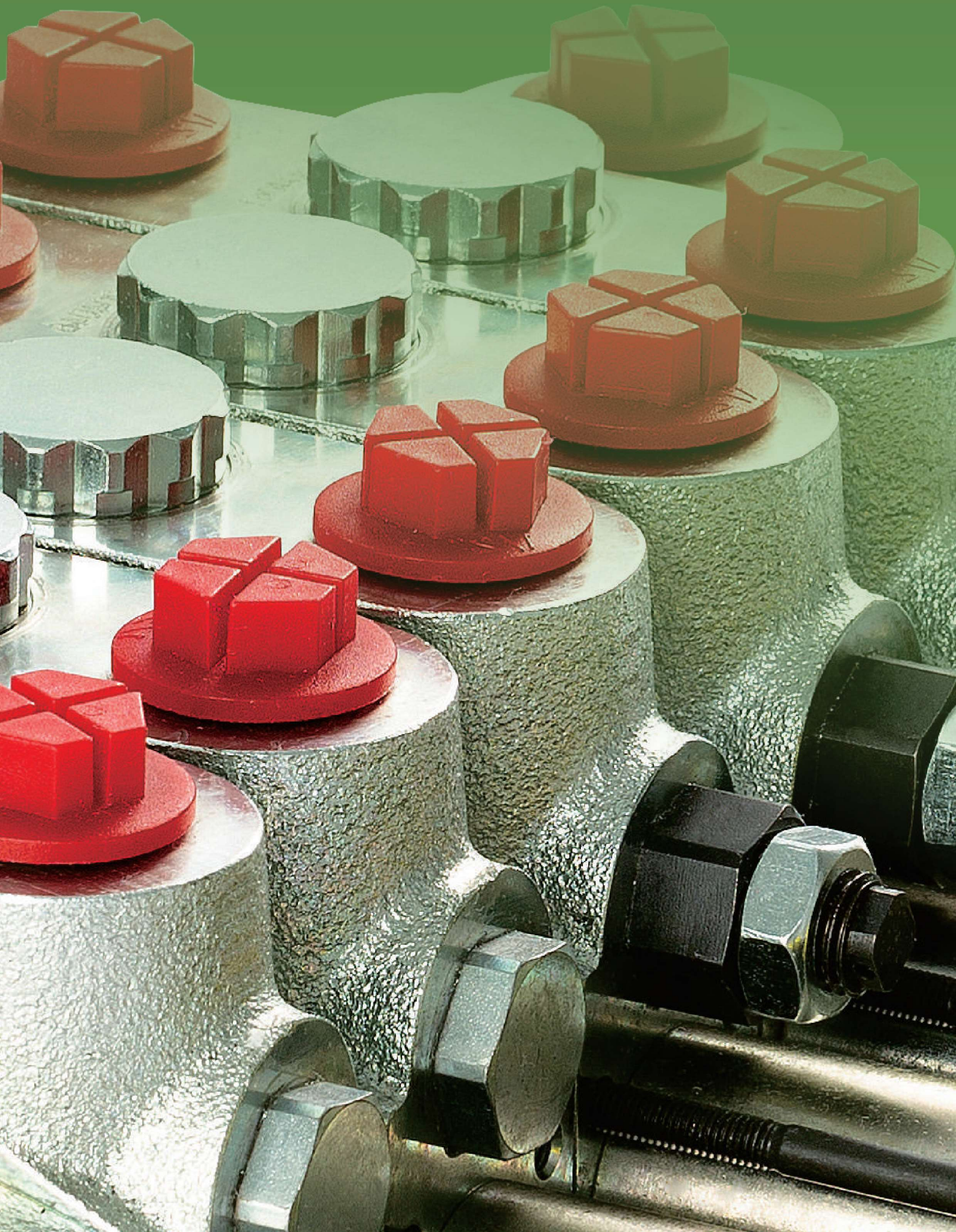




Contents

1 - 29	Sectional Directional Control Valves Flow Range 80–100 L/min Ordering Example — Sectional Valves
12	
30-42	Monoblock Directional Control Valves Flow 45 L/min Ordering Example — Sectional Valves
35	
43-51	Hydraulic Pilot Levers Cross-Axis Pilot Lever — Ordering Example
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52-57	Hydraulic Pilot Levers Single-Axis Pilot Lever — Ordering Example
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58-62	Pilot Pressure Curve Selection
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THT-D4 Sectional Directional Control

Valve

Rated flow 80 L/min; max. operating pressure 350 bar

Typical applications: excavators (up to 7 t), loader cranes, backhoe loaders and refuse compactors

See page 8.



THT-D6 Sectional Directional Control

Valve

Rated flow 100 L/min; max. operating pressure 350 bar

Typical applications: rear-mounted backhoe attachments, backhoe loaders, wheel loaders, hook-lifts and loader cranes

See page 10.



THT-M45 Monoblock Directional Control

Valve

Rated flow 45 L/min; max. operating pressure 350 bar

Compact and cost-effective, with extensive integrated functions and configurable options. The THT-M45 series offers maximum flexibility for a wide range of applications.

See page 33.



THT-RX Dual-Axis Cross Pilot Lever

Rated flow 12 L/min; max. operating pressure 100 bar

Dual-Axis Hydraulic Pilot Lever with 4 Work Ports.

Technical Data · Applications

Dimensions · Ordering example

Control Assembly and Boot

Connecting Rod · Body Configuration

See page 45.



THT-RY Dual-Axis Low-Force Cross Pilot Lever

Rated flow 12 L/min; max. operating pressure 100 bar

[Technical Data](#) · [Applications](#) · [Dimensions](#)

See page 50.



THT-RM Modular Single-Axis Pilot Lever

Rated flow 12 L/min; max. operating pressure 100 bar

[Technical Data](#) · [Applications](#)

[Dimensions](#) · [Ordering example](#)

[Control Assembly](#) · [Product Series](#)

[Microswitch data](#) · [Connecting rod](#)

[Ordering Example](#) · [Product Series](#) · [Body](#)

[Pilot Pressure Curve](#) · [Pilot Valve Series](#) · [Product Series](#)

See page 52.



THT Manual 3-Position Directional Control Valve

Rated flow 100 L/min; max. operating pressure 350 bar

[Technical Data](#)

[Dimensions](#)

[Hydraulic Schematic](#)

See page 68.



THT Manual 4-Position Directional Control Valve

Rated flow 80 L/min; max. operating pressure 350 bar

[Technical Data](#)

[Dimensions](#)

[Hydraulic Schematic](#) — See Page 69

General Specifications

Type	THT-D4	THT-D6	
Sections	1-12	1-12	
Parallel	•	•	
Series	•	•	
Series-parallel	•	•	
Parallel spool travel (mm)	6	7	
Series spool travel (mm)	6	5	
Float spool extra travel (mm)	5.5	6	
Section spacing (mm)	40	46	
Max. flow (L/min)	80	100	
Max. flow (GPM)	22	27	
Max. pressure (bar)	350	350	
Max. pressure (PSI)	5000	5000	

Type	THT-D4	THT-D6	
Direct-acting relief valve	•	•	
Pilot-operated relief valve	•	•	
Two-stage pilot-operated relief valve	•	•	
Externally piloted relief valve	•	•	
Solenoid unloading valve (12 Vdc)	•	•	
Solenoid unloading valve (24 Vdc)	•	•	
Main makeup valve	•	•	
Side-shift clamping valve	•		
Manual – with lever	•	•	
Manual – leverless	•	•	
Universal-joint	•	•	
Hydraulic pilot	•	•	
Direct solenoid (12–24 Vdc)	•	•	
Spring centered	•	•	
A/B port detent	•	•	
4th-position detent	•	•	
Bidirectional	•	•	
Hydraulic load limit	•	•	
Pneumatic on-off	•	•	
Pneumatic proportional	•	•	
Electrical load limit	•	•	
Electro-hydraulic on-off (12–24 Vdc)	•	•	
Electro-hydraulic proportional (12–24 Vdc)	•	•	
Electrical (12–24 Vdc)	•	•	
Overload valve	•	•	
Makeup valve	•	•	
Direct-acting overload/makeup valve		•	
Pilot-operated overload/makeup valve			

Standard Operating Conditions — Sectional Valves

Temperature range	-20 °C/+80°C
Viscosity range	10 - 300 cSt
Cleanliness class	9(NAS 1638)-20/18/15(ISO 4406:1999)
Filtration rating	$\beta_{10}>75$ (ISO 16889:2008)

All data and performance curves are measured with mineral oil (32 cSt) at 50 °C.

Operating Fluids

Fluid type (per ISO6743/4)	Temperature (°C)		Seal
	Min	Max	
Mineral oil HL, HM (or HLP per DIN 51524)	-25	+80	NBR
High-water-based hydraulic fluid	+5	+55	NBR
Water-in-oil emulsion HFB	+5	+55	NBR
Water-glycol HFC	-10	+60	NBR

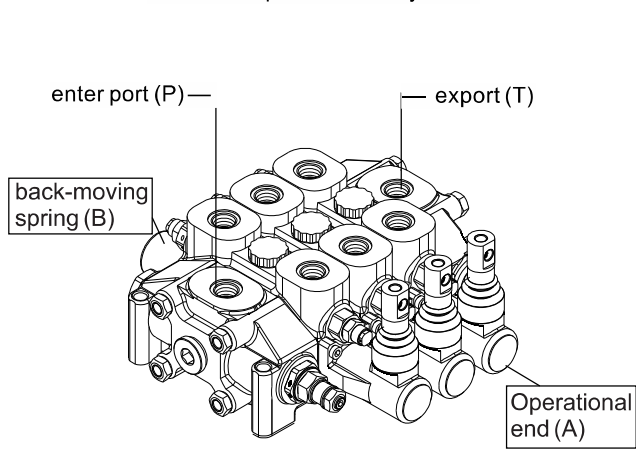
For special applications and other fluids, contact our sales department.

Classification

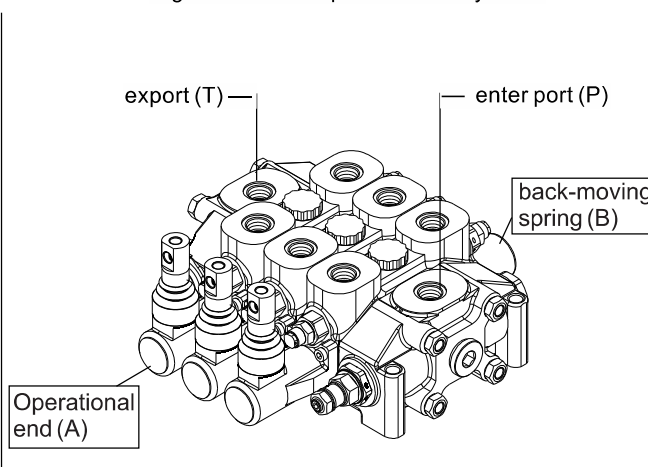
Sectional valve bodies are symmetric: rotating the spool 180° reverses the control side.

Sectional valve bodies are symmetric: rotating the spool 180° reverses the control side. The inlet can be specified as right-hand (P1) or left-hand (P2).

Left inlet oil plate multi-way valve

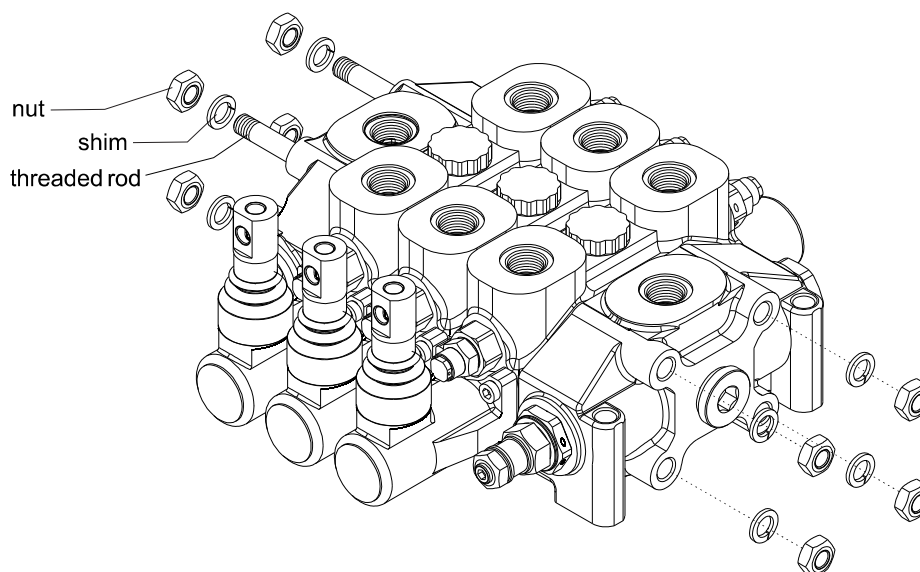


Right side inlet oil plate multi-way valve



Tie Rods for Sectional Valves

Sections are clamped by tie rods. Tie-rod length depends on the number of sections. Each kit includes one tie rod, two nuts and two washers.



Type	THT-D4	THT-D6
Number of tie-rod kits (for sectional directional control valve)	4	4
Tightening torque	THT-D4	THT-D6
Torque value (N·m)	35	50

Special Body Classification — Sectional Valves

The following spools require a specially machined body (SPC). SPC bodies are asymmetric and cannot be reversed.

Type / spool	THT-D4	THT-D6
S012 (4-position double-acting, 4th float)	SPC*	SPC*
S013 (3-position double-acting, regenerative)	SPC	SPC
S016 (3-position double-acting, A-B series to tank)		SPC
S019 (3-position double-acting, differential A-B to tank)		SPC

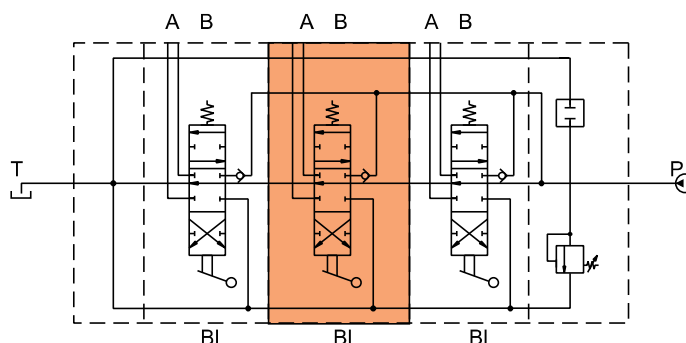
* = Hydraulic Pilot Control Only

S016 Spool Requires a Special CI-Series Body (see P. 22)

Hydraulic Schematics — Sectional Valves

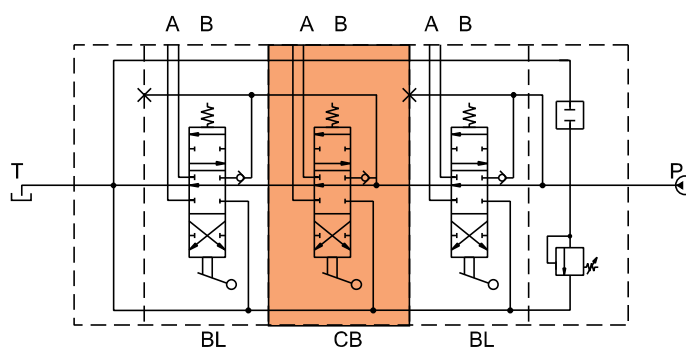
Parallel Circuit

When a spool is shifted, pressure oil flows to A or B through the internal passage; with multiple spools shifted, oil feeds through the pressure gallery to all active sections, flow goes first to the lowest-load circuit, metering at each spool allows simultaneous flow to several sections.



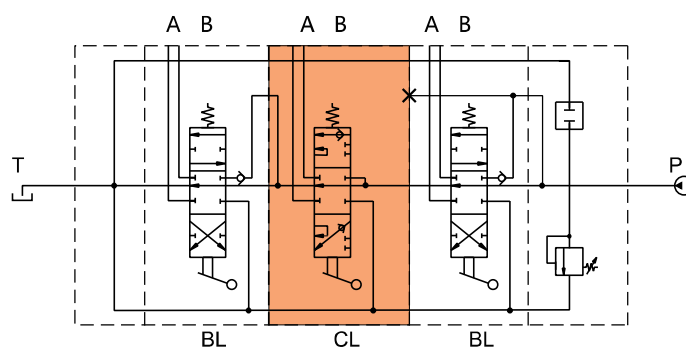
Series-Parallel Circuit

When a spool is shifted, pressure oil flows to A or B. In a series-parallel circuit, only the first section operates when multiple sections are shifted simultaneously – the first section has priority.



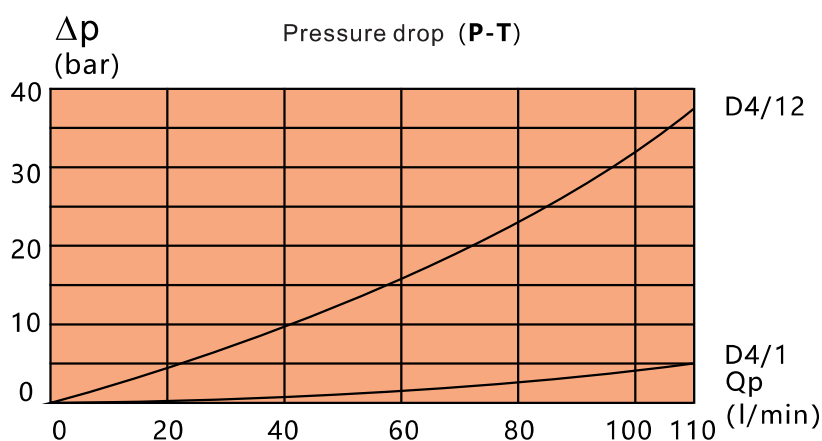
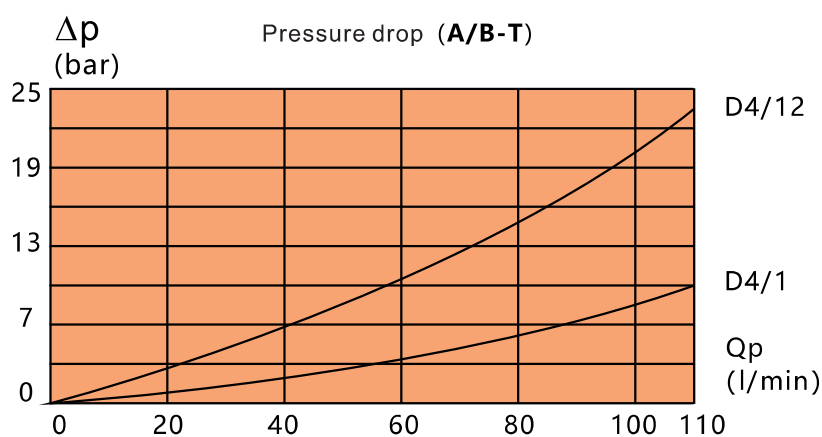
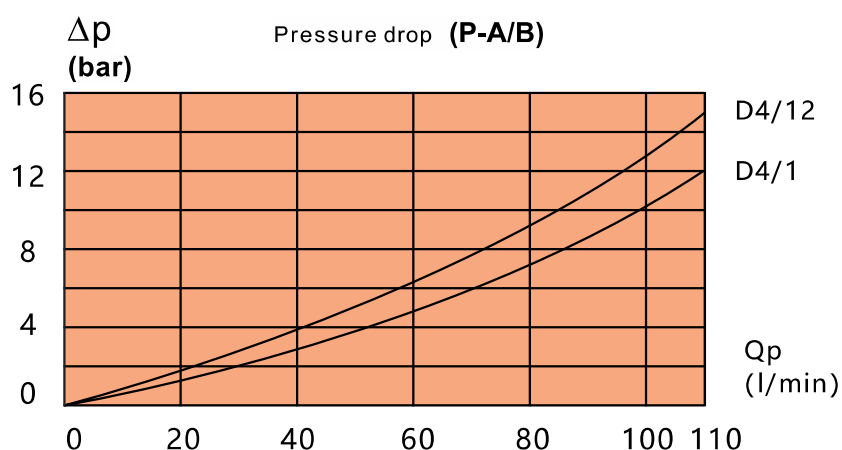
Series Circuit

When a spool is shifted, pressure oil flows to A or B through the internal passage; in neutral, downstream sections are blocked. Sections cascade in series: return flow from one section feeds the next. System pressure equals the sum of pressure drops across all sections.



Performance Curves

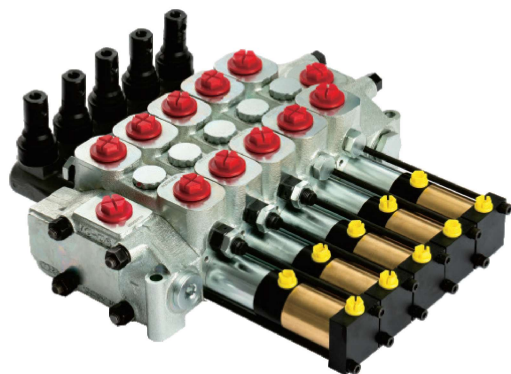
Curves measured on a standard section with S001A spool.



Features

Available control options: manual, direct electric, hydraulic pilot, pneumatic, electro-hydraulic and electric. Work sections accept optional auxiliary valves and a full range of interchangeable spools.

THT-D6 Sectional Directional Control Valve



Technical Data

Sections	1-12
Rated flow	100L/min
max. operating pressure	350 bar
Spool travel	7+7mm
Valve section spacing	46mm
Circuit type	Parallel, series, series-parallel

Applications

Backhoe loaders, wheel loaders, rear-mounted backhoe attachments
Compactors, hook-lifts, drilling rigs, coal-mining machinery, cranes

The THT-D6 series accepts various intermediate sections:

Intermediate Inlet Section (type BE)

Intermediate Inlet Section with Relief Valve (type BV)

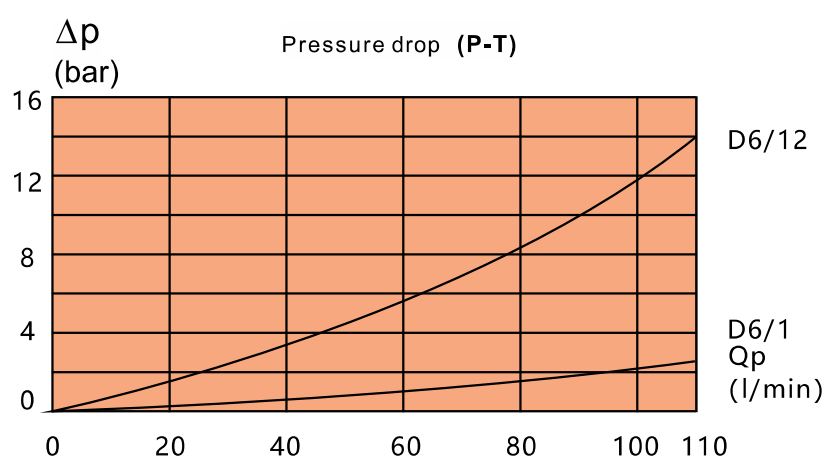
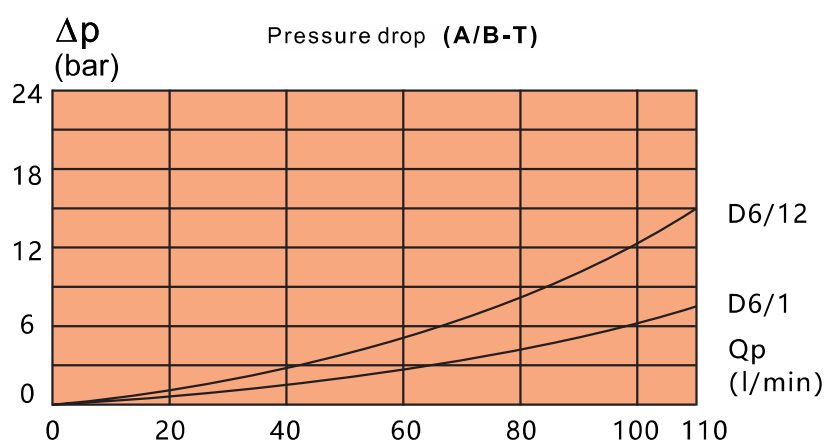
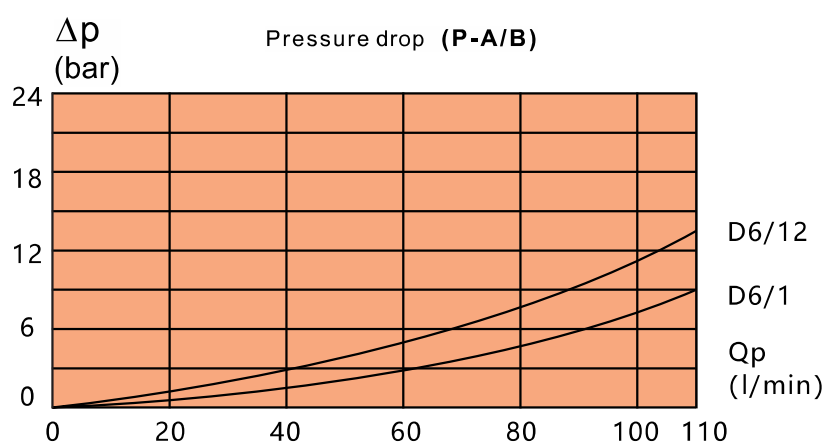
Intermediate Return Section — BF (single return port) or BG (with HPCO power-beyond port)

Intermediate Section with Diverter Valve

Sections	/1	/2	/3	/4	/5	/6	/7	/8	/9	/10	/11	/12
X (mm)	140	186	232	278	324	370	416	462	508	554	600	646
Y (mm)	156	202	248	294	340	386	432	478	524	570	616	662
Weight (kg)	11.6	16.1	20.5	25	29.4	33.9	38.3	42.8	47.2	51.7	56.1	60.6
Port	Inlet port (P)			Work port (A-B)			Return port (T)			Power-beyond port (HPCO)		
BSP thread (ISO 1179-1)	G1/2-G3/4			G1/2-G3/4			G3/4-G1			G3/4-G1		
UN-UNF thread (ISO 11926-1)	7/8"-14UNF			7/8"-14UNF			1"1/16-12UNF			1"1/16-12UNF		

Performance Curves

Curves measured on a standard section with S001A spool.



Features

Available control options: manual, hydraulic pilot, pneumatic, electro-hydraulic and electric.

Work sections accept optional auxiliary valves and a full range of interchangeable spools.

Ordering Example — Sectional Valve

THT-D4/1: P1 001 150 A G08 — S001A C001 F001A BL G08 01 PA 100 01 PB 120 — T1 A G08

Product type: —

D4 — Product type

/1 — Number of sections

1) Inlet section configuration: —

1.1 P1 001 — Inlet position and auxiliary valve type

(150) — Pressure setting

A G08 — Inlet position and port size

2) Work section configuration: —

2.1 S001A — Spool type

2.2 C001 — Spool control type

2.3 F001A — Spool return type

2.4 BL G08 — Circuit type and port size

2.5 01 PA 100 — Auxiliary valve type (port A)

2.6 01 PB 120 — Auxiliary valve type (port B)

3) Return section configuration: —

3.1 T1 — Return port type

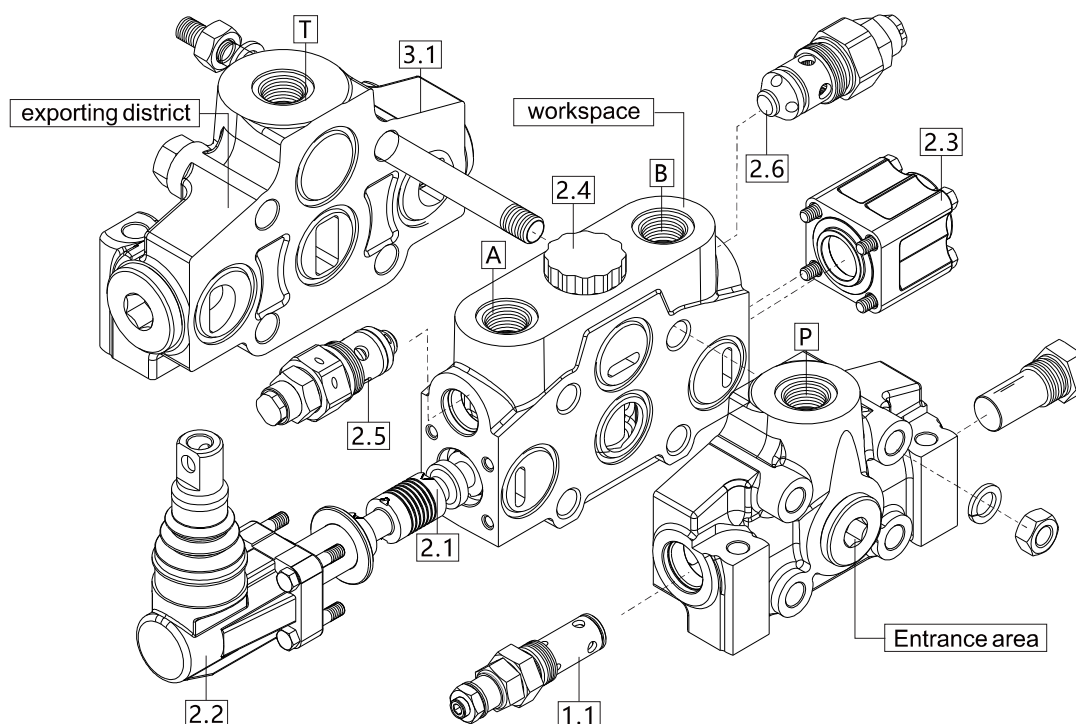
A G08 — Return port type, position and size

Features

Tie-Rod Length Varies by Series and Number of Work Sections.

Each Valve Is Secured by Four Tie-Rod Kits (tie rod, Nut, Washer per Kit).

From the second link, each working piece must repeat the selection.



Inlet Section Configuration

This Code Defines the Inlet Section: Type, Port Thread Size/type and Auxiliary Valves.

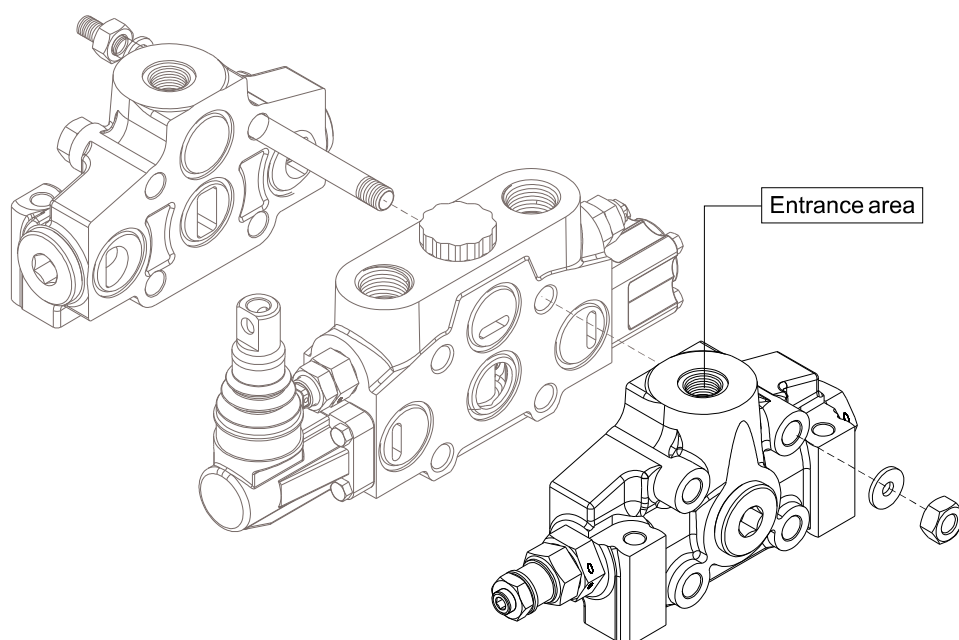
P-Port Thread Depends on the Valve Series (see P. 70).

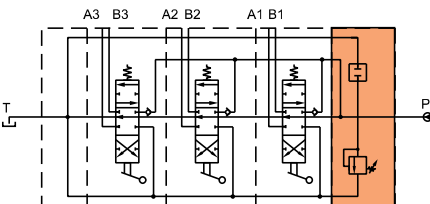
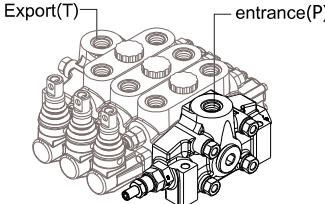
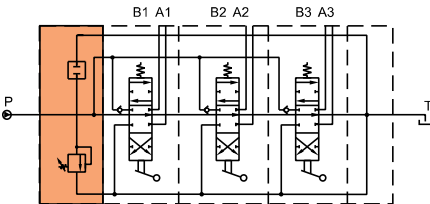
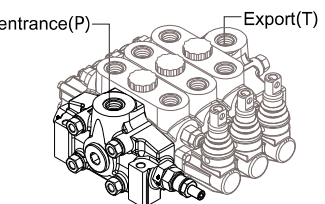
Right- or Left-Hand Inlet Is Available on All Sectional Valves (see P. 4).

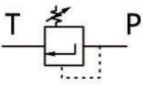
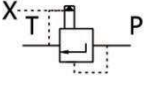
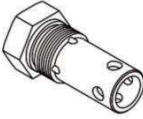
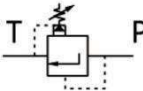
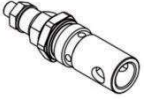
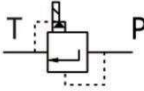
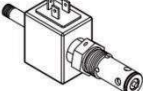
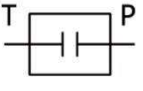
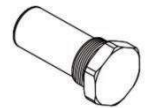
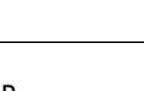
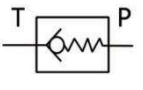
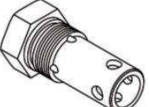
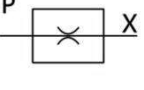
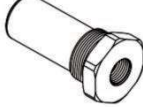
Ordering Example

P1 001 (150)A G08

1. **P1** — Inlet Position
2. **001** — Inlet Auxiliary-Valve Configuration
(150) – Pressure Setting (required when a Relief Valve Is Selected)
3. **A G08** — Inlet Position and Thread Size.



Inlet section type			
Code	Description	Schematic	Configuration
P1	Right-hand inlet sectional valve		
P2	Left-hand inlet sectional valve		

Auxiliary valve type							
Type	Schematic	Outline	Description	Type	Schematic	Outline	Description
1			Direct-acting relief valve	6			Externally piloted relief valve
2			Pilot-operated relief valve	7			Solenoid unloading valve 12Vdc
3			Relief valve plug	8			Solenoid unloading valve 24Vdc
4			Anti-cavitation check valve	11			TesT-Port plug

Note:

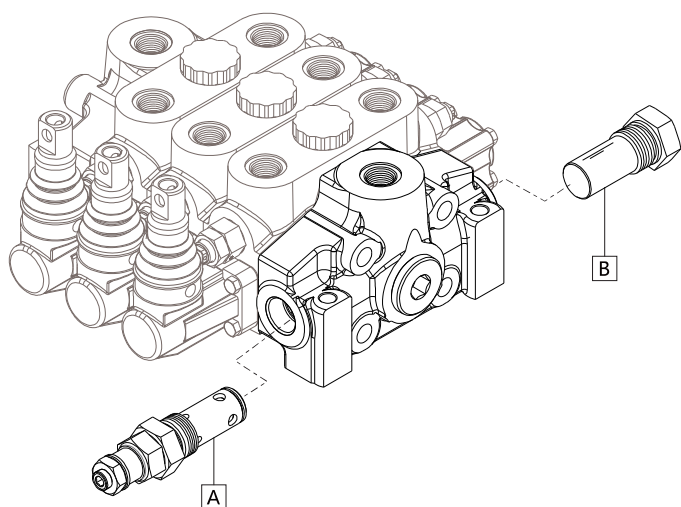
Auxiliary Valves Mount on Side A (Control End) or Side B (Spring End), Depending on the Series.

Inlet Auxiliary-Valve Combination Example: 009 = 2A – 3B

009 — Inlet auxiliary-valve combination type

2A — Main relief valve mounted on side A

3B — Plug mounted on side B



The Selection Code Indicates:

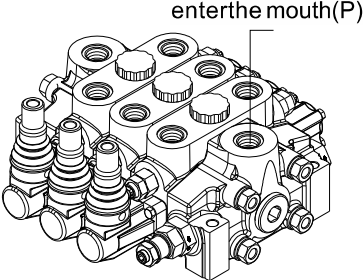
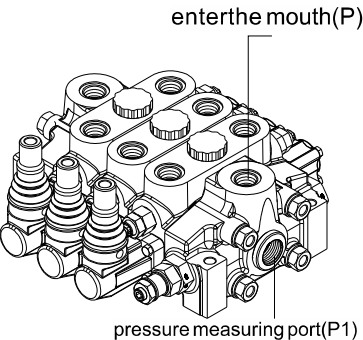
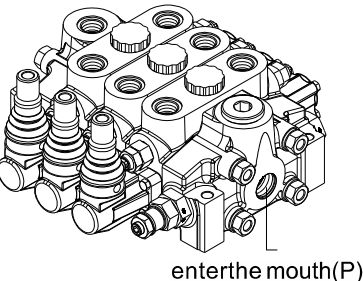
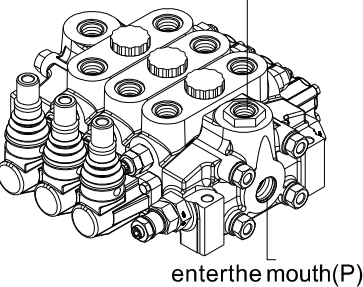
Digit = Auxiliary-Valve Type; Letter A = Side A, Letter B = Side B.

Side A = Control End; Side B = Spring End

Note: Always Specify the Pressure Setting When a Main Pressure Relief Valve Is Selected.

Inlet auxiliary-valve combination type		THT-D4		THT-D6	
		P1	P2	P1	P2
1A-3B	001	●	●		
1A-4B	002	●	●		
1A-6B	003	●	●		
1A-7B	004		●		
1A-8B	005	●	●		
1A-11B	008	●	●		
2A-3B	009	●	●	●	●
2A-4B	010	●	●	●	●
2A-6B	011	●	●	●	●
2A-7B	012	●	●	●	●
2A-8B	013	●	●	●	●
2A-11B	016	●	●	●	●
3A-1B	017	●	●		
3A-2B	018	●	●	●	●
3A-3B	019	●	●	●	●
3A-4B	020	●	●	●	●
3A-6B	022	●	●	●	●
3A-7B	023	●	●	●	●
3A-8B	024	●	●	●	●
3A-11B	027	●	●	●	●
4A-1B	028	●	●		
4A-2B	029	●	●	●	●
4A-3B	030	●	●	●	●
4A-6B	032	●	●	●	●

Inlet auxiliary valve Combination type		THT-D4		THT-D6	
		P1	P2	P1	P2
4A-7B	033	●	●	●	●
4A-8B	034	●	●	●	●
4A-11B	037	●	●	●	●
6A-1B	046	●	●		
6A-2B	047	●	●	●	●
6A-3B	048	●	●	●	●
6A-4B	049	●	●	●	●
6A-11B	052	●	●	●	●
7A-1B	053	●	●		
7A-2B	054	●	●	●	●
7A-3B	055	●	●	●	●
7A-4B	056	●	●	●	●
7A-11B	059	●	●	●	●
8A-1B	060	●	●		
8A-2B	061	●	●	●	●
8A-3B	062	●	●	●	●
8A-4B	063	●	●	●	●
8A-11B	066	●	●	●	●
11A-1B	084	●	●		
11A-2B	085	●	●	●	●
11A-3B	086	●	●	●	●
11A-4B	087	●	●	●	●
11A-6B	089	●	●	●	●
11A-7B	090	●	●	●	●
11A-8B	091	●	●	●	●

Inlet position and thread size			Sectional directional control valve	
Code		Configuration	THT-D4	THT-D6
A	Top inlet		G08	G08
			G10	G10
			U03	U04
			U04	
			M01	
			M02	
Code		Configuration	THT-D4	THT-D6
B	Top inlet P1 with G1/4 test port		G08	G08
			G10	G10
			U03	U04
			U04	
			M01	
			M02	
Code		Configuration	THT-D4	THT-D6
C	Side inlet		G08	G08
			G10	G10
			U03	U04
			U04	
			M01	
			M02	
Code		Configuration	THT-D4	THT-D6
D	Side P1 with 1/4" BSP test port		G08	G08
			G10	G10
			U03	U04
			U04	
			M01	
			M02	

**Note: See Attached Sheet for Port Dimensions.
For Special Applications, Contact Our Sales Department.**

Work Section Configuration

This Code Defines the Complete Work Section: Spool, Control, Return, Circuit Type and Auxiliary Valves.

A and B Auxiliary Valves Are Selected Separately.

When Ordering Work Sections Only, Specify Whether the Matching Inlet Section Is Right- or Left-Hand Inlet:

P1 = Right Inlet

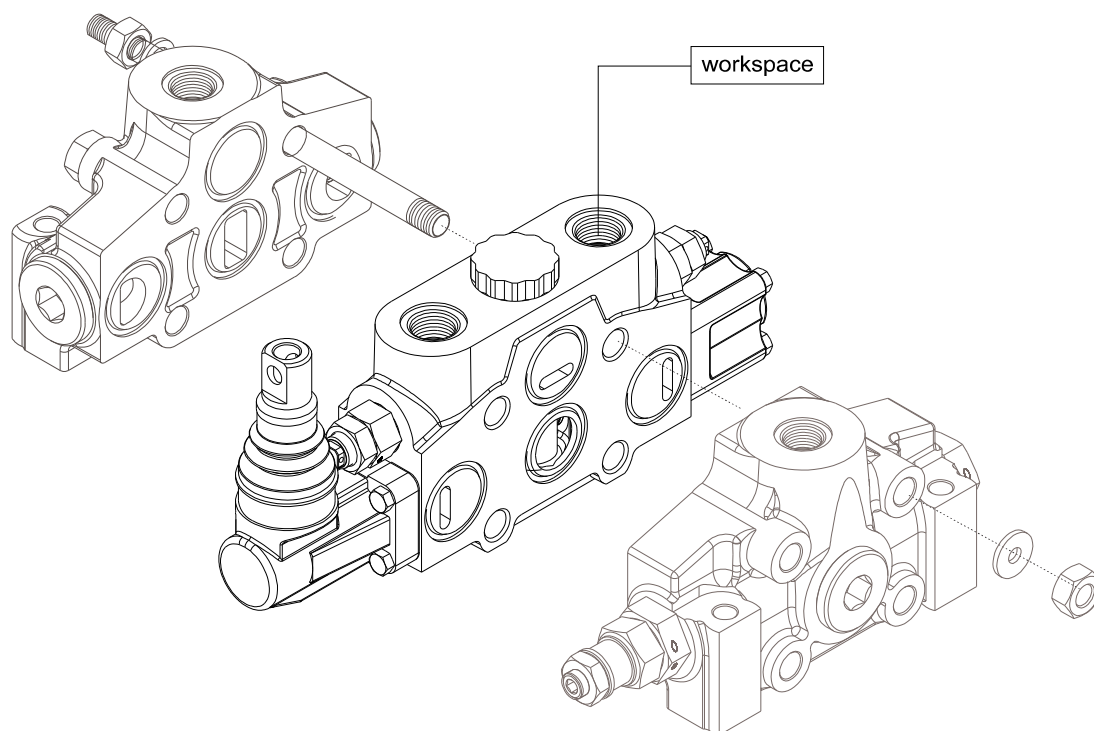
P2 = Left Inlet

Specify the Pressure Setting for Port Overload and Overload/makeup Valves (e.g. 120 bar).

Ordering Example

S001A CO01 F001A BL G08 01 Pa(100) 01 Pb(120)

1. S001A spool type _____
2. C001 — Spool control type _____
3. F001A — Spool return type _____
4. BL — Circuit type _____
G08 — Thread type _____
5. 01 PA — Auxiliary valve (port A, Control End) _____
(100) Pressure Setting _____
6. 01 PB — Auxiliary valve (port B, Spring End) _____
(120) Pressure Setting _____



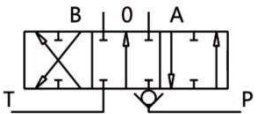
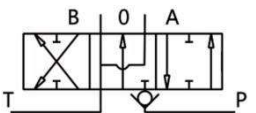
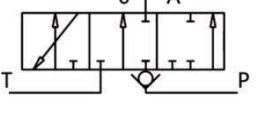
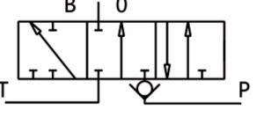
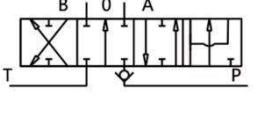
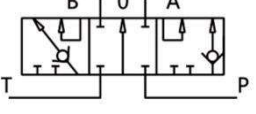
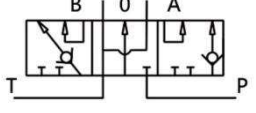
Spool Classification

A = Standard Spool

B = Metered Spool

E = Solenoid-Actuated Spool (direct Solenoid Control)

If a Metered Spool Is Required, Contact Our Sales Department.

Spool type			Sectional directional control valve		
Code		Schematic	Description	THT-D4	THT-D6
S001A	Standard		3-position double-acting spool	•	•
S001B	Metered			•	•
S001E	Direct solenoid			•	
S002A	Standard		3-position double-acting spool A/B to T in neutral	•	•
S002B	Metered			•	•
S002E	Direct solenoid			•	
S005A	Standard		3-position, A single-acting	•	•
S005B	Metered			•	•
S005E	Direct solenoid			•	
S006A	Standard		3-position, B single-acting	•	•
S006B	Metered			•	•
S006E	Direct solenoid			•	
S012A	Standard		4-position double-acting, 4th float	•	•
S012B	Metered				
S015A	Standard		3-position double-acting, series	•	•
S015B	Metered				
S016A	Standard		3-position double-acting series, A/B to tank	•	•
S016B	Metered				

The Spools Shown Above Are Standard; for Special Configurations, Contact Our Sales Department.

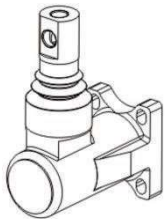
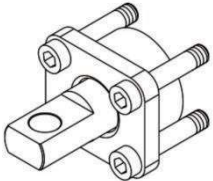
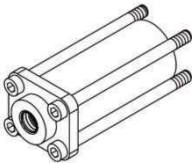
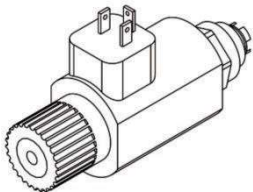
Note:

Float Spools (S012) Require a Special Detent Kit (f005).

Regenerative Spools (S013) Require a Special Body and Return-Spring Kit.

All Single-Acting Sections Include Plugs for Unused Ports.

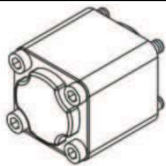
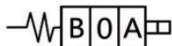
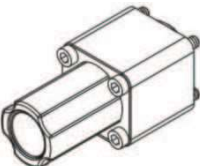
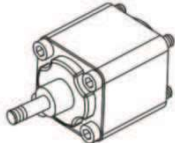
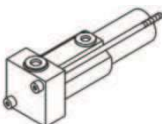
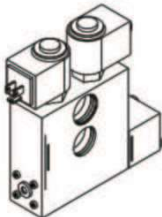
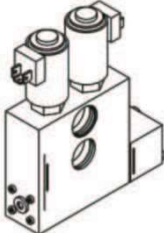
Solenoid Spools (type E) Require a Special Body, Control and Return Arrangement.

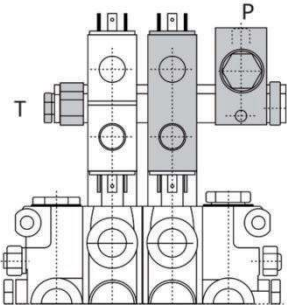
Spool control type			Sectional directional control valve			
Code	Configuration	Description	THT-D4	THT-D6		
C001		Lever with boot	•	•		
C002		Lever with boot Rotated 180°	•	•		
Code	Configuration	Description	THT-D4	THT-D6		
C004		Leverless control	•	•		
Code	Configuration	Description	THT-D4	THT-D6		
C005 – omit return-end code		Hydraulic pilot	•	•		
Code	Configuration	Description	THT-D4	THT-D6		
C036 – omit return-end code		Direct electric control 12Vdc (45W-3A)	•			
C037 – omit return-end code		Direct electric control 24Vdc (45W-1.5A)	•			

The Control Methods Shown Above Are Standard; for Special Configurations, Contact Our Sales Department.

Direct-Acting Solenoid Assembly Specifications

Type	THT-D4	
Voltage	12 VDC	24VDC
Current	3.75A	1.88A
Power	45W	
Voltage tolerance	Voltage±10%	
Max. ambient temp.	+40°C	
Max. fluid temp.	+80°C	
Duty cycle	S1(100%)	
Protection	IP65	
Insulation	H	

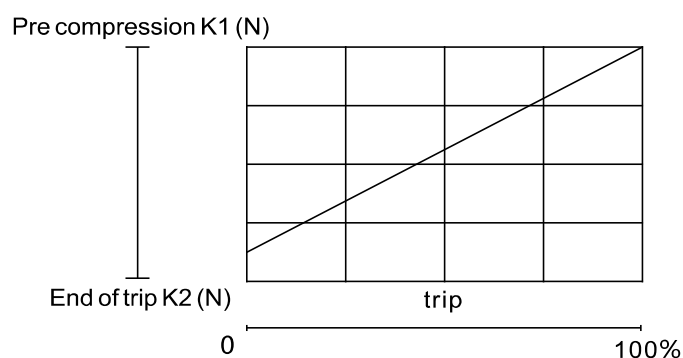
Connector			DIN 43650		
Spool travel			2.8+2.8mm		
Spool return type			Sectional directional control valve		
Code	Configuration	Description	THT-D4	THT-D6	
F001A F001B F001C		Spring centered	•	•	
			•	•	
			•	•	
F002A		A/B port detent	•	•	
F003A		A port detent A	•	•	
F004A		B port detent	•	•	
F005A For S012spool		4th-position detent	•	•	
F013A F013B F013C		Bidirectional	•	•	
			•	•	
			•	•	
F020A		Pneumatic on-off	•	•	
F022A		Pneumatic proportional	•	•	
F1600		Electro-hydraulic on-off, 12 Vdc	•	•	
F1610		Electro-hydraulic on-off, 24 Vdc	•	•	
F2600		Electro-hydraulic proportional 12Vdc 	•	•	
F2610		Electro-hydraulic proportional 24Vdc 	•	•	

Spool return type			Sectional directional control valve	
Code	Configuration	Description	THT-D4	THT-D6
F1520	P-T=G1/4 	Electro-hydraulic on-off (with reducer), 12 Vdc	•	•
F1530		Electro-hydraulic on-off (with reducer), 24 Vdc	•	•
F2520		Electro-hydraulic proportional (with reducer), 12 Vdc	•	•
F2530		Electro-hydraulic proportional (with reducer), 24 Vdc	•	•

The Return Types Shown Above Are Standard; for Special Configurations, Contact Our Sales Department.

Return Spring Rates

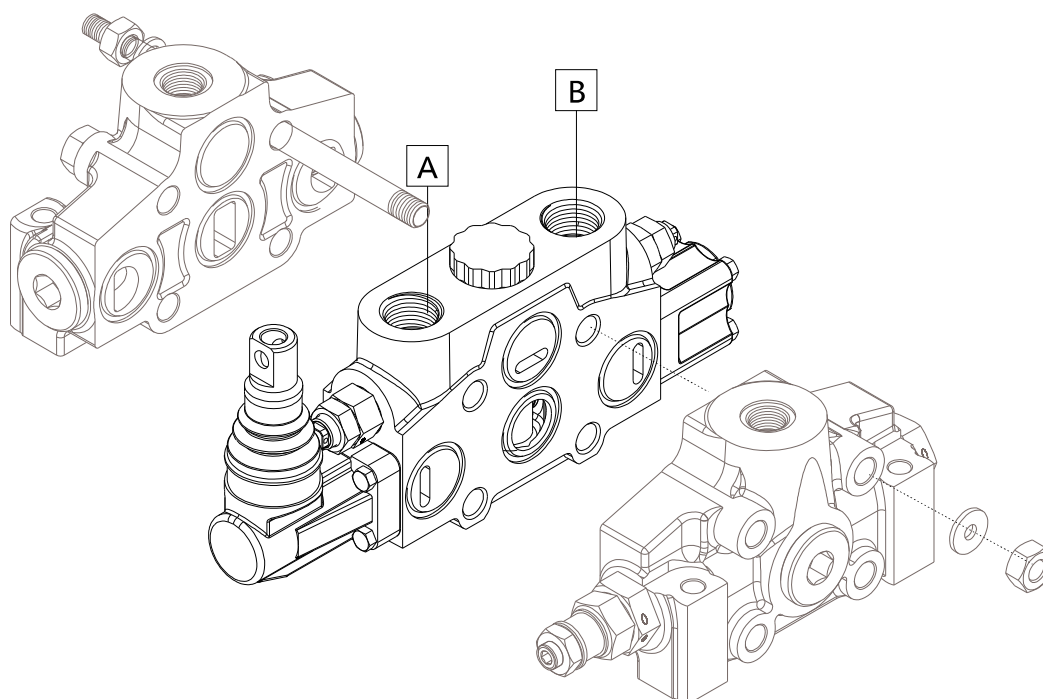
Three Return-Spring Rates Available; Codes Listed Below.

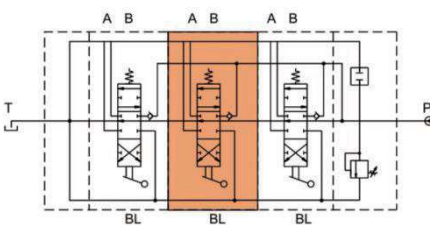
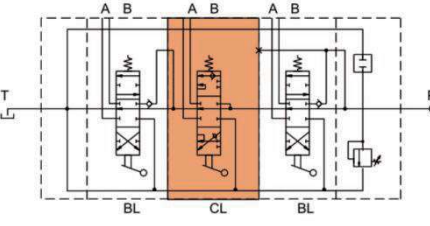
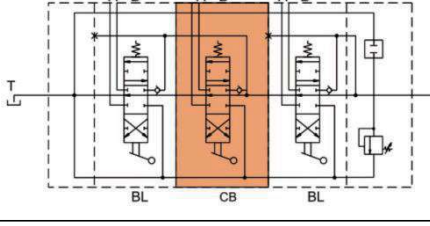


Spring type			Sectional directional control valve	
Code		Value	THT-D4	THT-D6
A	Standard	K1(N)	117.7	137.3
		K2(N)	145.2	176.6
B	Soft	K1(N)	101	109.8
		K2(N)	117.7	141.2
C	Heavy	K1(N)	172.6	168.7
		K2(N)	246.2	259

Work Section Selection

A and B Port Sizes Depend on Section Size; See P. 70 for Port Selection.



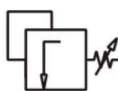
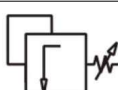
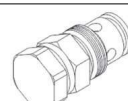
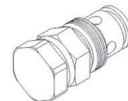
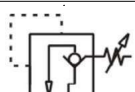
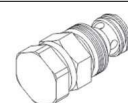
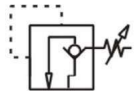
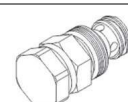
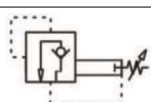
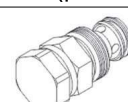
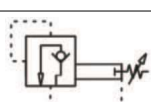
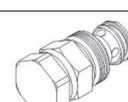
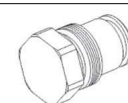
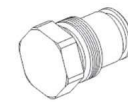
Circuit type and thread type		Sectional directional control valve	
Code	Configuration	THT-D4	THT-D6
BL		G08	G08
		U03	G10
		U04	U04
		M01	
	Parallel circuitwork section		
Code	Configuration	THT-D4	THT-D6
CL Bottom spool only: S016		G08	G08
		U03	G10
		U04	U04
		M01	
	Series circuitwork section		
Code	Configuration	THT-D4	THT-D6
CB			
		G08	G08
		U03	G10
		U04	U04
		M01	
	Series-parallel circuitwork section		

Auxiliary Valve Classification

Auxiliary Valves on A and B Ports Are Selected Separately: PA = Port A, PB = Port B.

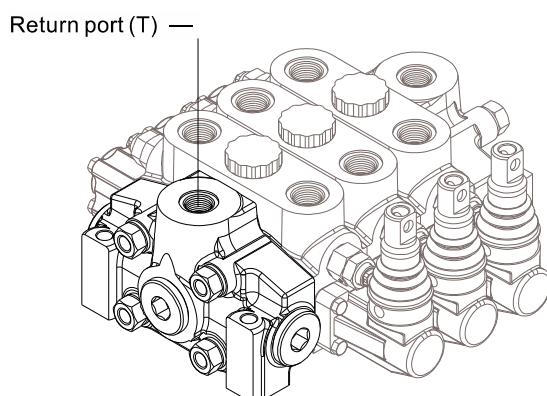
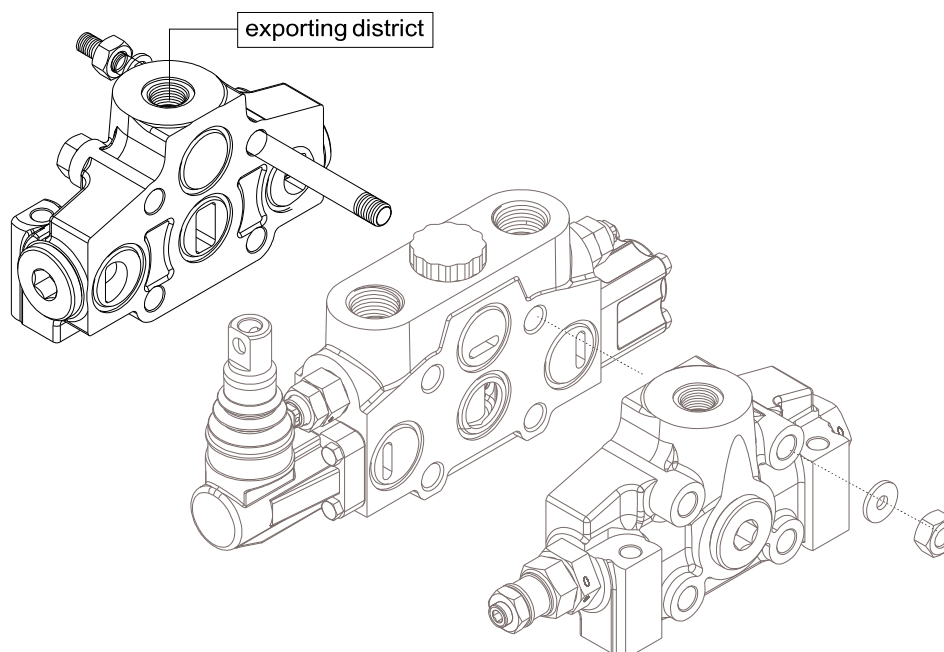
Specify the Pressure Setting for Direct-Acting Overload, Overload/makeup and Pilot-Operated Overload/makeup Valves.

Example: 01PA (120) = Full Flow Setting / 01PA (120-A) = Reduced Flow Setting

Auxiliary valve type			Sectional directional control valve			
Code	Schematic	Configuration	THT-D4	THT-D6		
01 PA			•	•		
	Overload valve (port A)					
01 PB			•	•		
	Overload valve (port B)					
02 PA			•	•		
	Makeup valve (port A)					
02 PB			•	•		
	Makeup valve (port B)					
03 PA				•		
	Overload/makeup valve (port A)					
03 PB				•		
	Overload/makeup valve (port B)					
04 PA				•		
	Pilot-operated overload/makeup valve (port A)					
04 PB				•		
	Pilot-operated overload/makeup valve (port B)					
05 PA			•	•		
	Auxiliary-valve plug (port A)					
05 PB			•	•		
	Auxiliary-valve plug (port B)					

Return Section Configuration

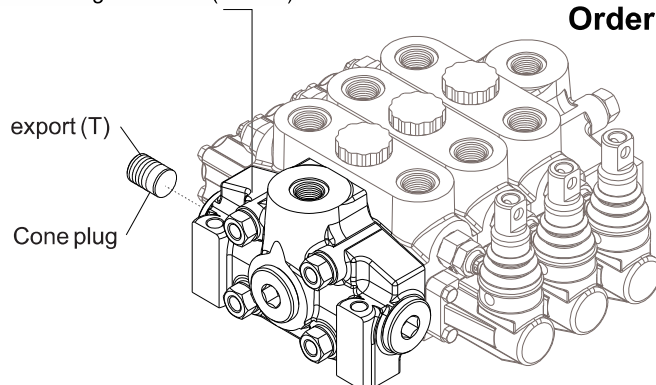
Return-Section Code Defines Port Position, Thread Size, and Single-t or HPCO (power-Beyond) Output. Return Section Can Be Single Return or HPCO. HPCO Feeds Downstream Valve Banks. T-Port Thread Options Vary by Series (see P. 70).



Ordering Example — Single Return Port T1 A G08

1. T1 — Return Section Type
2. A G08 — Return Port Position and Thread Size

Overbridge Oil Pass (HPCO)



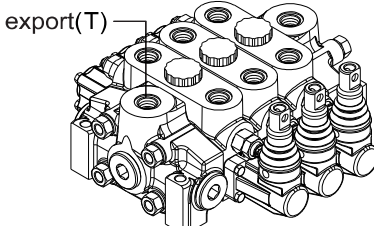
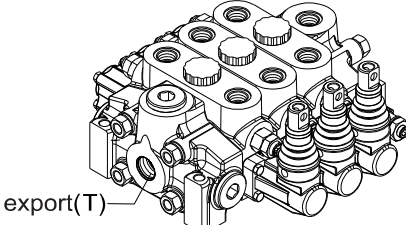
Ordering Example – with HPCO Power-Beyond T3 A G08

1. T3 — Return Section Type
2. A G08 — Return Port Position and Thread Size

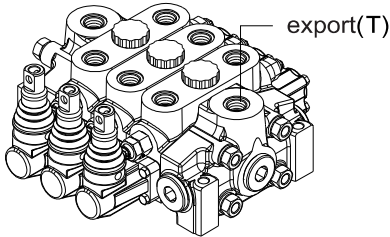
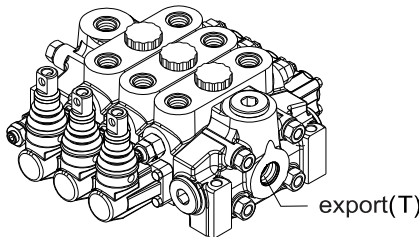
Return sectionclassification - single return port			
Code	Description	Schematic	Configuration
T1	Single-return section (right-hand inlet)		
T2	Single-return section (left-hand inlet)		

Return section – with HPCO power-beyond			
Code	Description	Schematic	Configuration
T3	Return section with HPCO power-beyond (right-hand inlet)		
T4	Return section with HPCO power-beyond (left-hand inlet)		

T1 Return Section — Single Return Port Position and Thread Selection

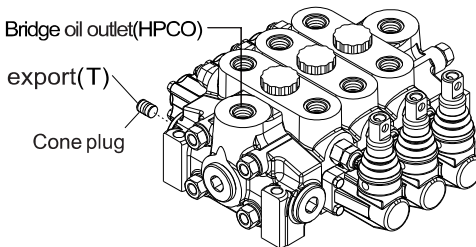
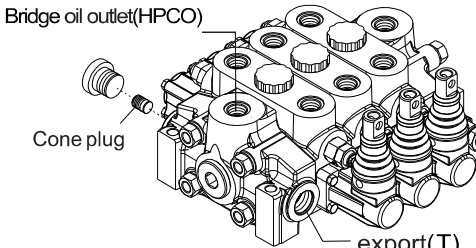
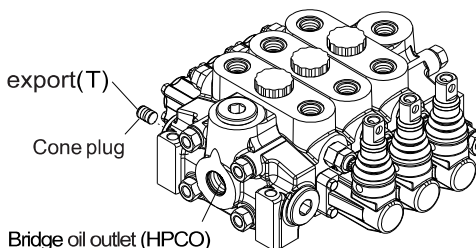
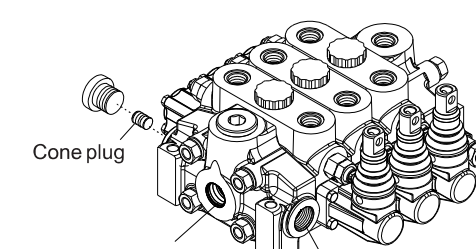
Return port position and thread			Sectional directional control valve	
Code		Configuration	THT-D4	THT-D6
A	Top return (T)		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
C	Side return (T)		G08	G10
			U03	G16
			U04	U05
			M02	

T2 Return Section — Single Return Port Position and Thread Selection

Return port position and thread			Sectional directional control valve	
Code		Configuration	THT-D4	THT-D6
A	Top return (T)		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
C	Side return (T)		G08	G10
			U03	G16
			U04	U05
			M02	

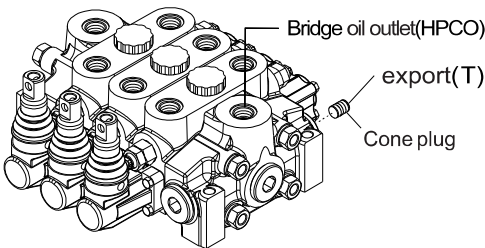
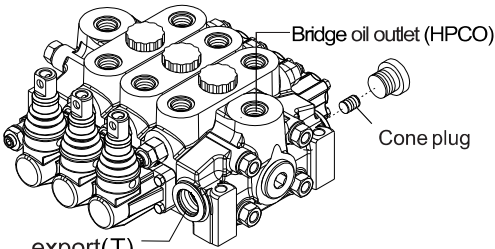
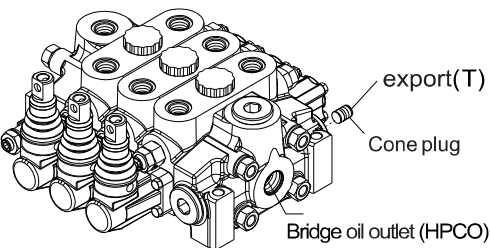
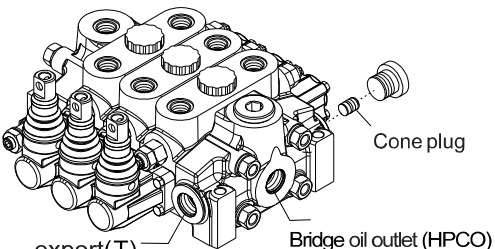
T3 Return Section — Return Port and HPCO Position and Thread Selection

Table Applies to HPCO Port Only; T-Port Dimensions Follow T1.

Return port position and thread			Sectional directional control valve	
Code		Configuration	THT-D4	THT-D6
M	HPCO on top, return (T) on side B		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
N	HPCO on top, return (T) on side A		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
P	HPCO on side, return (T) on side B		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
Q	HPCO on side, return (T) on side A		G08	G10
			U03	G16
			U04	U05
			M02	

T4 Return Section — Return Port and HPCO Position and Thread Selection

Table Applies to HPCO Port Only; T-Port Dimensions Follow T1.

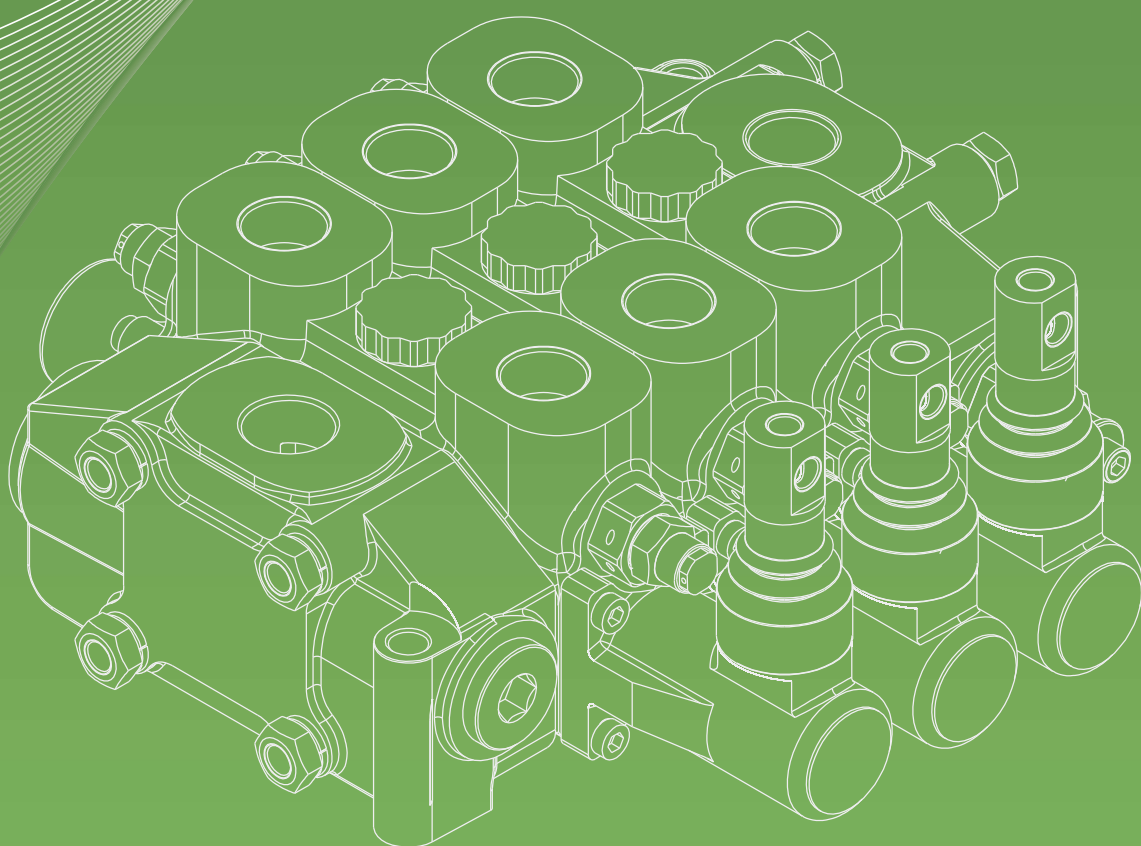
Return port position and thread			Sectional directional control valve	
Code		Configuration	THT-D4	THT-D6
M	HPCO on top, return (T) on side B		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
N	HPCO on top, return (T) on side A		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
P	HPCO on side, return (T) on side B		G08	G10
			U03	G16
			U04	U05
			M02	
Code		Configuration	THT-D4	THT-D6
Q	HPCO on side, return (T) on side A		G08	G10
			U03	G16
			U04	U05
			M02	

HPCO Power-Beyond Port

A Tapered Hex-Socket Plug Converts Any Single-Return Section to an HPCO (power-Beyond) Section.

Tapered hex-socket plug selection			
Type	Code	Description	Quantity
THT-D4	601099034	G1/4 × 13 plug	1
THT-D6	601099034	G1/4 × 13 plug	1

Type	TJ return section converts single return to HPCO (power-beyond)	TK return section converts single return to HPCO (power-beyond)
THT-D4		



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