

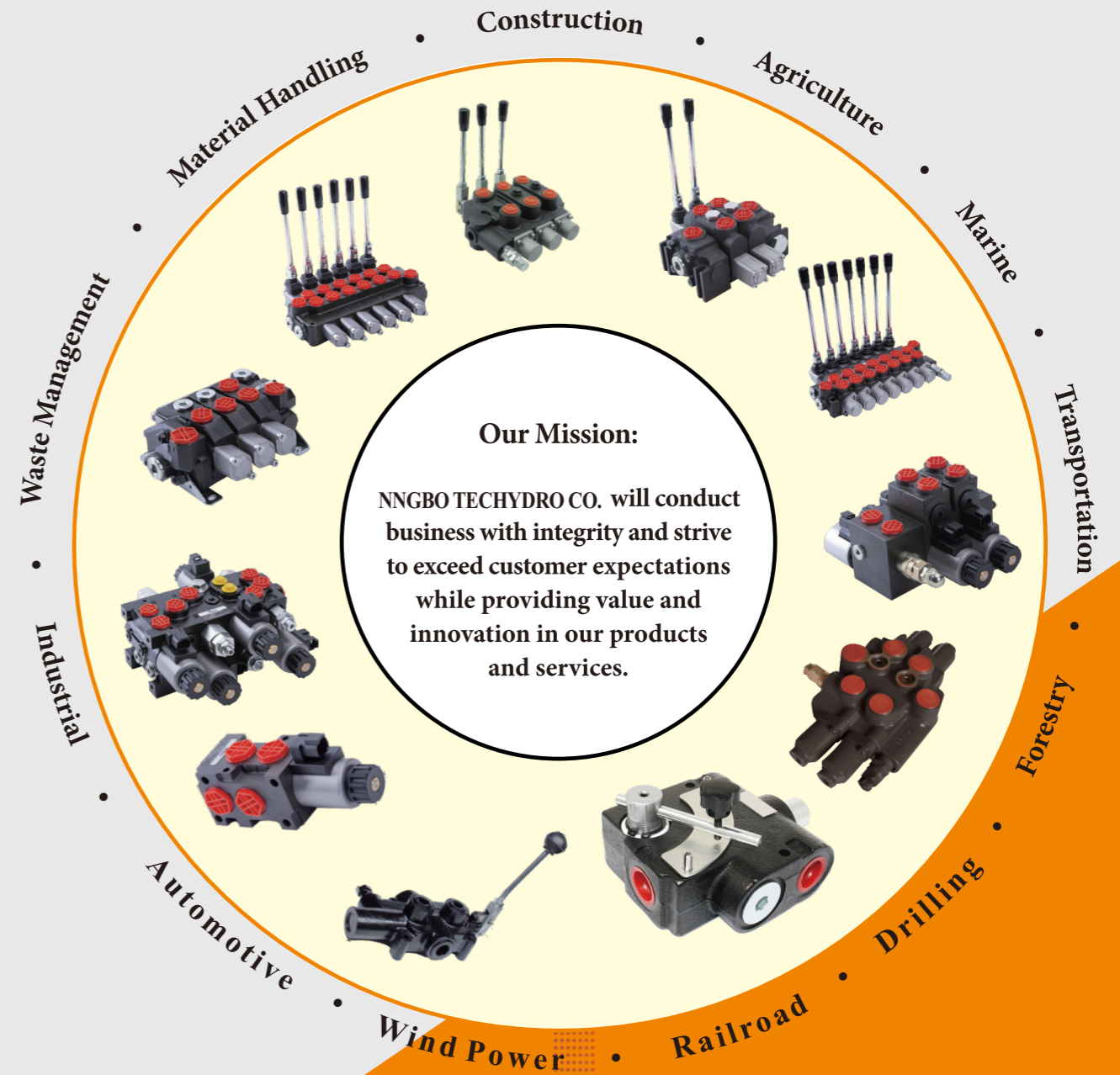


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VALVES

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Ningbo Tech-Hydro Co. Ltd

01 P40 - F O T G - *

01 02 03 04 05 06 07

01 Spool No.

02 Model

03 Pressure(Mpa)
16Mpa-31.5Mpa

04 Spool Function
O, A, Y, Q

05 Position Return Model

T: Spring Return W: Detent Control

06 Port Size

M, G, UNF, NPT

07 Control Type

No Mark: Manual J: Joystick
S: Solenoid C: Cable
E: Electro-hydraulic M: Microswitch
P: Pneumatic EP: Electric&Pneumatic



TH-DCV100

Structure	Sectional	
Rated Flow	100 L/min	26.4 US GPM
Max Pressure	35 Mpa	5076 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	

TH-DCV140

Structure	Sectional	
Rated Flow	140L/min	37.0US GPM
Max Pressure	35Mpa	5076 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	

TH-DCV200

Structure	Sectional	
Rated Flow	200L/min	53.0US GPM
Max Pressure	35Mpa	5076 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	

TH-DCV SERIES



TH-DCV20

Structure	Monoblock	
Rated Flow	20 L/min	5.3 US GPM
Max Pressure	35 Mpa	5076 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-DCV40

Structure	Monoblock	
Rated Flow	40 L/min	10.6 US GPM
Max Pressure	35 Mpa	5076 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-DCV60

Structure	Sectional	
Rated Flow	60 L/min	12.0 US GPM
Max Pressure	35 Mpa	5076 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	

TH-P40/80/120 SERIES



TH-P40

Structure	Monoblock	
Rated Flow	40L/min	10.6US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-P80

Structure	Monoblock	
Rated Flow	80L/min	21.0US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-P120

Structure	Monoblock	
Rated Flow	120L/min	31.8 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-HDCF50/100 SERIES



TH-HDCF50

Structure	Monoblock	
Rated Flow	40L/min	10.6 US GPM
Max Pressure	35Mpa	5076 PSI
Controlling Method	Solenoid Control	



TH-HDCF100

Structure	Monoblock	
Rated Flow	100L/min	10.6 US GPM
Max Pressure	31.5 Mpa	4600 PSI
Controlling Method	Solenoid Control	



TH-HSGK SERIES



TH-HSGK

Structure	Monoblock	
Rated Flow	40L/min	16.6 US GPM
Max Pressure	31.5 Mpa	4600 PSI
Controlling Method	Solenoid Control	



TH-HSV06/09 SERIES



TH-HSV06

Structure	Solenoid Diverter Valve	
Rated Flow	40L/min	16.6US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Solenoid Control	



TH-HSV09

Structure	Solenoid Diverter Valve	
Rated Flow	90L/min	23.8US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Solenoid Control	



TH-ZT SERIES



TH-ZT12

Structure	Monoblock	
Rated Flow	40L/min	10.6US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	

TH-ZT20

Structure	Monoblock	
Rated Flow	100L/min	26.4 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-P81 LOG SPILTTER VALVE



TH-P81

Structure	Solenoid Diverter Valve	
Rated Flow	90L/min	23.8US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Solenoid Control	



TH-HSSD SERIES



TH-HSSD5

Structure	Monoblock	
Rated Flow	40L/min	10.6 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-HSSD8

Structure	Monoblock	
Rated Flow	80L/min	21.0 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	

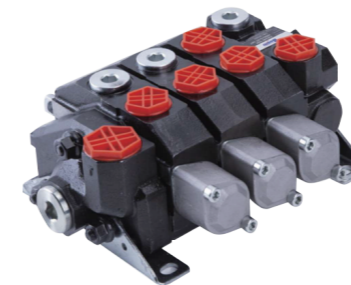


TH-HSSD11

Structure	Monoblock	
Rated Flow	75L/min	19.6 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-HSD15 SERIES



TH-HSDS15

Structure	Sectional	
Rated Flow	60L/min	16.0 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-RD SERIES



TH-RD5100

Structure	Monoblock 1 Lever	
Rated Flow	100L/min	26.2US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual Control	



TH-RD5200

Structure	Monoblock 2 Levers	
Rated Flow	100L/min	26.2US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual Control	



TH-RD5300

Structure	Monoblock	
Rated Flow	100L/min	26.2 US GPM
Max Pressure	31.5Mpa	4600 PSI
Controlling Method	Manual Control	



TH-CDB SERIES



TH-CDB15

Structure	Monoblock	
Rated Flow	63L/min	16.6US GPM
Max Pressure	20Mpa	2900 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-CDB20

Structure	Monoblock	
Rated Flow	100L/min	26.4US GPM
Max Pressure	20Mpa	2900 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-DF SERIES



TH-DF50

Structure	Monoblock	
Rated Flow	50L/min	13.2US GPM
Max Pressure	25Mpa	3620 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-DF80

Structure	Monoblock	
Rated Flow	80L/min	21.0 US GPM
Max Pressure	25Mpa	3620 PSI
Controlling Method	Manual, Pneumatic, Solenoid, Electro-hydraulic, Joystick and Electro-pneumatic Control	



TH-DL SERIES



TH-DL15

Structure	Monoblock	
Rated Flow	63 L/min	16.6 US GPM
Max Pressure	25 Mpa	3620 PSI
Controlling Method	Manual Control	

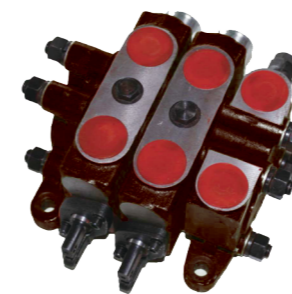


TH-DL20

Structure	Monoblock	
Rated Flow	63 L/min	16.6 US GPM
Max Pressure	25 Mpa	3620 PSI
Controlling Method	Manual Control	



TH-ZL SERIES



TH-ZL15

Structure	Monoblock	
Rated Flow	63 L/min	16.6 US GPM
Max Pressure	25 Mpa	3620 PSI
Controlling Method	Manual Control	



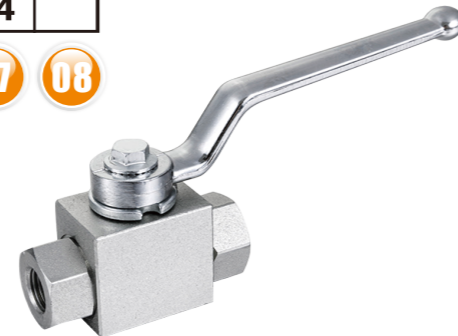
TH-ZL20

Structure	Monoblock	
Rated Flow	63 L/min	16.6 US GPM
Max Pressure	25 Mpa	3620 PSI
Controlling Method	Manual Control	

TH-KHB(BKH) SERIES

TH-	KHB(BKH)	G1/2	1	1	1	2	04	
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01 02 03 04 05 06 07 08



- 01 Series Code**
TH-KHB(BKH) Series,
TH-KHM(MKH) Series
- 02 Thread Size / Type**
M**, G**, *LR, *SR, PT**, NPT*
G1/8-G2
- 03 Valve Body Material**
1: Carbon steel 2: Stainless steel
- 04 Ball Body Material**
1: Carbon Steel 2: Brass
3: Stainless steel
- 05 Ball Seal Material**
1: POM 2: PEEK
- 06 Seal**
2: NBR
4: FRM
- 07 Handle Type**
01: Aluminium straight handle 05: Steel straight handle
02: Aluminium crooked handle 06: Steel crooked handle
03: Casting zinc straight handle 09: Without handle
04: Casting zinc crooked handle
- 08 Surface Disposal**
Default plating blue white zinc, Please specify other requirements

TH-KHB3K(BK3) SERIES

TH-	KHB3K(BK3)	G1/2	L	1	1	1	2	04	*
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01 02 03 04 05 06 07 08 09



- 01 Series Code**
TH-KHB3K(BK3)=2-position 3-way ball valve
- 02 Thread Size / Type**
G1/8-G2
- 03 Valve Function Symbol**
Specify by customer
- 04 Valve And Joints**
1: Carbon steel
2: Stainless steel
- 05 Ball And Spindle Material Control**
1: Carbon steel 2: Stainless steel
- 06 The Seal Material**
1: POM 4: PTFE 5: PEEK
- 07 Seal**
2: NBR
4: FPM
6: EPDM
- 08 Handle Type**
01: Aluminum alloy crank
02: Aluminum alloy straight handle
03: Zinc alloy crank
04: Zinc alloy straight shank
05: Steel crank
06: Steel straight handle
- 09 Surface Treatment**
Default plating blue white zinc, Please specify other requirements

TH-VH2V SERIES

TH-	VH2V	G1/2	1	1	1	2	01	*
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01 02 03 04 05 06 07 08



- 01 Series Code**
TH-VH2V Series
- 02 Thread Size / Type**
M*, G*, *LR, *SR, PT*, NPT*
G1/8-2
- 03 Valve Body Material**
1: Steel
2: Brass
3: Stainless steel
- 04 Ball Body Material**
1: Steel
2: Brass
3: Stainless steel
- 05 Operating Temperature**
1: -25~+100 °C
2: -30~+170 °C
- 06 Seal**
2: NBR
4: FPM
- 07 Handle Type**
01: Aluminium straight handle 05: Steel straight handle
02: Aluminium crooked handle 06: Steel crooked handle
03: Casting zinc straight handle 09: Without handle
04: Casting zinc crooked handle
- 08 Surface Treatment**
Default plating blue white zinc, Please specify other requirements

TH-VH3V SERIES

TH-	VH3V	G1/2	1	1	1	2	01	*
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01 02 03 04 05 06 07 08



- 01 Series Code**
TH-VH3V Series
- 02 Thread Size / Type**
M**, G**, **LR, **SR, PT**, NPT**
G1/8-2
- 03 Valve Material**
1: Steel 2: Brass 3: Stainless steel
- 04 Ball Body Material**
1: Steel 2: Brass 3: Stainless steel
- 05 Operating temperature**
1: -25~+100 °C
2: -20~+170 °C
- 06 Seal**
2: NBR
4: FPM
- 07 Handle Type**
01: Aluminum alloy crank
02: Aluminum alloy straight handle
03: Zinc alloy crank
04: Zinc alloy straight shank
05: Steel crank
06: Steel straight handle
- 08 Surface treatment**
Default plating blue white zinc, Please specify other requirements

TH-STU/STB SERIES

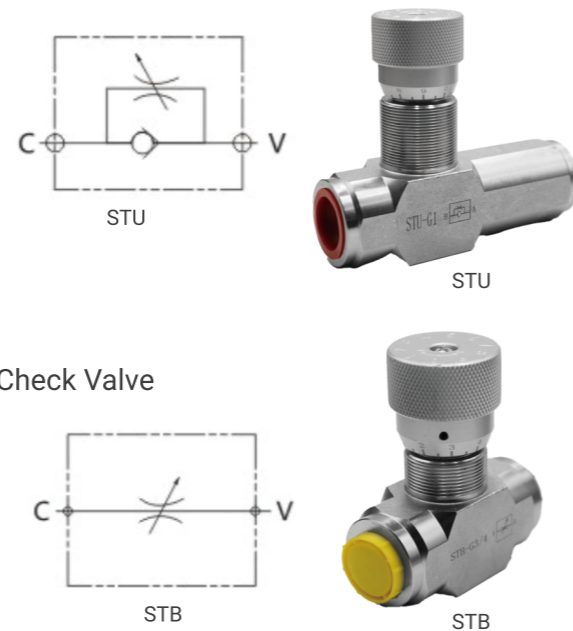
TH- * STU G1/4

01 02 03

01 **Material**
SS: Stainless steel
Blank: Carbon steel

02 **Series code**
STU type: Bidirectional Flow control valve With Check Valve
STB type: Bidirectional Flow control valve

03 **Connection thread type dimension**
 BBSP



TH-CIT SERIES

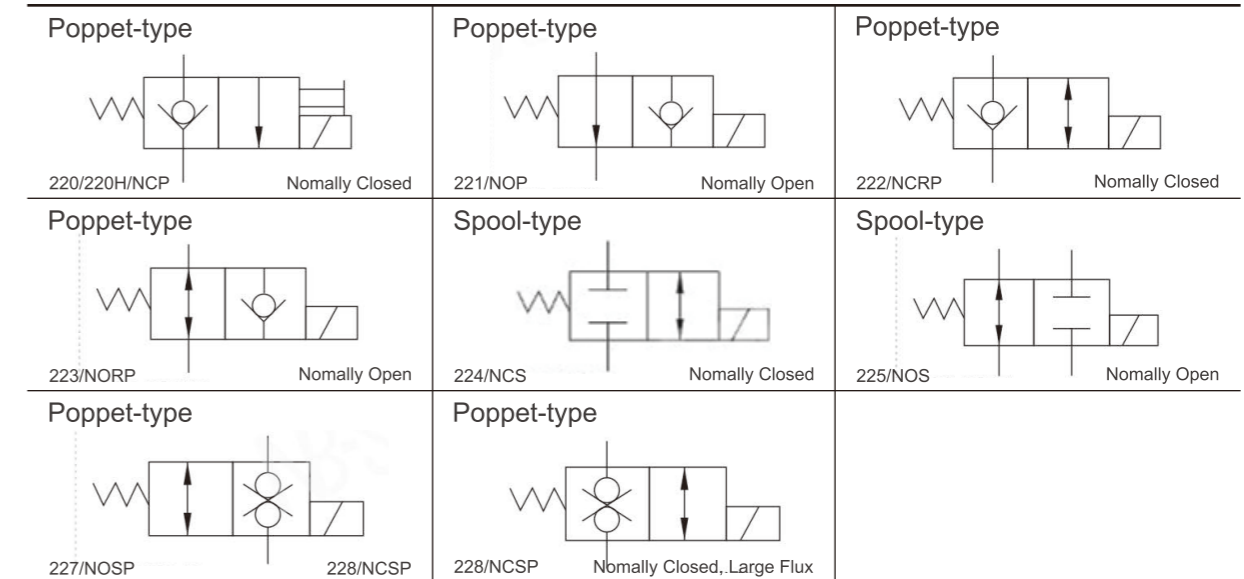


Model	Caliber (PT)	A(mm)	B(mm)	Flow (L/min)	Max.pressure (Kgf/cm ²)	Weight (KG)
TH-CIT-02	1/4"	19	65	30	210	0.12
TH-CIT-03	3/8"	24	74	40	210	0.21
TH-CIT-04	1/2"	30	81	60	210	0.34
TH-CIT-06	3/4"	36	91	100	210	0.53
TH-CIT-08	1"	46	114	150	210	1.10
TH-CIT-10	1-1/4"	55	133	200	210	1.80
TH-CIT-12	1-1/2"	65	134	280	210	2.70
TH-CIT-16	2"	80	158	400	210	3.62

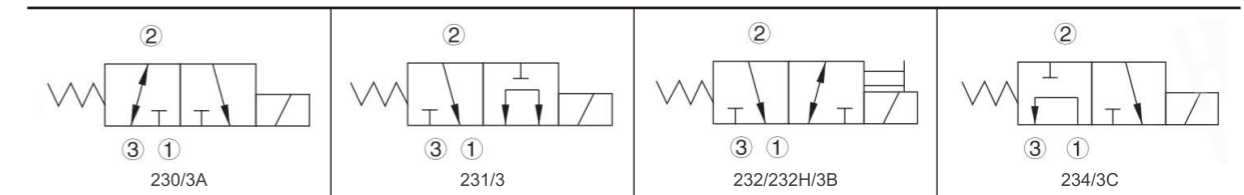
Remarks: The valve crack pressure of CIT inline check valve are 0.5 kgf/cm² and 5 kgf/cm².

TH-VRSE/VRDE SERIES

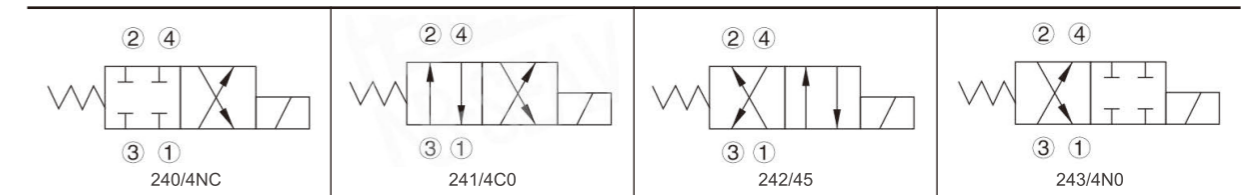
TWO POSITION TWO WAY



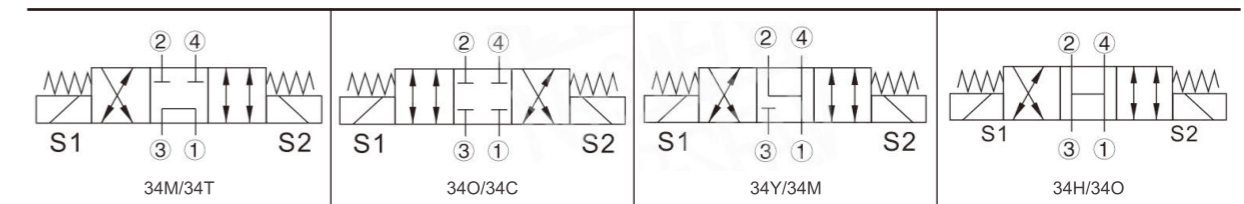
TWO-POSITION THREE-WAY TYPE



TWO-POSITION FOUR-WAY TYPE



THREE-POSITION FOUR-WAY TYPE

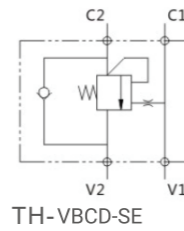


TH-VBCD SERIES

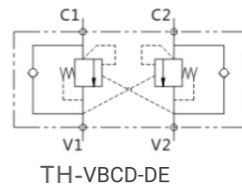
TH- * VBCD G1/4 DE A/FL

- 01
- 02
- 03
- 04

- 01 **Material**
Blank: Carbon steel
- 02 **Counterbalance valve series code**
VBCD
- 03 **Connection thread size**
G 1/4, 3/8, 1/2, 3/4, 1
- 04 **Counterbalance valve**
DE: Double balance valve
SE: Single balance valve

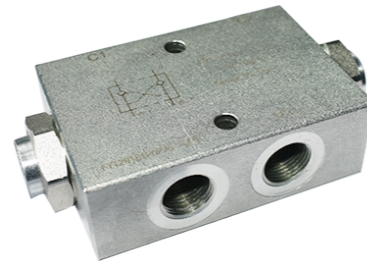
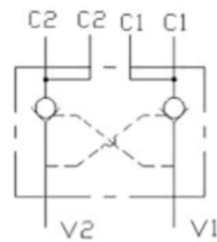


TH-VBCD-SE



TH-VBCD-DE

TH-VRDL/L SERIES



Model	Max Flow	Maximum pressure(Mpa)	On-off ratio	Operating pressure
TH-VRDL/L-G3/8	30	35	7.1:1	3.5
TH-VRDL/L-G1/2	50	35	5.36:1	3.5

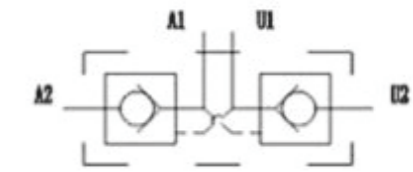
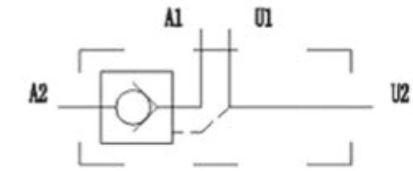
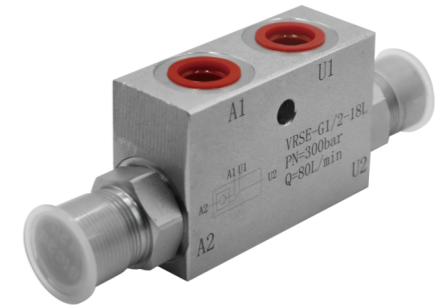
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TH-VRSE/VRDE SERIES

TH- VRSE A G1/2 20L

- 01
- 02
- 03
- 04

- 01 **Serial code**
TH-VRSE:One-way hydraulic lock
TH-VRDE:Two-way hydraulic lock
- 02 **Ratio**
A=1:4
B=1:4.5
- 03 **Specifications of V1 and V2 threads**
G1/4, G3/8, G1/2, G3/4,G1
- 04 **Flow -Max Flow**
G1/4 = 20L
G3/8 = 35/50L
G1/2 = 50/80L
G3/4 = 120L

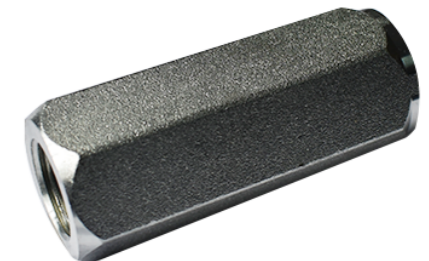


TH-HG SERIES

TH- HG G1/2 0.5

- 01
- 02
- 03

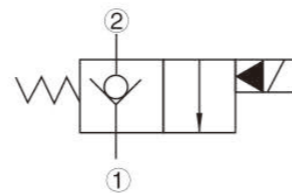
- 01 **Product code**
TH-HG: Tube Type One-way valve
- 02 **Type / Size**
G、 M、 NPT、 BSPT
1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2
- 03 **Operating pressure**
0.05MPa, 0.15MPa, 0.3MPa, 0.5MPa





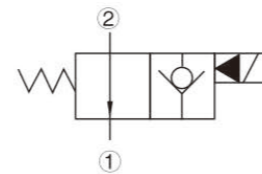
Two-position Two-way Normally Closed

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-2NCP	08-2	350bar	25L/min
TH-SV6-08-2NCP	08-2	350bar	40L/min
TH-SV6-10-2NCP	10-2	350bar	60L/min
TH-SV2-12-2NCP	12-2	350bar	100L/min
TH-SV2-16-2NCP	16-2	350bar	150L/min



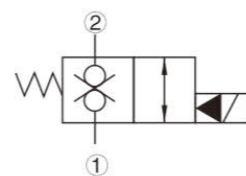
Two-position Two-way Normally Open

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-2NOP	08-2	350bar	25L/min
TH-SV6-08-2NOP	08-2	350bar	40L/min
TH-SV6-10-2NOP	10-2	350bar	60L/min
TH-SV2-12-2NOP	12-2	350bar	100L/min
TH-SV2-16-2NOP	16-2	350bar	150L/min



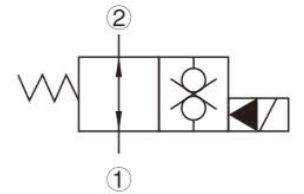
Two-position Two-way Normally Closed Double Check

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV6-08-2NCSP	08-2	350bar	40L/min
TH-SV6-10-2NCSP	10-2	350bar	60L/min
TH-SV6-12-2NCSP	12-2	350bar	100L/min
TH-SV6-16-2NCSP	16-2	350bar	150L/min



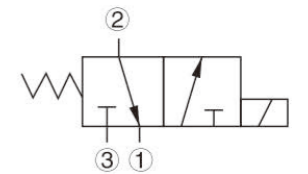
Two-position Two-way Normally Open

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV6-08-2NOSP	08-2	350bar	40L/min
TH-SV6-10-2NOSP	10-2	350bar	60L/min
TH-SV6-12-2NOSP	12-2	350bar	100L/min
TH-SV6-16-2NOSP	16-2	350bar	150L/min



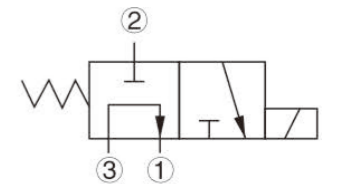
Two-position Three-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-3B	08-3	200bar	10L/min
TH-SV2-10-3B	10-2	200bar	18L/min



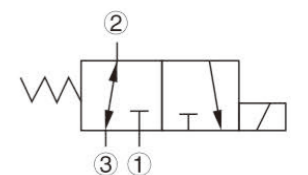
Two-position Three-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-3C	08-3	200bar	10L/min
TH-SV2-10-3C	10-3	200bar	18L/min



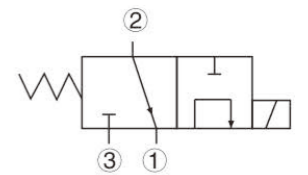
Two-position Three-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-3A	08-3	200bar	10L/min
TH-SV2-10-3A	10-2	200bar	18L/min



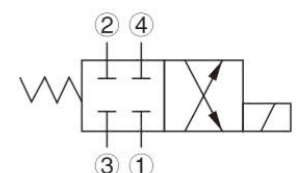
Two-position Three-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-3	08-3	200bar	10L/min
TH-SV2-10-3	10-3	200bar	18L/min



Two-position Four-way

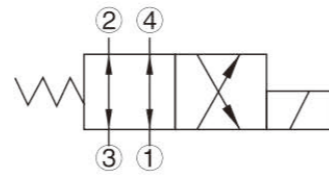
Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-4NC	08-4	200bar	10L/min
TH-SV2-10-4NC	10-4	200bar	10L/min





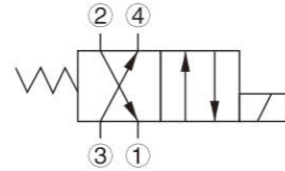
Two-position Four-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-4CO	08-4	200bar	10L/min
TH-SV2-10-4CO	10-4	200bar	18L/min



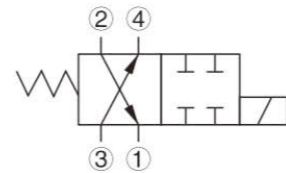
Two-position Four-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-45	08-4	200bar	10L/min
TH-SV2-10-45	10-2	200bar	20L/min



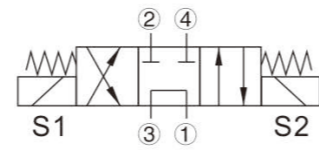
Two-position Four-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-10-4NO	10-4	200bar	20L/min



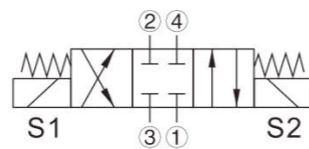
Three-position Four-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-34T	08-4	200bar	10L/min
TH-SV2-10-34T	10-4	200bar	20L/min



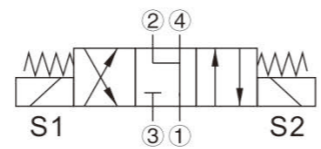
Three-position Four-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-34C	08-4	200bar	10L/min
TH-SV2-10-34C	10-4	200bar	20L/min



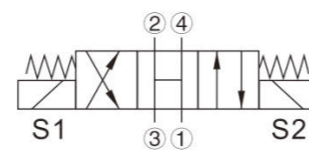
Three-position Four-way

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-34M	08-4	200bar	10L/min
TH-SV2-10-34M	10-4	200bar	20L/min

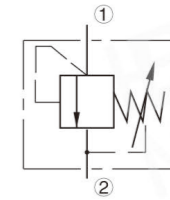


Two-position Three-way

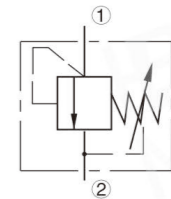
Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SV2-08-34O	08-4	200bar	10L/min
TH-SV2-10-34O	10-4	200bar	20L/min



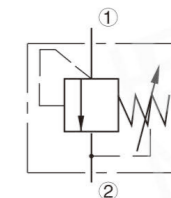
Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-CRV-02/X/Y	TH08-2	210bar	30L/min



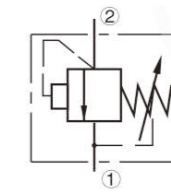
Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-HRV-08-00/X/Y	TH08-2	350bar	10L/min



Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-DRV2-08/X/Y	TH08-2	230bar	30L/min
THDRV2-10/X/Y	TH10-2	230bar	60L/min



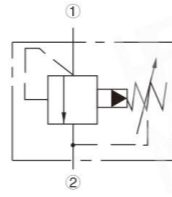
Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-HDRV-08/X/Y	TH08-2	210bar	30L/min
TH-HDRV-10/X/Y	TH10-2	210bar	60L/min





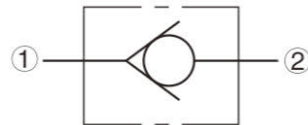
Pilot Relief Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-HPSRV-08/X/Y	TH08-2	210bar	35L/min
TH-HPSRV-10/X/Y	TH10-2	230bar	110L/min



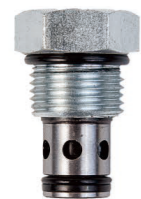
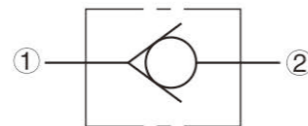
Pipeline Screw-incheck Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-140	G1/4	350bar	10L/min
TH-380	G3/8	350bar	50L/min
TH-120	G1/2	350bar	80L/min
TH-340	G3/4	350bar	140L/min
TH-100	G1	350bar	180L/min



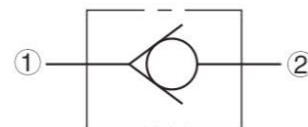
Check Valve-forward

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-08	TH08-2	315bar	30L/min



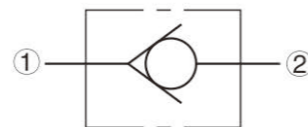
Check Valve-forward

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-10	TH10-2	315bar	70L/min



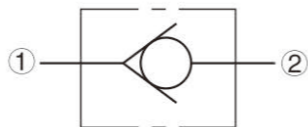
Check Valve-forward

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-12	TH12-2	315bar	110L/min



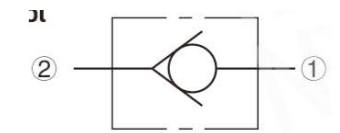
Check Valve-forward

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-16	TH16-2	240bar	200L/min



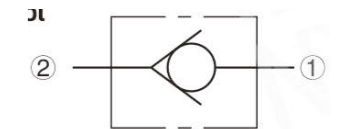
Check Valve-forward

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-F08	TH08-2	315bar	30L/min



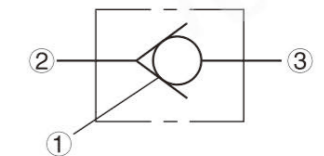
Check Valve-forward

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-F10	TH10-2	315bar	70L/min



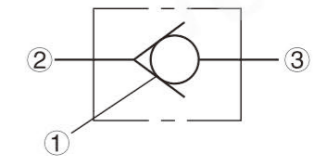
Pilot-operated Check Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SF08-01	TH08-3	240bar	25L/min



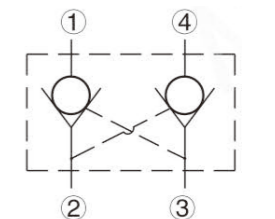
Pilot-operated Check Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-SF10-01	TH10-3	240bar	40L/min



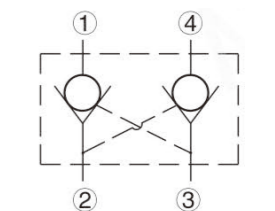
Two Way Hydraulic Control Check Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-S08-00	TH08-4	240bar	15L/min



Two Way Hydraulic Control Check Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-S10-00	TH10-4	240bar	24L/min

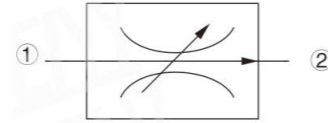


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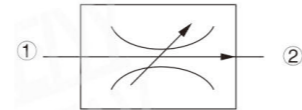
Adjustable Throttle Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-LF08-01	TH08-3	240bar	35L/min



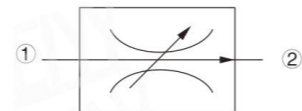
Adjustable Throttle Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-LF10-01	TH10-3	240bar	65L/min



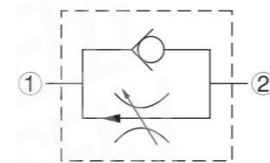
Adjustable Throttle Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-LF12-01	TH12-2	240bar	110L/min



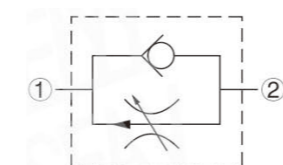
Adjustable Throttle Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-DLF08-01	TH08-2	240bar	25L/min



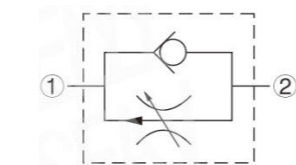
Adjustable Throttle Valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-DLF10-01	TH10-2	240bar	45L/min



Adjustable throttle valve

Model	CAVITY	MAX PRESSURE	MAX FLOW
TH-DLF12-01	TH12-2	240bar	45L/min



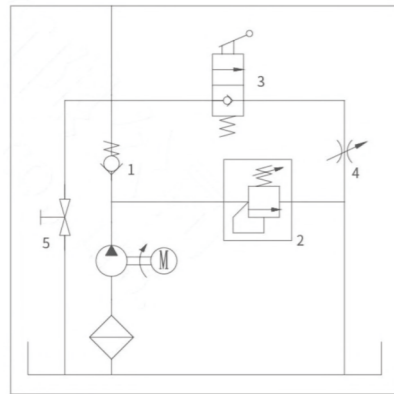
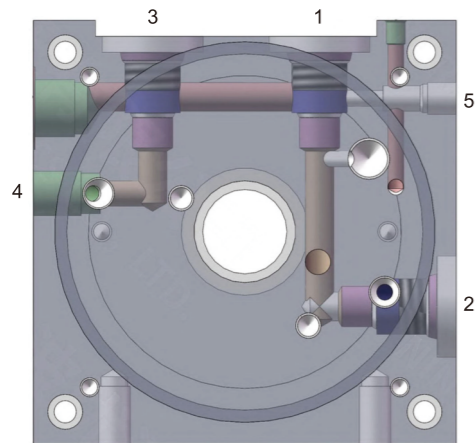
PARALLEL & SERIES MANIFOLD

CENTRAL BLOCKS

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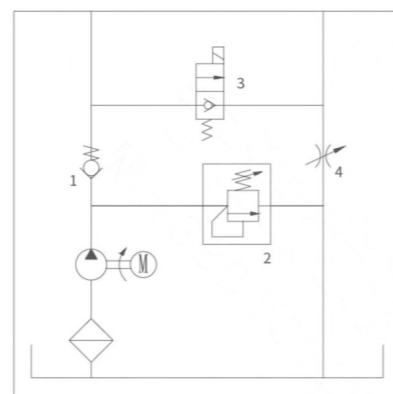
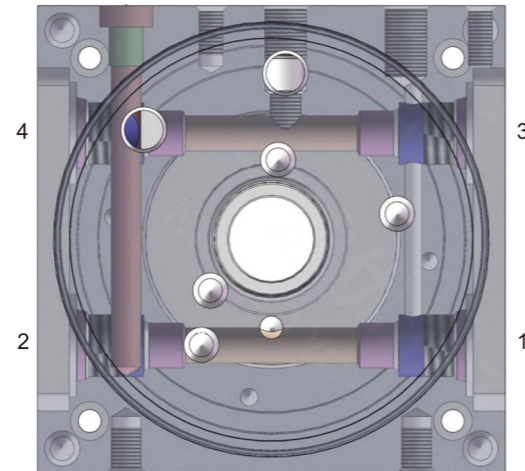
TH-Z-01 CENTRAL BLOCKS

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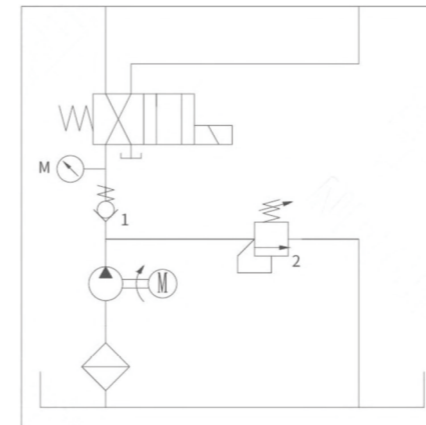
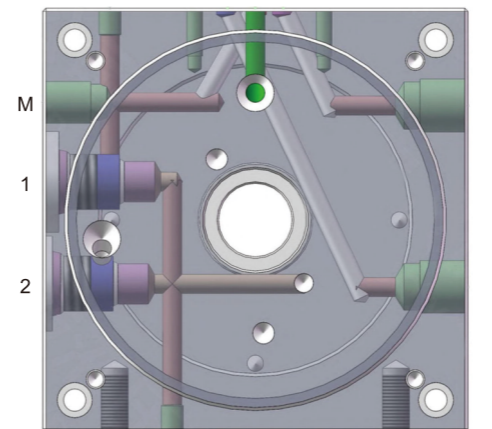
TH-Z-01-5 CENTRAL BLOCKS

* SPECIAL ON REQUEST



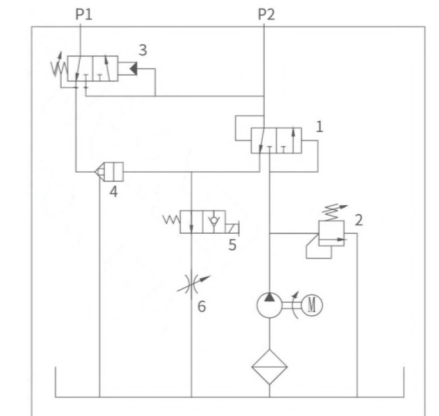
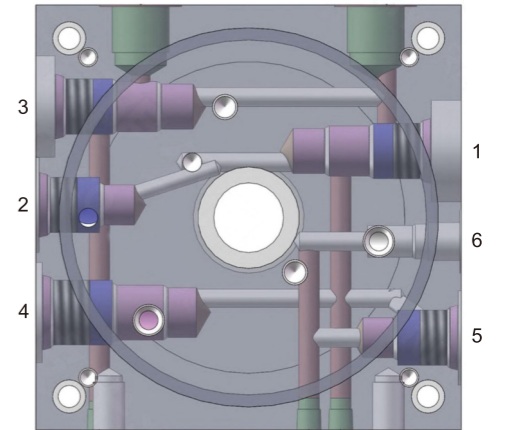
TH-Z-04 CENTRAL BLOCKS

* SPECIAL ON REQUEST



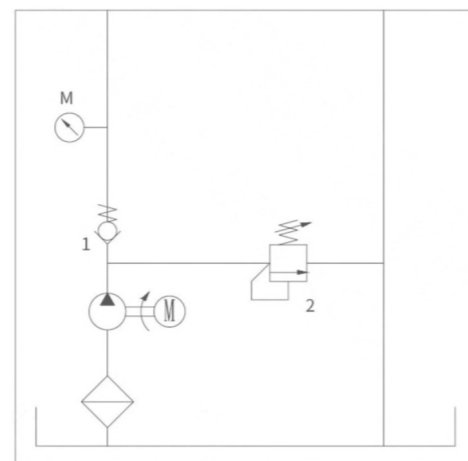
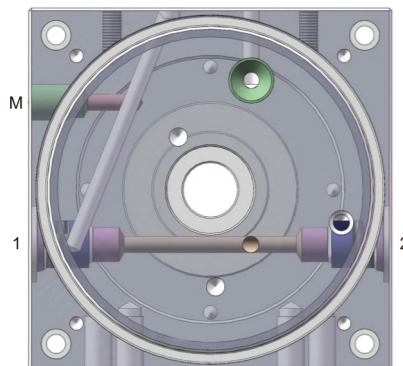
TH-Z-DCQ CENTRAL BLOCKS

* SPECIAL ON REQUEST



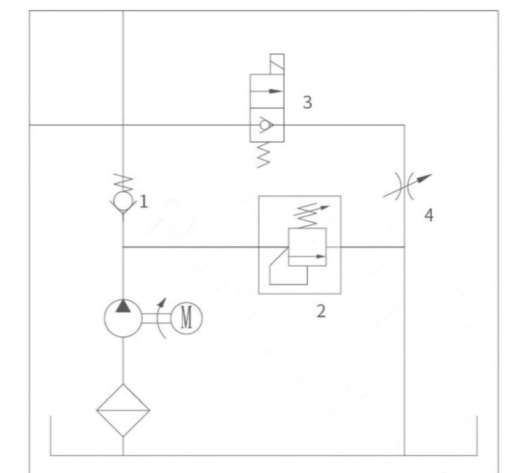
TH-Z-02 CENTRAL BLOCKS

* SPECIAL ON REQUEST



TH-Z-01-3 CENTRAL BLOCKS

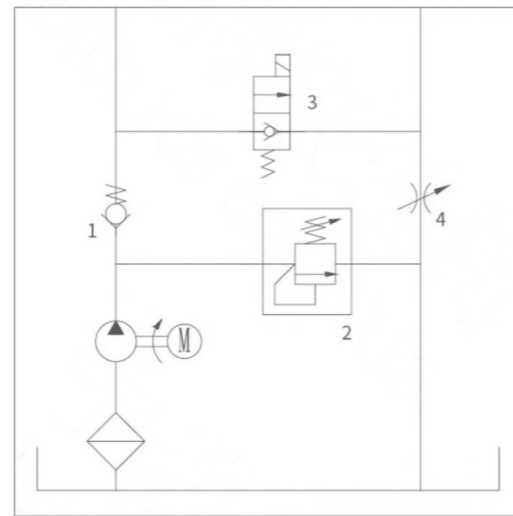
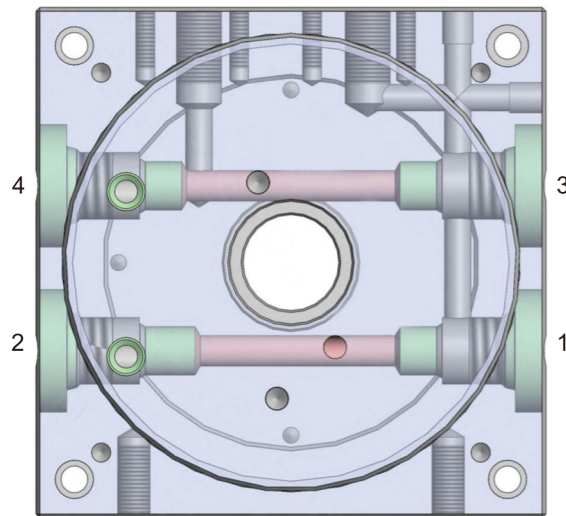
* SPECIAL ON REQUEST





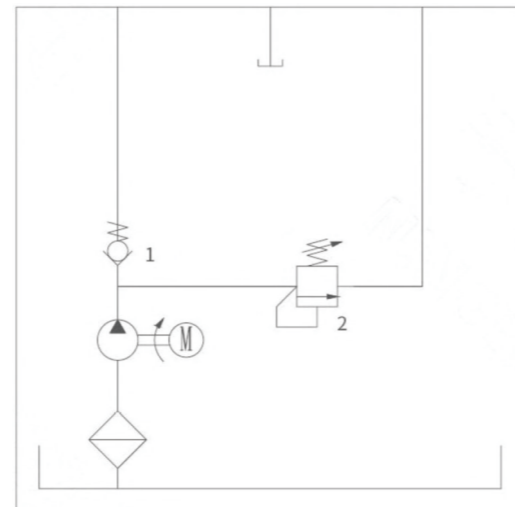
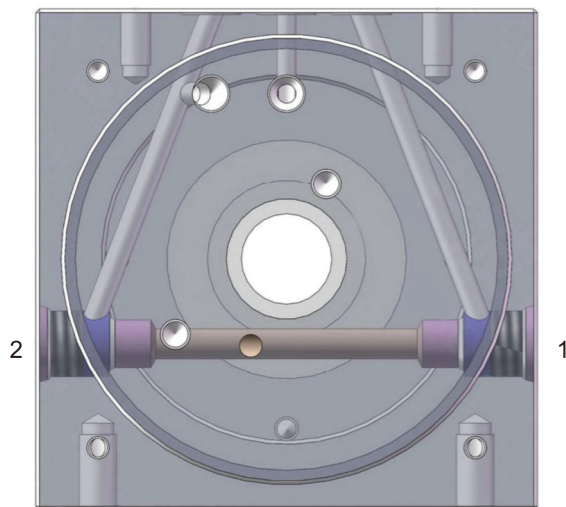
TH-Z-01-4 CENTRAL BLOCKS

* SPECIAL ON REQUEST



TH-Z-03 CENTRAL BLOCKS

* SPECIAL ON REQUEST

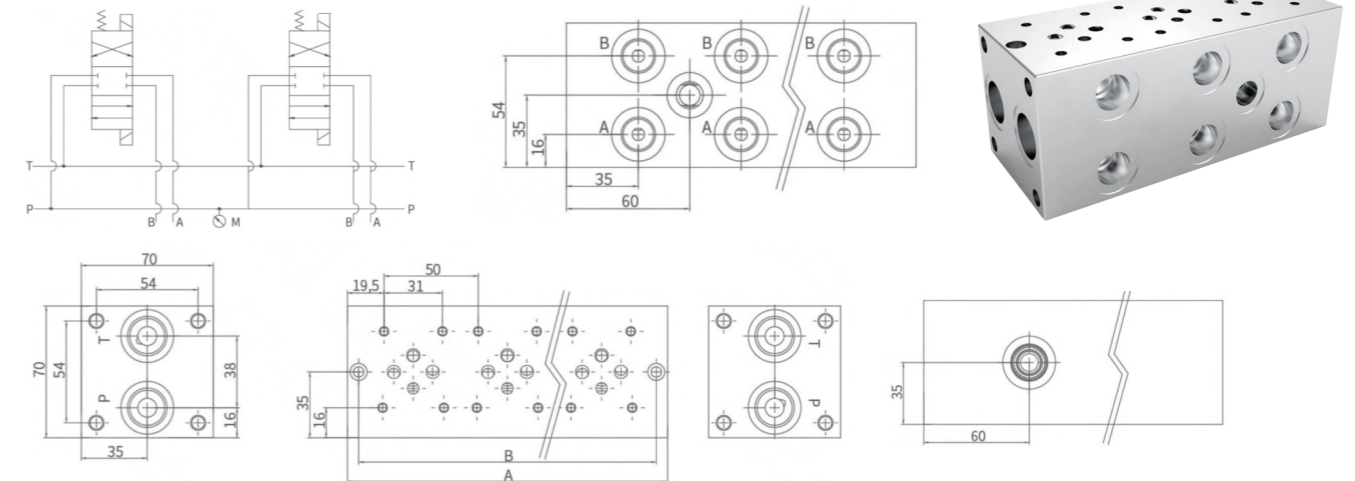


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TH-BZ-03-*Y PARALLEL MANIFOLDS

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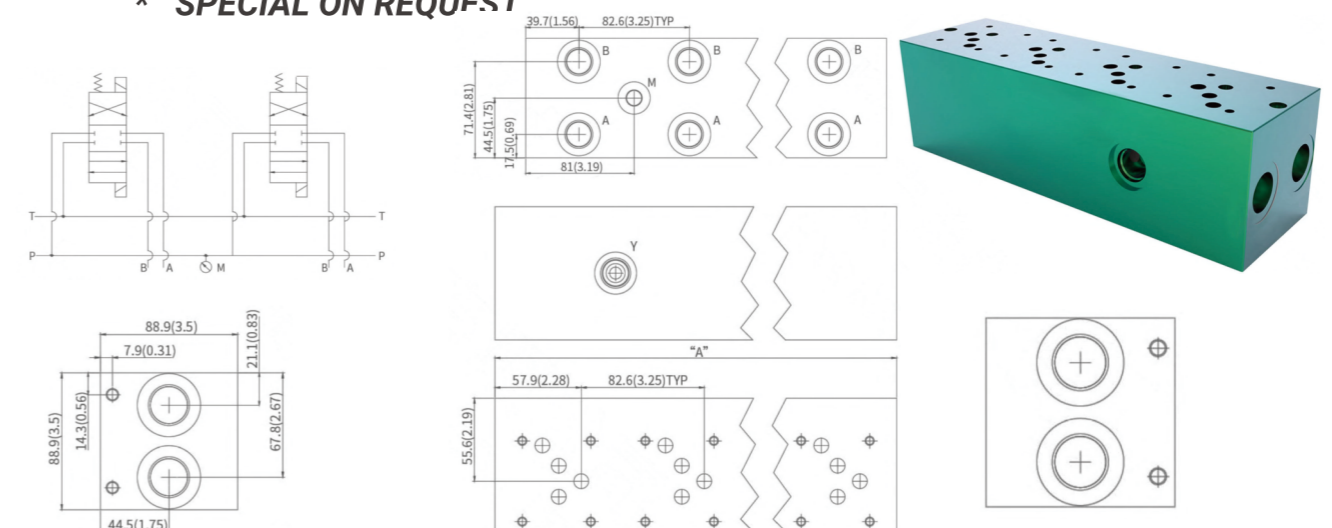


TYPE	2	3	4	5	6	7	8	9	10
"A"MM	108	162	216	270	324	378	432	486	540
"A"inch	4.25	6.38	8.5	10.63	12.75	14.88	17	19.13	21.25



TH-BZ-05-*Y PARALLEL MANIFOLDS

* SPECIAL ON REQUEST



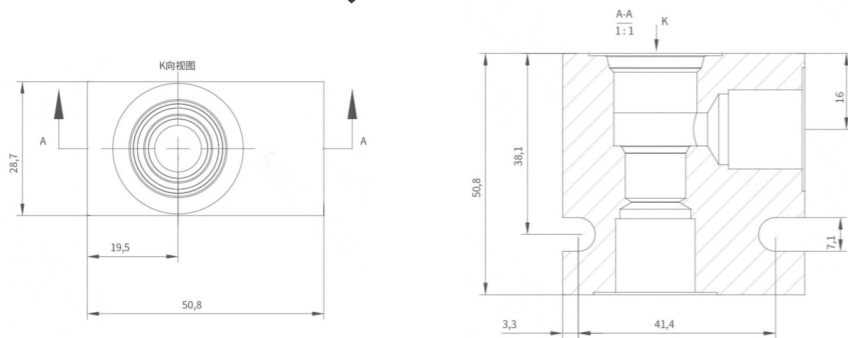
TYPE	2	3	4	5	6	7	8	9	10
"A"MM	165	248	330	412	495	578	660	743	825
"A"inch	6.50	9.75	13.0	16.25	19.50	22.75	26	29.25	32.50



A-08-2 STANDARD MANIFOLD

- A-08-2-4T 250bar(3600psi) SAE4
- A-08-2-5T 250bar(3600psi) SAE5
- A-08-2-6T 250bar(3600psi) SAE6
- A-08-2-2G 250bar(3600psi) G1/4
- A-08-2-3G 250bar(3600psi) G3/8

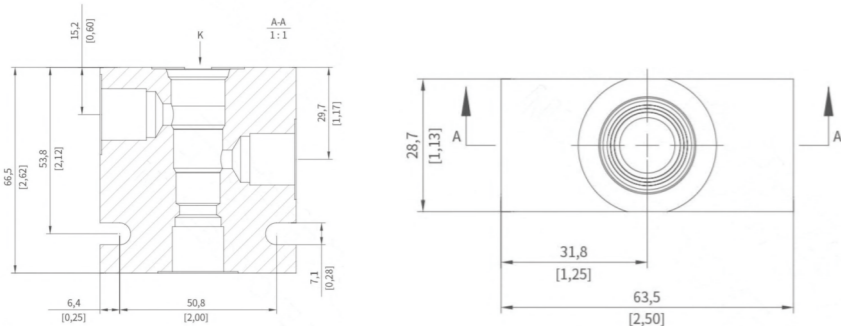
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A-08-3 STANDARD MANIFOLD

- A-08-3-4T 250bar(3600psi) SAE4
- A-08-3-6T 250bar(3600psi) SAE6
- A-08-3-2G 250bar(3600psi) G1/4
- A-08-3-3G 250bar(3600psi) G3/8

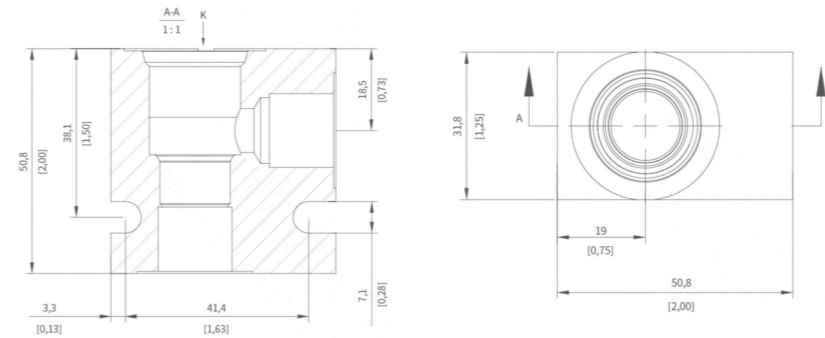
* SPECIAL ON REQUEST



A-10-2 STANDARD MANIFOLD

- A-10-2-6T 250bar(3600psi) SAE5
- A-10-2-8T 250bar(3600psi) SAE8
- A-10-2-2G 250bar(3600psi) G1/4
- A-10-2-3G 250bar(3600psi) G3/8
- A-10-2-4G 250bar(3600psi) G1/2

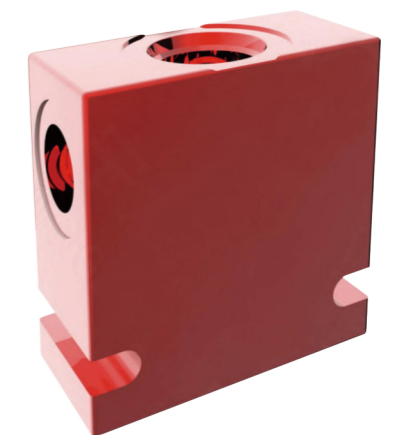
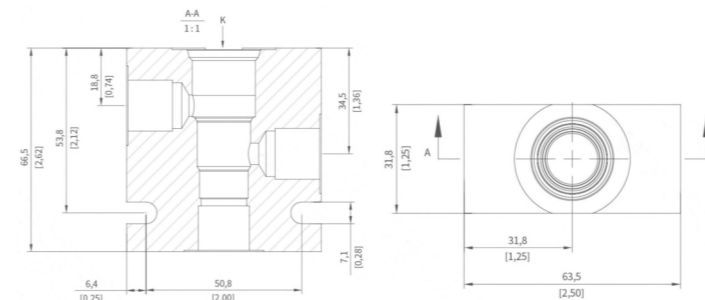
* SPECIAL ON REQUEST



A-10-3 STANDARD MANIFOLD

- A-10-3-6T 250bar(3600psi) SAE6
- A-10-3-8T 250bar(3600psi) SAE8
- A-10-3-2G 250bar(3600psi) G1/4
- A-10-3-3G 250bar(3600psi) G3/8

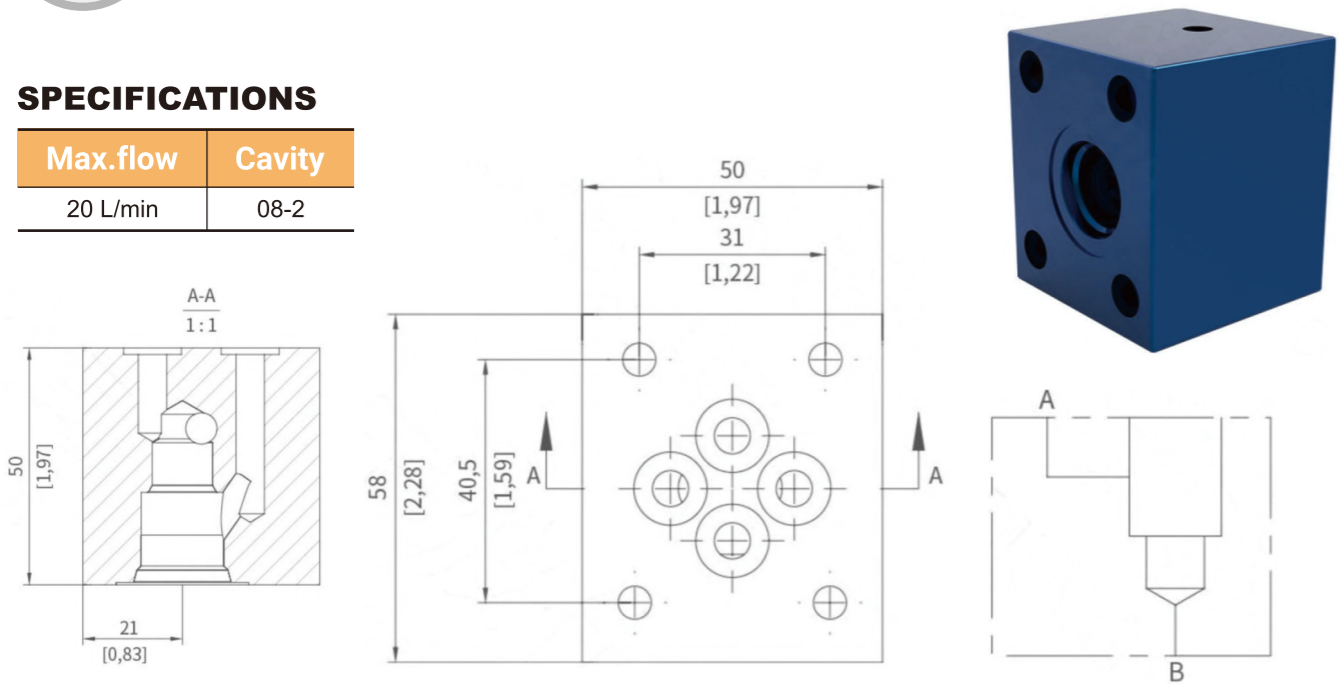
* SPECIAL ON REQUEST



TH-V2067 STANDARD MANIFOLD

SPECIFICATIONS

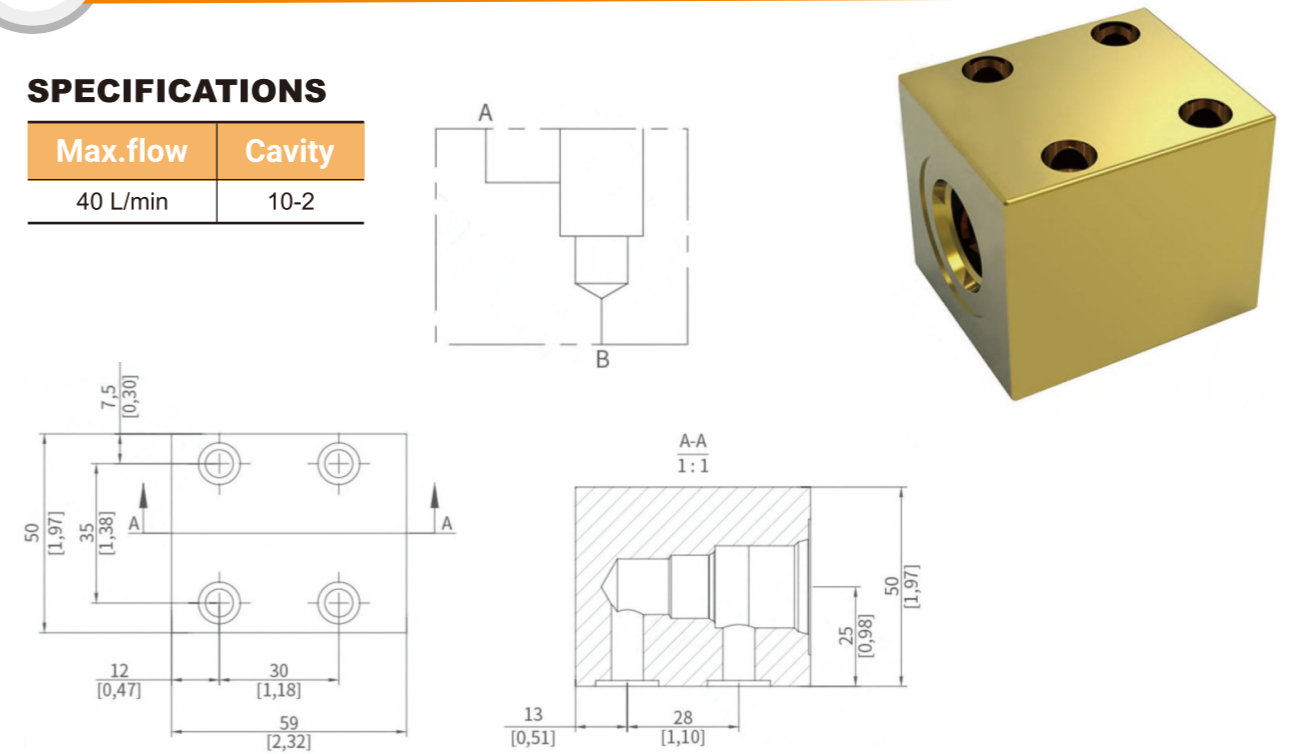
Max.flow	Cavity
20 L/min	08-2



TH-V3067 STANDARD MANIFOLD

SPECIFICATIONS

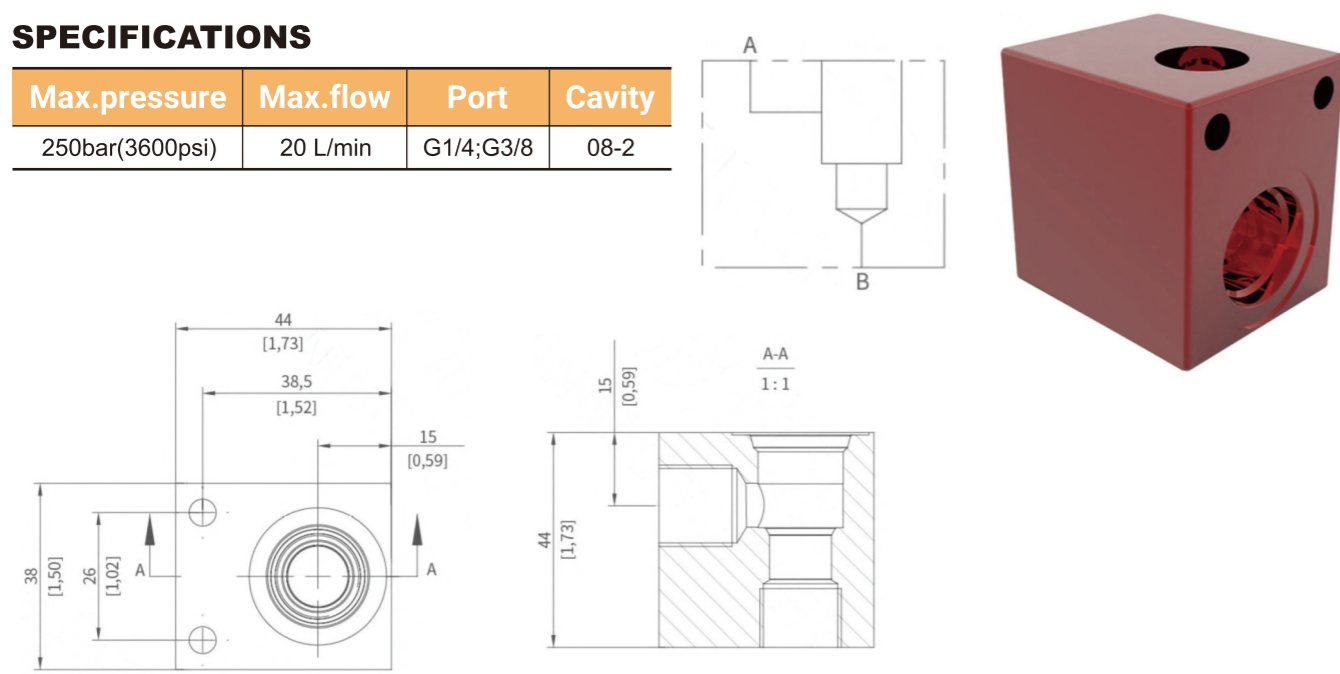
Max.flow	Cavity
40 L/min	10-2



TH-V2068 STANDARD MANIFOLD

SPECIFICATIONS

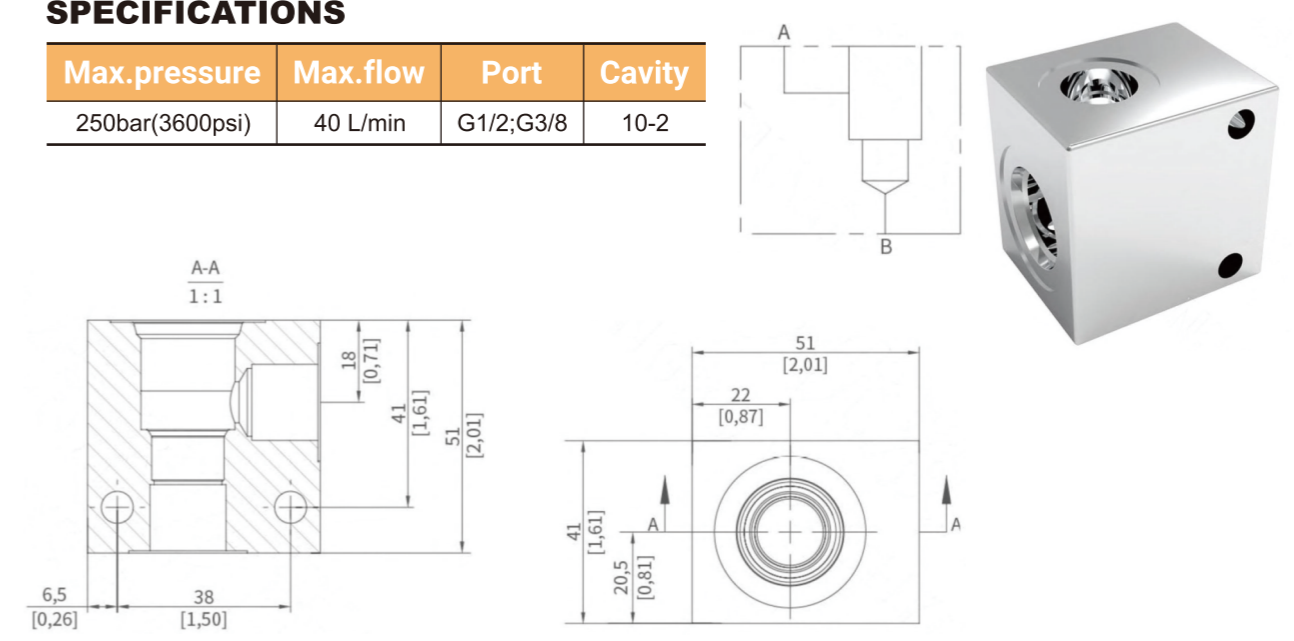
Max.pressure	Max.flow	Port	Cavity
250bar(3600psi)	20 L/min	G1/4;G3/8	08-2



TH-V3068 STANDARD MANIFOLD

SPECIFICATIONS

Max.pressure	Max.flow	Port	Cavity
250bar(3600psi)	40 L/min	G1/2;G3/8	10-2



TH-PF & PDF TYPE PREFILL VALVE

TH-PF- 80 - 20 -

01 02 03 04

01 Series Number
 TH-PF = Single stage form
 TH-PDF = Two-part form

02 Size
 50 = 2" 90 = 3-1/2" 125 = 5"
 80 = 3" 100 = 4" 150 = 6"

03 Type Number

04 Flange type
 FPD = PT PORT flange (with high and low pressure flange)
 FT = T-flange (with low pressure flange)
 FP = P flange (with high pressure flange)
 NO MARK = Without flange



Model	Port Size	Max.Flow l/min	Cracking Pressure kgf/cm ²	Max.Pressure kgf/cm ²	Weight (with-out flange) kg
TH-PF-50-20-*	2"	250	0.12	250	3.42
TH-PDF-80-20-*	3"	400	0.12		8.7
TH-PDF-90-20-*	3-1/2"	630	0.12		11.8
TH-PDF-100-20-*	4"	1000	0.12		15.8
TH-PDF-125-20-*	5"	1600	0.12		25.9
TH-PDF-150-20-*	6"	2500	0.13		42.2

Note: In actual use, the high differential pressure is not easy to form, and it is better to choose the above calculated value as more than 70% of the maximum flow.

TH-RCF TYPE PREFILL VALVE

TH-RCF A1 10 F

01 02 03 04 05

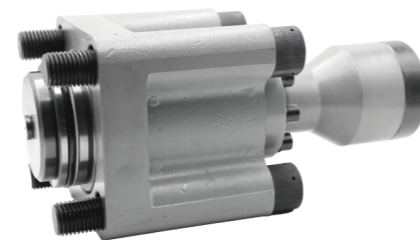
01 Series Number
 TH-RCF = RCF prefill valve

02 Size
 25, 40, 50, 63, 80, 100, 125, 150, 200, 250, 300, 350, 400

03 Opening pressure
 A1 = Type A, The opening pressure is 0.02Mpa

04 Design number

05 Additional function
 No marks = It has a pre-release function
 F = No pre-release function



TH-CRG/CRT RIGHT ANGLE CHECK VALVE

TH-CR 03

01 02 03 04 05

01 Series Number
 TH-CR = Right Angle check valve

02 Connection mode
 G = Subplate mounting
 T = Thread connecting

03 Size
 03, 06, 10

04 Opening pressure
 04 = 0.04 Mpa
 35 = 0.35 Mpa
 50 = 0.50 Mpa

05 Design number
 50



TH-MH TYPE MODULER SEQUENCE VALVE

TH-MH 03

01 02 03 04 05

01 Series Number
 TH-MH = Modular Sequence valve

02 Oil port
 A = A oil port
 B = B oil port
 P = P oil port

03 Size
 01, 03

04 Pressure adjustment scope
 Size 1
 C = 0-14
 H = 7-12
 Size 2
 N = 0-1.8
 A = 1.8-3.5
 B = 3.5-7
 C = 7-14

05 Design number
 20, 30



TH-HC TYPE

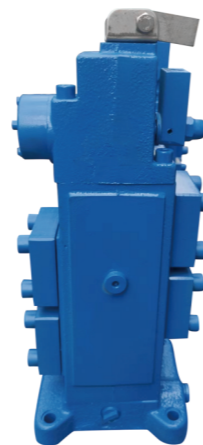
TH-HC 03 22
 01 02 03 04 05 06 07



- 01 Series Number**
TH-HC = H-type pressure control valve
- 02 Connection type**
T = Threaded type
G = Bottom mounting type
- 03 Specification**
03, 06, 10
- 04 Pressure regulation range**
L = 0.25~0.45 MPa A = 1.8~3.5 MPa
M = 0.45~0.9 MPa B = 3.5~7.0 MPa
N = 0.9~1.8 MPa C = 7.0~14 MPa
- 05 Valve type**
1, 2, 3, 4
- 06 Shaft-aided control**
P = with auxiliary control
Unmarked = No auxiliary control
- 07 Design number**
22

TH-35SFRE NARINE APPLY MANUAL VALVE

TH-35SFRE 03 22
 01 02 03 04 05 06



- 01 Series Number**
TH-35SFRE = 3-position 5-way manual proportional speed control valve
- 02 Medium Function**
O = Unloading
M = Non-unloading
- 03 Medium load condition**
O = Both A and B are closed
M = A is connected to T and B is closed
J = B is connected to T, A is closed
Y = A, B, T open
- 04 Pressure regulation range**
H2 = 4-16 Npa
H3 = 8-20 Npa
H4 = 16-32 Npa
- 05 Nominal size**
15, 20, 25, 32, 40, 50
- 06 Design number**

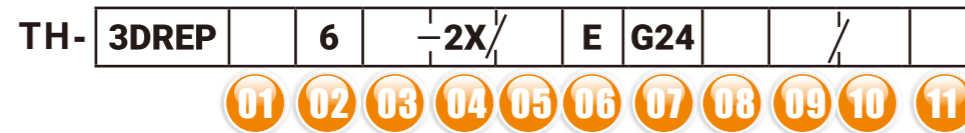
TH-PROPORTIONAL & SOLENOID VALVES



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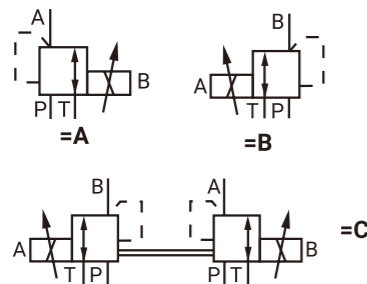
TH-3DREP SERIES



01 For external control electronics =No code
With integrated control electronics =E

02 Nominal size
Nominal size =6

03 Symbols



04 Series 20 to 29 =2X
20 to 29: unchanged installation and connection dimensions

Operating Pressure Range =16
16 bar =25
25 bar =45
45 bar

05 Supply Voltage
G24= Supply voltage 24V DC
E= Proportional solenoid with removable coil

06 No code= Without hand override
N9= With protected hand override



07 Electrical Connections FOR 3DREP
K4= With component plug to DIN EN 175301-803 (separate order)

08 FOR 3DREPE
K31= With component plug to DIN EN 175201-804 (separate order)

09 FOR 3DREPE
A1= Command value ±10 V
F1= Command value 4...(12)... 21 mA

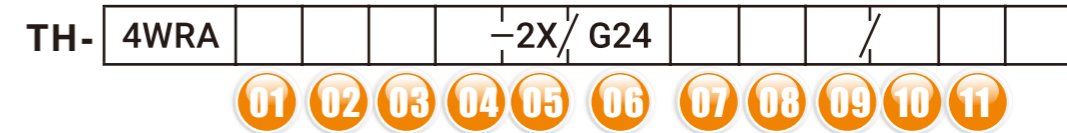
10 Command Value Of Amplifier
FOR 3DREP
No code=RT-MSPD1-30 (one solenoid)/RT-MSPD2-30 (double solenoid)(separate order)

11 Sealing Material
M= NBR seals
V= FKM seals

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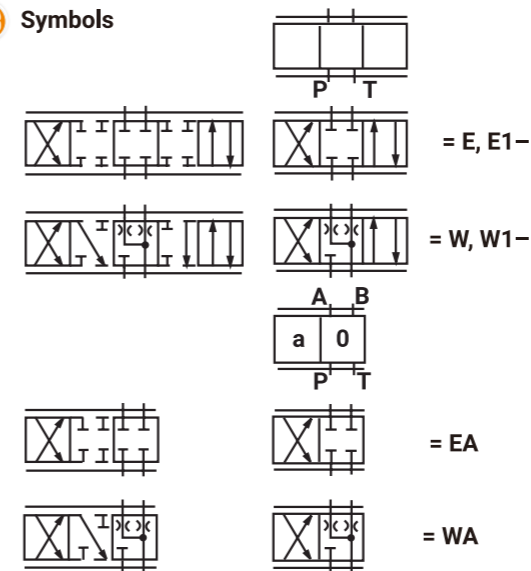
TH-4WRA SERIES



01 For external control electronics =No code
With integrated control electronics =E

02 Nominal size
Nominal size =6, 10

03 Symbols



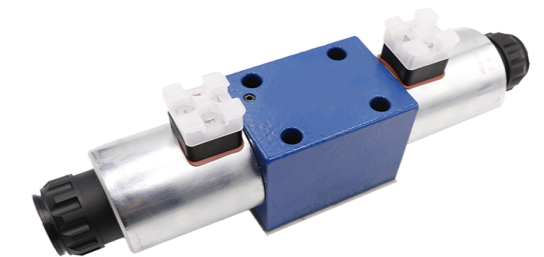
For piston symbols E1 and W1-:

P → A: $q_{V \max}$ B → T: $q_{V/2}$
P → B: $q_{V/2}$ A → T: $q_{V \max}$

Note:
With spools W and WA in the neutral position there is a connection from A to T and B to T with approx. 3% of the relevant nominal cross-section.

04 Rated Flow ($\Delta P=10$ bar)

NS 6
07 l/min =07
15 l/min =15
26 l/min =30
NS 10
30 l/min =30
60 l/min =60



05 Series 20 to 29
2X= 20 to 29: unchanged installation and connection dimensions

06 Supply Voltage
G24= Supply voltage 24V DC

07 Manual Emergency
No code= Without hand override
N9= With protected hand override

08 Special Protection
No code= Without special protection

09 Electrical Connections
FOR 4WRA
K4= Sockets conforming to DIN EN 175301-803 (plugs need to be ordered separately)
FOR 4WRAE
K31= 7 pin sockets conforming to DIN EN 175201-804 (plugs need to be ordered separately)

10 Command Value Of Amplifier
No code= 4WRA
FOR 4WRAE
A1=Command value ±10 V
F1=Command value 4...20 mA

11 Sealing Material
M=NBR seals V= FKM seals



TH-4WRLE SERIES

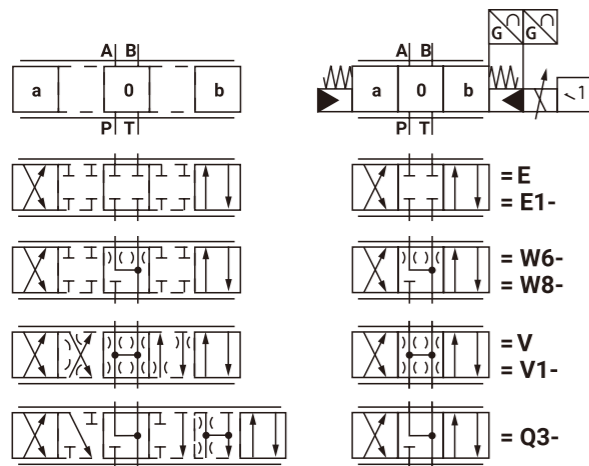
TH- 4WRL E 16 E 200 L J -4X/M XY/ 24 A1 *

01 02 03 04 05 06 07 08

01 With integrated control electronics =E

02 Nominal size
Nominal size =10、16、25、27

03 Symbols



With symbol E1-, V1- and W8-:

P → A: $q_{V \max}$ B → T: $q_{V/2}$
P → B: $q_{V/2}$ A → T: $q_{V \max}$

04 Rated flow ($\Delta p = 5$ bar/control edge)

NS 10	
60 l/min (only symbol E, E1-, W6-, W8-, V, V1-)	= 60
100 l/min	= 100
NS 16	
200 l/min (only symbol W6- and W8-)	= 200
250 l/min (only symbol E, E1-, V, V1- and Q3-)	= 250
NS 25	
350 l/min (only symbol W6- and W8-)	= 350
400 l/min (only symbol E, E1-, V, V1- and Q3-)	= 400
NS 27	
430 l/min (only symbol W6- and W8-)	= 430
600 l/min (only symbol E, E1-, V, V1- and Q3-)	= 600



05 Seal material
M = NBR seals V = FKM seals
4X = Series 40 to 49
40 to 49: unchanged installation and connection dimensions
J = Overlap jump
(opening point 5% with covered valve; only symbols E, E1-, W6-, W8-)
Flow characteristic
L = Linear
P = Linear with fine control range
(available for NG10, other sizes on request)
M = Progressive with linear fine control (only symbol Q3-)

06 Supply Voltage
24 = Supply voltage 24 V
Pilot oil flow
XY = External pilot oil supply, external pilot oil return
PY = Internal pilot oil supply, external pilot oil return
PT = Internal pilot oil supply, internal pilot oil return
XT = External pilot oil supply, internal pilot oil return

07 Command Value Of Amplifier
A1 = Command value ± 10 V
F1 = Command value 4...(12)... 21 mA

08 *=Further detail lease contact adiffer team.



TH-4WRPH SERIES

TH- 4WRP H 10 B -2X/ G24 Z4 / M *

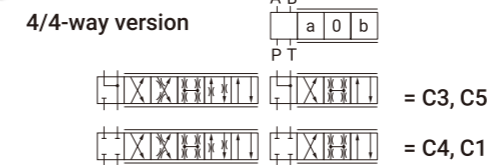
01 02 03 04 05 06 07 08 09 10 11 12

01 For external trigger electronics = no code

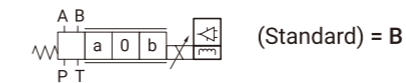
02 Control spool/sleeve = H

03 Size 6, 10 = 6, 10

04 Symbols



05 Side of inductive position transducer



06 Nominal flow rate at 70 bar valve pressure difference (35 bar / metering notch)

NS 6	
02 = 2 L/min	25 = 25 L/min
04 = 4 L/min	40 = 40 L/min
12 = 12 L/min	NS 10
15 = 15 L/min	50 = 50 L/min
24 = 24 L/min	100 = 100 L/min



07 Flow characteristic
L = Linear
P = Inflected characteristic curve, linear

08 Flow characteristic
2X = Series 20 to 29 (20 to 29: unchanged installation and connection dimensions)

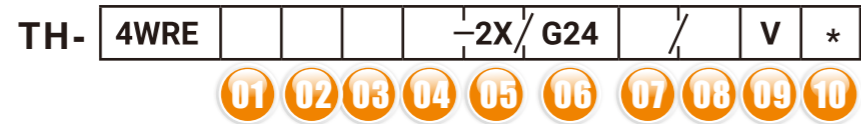
09 Voltage supply of trigger electronics
G24 = 24 V DC

10 Electrical connection
Z4 = with line socket, with plug to DIN 43 560-AM2
Line socket included in scope of delivery

11 Sealing Material
M = NBR seals
V = FKM seals

12 * = Further detail lease contact adiffer team.

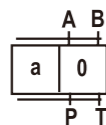
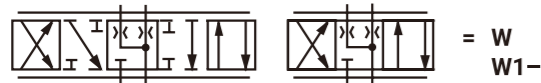
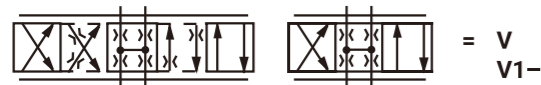
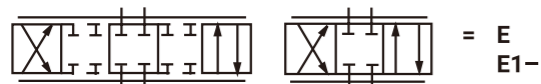
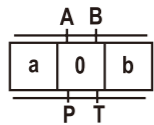
TH-4WRE SERIES



01 Without external control electronics(OBE)=No code
With integrated control electronics(OBE) =E

02 Nominal size
Nominal size =6, 10

03 Symbols



With symbol E1-, V1- and W1-:

P → A: q_{Vmax} B → T: $q_{V/2}$
P → B: $q_{V/2}$ A → T: q_{Vmax}

Notice:

In the zero position, spools W and WA have a connection from A to T and B to T with approx. 3% of the relevant nominal cross-section.

04 Rated Flow ($\Delta P=10$ bar)

NS 6	NS 10
04= 4 l/min	25= 25 l/min
08= 8 l/min	50= 50 l/min
16= 16 l/min	75= 75 l/min
32= 26 l/min	

05 Series 20 to 29

2X= 20 to 29: unchanged installation and connection dimensions

06 Supply Voltage

G24= Supply voltage 24V DC

07 Electrical Connections

FOR 4WRE
K4= Sockets conforming to DIN EN 175301-803 (plugs need to be ordered separately)

FOR 4WREE
K31= 7 pin sockets conforming to DIN EN 175201-804 (plugs need to be ordered separately)

08 Command Value Of Amplifier

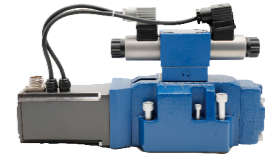
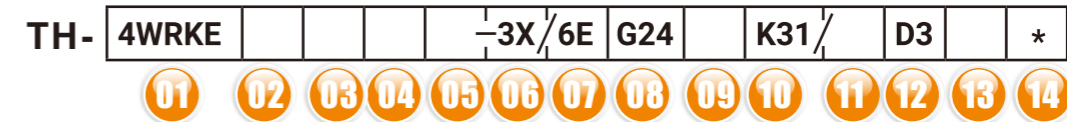
No code= 4WRE
FOR 4WREE
A1=Command value ± 10 V
F1=Command value 4...20 mA

09 Sealing Material

M= NBR seals V= FKM seals

10 *= Further detail lease contact adiffer team.

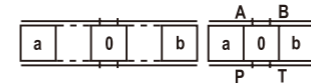
TH-4WRKE SERIES



01 Electrically operated 2-stage proportional directional valve in 4-way version with inte-grated electronics

02 Size 10 = 10 Size 27 = 27
Size 16 = 16 Size 32 = 32
Size 25 = 25 Size 35 = 35

03 Symbols



With symbol E1-, W8-:

P → A: q_v B → T: $q_v/2$
P → B: $q_v/2$ A → T: q_v

With symbol R, R3-:

P → A: q_v B → P: $q_v/2$
P → B: $q_v/2$ A → T: q_v

Notice:

In the zero position, spools W6-, W8- and R3- have a connection from A to T and B to T with approx. 2% of the relevant nominal cross-section.

Rated flow	
04 25 = or 50 = or 100 =	Size 10
125 = or 150 = or 200 = or 220 =	Size 16
220 = or 350 =	Size 25
500 =	Size 27
400 = or 600 =	Size 32
1000 =	Size 35

05 Characteristic curve form

L = Linear
P = Linear with fine control range

06 3X = Component series 30 to 39
(30 to 39: Unchanged installation and connection dimensions)

07 6E = Proportional solenoid with detachable coil

08 Supply voltage
G24 = Direct voltage 24 V

09 Pilot oil supply and drain
no code = Pilot oil supply external, pilot oil drain external
E = Pilot oil supply internal, pilot oil drain external
ET = Pilot oil supply internal, pilot oil drain internal
T = Pilot oil supply external, pilot oil drain internal

10 Electrical connection
K31 = Without mating connector with connector according to DIN EN 175201-804
Mating connector – separate order

11 Electronics interface
C1 = Command value/actual value ± 10 mA
A1 = Command value/actual value ± 10 V
F1 = Command value/actual value 4 to 20 mA

12 D3 = With pressure reducing valve
ZDR 6 DPO-4X/40YM-W80 (non-adjustable)

13 M = NBR seals V = FKM seals

14 *= Further detail lease contact adiffer team.

TH-4WPT SERIES

TH- 4WRT E 16 E 150 L-4X/6E G24 K31/A1 M *

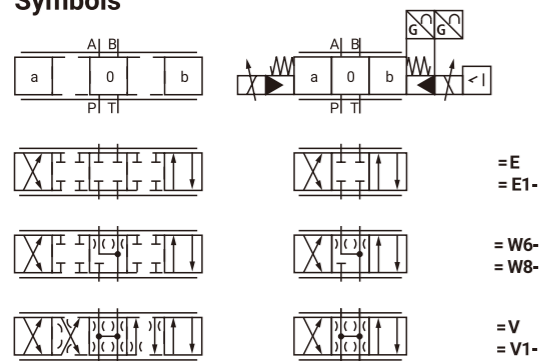
- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10
- 11
- 12
- 13
- 14

01 4 main ports directional control valve, pilot-operated = 4WRT

02 With integrated control electronics (OBE) = E

03 Nominal size
Nominal size = 10, 16, 25, 27, 32

04 Symbols



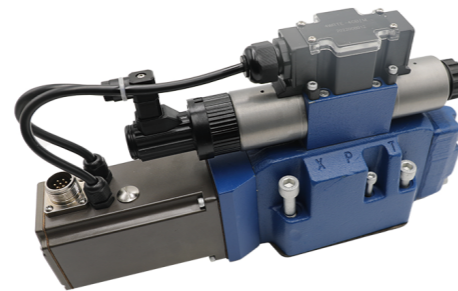
With symbol E1-, V1- and W8-:

P → A: $q_{V \max}$ B → T: $q_{V/2}$
P → B: $q_{V/2}$ A → T: $q_{V \max}$

Notices:
Representation according to DIN ISO 1219-1.
Hydraulic interim positions are shown by dashes.

05 Rated flow ($\Delta p = 5 \text{ bar/control edge}$)

NS 10	
25 l/min (symbol E, W6-, W8-, V, only with flow characteristic "L")	= 25
50 l/min (symbol E1-, W8- and V1 only with flow characteristic "L")	= 50
90 l/min	= 90
NS 16	
150 l/min (symbol V1 only with flow characteristic "L")	= 150
220 l/min	= 220
NS 25	
220 l/min	= 220
350 l/min	= 350
NS 27	
500 l/min	= 500
NS 32	
400 l/min	= 400
600 l/min	= 600



06 Flow characteristic
L= Linear
P= Inflected characteristic curve, linear

07 4X= Series 40 to 49
40 ... 49: unchanged installation and mounting dimensions

08 Pilot control valve
6E= Proportional solenoid with detachable coil (NG6)

09 Supply Voltage
G24= Supply voltage 24V DC

10 Pilot oil flow
No Code= External pilot oil supply, external pilot oil return
E= Internal pilot oil supply, external pilot oil return
ET= Internal pilot oil supply, internal pilot oil return
T= External pilot oil supply, internal pilot oil return

11 Electrical Connections
K31= 7 pin sockets conforming to DIN EN 175201-804 (plugs need to be ordered separately)

12 Command Value Of Amplifier
A1= Command value $\pm 10 \text{ V}$
F1= Command value 4 ... (12) ... 21 mA

13 Sealing Material
M= NBR seals
V= FKM seals

14 *= Further detail lease contact adiffer team.

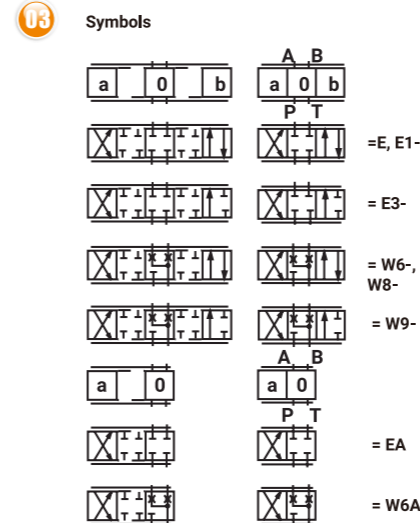
TH-4WRZE SERIES

TH- 4WRZE -7X / / / / / / *

- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10
- 11
- 12
- 13
- 14
- 15
- 16

01 Without integrated control electronics =No code
With integrated control electronics =E

02 Nominal size
Nominal size =6, 10, 25, 32



With symbols E1- and W8-:
P to A: $q_{V \max}$ B to T: $q_{V/2}$
P to B: $q_{V/2}$ A to T: $q_{V \max}$

With symbols E3- and W9-:
P to A: $q_{V \max}$ B to T: closed
P to B: $q_{V/2}$ A to T: $q_{V \max}$

(Regenerative circuit, base of spool at port A)

Note:With spools W6-, W8-, W9-, W6A in spool position "0", there is a connection from A to T and B to T with less than 2% of the relevant nominal cross-section.

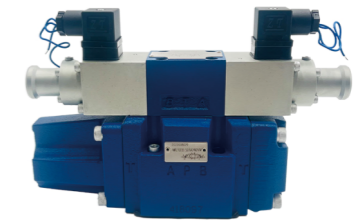
04 Rated Flow ($\Delta P=10 \text{ bar}$)

NS 10		NS 16
25 L/min =25		100 L/min =100
50 L/min =50		125 L/min =125
85 L/min =80		150 L/min =150
		180 L/min =180
NS 25		NS 32
220 L/min =220		360 L/min =360
325 L/min =325		520 L/min =520

05 Series 70 to 79
7X= Series 70 to 79(70 to 79:unchanged installation and connection dimensions)

06 No code= For subplate mounting

07 6E= Pilot valve size 6, proportional solenoid with detachable coil



08 Supply Voltage
G24= Supply voltage 24V DC

09 Manual Override
NO code= Without manual override
N9=With concealed manual override

10 NO code= Without special type of protection

11 Manual Override
NO code= External pilot oil supply, external pilot oil drain.
E = Internal pilot oil supply, external pilot oil drain.
ET = Internal pilot oil supply, internal pilot oil drain.
T = External pilot oil supply, internal pilot oil drain.

12 Electrical connection
FOR 4WRZ
K4 = Without cable socket with component plug to DIN EN 175301-803
Cable socket (plugs need to be ordered separately)

FOR 4WRZE
K31 = Without cable socket with component plug to DIN EN 175201-804
Cable socket (plugs need to be ordered separately)

13 Electronic interface
A1 or F1 with 4WRZE
FOR 4WRZE
A1 = Command value input $\pm 10 \text{ V}$
F1 = Command value input 4 to 20 mA
No code = FOR 4WRZ

14 No code =Without pressure reducing valve
D3 =With pressure reducing valve ZDR 6 DP0-4X/40YM-W80 (fixed setting)

15 Sealing Material
M= NBR seals
V= FKM seals

16 *= Further detail lease contact adiffer team.



DWSG SERIES WITH EMERGENCY HANDLE



PRODUCT FEATURES:

1. This valve can work even in the case of power failure.
2. There are two different circuit for your choosing according to the install requirement.
3. When the valve operated by electrical, the handle will stay in the original location, the handle will not effect any valve performance.
4. It can be used as the pilot valve of hydraulic control directional valve
5. The mounting surface is same as din24340 A type and WE series.

TH-DWSG 02 * 1X E * * * *
 01 02 03 04 05 06 07 08 09 10 11

01 Solenoid directional valve with emergency handle

02 Size
 02=size6
 03=size10

03 Spool Symbols

04 Series 10-19 =1X
 (10-19: no change of the installation and connection size)

05 Connect with solenoid thread

06 D12 D24 =DC12V 24V
 R110 R220=RAC110 220V
 A110 A220=AC110 22V

07 no code= handle is placed in a vertical position
 MO= Handle level set

08 remark:Spool Symbols
 take ref DSG series

09 technical parameters:take ref DSG series
 performance characteristics: take ref DSG series

10 H:DIN43650 Type Plug
 L:DIN43650 Type Plug with Lamp
 F: Deutsch. Protection degree IP69K
 A:AMP Junior-Timer,protection degree Ip66
 D: with two lead wires

11 No Code = NBR Seals
 V=FKM Seals

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WEH SERIES

TH- 4WEH 10 E 6X 6A D24 L
 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17

01 Working pressure No code = 28 Mpa
 35 Mpa=H

02 Size :
 10=NG10 16=NG 16 25=NG25 32=NG 32

03 no code = with spring return or centring
 H= with hydraulic return or centring

04 take reference the spool of slide valves

05 Series 60-69=6X

06 when pilot valve is two solenoids two position valve
 pilot valve is with hydraulic reset
 O= without spring return
 OF= without spring return with deten

07 pilot control valve
 standard solenoid valve = 6A
 high capability solenoid valve = 6E

08 D12 D24=DC12V DC24V
 A110 A220=AC110V/50HZ AC220V/50HZ
 R110 R220=RAC110V RAC220V

09 no code = without manual override
 N= with manual override

10 no code = external pilot, external drain
 E =internal pilot external drain ET=internal pilot internal drain
 T=external pilot internal drain
 (Hydraulic centering 3 position valve not suit for E & ET)

11 no code = without switching time adjustment
 S= switching time adjustment as meter-in control
 S2=switching time adjustment as mter-out control

H= with DIN 43650connector L= DIN 43650 connector with lamp

12 H= with DIN 43650connector
 L= DIN 43650connector with lamp

13 No code = without insert damper
 B08= damper 0.8mm B10= damper 1.0mm
 B12= damper 1.2mm B15= damper 1.5mm

14 No code = without pre-load valve
 P0.45 = with pre-load valve
 P=0.45Mpa

17 No code = without pressure reducing valve
 D1= with pressure reducing valve
 (reducing rate 1:0.66)

15 No code = mineral substance hydraulicoil
 V= phosphate ester hydraulicoil

16 Notes



DSHG SERIES ELECTRIC

TH- DSH G 04 3C2 D24 L
 01 02 03 04 05 06 07 08 09 10

01 Electric-hydraulic Directional Valves

02 Mounting Way : Subplate Installation

03 Size:
 04=ng16 06=ng25 10=ng32

04 Slide Valve Spool

05 Pilot Connection
 None: Internal Pilot
 E : External Pilot

06 Drain Connection
 Blank : External Drain T:internal Drain

07 D12 D24=DC12V DC24V
 A110 A220=AC110V/50HZ 220V/50HZ
 R110R220=RAC110V RAC220V

08 H= with DIN 43650connector
 L= DIN 43650 connector with lamp B= with terminal box

09 Stroke adjustment AB both sides
 A: A side B :B side

10 K=With knob blank = without knob

TH-WMM SERIES 70



TH-4WMM4**70/F LR

TH-4WMM6**70/F LR

TH-4WMM10**70/F LR

TH- 4 WMM 6 E 70 F

01 02 03 04 05 06 07 08 09

- 01 3=3 position 4=4 position
- 02 Handle operated
- 03 Size:4=NG4 6=NG6 10=NG10
- 04 Spool Symbols
- 05 Series Code
- 06 No code : with spring return F:with detent
- 07 No code = without insert damper B08= damper 0.8mm B10= damper 1.0mm B12= damper1.2mm
- 08 no code = mineral substance hydraulic oil V= phosphate ester hydraulic oil
- 09 hand shank operation direction no code : front and back operation LR: left and right operation

TH-WMM TYPE OF 80 SERIES L VALVE

WORKING FEATURE

- 1.Spool and handle connected together as a whole, reliability is better
- 2.Sub-plate installation
- 3.Handle operated
- 4.Installation surface according to DIN24340 A type ISO4401



TH- 4 WMM 6 E 80 F

01 02 03 04 05 06 07 08 09

- 01 3 ways = 3 4 ways = 4
- 02 Handle operated
- 03 Nominal diameter 6 = nominal size 6 10 = nominal size 10 16 = nominal size 16 25 = nominal size 25 32 = nominal size 32
- 04 Serial number (improved and designed on the basis of original series valve, and make the spool and back handle connected together)
- 05 No mark = spring return F = with detent
- 06 No mark = without plug-type damper B08 = with damper, diameter of throttle hole:0.8mm B10 = with damper, diameter of throttle hole:1.0mm B12 = with damper, diameter of throttle hole:1.2mm
- 07 No mark = mineral oil V= organic phos:phate
- 08 Options of handle position No mark: handle position is at A sideR: handle position is at B side
- 09 no mark : standard type S: SS type (except block,other parts all make by ss)

TH-DWG-70 TYPE



TH-DMG 005**70/F LR

TH-DMG02**LR

TH-DMG 03** LR

TH- DM G 02 3C2 W 70

01 02 03 04 05 06 07

- 01 manually operated directional valves
- 02 Subplate installation
- 03 005=NG4 02=NG6 03=NG10
- 04 spool symbols
- 05 O: Steel ball position W: spring reset
- 06 Hand shank operation direction no code : front and back operation LR: left and right operation
- 07 series code

TH-DMG-80 SERIES

WORKING FEATURE

1. spool and handle connected together as a whole, reliability is better
2. sub-plate installation
3. handle operated
4. installation surface according to DIN24340 A type ISO4401

TH- DW G 02 3C2 W 80

01 02 03 04 05 06 07

- 01 Manually operated directional valve
- 02 Sub-plate installation
- 03 02= nominal size 6 03= nominal size 10
- 04 Spool symbol
- 05 O: steel ball detent W: spring return
- 06 Options of handle position No mark: handle position is at A side R: handle position is at B side
- 07 Serial number (improved & designed on the basis of original series valve: making the spool and back handle connected together)





TH-4WE4 TYPE 61 SERIES

TH-4 WE 4 E 61 D24 H S
 01 02 03 04 05 06 07 08 09 10

- 01 Main Ports=3
Main Ports=4
- 02 Solenoid Directional Valves
- 03 3= Size 3
4=Size 4
- 04 Spool Symbols
- 05 60 series (with four holes install)
- 06 O= without spring return
OF=Without spring return with detent.
(only suit two position valve with two solenpids)
- 07 D12=DC12V D24=DC24V
- 08 H:DIN43650 Type Plug L:DIN43650 Type Plug with Lamp
F: Deutsch
Protection degree IP69K
A :AMP Junior-Timer,protection degree Ip66
D: With two lead wires
- 09 No Code = NBR Seals
V =FKM Seals
- 10 S:blue block
M:black block



TH-4WE6 SERIES

TH-4 WE 6 E 6X E D24 N L L L
 01 02 03 04 05 06 07 08 09 10 11 12 13

- 01 Main Ports=3
Main Ports=4
- 02 Solenoid Directional Valves
- 03 Size=6
- 04 Spool Symbols
- 05 Series 60-90=6x
60~90 series shape is interchangeable
- 06 no code = with spring return
O = without spring return
OF= Without spring return with detent.
- 07 Connect with solenoid thread -E
- 08 DC12V=D12 DC24V=D24
AC110V-50HZ=A110-50 AC220V-50HZ=A220-50
RAC110V= R110 RAC220V=R220
- 09 NP= with self-locking emergency push rod
N = with manual push rod
- 10 H: DIN43650 Type Plug
L: DIN43650 Type Plug with Lamp
F: Deutsch. protection degree IP69K
A: AMP Junior-Timer,protection degree Ip66
D: With double leads
B: With terminal box
- 11 no code = without locating bore
With Orifice bore B08=φ0.8mm
With Orifice bore B10=φ1.0mm
With Orifice bore B12=φ1.2mm
- 12 No Code = NBR Seals
V=FKM Seals
- 13 block print:
H: Black color
L: Blue color



TH-4WE10 SERIES

TH-4 WE 10 E 3X C D24 L L
 01 02 03 04 05 06 07 08 09 10 11 12 13

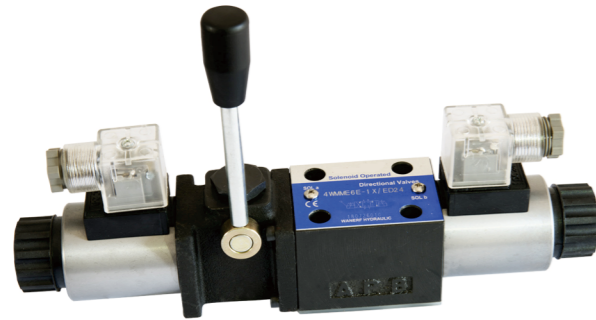
- 01 Main Ports=3
Main Ports=4
- 02 Solenoid Directional Valves
- 03 Size=10
- 04 Spool Symbols
- 05 Series 30-39=3X
(30.39: no change of the installation and connection size)
- 06 no code = with spring return
O = without spring return
OF= Without spring return with detent.
- 07 Connect with solenoid thread =C
- 08 DC12V=D12 DC24V=D24
AC110V-50HZ=A110-50 AC220V-50HZ=A220-50
RAC110V= R110 RAC220V=R220
- 09 NP= with self-locking emergency push rod
N = with manual push rod



- 10 H:DIN43650 Type Plug
L:DIN43650 Type Plug with Lamp
F: Deutsch. protection degree IP69K
A:AMP Junior-Timer,protection degree Ip66
D : With two wires
B:With terminal box
- 11 no code = without locating bore
With Orifice bore B08=φ0.8mm
With Orifice bore B10=φ1.0mm
With Orifice bore B12=φ1.2mm
- 12 No Code = NBR Seals
V=FKM Seals
- 13 block print:
H: Black color
L: Blue color



TH-WMME SERIES EMERGENCY HANDLE



PRODUCT FEATURES:

1. This valve can work even in the case of power failure.
2. There are two different circuit for your choosing according to the install requirement.
3. When the valve operated by electrical , the handle will stay in the original location, the handle will not effect any valve performance.
4. It can be used as the pilot valve of hydraulic control directional valve
5. The mounting surface is same as din24340 A type and WE series.

TH- * WM ME 6 * 1X E * * * * *

01 02 03 04 05 06 07 08 09 10 11 12

- 01 Main Ports=3
Main Ports=4
- 02 Solenoid Directional Valves with emergency handle
- 03 3 = Size6
4 = Size 10
- 04 Series 10-19
(10-19: no change of the installation and connection size)
- 05 connect with solenoid thread =C
- 06 DC12V=D12 DC24V=D24
RAC110V 220V=R110 R220
AC110V 220V= A110 A220
- 07 No Code = Handle is placed at vertical position
MO= Handle level set
- 08 remark: Spool Symbols
two position valve : take ref WE series two position valve
three position valve: take ref WE series three position valve
- 09 Technical Parameters:take Ref We Series
Performance Characteristics: Take Refwe Series
- 10 H:DIN43650 Type Plug
L:DIN43650 Type Plug with Lamp
F: Deutsch.Protection degree IP69K
A:AMP Junior-Timer,protection degree Ip66
D: with two lead wires
- 11 no code = without locating bore
B08=Orifice boreφ0.8mm
B10=Orifice boreφ1.0mm
B12=Orifice boreφ1.2mm
B15=Orifice boreφ1.5mm
B20=Orifice bore φ2.0mm
B25=Orifice bore φ2.5mm
B30=Orifice bore φ3.0mm
- 12 No Code = NBR Seals
V=FKM Seals

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TH-DG4V SERIES

TH- DG4V 3 2C M D24 L 40

01 02 03 04 05 06 07



- 01 Series code:
D= directional valves
G= soleplate / integrated package installation
4= solenoid control
V= rated voltage 35MPa
- 02 Terminal Size:
3=NG6
5=NG10
- 03 Slide Valve Spool
- 04 Electrical options and features
- 05 D24=DC24V D12=DC12V
A110 A220=AC11V/50HZ AC220V/50HZ
R220=RAC110V 220V
- 06 H:DIN43650 Type Plug
L:DIN43650 Type Plug with Lamp
F: Deutsch. protection degree IP69K
A:AMP Junior-Timer,protection degree Ip66
D : With two wires
B:With terminal box
- 07 Design Number



TH-DSG SERIES

TH- DS G 02 3C2 D24 L

01 02 03 04 05 06 07



- 01 solenoid directional Valves
- 02 subplate mounting
- 03 Size
02=NG6
03=NG10
- 04 Spool Symbol
- 05 D12=DC12V D24=DC24V
A110-50=AC110V-50HZ A220-50=AC220V-50HZ
R110=RAC110V R220=RAC220V
- 06 NP=with self-locking emergency push rod
N = with manual push rod
- 07 H=with DIN 43650 connector
L= DIN 43650 connector with lamp
B= terminal box type

VALVE CIRCUIT SYMBOL MATCH FORM

4WE	E	H	J	W	F	G	T
DSG	3C2	3C3	3C4	3C40	3C5	3C60	3C6
DG4V	2C	0C	6C	33C	1C	8C	-
B(L)*H	34E0	34EH	34EY	-	34EK	34EM	-
4WE	D/O	C/O	D/OF	C/OF	D	C	A
DSG	2N2	2N3	2D2	2D3	2B2	2B3	2B8
DG4V	-	-	2N	0N	2A	0A	22A
B(L)*H	-	-	-	-	24E1 1	-	23E0
4WE	LA	NA	PA	UA	-	EB	HB
DSG	2B12B	2B11B	2B25B	2B10B	-	2B2BL	2B3BL
DG4V	3B	-	11BL	7B	-	2BL	0BL
B(L)*H	-	-	-	24EJ	-	-	-
4WE	Y	X	B	-	UB	PB	-
DSG	2B2L	2B3L	2B8L	-	2B10BL	2B25BL	-
DG4V	2AL	0AL	22AL	23AL	31BL	11B	-
B(L)*H	-	-	-	-	-	-	-

M	L	U	P	N	V	-	R
3C9	3C12	3C10	3C25	3C11	-	-	-
7C	3C	31C	11C	-	-	-	-
34EP	34EN	34EJ	-	34EC	-	-	-
EA	HA	JA	WA	FA	GA	-	MA
2B2B	2B3B	2B4B	2B40B	2B5BL	2B60B	2B6B	2B9B
2B	0B	6B	33B	1BL	8BL	-	7B
24E0	24EH	24EY	-	24EK	-	-	24EP
JB	WB	FB	GB	-	MB	LB	NB
2B4BL	2B40BL	2B5B	2B60BL	2B6BL	2B9BL	2B12BL	2B11BL
6BL	33BL	1B	8B	-	7BL	3BL	-
-	-	-	-	-	-	-	-
DE	DH	-	-	-	-	K	Z
2B2A	2B3A	-	-	2B1 3	-	3C8	-
-	-	23A	-	-	-	-	-
24E1 5	24E1 2	-	-	24E1 3	-	-	-

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