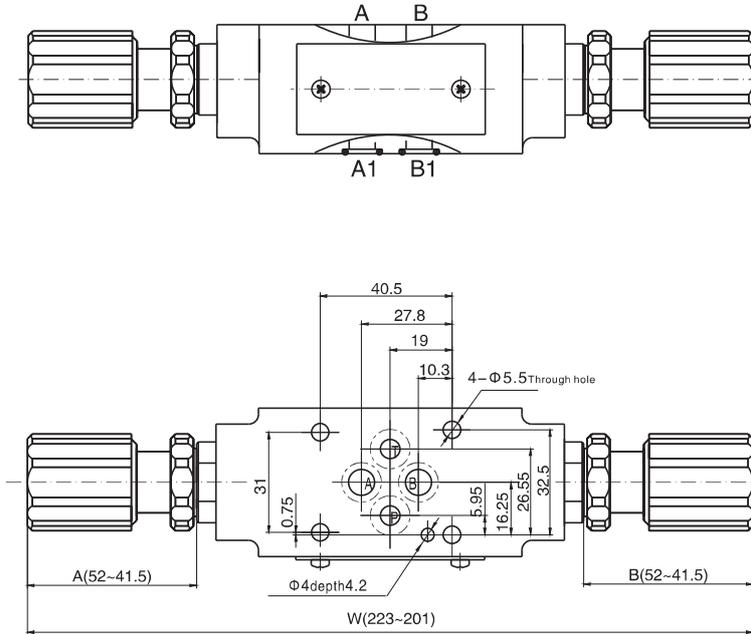
Code symbol



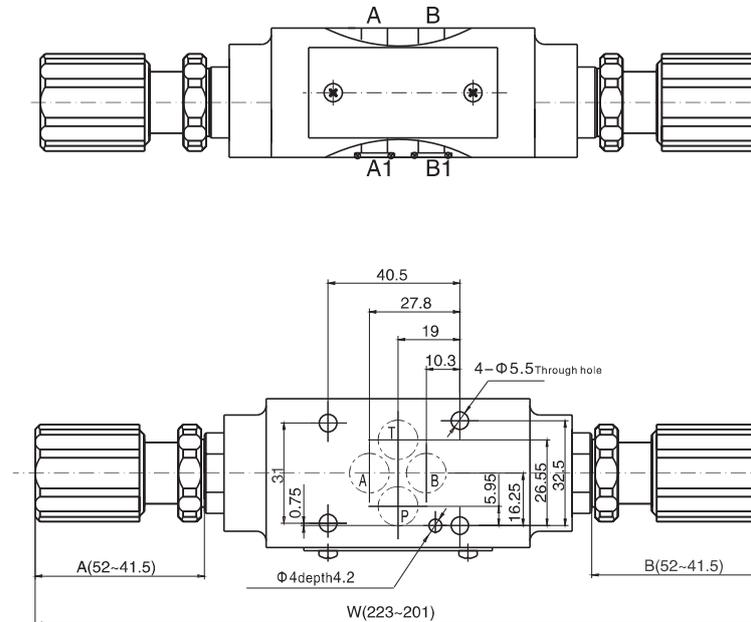
Modular Flow Control Valve

External dimensions

DLA-02- ...



DLA-02- ... 1/ ...

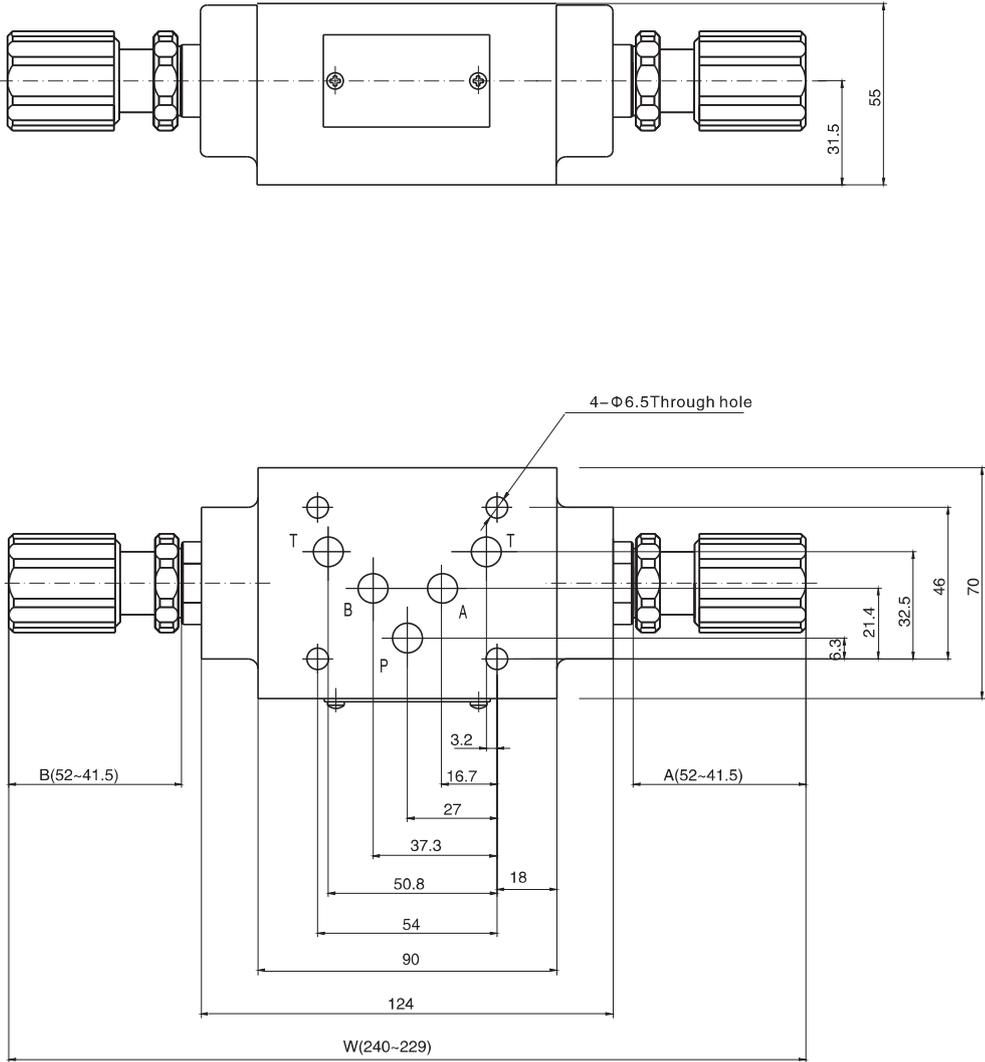


Notice: The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

Modular Flow Control Valve

External dimensions

DLA-03- ...



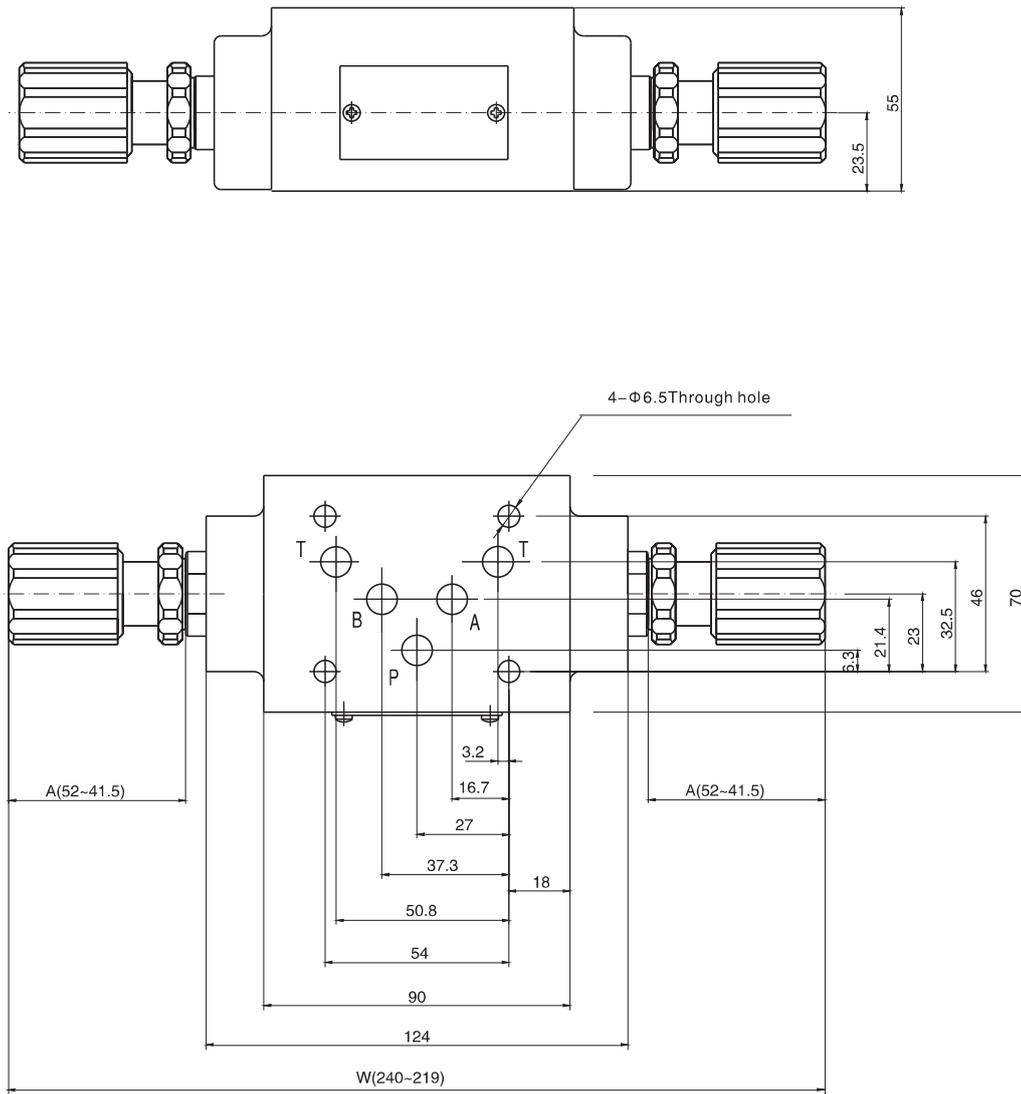
Notice: The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

C.5.3

Modular Flow Control Valve

External dimensions

DLA-03- ... 1/ ...



Notice: The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

Modular Restrictive Check Valve

Technical specification



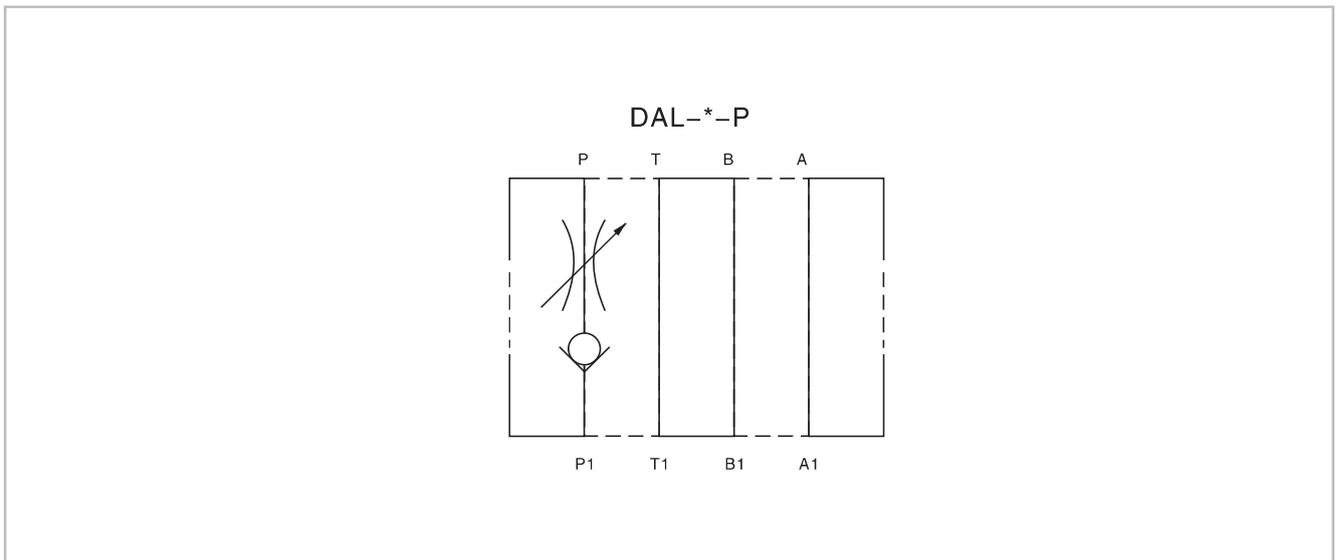
Specification	02	03
Max.pressure (MPa)	31.5	
Max.flow (L/min)	30	50
Hydraulic fluid	Mineral oil;phosphate-ester	
Fluid temp (°C)	-20~70	
Viscosity (mm ² /s)	2.8~380	
Opening pressure (MPa)	a: 0.05	
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.	

Model instruction

DAL - * * - * / * 70 *	
Modular restrictive check valve	Remarks
Specification 02 DN6 03 DN10	Serial number
P P Pipeline	Seal material Omit NBR Seals V FPM Seals
Opening pressure a 0.05MPa	

Notice: only P pipeline available

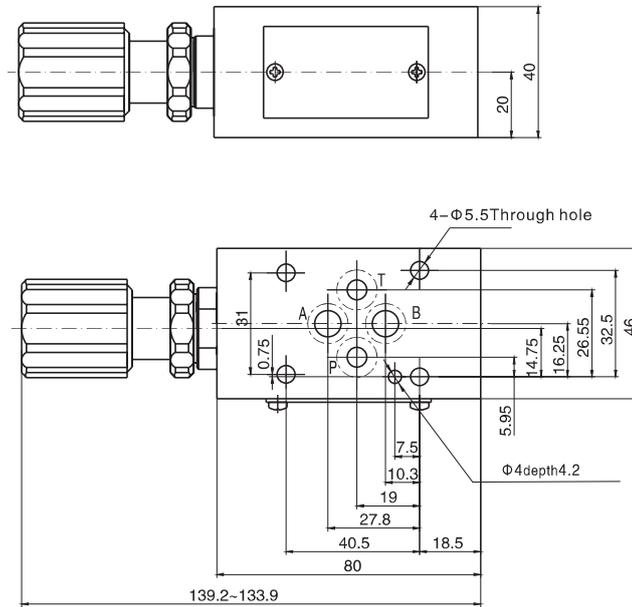
Code symbol



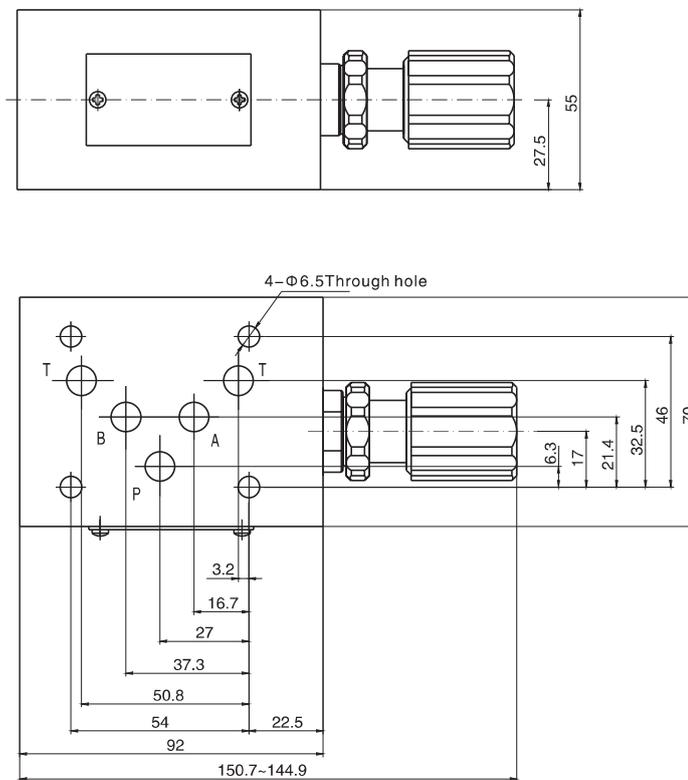
Modular Restrictive Check Valve

External dimensions

DAL-02-P ...



DAL-03-P ...



Notice: The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.