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climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Hydraulic Cartridge Valves

for European Distributors and End Users

The Select Range Catalogue



ENGINEERING YOUR SUCCESS.



WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

Please contact your Parker representation for a detailed "Offer of Sale".



The Select Range

The Select Range is a selection of the most popular and versatile valves from the complete range of Parker Hydraulic Cartridge Valves and are held in stock for delivery from the European Distribution Centre (EDCN).

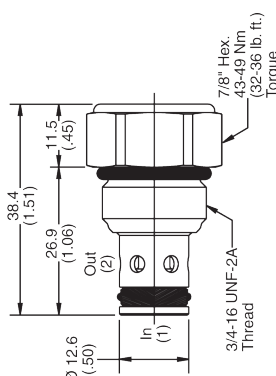
All valves in The Select Range are proven items, with a good track record of service in many different applications. The Select Range should be used for new projects in the knowledge that they are available and will meet the majority of customer applications. If something different is required then further valve options can be selected from the main valve range, although availability may be subject to a manufacturing lead-time.

This catalogue is organized so that selection can be made by valve type first, then by flow/pressure requirements. This means that valve selection can be made with minimal part number knowledge.

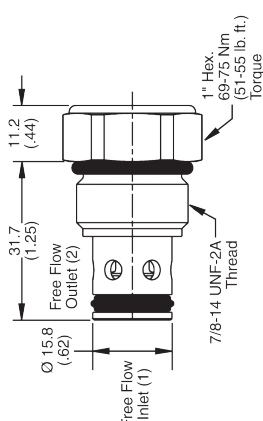
The data in this catalogue is only the basic information but full details of each valve, including the full specification and options, are shown in the main catalogue, available through the local Parker Sales companies, directly from EMDC, or alternatively on the website www.parker.com

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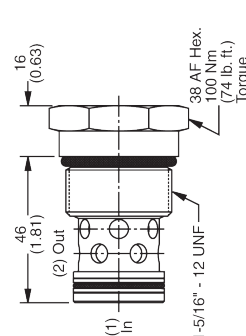
Poppet Type



CVH081P

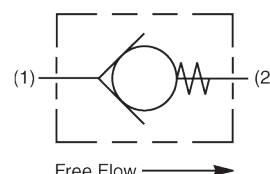


CVH103P



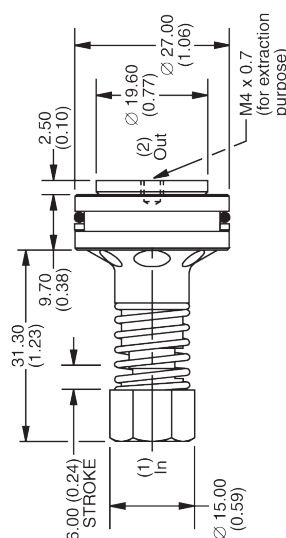
D06B2-0.1N

Dimensions Millimeters (inches)

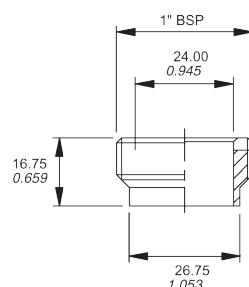


Series	Body	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
CVH081P	B08-2-6B	350	0.3	38	- Spherical poppet for low leakage CVH type only. - Low pressure drop. - Good contamination tolerance.
CVH103P	B10-2-8B	350	0.3	60	
D06B2P-0.1N	B16-2-16B	420	0.1	280	

Poppet Type - Valve Insert

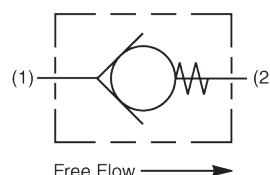


D1B125-0.2N



Retainer

Dimensions Millimeters (inches)



Note:

Valve is supplied with retention round wire circlip (ref 8010977). As an alternative to circlip retention of the check valve insert, the screwed retainer shown here can be used to lock the insert beneath 1" BSP port and should be ordered separately.

For 1" BSP order as RT10001 - Torque to 85Nm (63 lb ft).

Series	Body	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
D1B125-0.2N	LB10210S	420	0.2	300	High flow capacity

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

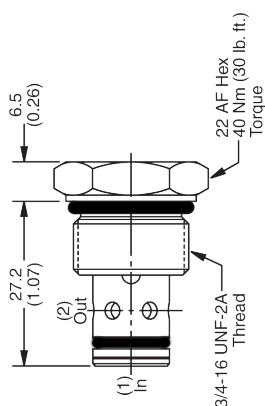
CE

Coils &
Electronics

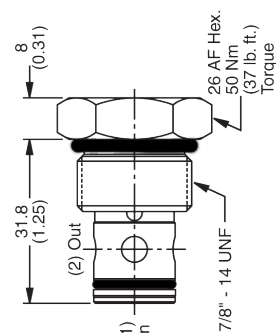
BC

Bodies &
Cavities

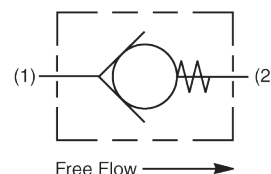
Ball Type



D02B2



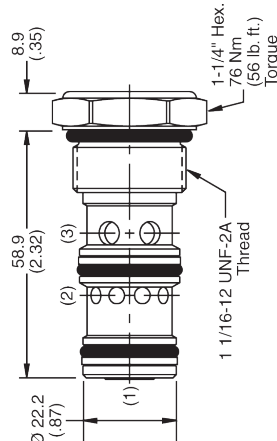
D04B2



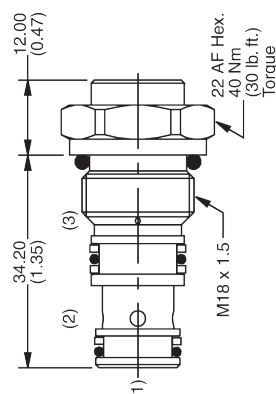
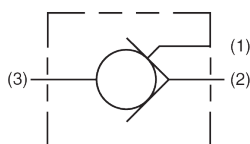
Dimensions Millimeters (inches)

Series	Body	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
D02B2-0.2N	B08-2-6B	420	0.2	45	- Ball type construction for cost effective design. - Single & dual pilot pistons available to create PO check valve assemblies. - Cartridge only
D02B2-2.1N	B08-2-6B	420	2.1	45	
D04B2-0.2N	B10-2-8B	420	0.2	90	
D04B2-2.1N	B10-2-8B	420	2.1	90	

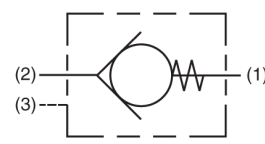
Pilot Operated



CPH104P



D4A020N

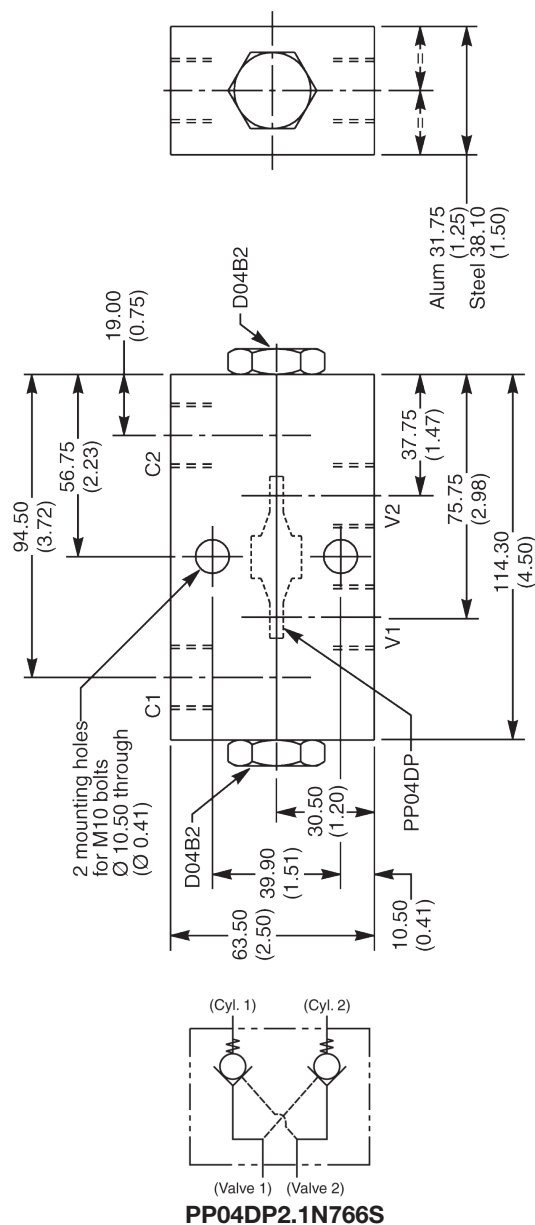


Dimensions Millimeters (inches)

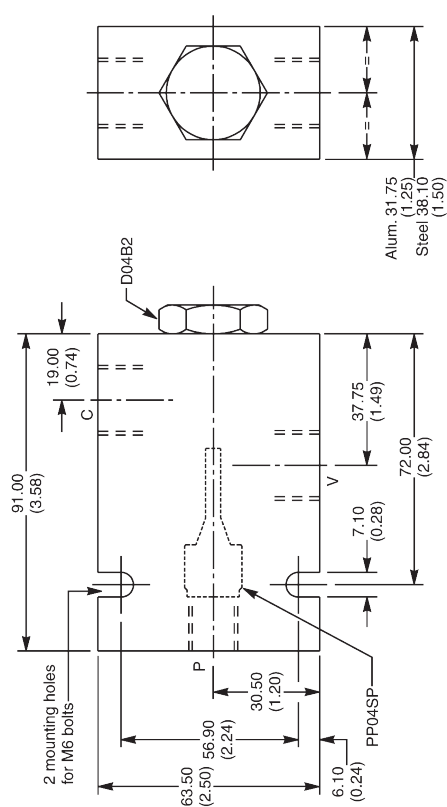
Series	Body	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
CPH104P	B10-3-8B	350	2.1	30	- Extremely compact construction. - Sealed pilot
D4A020N	LB10310S	420	5	16	

Pilot Piston Type

Dimensions Millimeters (inches)



PP04DP2.1N766S



(Cylinder)

(Valve) (Pilot)

PP04SP2.1N761S

Series	Pilot Ratio	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
PP04DP2.1N766S	4:1	420	2.1	40	- Complete assembly - Dual pilot operated check valve package with 3/8 BSP ports.
PP04SP2.1N761S	3:1	420	2.1	135	- Complete assembly - Single pilot operated check valve package with 1/2 BSP ports.

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

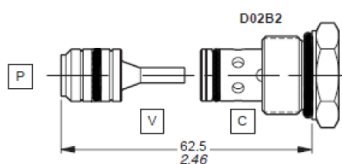
Coils &
Electronics

BC

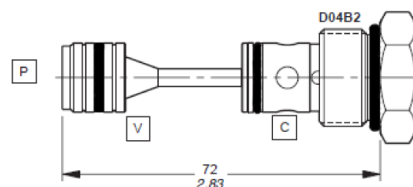
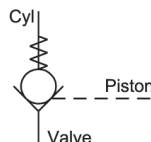
Bodies &
Cavities

Single Pilot Piston

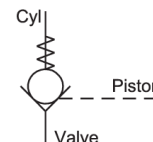
Dimensions Millimeters (inches)



PP02SP



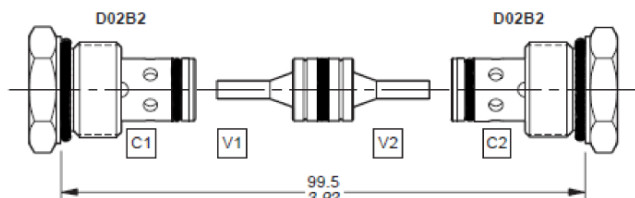
PP04SP



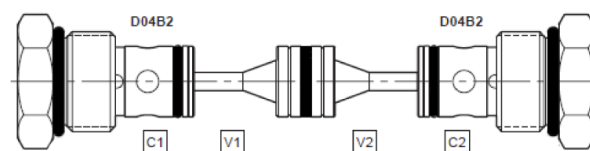
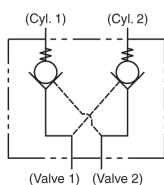
Series	Pilot Ratio	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
PP02SP	4:1	420	2.1	40	- Single pilot piston only - For use with D02B2-2.1N
PP04SP	3:1	420	2.1	135	- Single pilot piston only - For use with D04B2-2.1N

Dual Pilot Piston

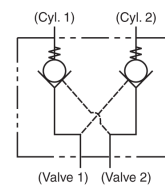
Dimensions Millimeters (inches)



PP02DP



PP04DP



Series	Pilot Ratio	Max Inlet Pressure (bar)	Cracking Pressure (bar)	Flow Rating (l/min)	Features
PP02DP	4:1	420	2.1	40	- Dual pilot piston only - For use with 2 pcs D02B2-2.1N
PP04DP	3:1	420	2.1	135	- Dual pilot piston only - For use with 2 pcs D04B2-2.1N

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

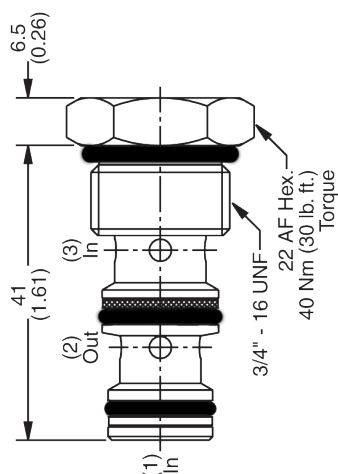
CE

Coils &
Electronics

BC

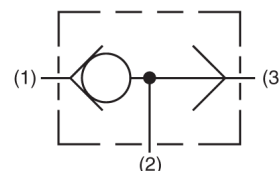
Bodies &
Cavities

Ball Type



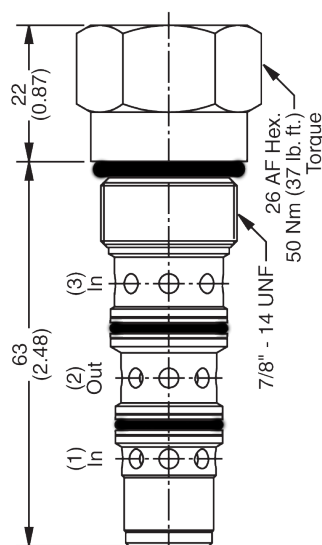
K02A3N

Dimensions Millimeters (inches)



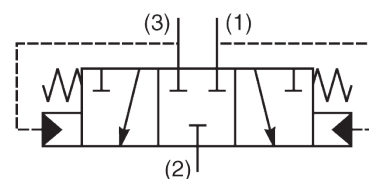
Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Features
K02A3N	B08-3-6B	420	27	- Ball type construction - Contamination tolerant

Spool Type



K04C3-5.0N

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Features
K04C3-5.0N	B10-4-8B	420	55	- High flow capacity - Use as a purge valve in transmission applications.

CV

Check
Valves

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Valves

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Load/Motor
Controls

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Flow
Controls

PC

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Controls

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Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

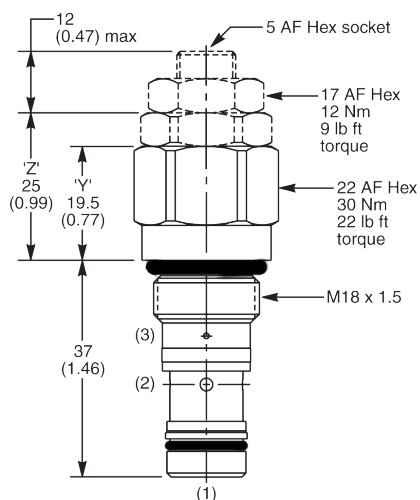
Coils &
Electronics

BC

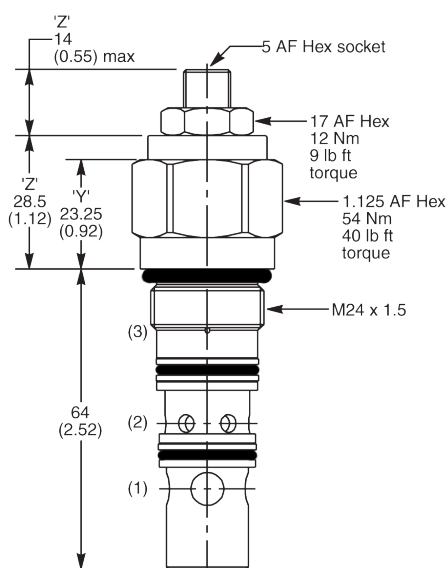
Bodies &
Cavities

Counterbalance Type

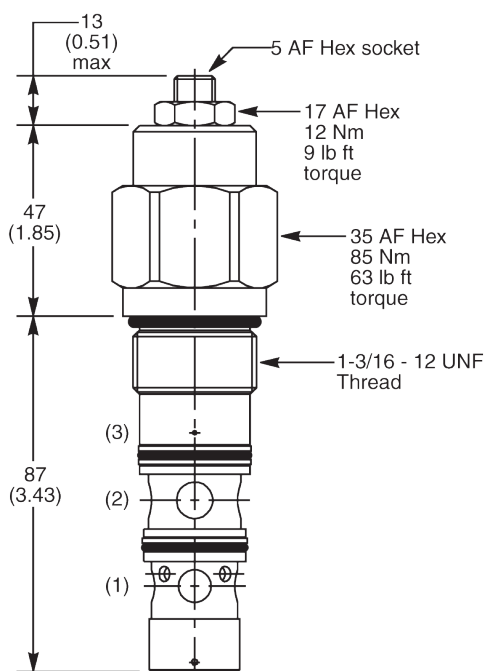
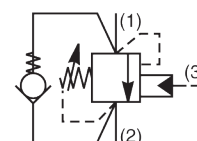
Dimensions Millimeters (inches)



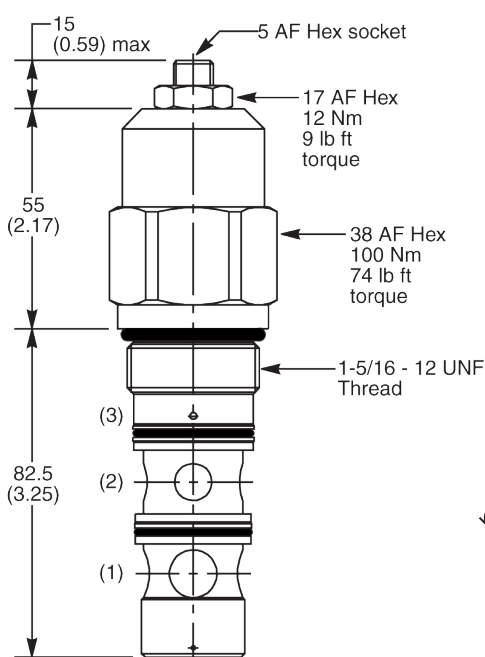
E2B020ZN



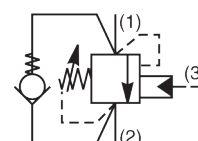
E2B040ZNMK3



E2B060ZNMK2

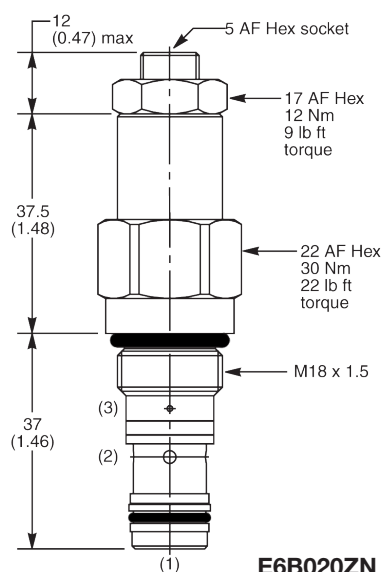


E2E125ZNMK2

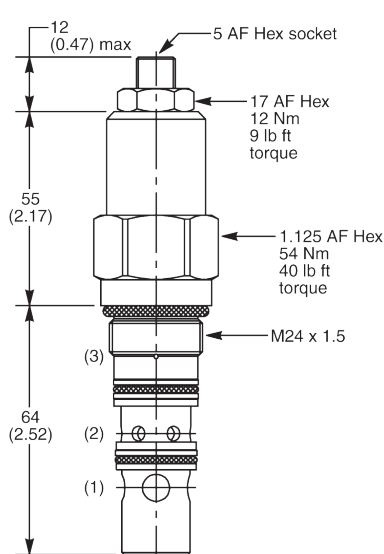


Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Pilot Ratio	Features
E2B020ZN	LB10310S	420	215	20	4.5:1	• Compact construction • Excellent control & stability • Range of pilot ratios
E2B040ZNMK3	LB10251S	350	215	60	3:1	
E2B060ZNMK2	LB10039S	350	215	120	3:1	
E2E125ZNMK2	LB10076S	350	215	200	3:1	

Counterbalance Type

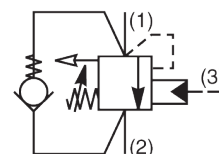


E6B020ZN

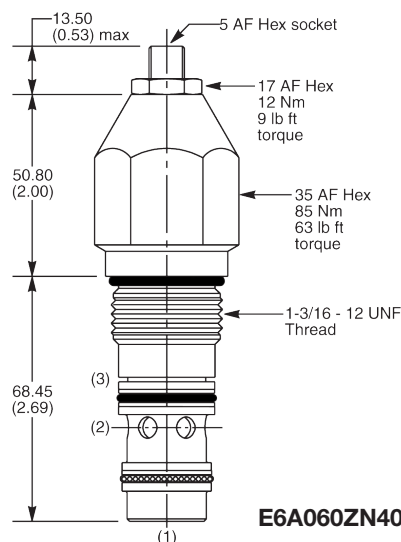


E6B040ZNMK3

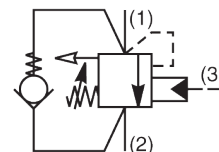
Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Pilot Ratio	Features
E6B020ZN	LB10310S	420	215	20	4.5:1	- Independent of downstream pressure. - No requirement for separate drain line. - Compact construction
E6B040ZNMK3	LB10251S	350	215	60	3:1	



E6A060ZN409 / E6B060ZN409



Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Pilot Ratio	Features
E6A060ZN409	LB10039S	350	215	180	8:1	- Independent of downstream pressure. - No requirement for separate drain line. - High flow design
E6B060ZN409	LB10039S	350	215	180	3:1	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

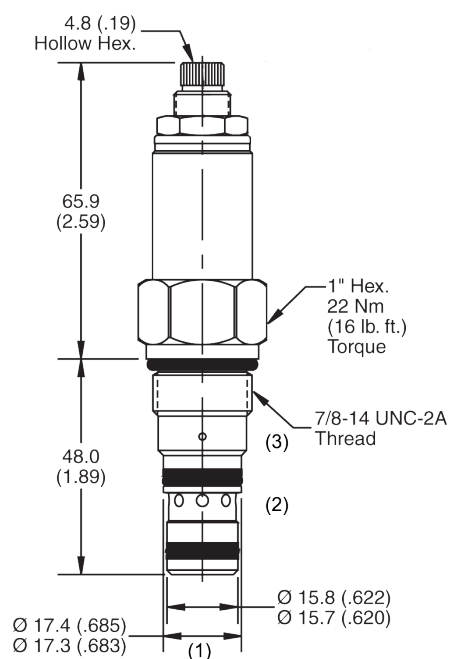
CE

Coils &
Electronics

BC

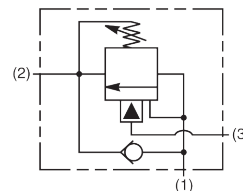
Bodies &
Cavities

Counterbalance Type



CB101AS30

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Pilot Ratio	Features
CB101AS30	B10-3-8B	380	210	45	3:1	• 3:1 Pilot ratio • Fits common cavity

CV

Check
Valves

SV

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Valves

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PC

Pressure
Controls

LE

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DC

Directional
Controls

SV

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Valves

PV

Proportional
Valves

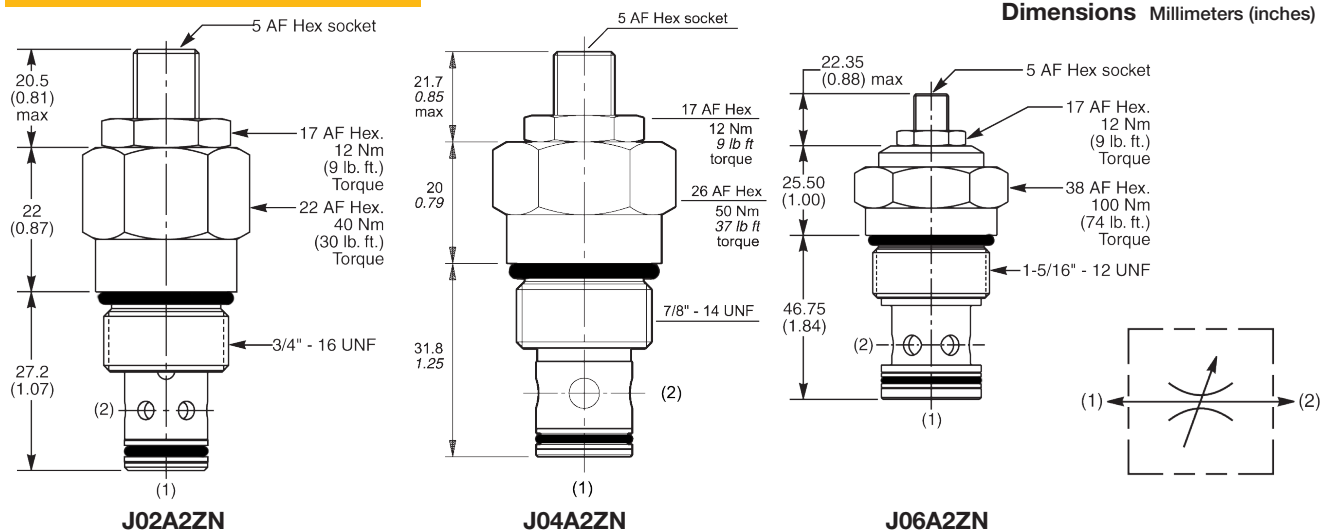
CE

Coils &
Electronics

BC

Bodies &
Cavities

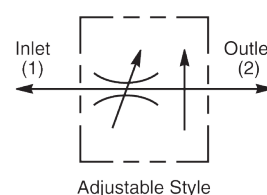
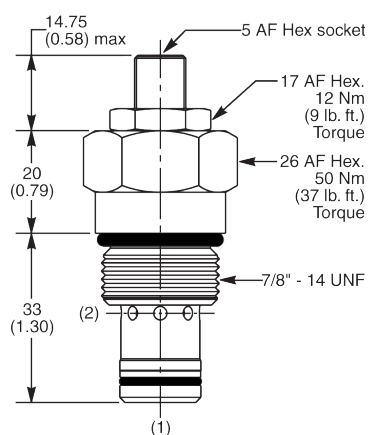
Needle Valve



Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Features
J02A2ZN	B08-2-6B	420	45	- High flow capacity from small valve / cavity. - Sensitive adjustment - Low leakage at shut off
J04A2ZN	B10-2-8B	420	110	
J06A2ZN	B16-2-16B	420	225	

Pressure Compensated Type

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Features
J04C2ZN	B10-2-8B	420	40	- Restricted reverse flow - Minimal flow change with pressure variation.

CV

Check
Valves

SV

Shuttle
Valves

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Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

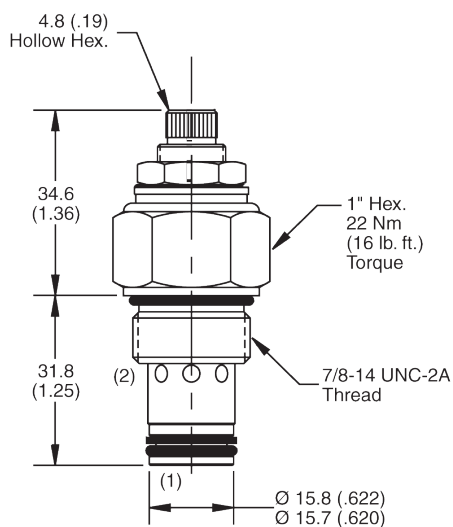
Coils &
Electronics

BC

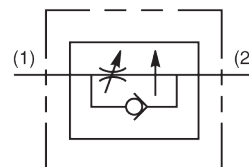
Bodies &
Cavities

Pressure Compensated Type

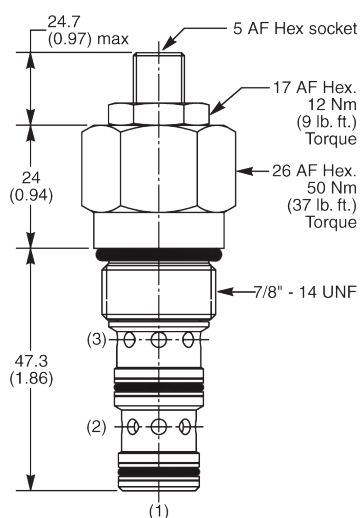
Dimensions Millimeters (inches)



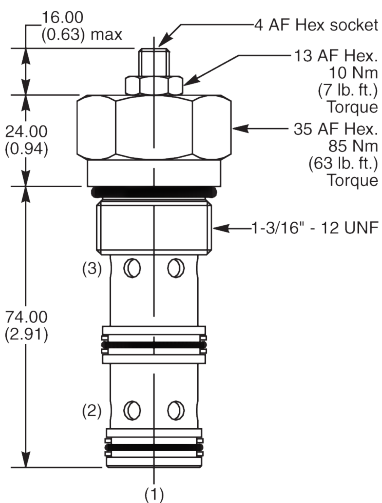
FA101S



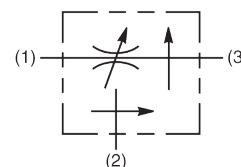
Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Features
FA101S	B10-2-8B	210	20.6	• Free reverse flow



J04D3ZN



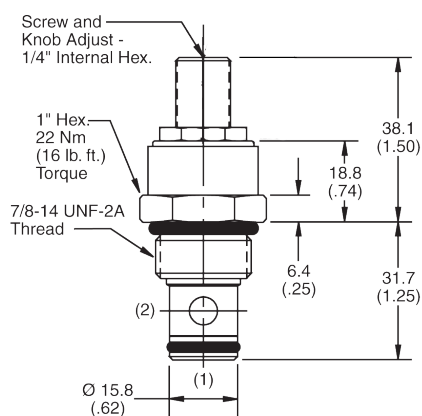
J1A125ZN



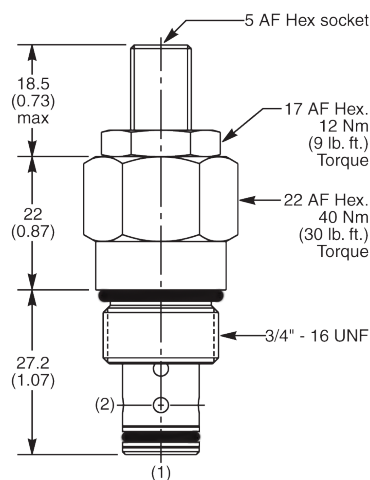
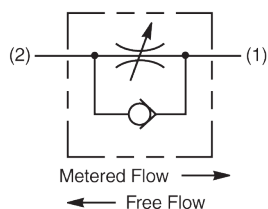
Series	Body	Max Inlet Pressure (bar)	Max Inlet Flow (l/min)	Priority Flow Rating (l/min)	Features
J04D3ZN	B10-2-8B	420	90	45	• 3 way flow control valve • Priority flow capabilities • Ideal for steering system applications.
J1A125ZN	LB10056S	350	150	90	• Fully compensated.

Needle Valve with Reverse Check

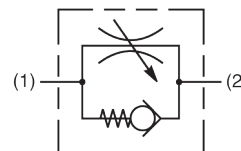
Dimensions Millimeters (inches)



FV101S



J02B2ZN



Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Features
FV101S	B10-2-8B	210	45	• High flow capacity • Free reverse flow • Metered flow from port 2 to 1.
J02B2ZN	B08-2-6B	420	30	• Sensitive adjustment • Low leakage at shut off • Free reverse flow • Metered flow from port 1 to 2.

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

Coils &
Electronics

BC

Bodies &
Cavities

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

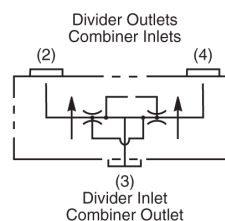
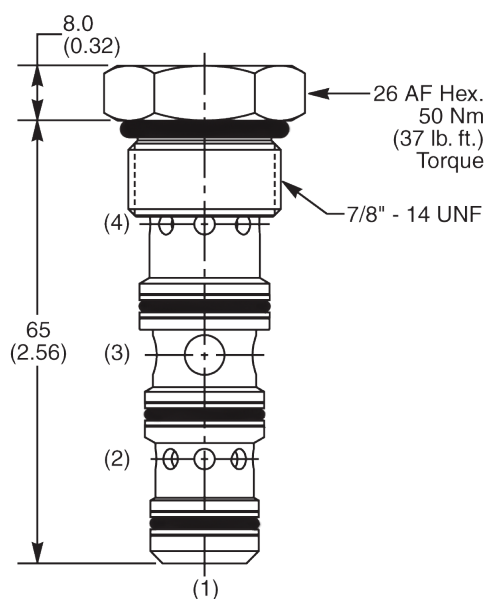
Coils &
Electronics

BC

Bodies &
Cavities

Pressure Compensated Type

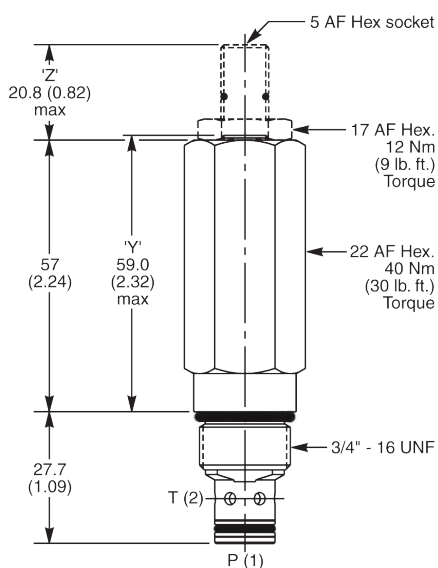
Dimensions Millimeters (inches)



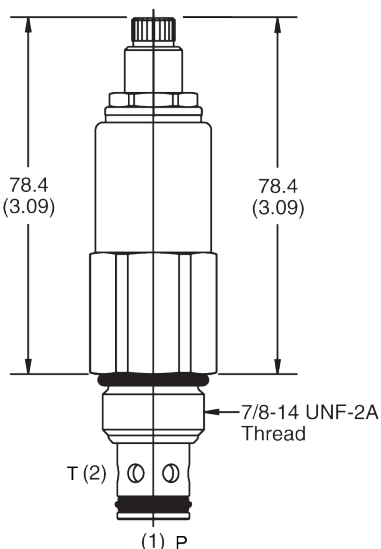
L04A3-30-30N

Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Flow Ratio	Features
L04A3-30-30N	B10-4-8B	420	14-60	50:50	Pressure compensated flow in both dividing and combining mode.

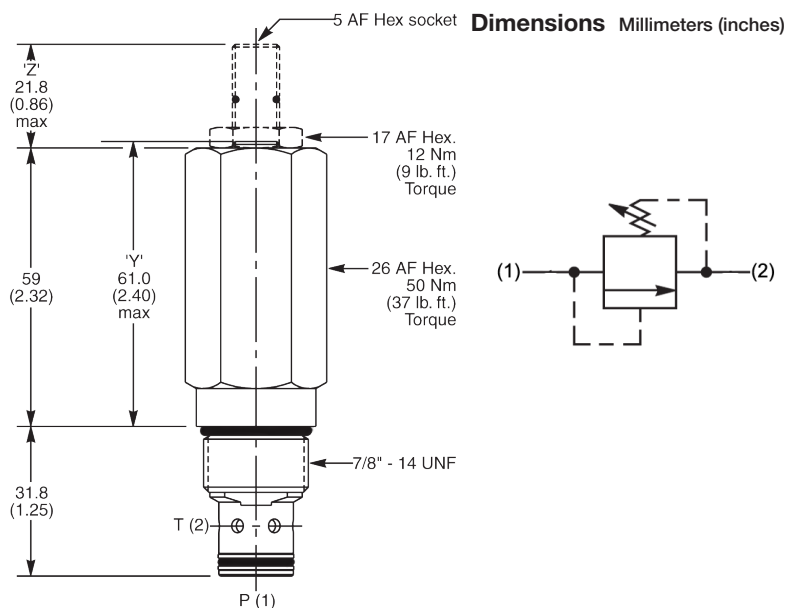
Direct Acting



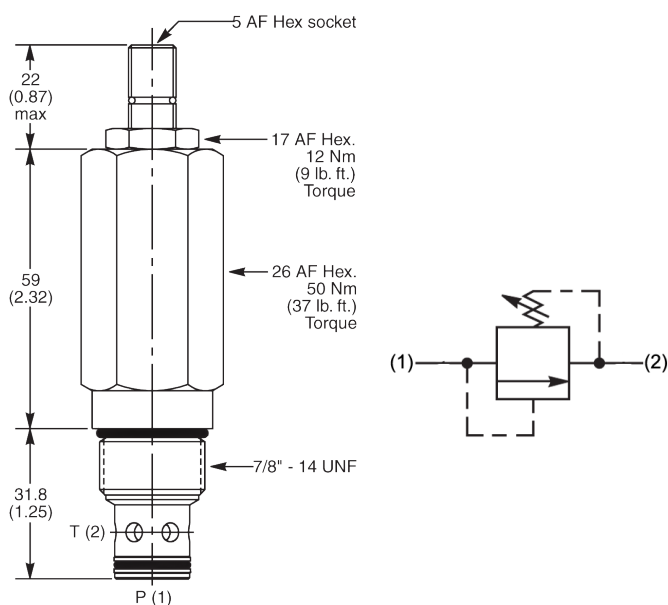
A02B2PZN



RD102S30



A04B2PZN



A04C2FZN

Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Pressure Range (bar)	Features
A02B2PZN	B08-2-6B	420	200	30	5-420	- Fast response - Stable throughout flow range. - Virtually leak free - Versatile relief valve
A04B2PZN	B10-2-8B	420	200	100	5-420	
RD102S30	B10-2-8B	250	103.4	38	41-207	
A04C2FZN	B10-2-8B	420	50	200	2-100	- Spool type - High flow capacity - Low pressure setting

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

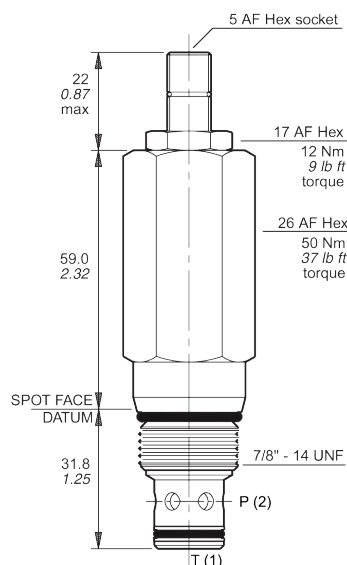
CE

Coils &
Electronics

BC

Bodies &
Cavities

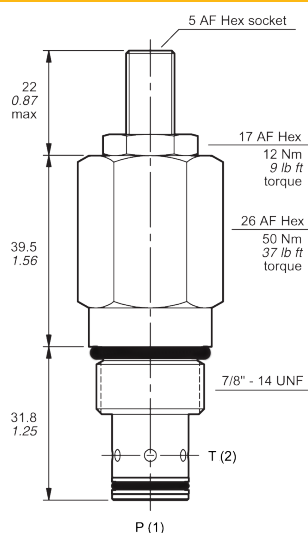
Differential Area



A04D2MZN

Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Adjustment Range (bar)	Features
A04D2MZN	B10-2-8B	350	200	150	2-350	- Fast reacting - Virtually leak free - Flat response

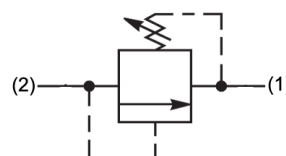
Pilot Operated



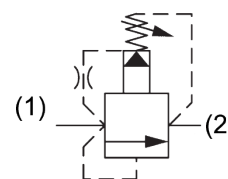
A04G2PZN

Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Adjustment Range (bar)	Features
A04G2PZN	B10-2-8B	420	200	200	10-420	- High flow capacity - Full tank line back pressure capability.

Dimensions Millimeters (inches)

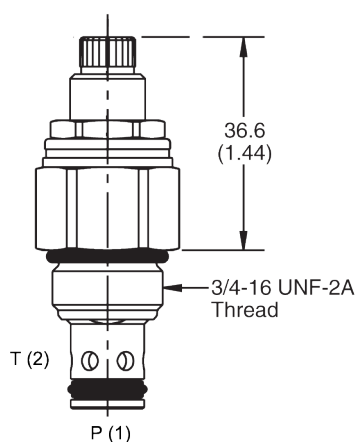


Dimensions Millimeters (inches)

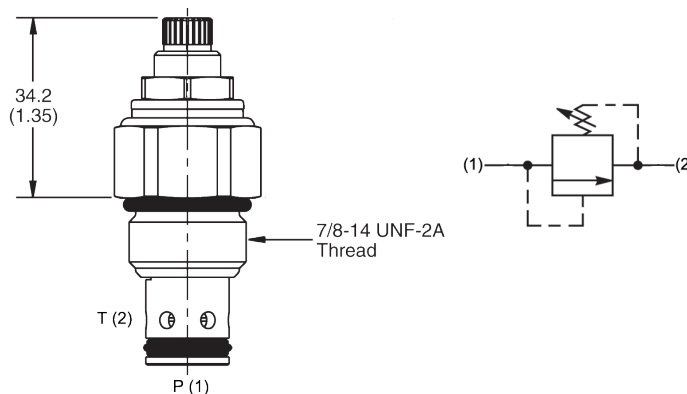


Pilot Operated

Dimensions Millimeters (inches)



RAH081S50

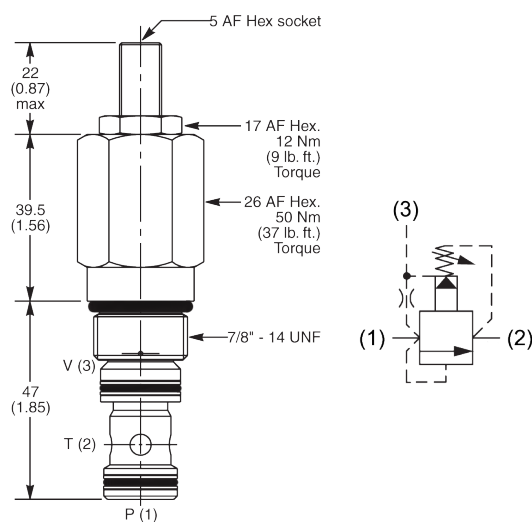


RAH101S50

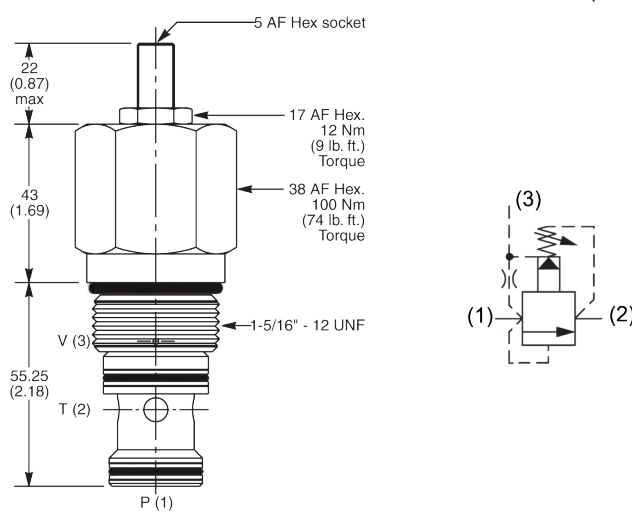
Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Adjustment Range (bar)	Features
RAH081S50	B08-2-6B	380	172.4	75	13.8 - 345	• Compact design • Consistent re-seat • Internal screening to protect pilot seat.
RAH101S50	B10-2-8B	380	172.4	113	13.8 - 345	

Ventable Relief Valve

Dimensions Millimeters (inches)



A04H3PZN



A06H3PZN

Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Adjustment Range (bar)	Features
A04H3PZN	B10-3S-8B	420	200	190	10 - 420	• High flow capacity • Full tank line back pressure capability. • Ideal for pump relief and unloading systems using the vent line.
A06H3PZN	B16-3S-16B	420	200	400	10 - 420	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

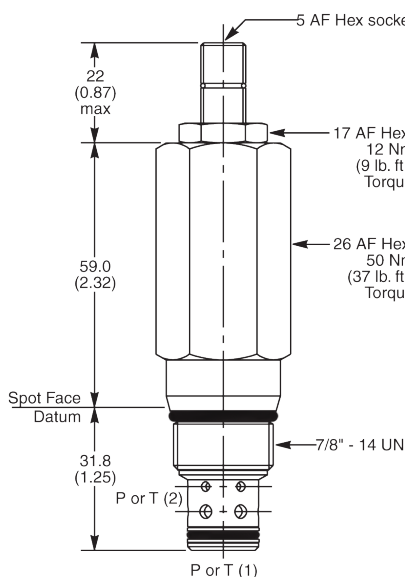
CE

Coils &
Electronics

BC

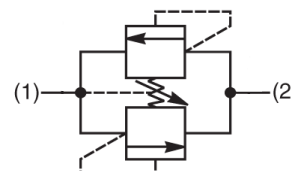
Bodies &
Cavities

Cross Over Type



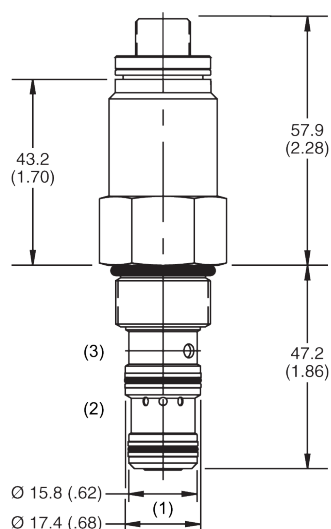
A04J2MZN

Dimensions Millimeters (inches)



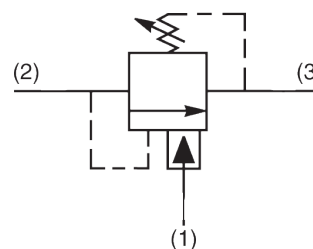
Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Setting Range (bar)	Flow Rating (l/min)	Features
A04J2MZN	B10-2-8B	420	200	10-350	120	• High flow capacity • Relieves in both directions • Cost effective with single adjustment.

Unloader Valve



RU101S30C

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Standard Pressure Setting (bar)	Flow Capacity (l/min)	Setting Range (bar)	Features
RU101S30C	B10-3-8B	245	103.5	3.75	14-207	• Suitable for accumulator unloading circuits. • Ability to provide a fixed percentage between load and unload pressures.

CV

Check
Valves

SV

Shuttle
ValvesLM
Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

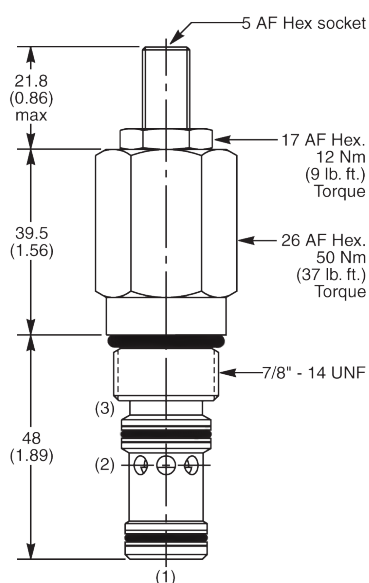
CE

Coils &
Electronics

BC

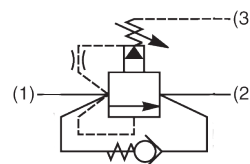
Bodies &
Cavities

Pilot Operated



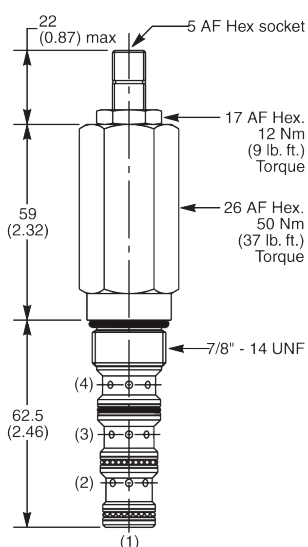
B04D3PZN

Dimensions Millimeters (inches)

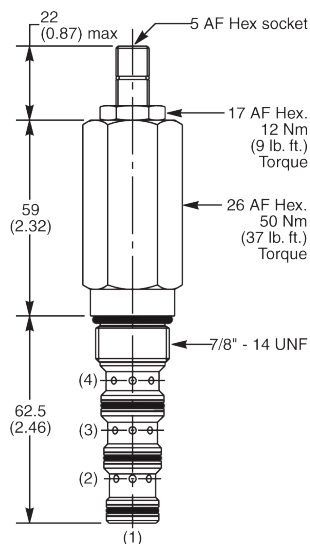


Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Adjustment Range (bar)	Features
B04D3PZN	B10-3S-8B	420	200	70	10 to 420	• High flow capacity

Direct Acting

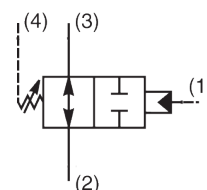
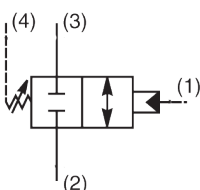


B04H4GZN



B04J4GZN

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Adjustment Range (bar)	Features
B04H4GZN	B10-4-8B	420	80	47	2 to 166	• External pilot and drain
B04J4GZN	B10-4-8B	420	80	47	2 to 166	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

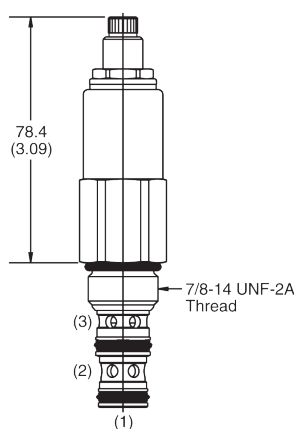
CE

Coils &
Electronics

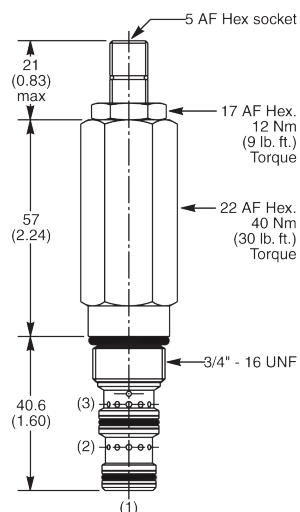
BC

Bodies &
Cavities

Direct Acting

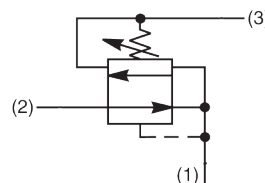


PR103S



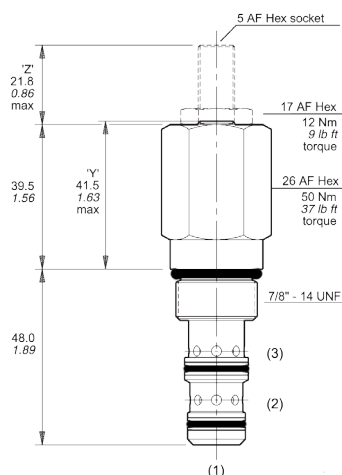
C02A3CZN / C02A3GZN

Dimensions Millimeters (inches)

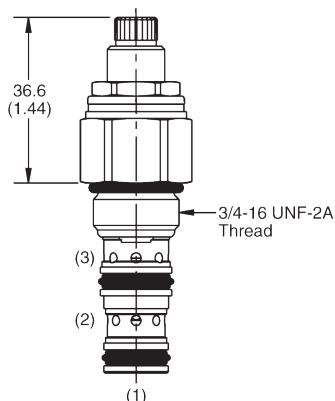


Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Reducing Pressure Range (bar)	Features
C02A3CZN	B08-3-6B	420	20	5 to 40	• Partial reverse flow capacity
C02A3GZN	B08-3-6B	420	20	50 to 150	
PR103S21	B10-3-8B	210	56	28 to 124	

Pilot Operated

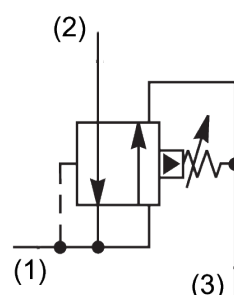


C04B3MZN



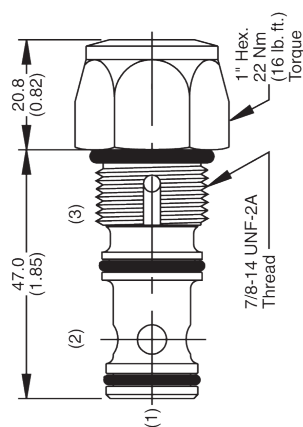
PRH081S50

Dimensions Millimeters (inches)

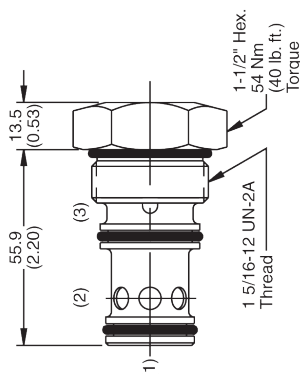


Series	Body	Max Inlet Pressure (bar)	Standard Setting (bar)	Flow Rating (l/min)	Reducing Pressure Range (bar)	Features
C04B3MZN	B10-3-8B	420	100	120	10 to 210	• Internal screening pilot protection. (PRH only) • Low pressure rise / flow characteristics.
PRH081S50	B08-3-6B	380	172.4	30	14 to 345	

Poppet Type

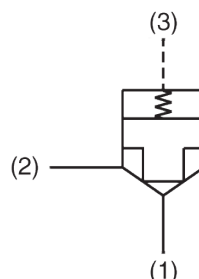


10SLC1-A-150



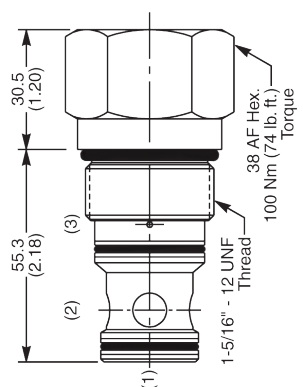
16SLC1-A-50

Dimensions Millimeters (inches)

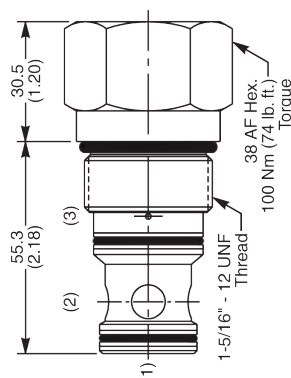
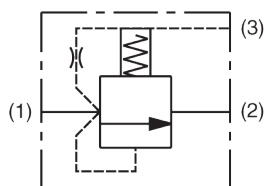


Series	Body	Max Inlet Pressure (bar)	Bias Spring (bar)	Flow Rating (l/min)	Features
10SLC1-A-150	B10-3S-8B	240	10.3	57	• Typically used to perform high flow directional switching operations.
16SLC1-A-50	B16-3S-16B	240	3.5	189	

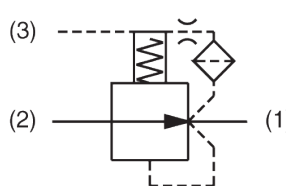
Spool Type



R06F3-5.5N
Normally Closed



R06G3-5.5N
Normally Open



Series	Body	Max Inlet Pressure (bar)	Switching Pressure (bar)	Flow Rating (l/min)	Features
R06F3-5.5N	B16-3S-16B	420	5.5	270	• Typical application - to control flow or to regulate pressure.
R06G3-5.5N	B16-3S-16B	420	5.5	90	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

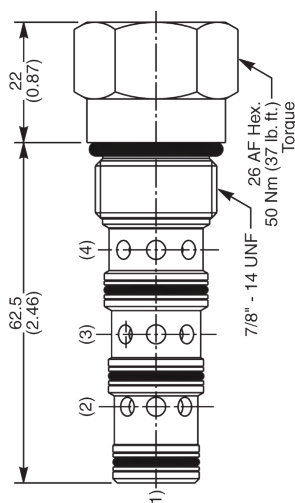
Coils &
Electronics

BC

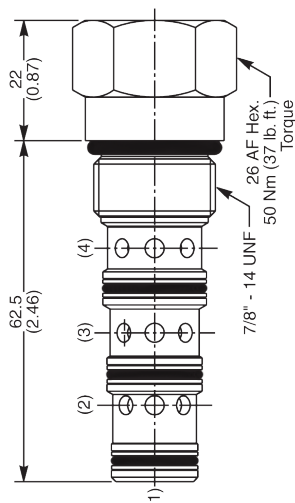
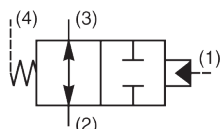
Bodies &
Cavities

Diverter Type

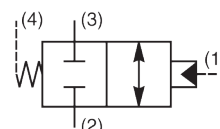
Dimensions Millimeters (inches)



R04A4-5.0NS



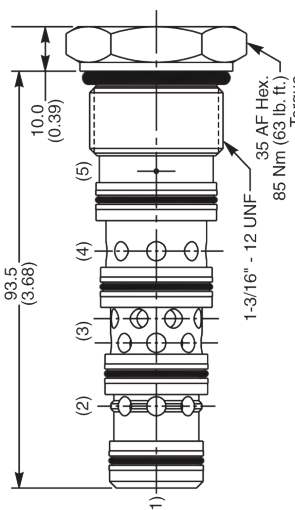
R04B4-5.0NS



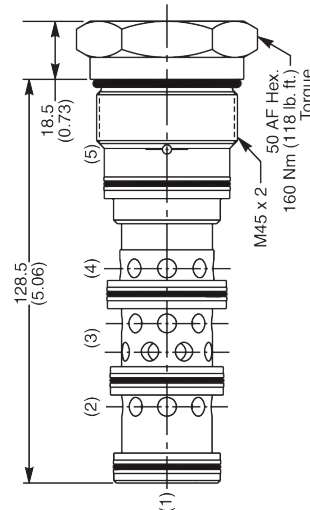
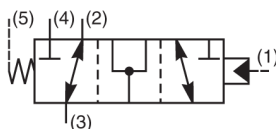
Series	Body	Max Inlet Pressure (bar)	Switching Pressure (bar)	Flow Rating (l/min)	Features
R04A4-5.0NS	B10-4-8B	420	5	47	- Range of switching pressures available - Sealed pilot
R04B4-5.0NS	B10-4-8B	420	5	47	

Pilot Operated

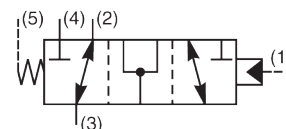
Dimensions Millimeters (inches)



N5A125-6.9N



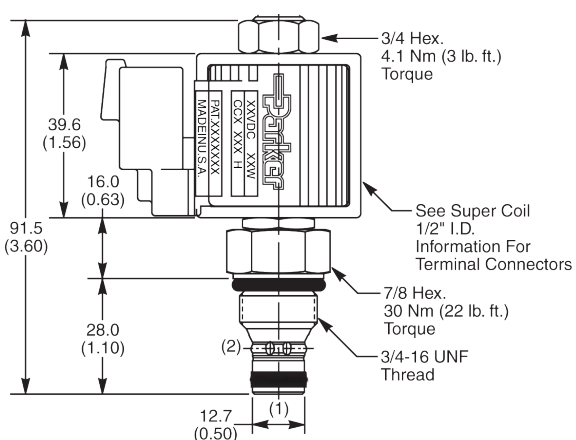
N5A300-6.9N



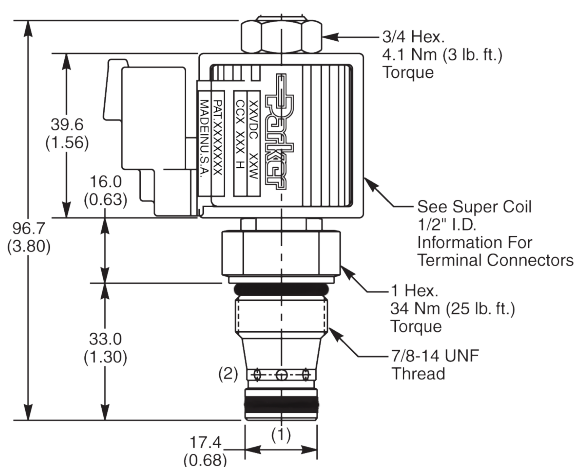
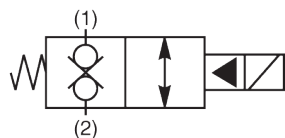
Series	Body	Max Inlet Pressure (bar)	Switching Pressure (bar)	Flow Rating (l/min)	Features
N5A125-6.9N	LB10314S	420	6.9	90	Range of switching pressures available
N5A300-6.9N	LB10316S	420	6.9	270	

2 Way Bi-Directional Poppet

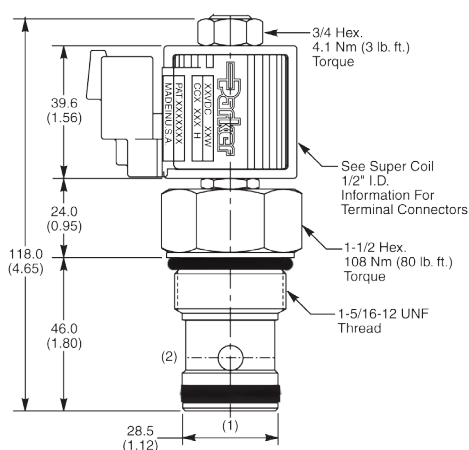
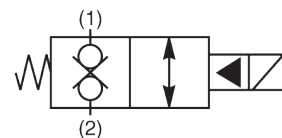
Dimensions Millimeters (inches)



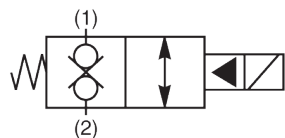
GS028100N



GS048100N



GS068100N



Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
GS028100N	B08-2-6B	350	CC	34	- Normally closed - Bi-directional poppet valve
GS048100N	LB10545S	350	CC	68	
GS068100N	B16-2-16B	350	CC	190	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

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Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

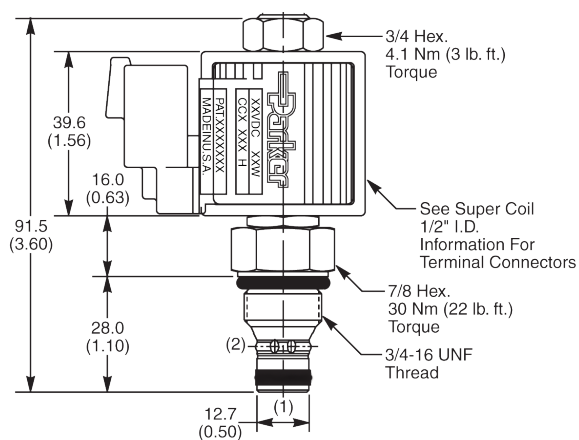
Coils &
Electronics

BC

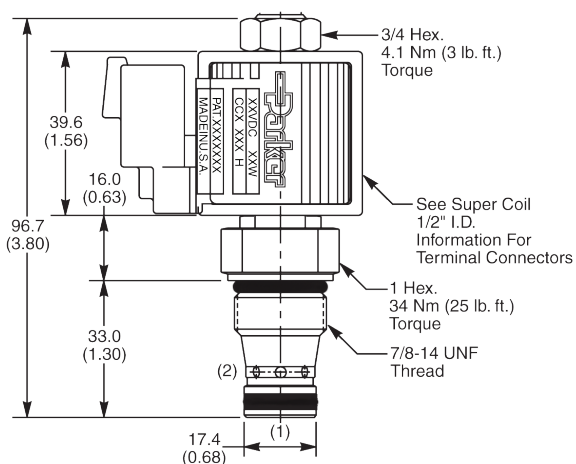
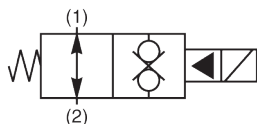
Bodies &
Cavities

2 Way Bi-Directional Poppet

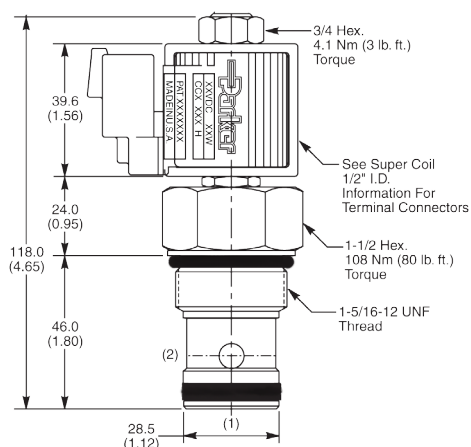
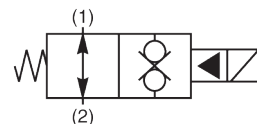
Dimensions Millimeters (inches)



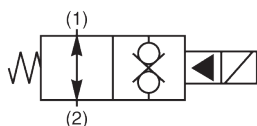
GS028600N



GS048600N



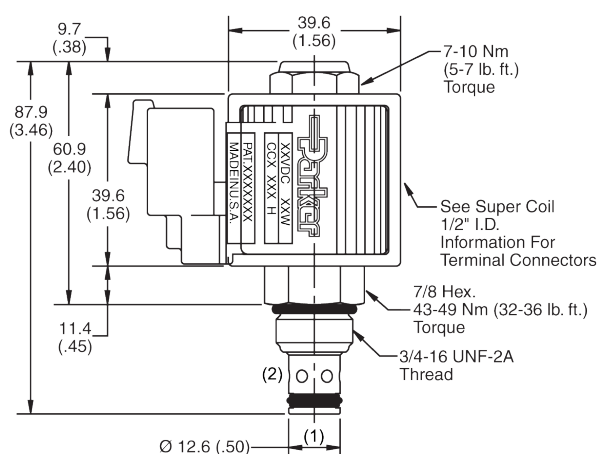
GS068600N



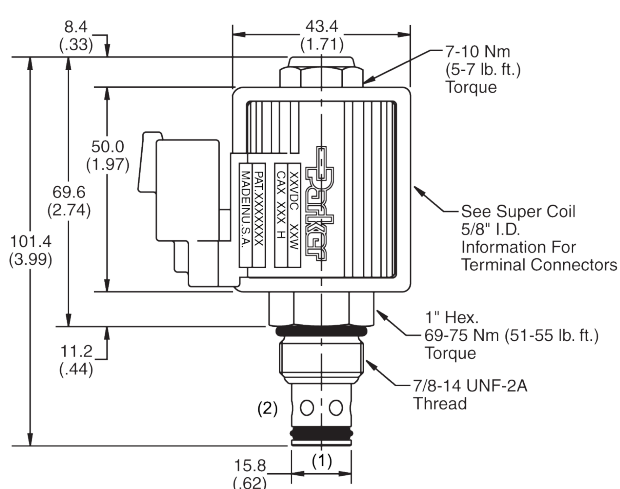
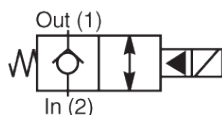
Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
GS028600N	B08-2-6B	350	CC	34	- Normally open - Bi-directional poppet valve
GS048600N	LB10545S	350	CC	68	
GS068600N	B16-2-16B	350	CC	190	

2 Way Poppet - Normally Closed

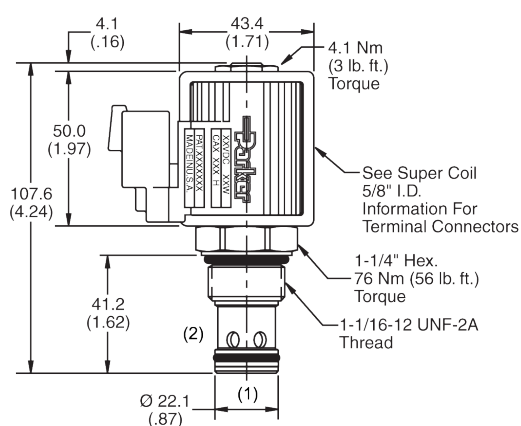
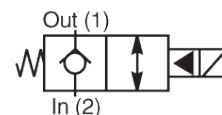
Dimensions Millimeters (inches)



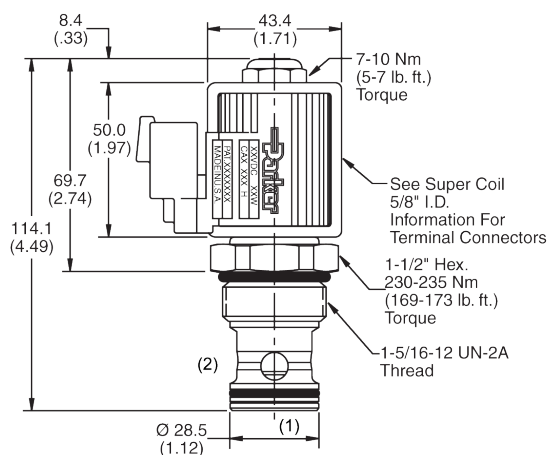
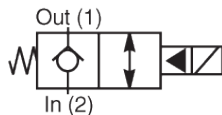
DSH081CR



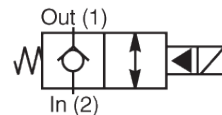
DSH101CR



DSH121CR



DSH161CR



Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Capacity (l/min)	Features
DSH081CR	B08-2-6B	350	CC	30	- Free reverse flow - Low leakage
DSH101CR	B10-2-8B	350	CA	60	
DSH121CR	B12-2-12B	350	CA	90	
DSH161CR	B16-2-16B	210	CA	350	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

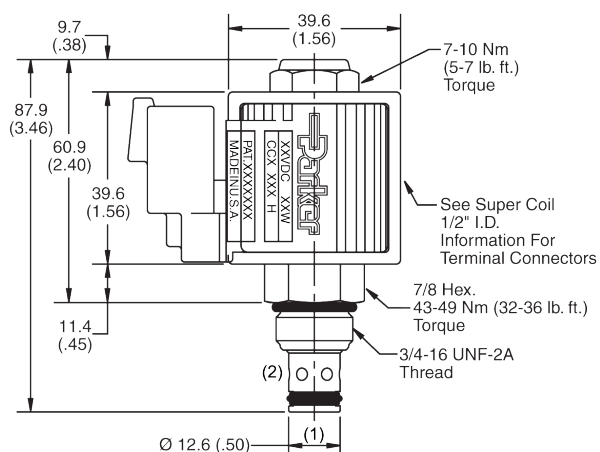
Coils &
Electronics

BC

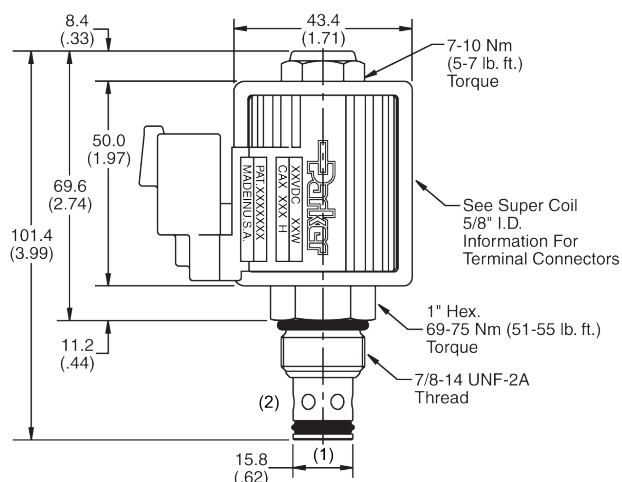
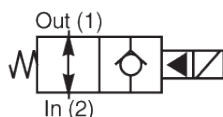
Bodies &
Cavities

2 Way Poppet - Normally Open

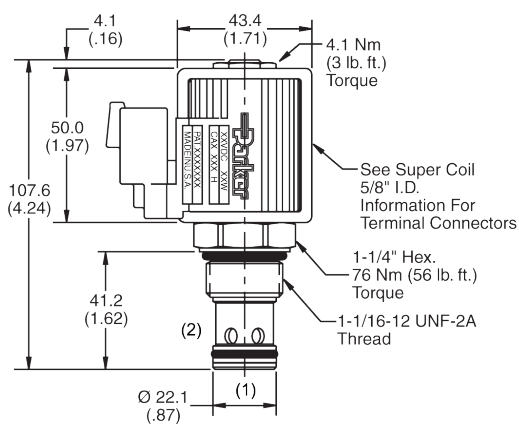
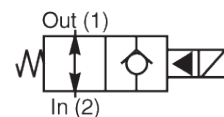
Dimensions Millimeters (inches)



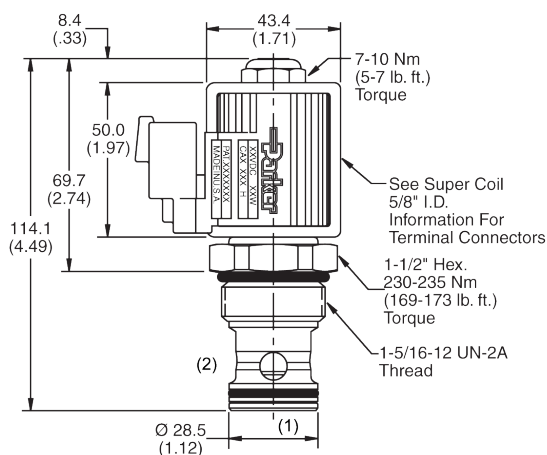
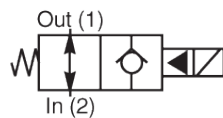
DSH081NR



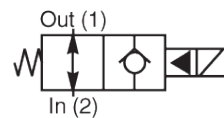
DSH101NR



DSH121NR



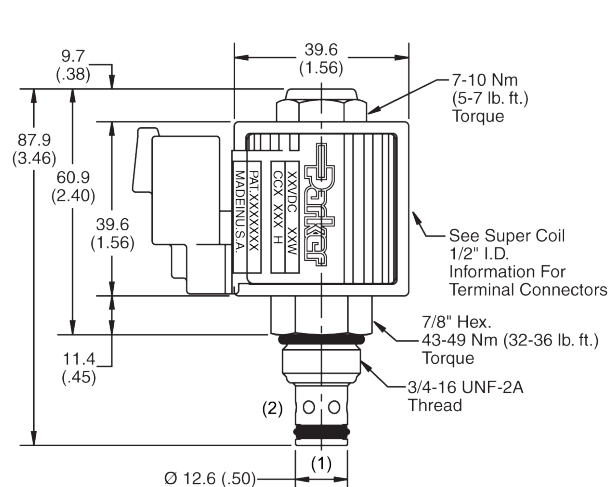
DSH161NR



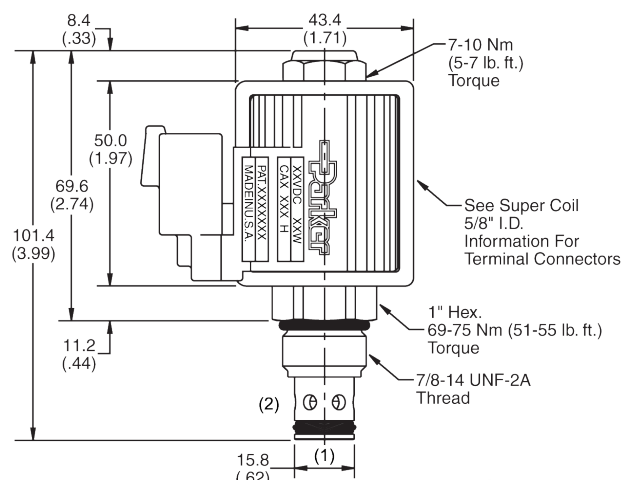
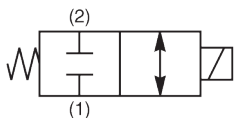
Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
DSH081NR	B08-2-6B	350	CC	30	- Low leakage - Free reverse flow
DSH101NR	B10-2-8B	350	CA	60	
DSH121NR	B12-2-12B	350	CA	90	
DSH161NR	B16-2-16B	210	CA	350	

2 Way Spool - Normally Closed

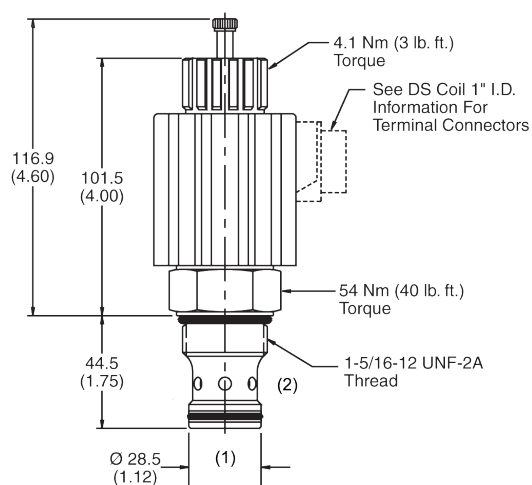
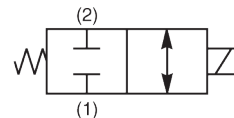
Dimensions Millimeters (inches)



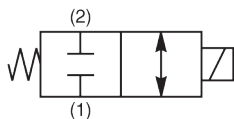
DSH082C



DSH102C



DS162C



Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
DSH082C	B08-2-6B	350	CC	15	• Normally closed
DSH102C	B10-2-8B	350	CA	30	• Normally closed
DS162C	B16-2-16B	210	Series 1"	75	• Normally closed

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

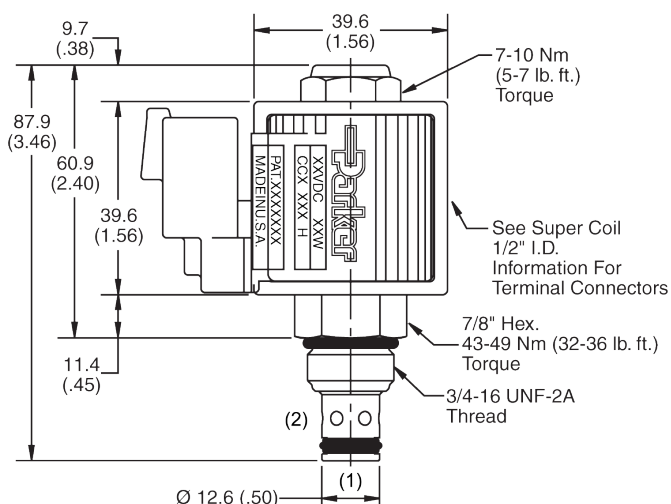
Coils &
Electronics

BC

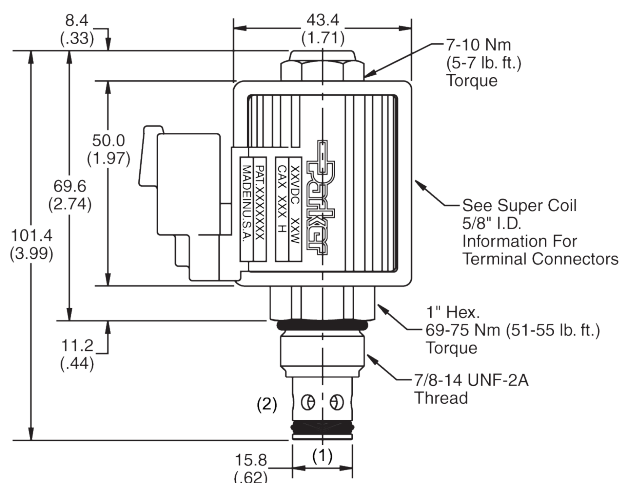
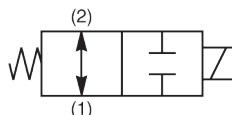
Bodies &
Cavities

2 Way Spool Normally Open

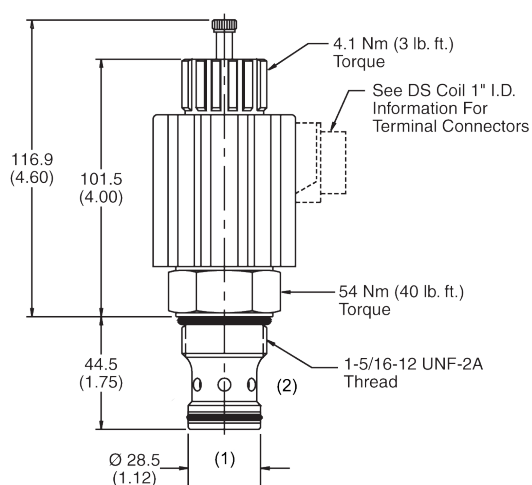
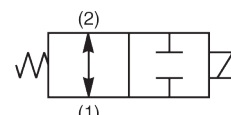
Dimensions Millimeters (inches)



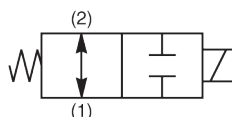
DSH082N



DSH102N



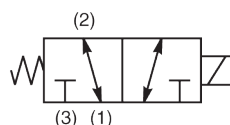
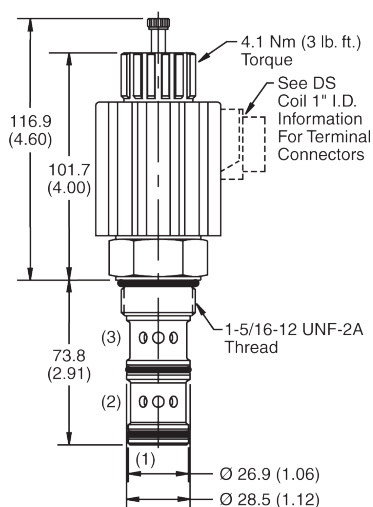
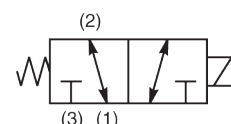
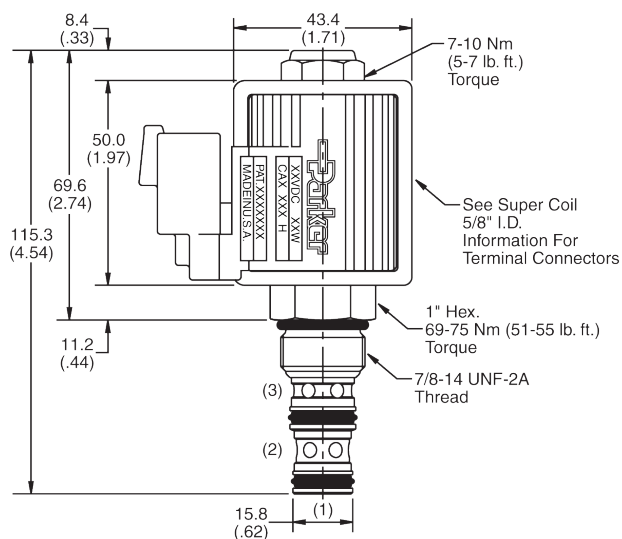
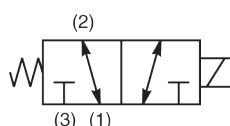
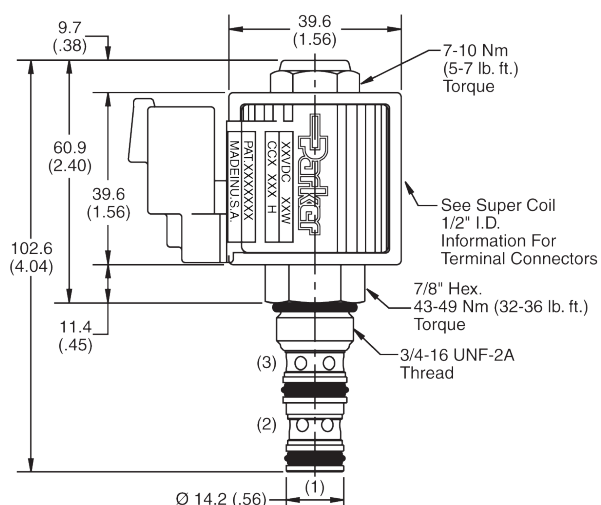
DS162N



Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
DSH082N	B08-2-6B	350	CC	8.4	• Normally open
DSH102N	B10-2-8B	350	CA	19	• Normally open
DS162N	B16-2-16B	210	Series 1"	75	• Normally open

3 Way Spool Normally Closed

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
DSH083B	B08-3-6B	350	CC	15	• Normally closed
DSH103B	B10-3-8B	350	CA	30	• Normally closed
DS163	B16-3-16B	210	Series 1"	42	• Normally closed

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

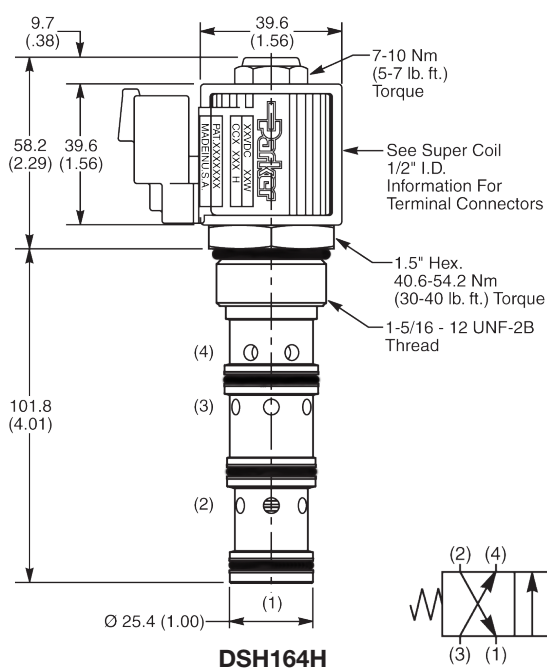
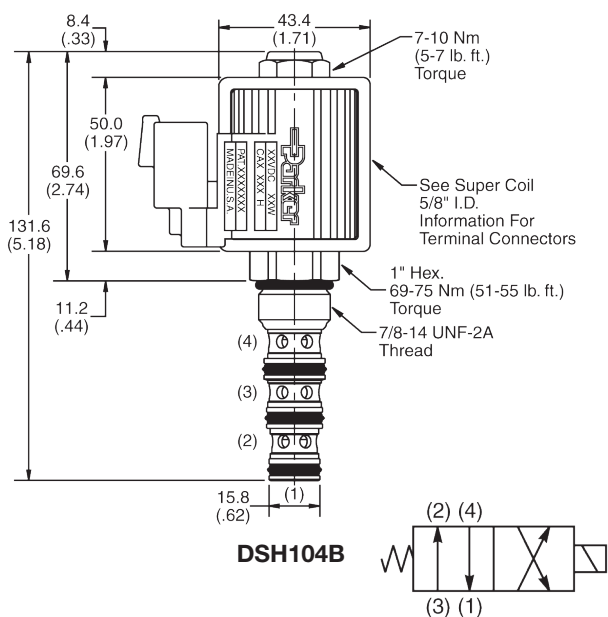
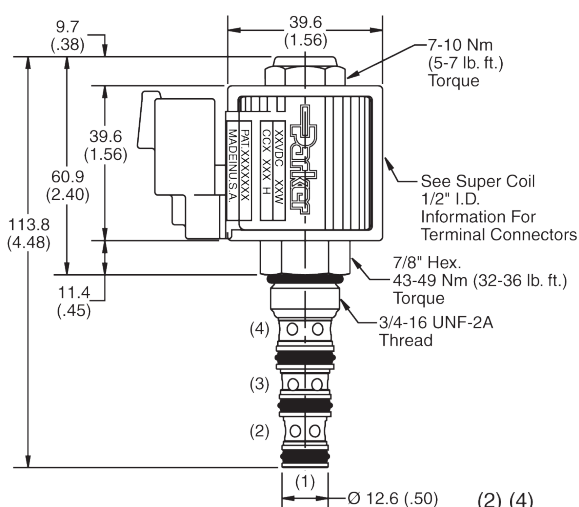
Coils &
Electronics

BC

Bodies &
Cavities

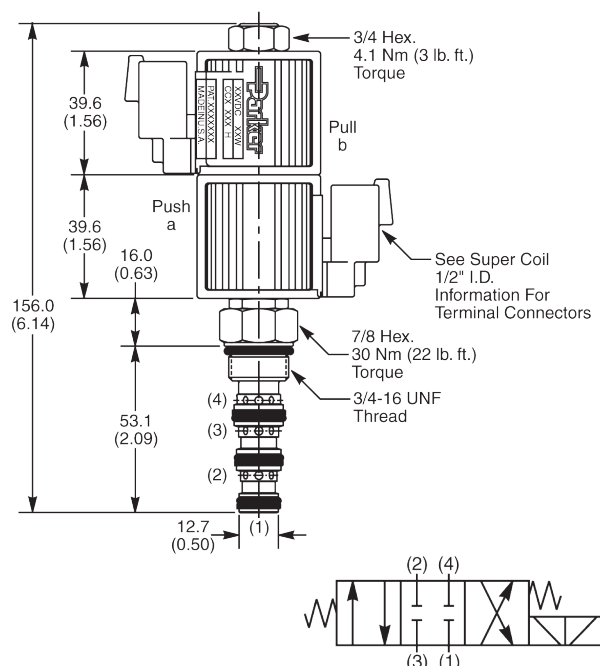
4 Way 2 Position Spool - Normally Closed

Dimensions Millimeters (inches)

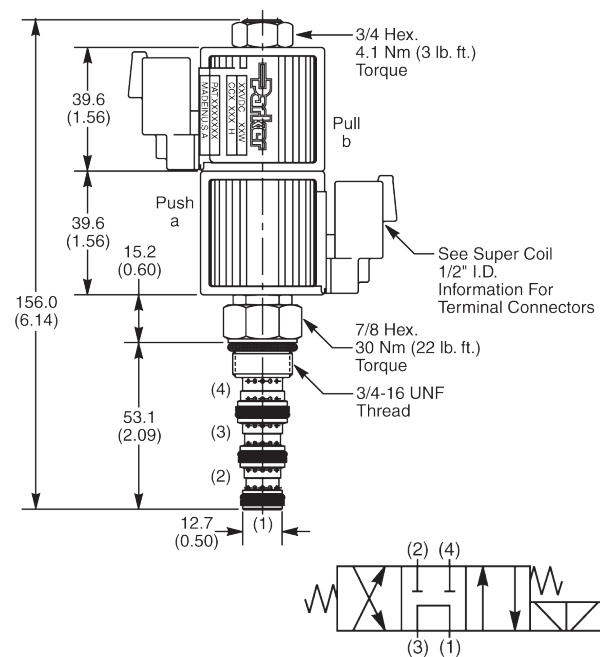


Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
DSH084B	B08-4-6B	350	CC	11 to 15	• Normally closed
DSH104B	B10-4-8B	350	CA	23 to 38	• Normally closed
DSH164H	B16-4-16B	350	CC	114	• Normally closed • Pilot operated

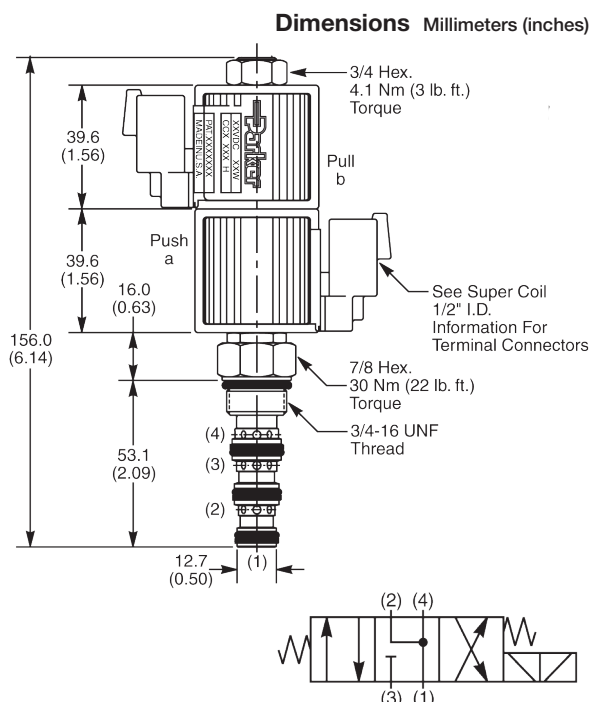
4 Way 3 Position Spool



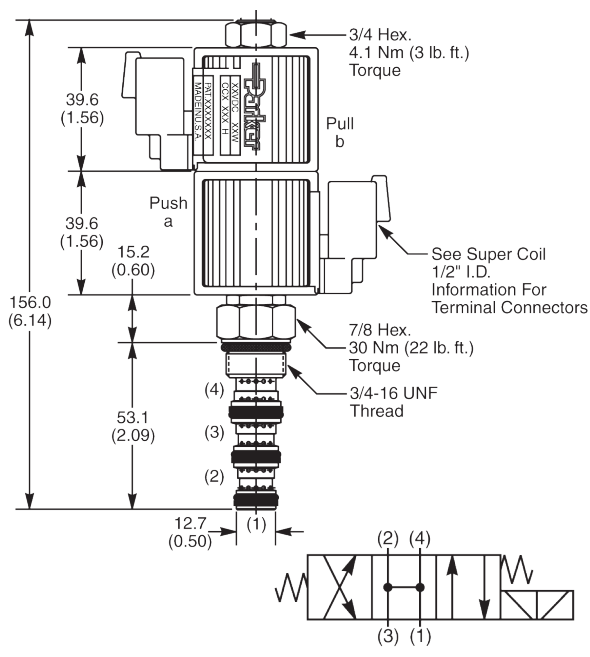
GS025100N



GS025700N



GS025300N



GS025900N

Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
GS025100N	B08-4-6B	350	CC	17	- Double acting cylinder and bi-directional motor application. - Use with 2 pcs CC type coil
GS025300N	B08-4-6B	350	CC	15	
GS025700N	B08-4-6B	350	CC	13.3	
GS025900N	B08-4-6B	350	CC	13.3	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

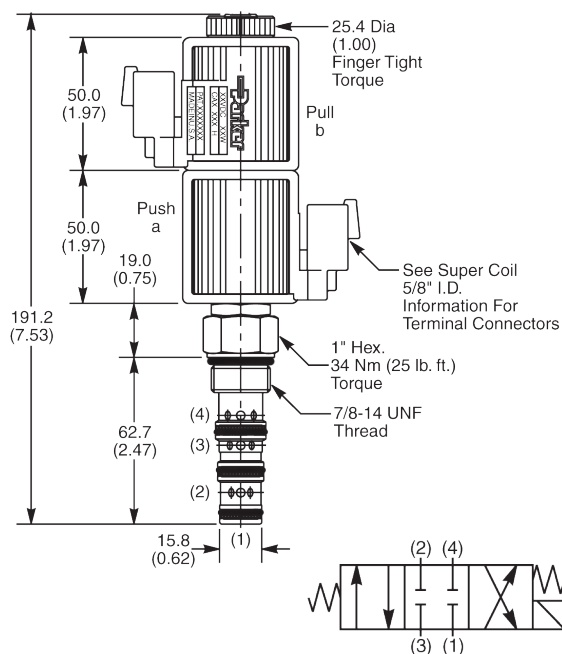
CE

Coils &
Electronics

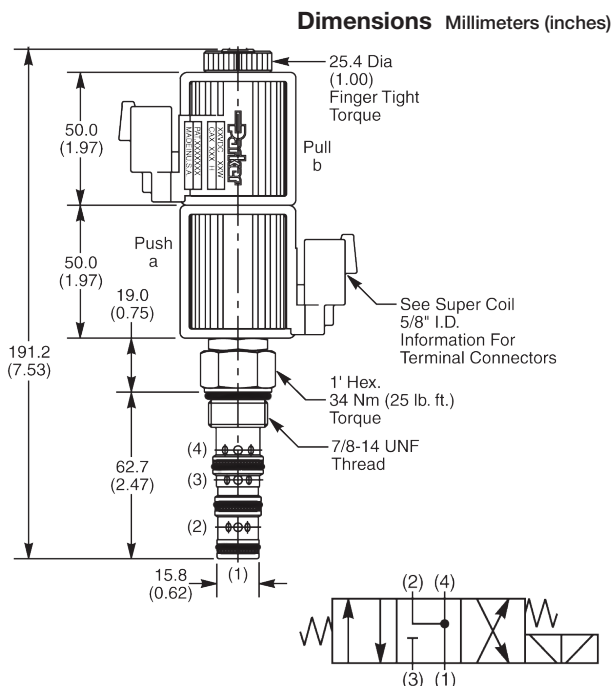
BC

Bodies &
Cavities

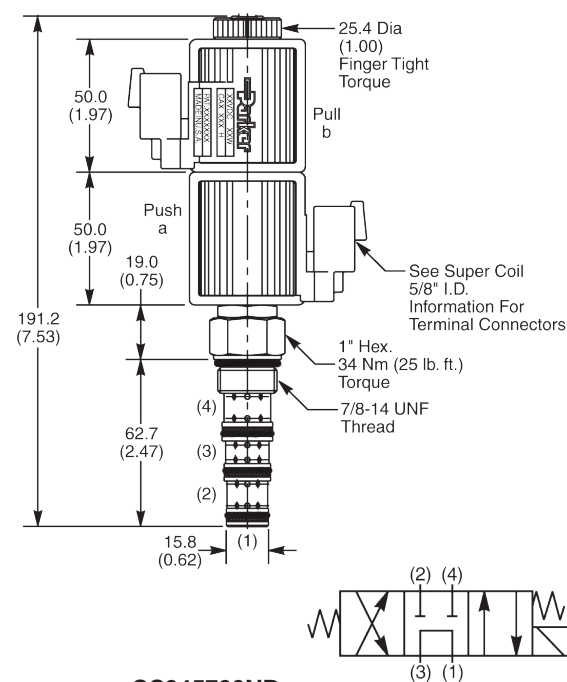
4 Way 3 Position Spool



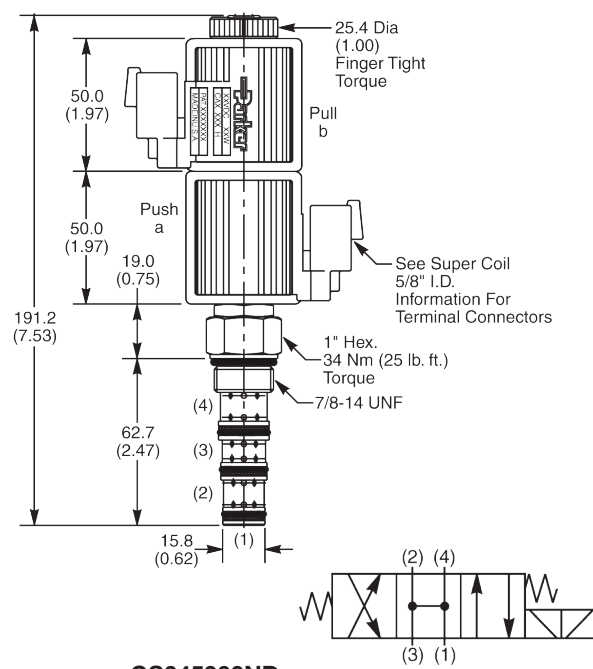
GS045200ND



GS045400ND



GS045700ND

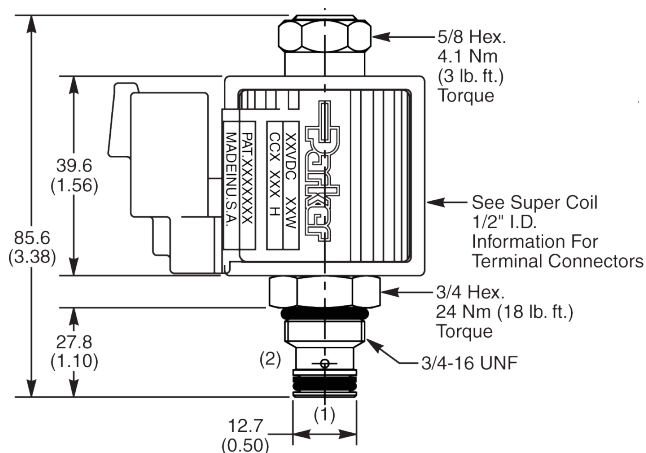


GS045900ND

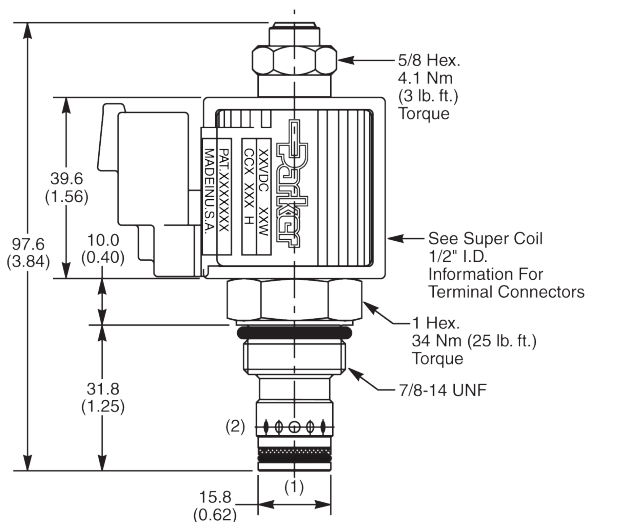
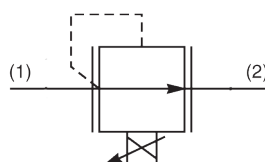
Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
GS045200ND	B10-4-8B	350	CA	42	- Double acting cylinder and bi-directional motor application. - Use with 2 pcs CA type coil
GS045400ND	B10-4-8B	350	CA	42	
GS045700ND	B10-4-8B	350	CA	42	
GS045900ND	B10-4-8B	350	CA	42	

Pressure Relieving

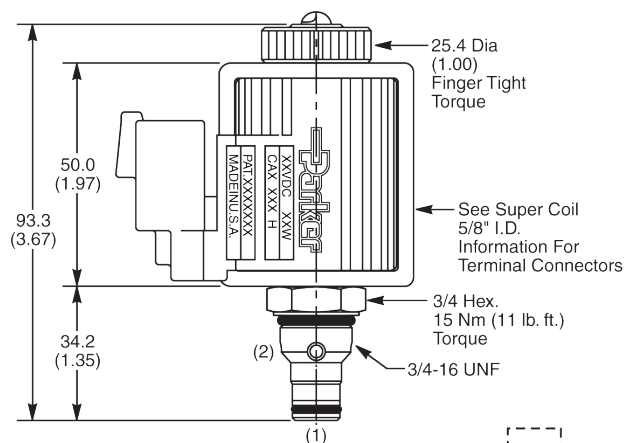
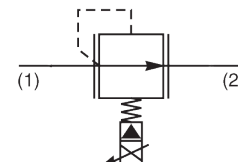
Dimensions Millimeters (inches)



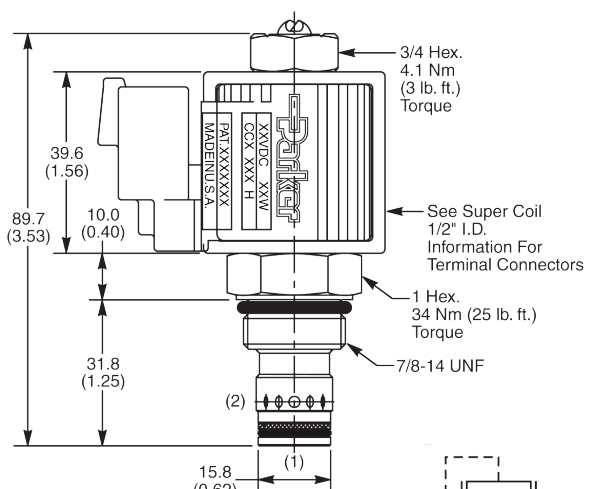
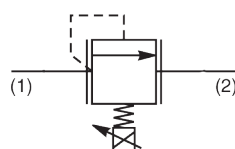
AP02B2YP35C



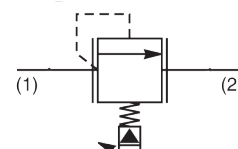
AP04G2YP35C



AP02B2YR35AL



AP04G2YR35C



Series	Body	Max Inlet Pressure (bar)	Valve Type (De-energised condition)	Flow Capacity (l/min)	Coil Type	Features
AP02B2YP35C	B08-2-6B	350	Open	1.3	CC	• Alternative pressure settings available upon request.
AP04G2YP35C	B10-2-8B	350	Open	95	CC	
AP02B2YR35AL	B08-2-6B	350	Closed	1.9	CA	
AP04G2YR35C	B10-2-8B	350	Closed	95	CC	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

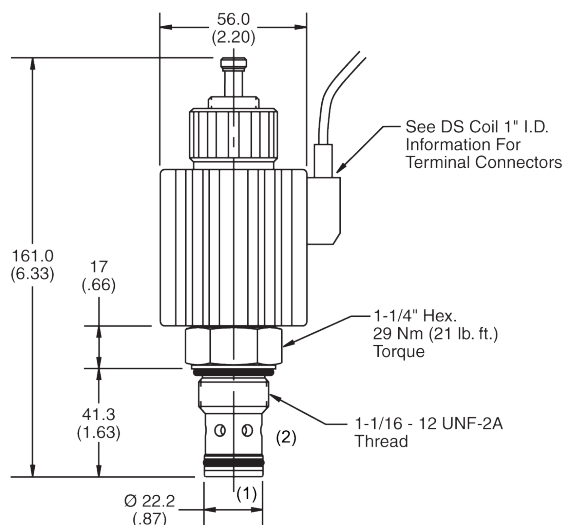
Coils &
Electronics

BC

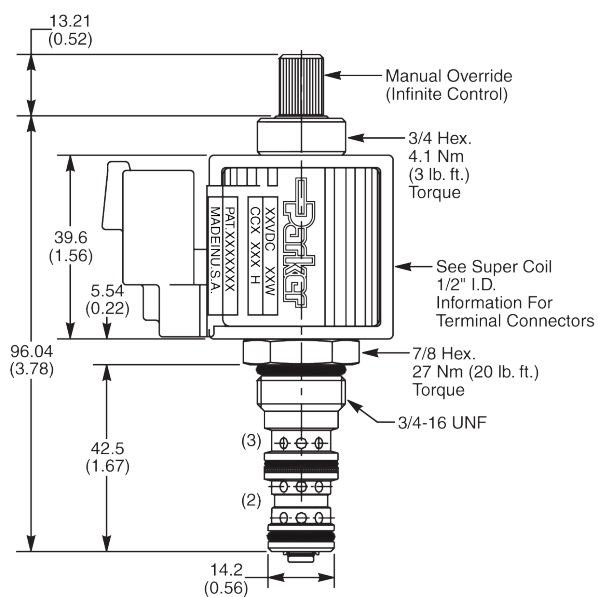
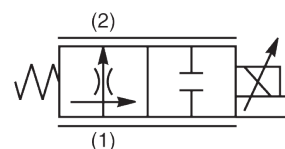
Bodies &
Cavities

Normally Open Flow Control

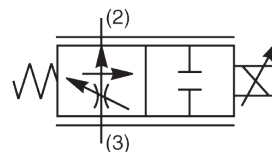
Dimensions Millimeters (inches)



DF122N14



JP02P2100N



Series	Body	Max Inlet Pressure (bar)	Flow Rating (l/min)	Coil Type
DF122N14	B12-2-12B	210	53	1" Series
JP02P2100N	B08-3-6B	210	19	CC

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

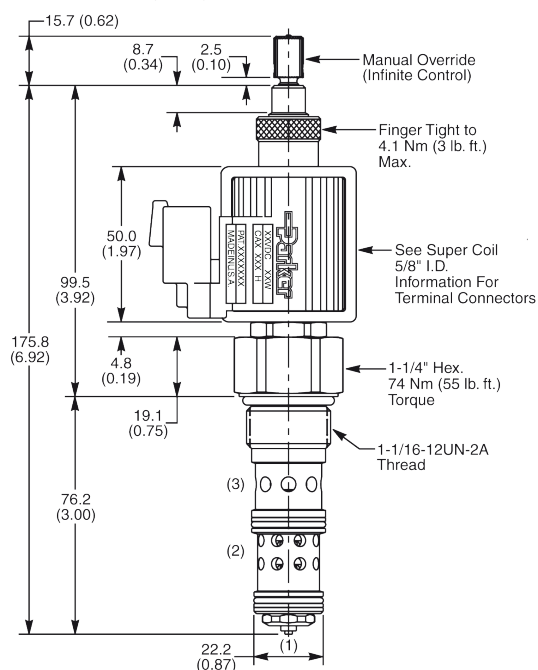
CE

Coils &
Electronics

BC

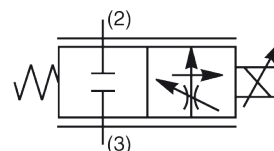
Bodies &
Cavities

2 Way Flow Controls

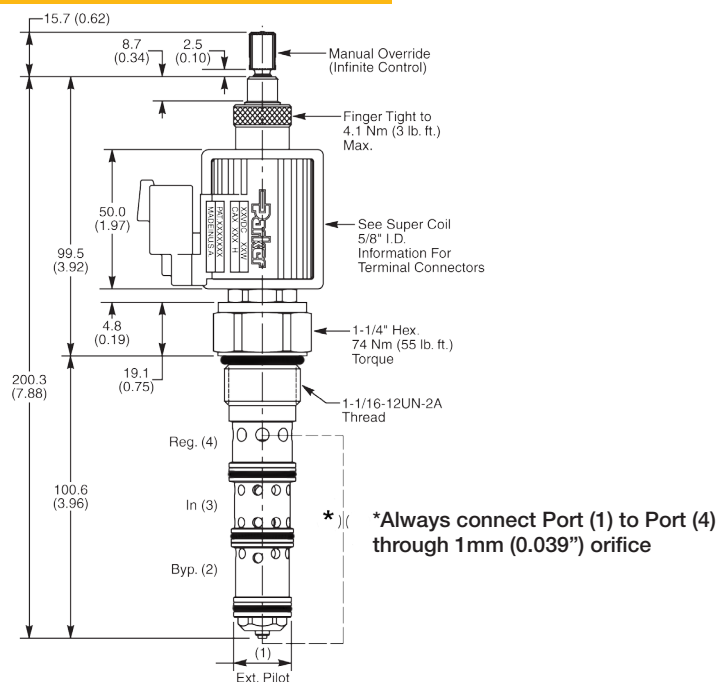


DFA125C21

Dimensions Millimeters (inches)

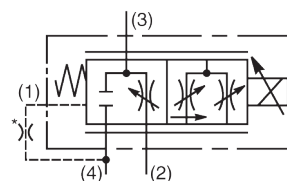


3 Way Flow Controls



DFA125C31

Dimensions Millimeters (inches)



Series	Body	Max Inlet Pressure (bar)	Input Flow Capacity (l/min)	Output Flow Capacity (l/min)	Coil Type	Features
DFA125C21	B12-3L-12T	210	75	56.8	CA	• Pressure compensated on all ports
DFA125C31	B12-4L-12T	210	75	56.8	CA	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

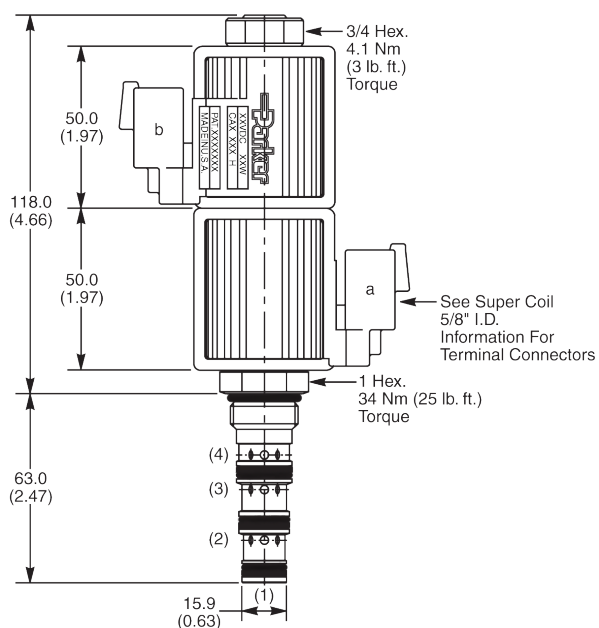
CE

Coils &
Electronics

BC

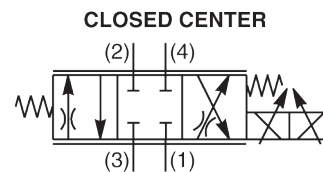
Bodies &
Cavities

4 Way Directional Controls

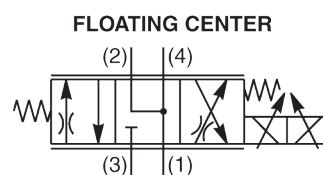


DSP105C1 / DSP105C4

Dimensions Millimeters (inches)



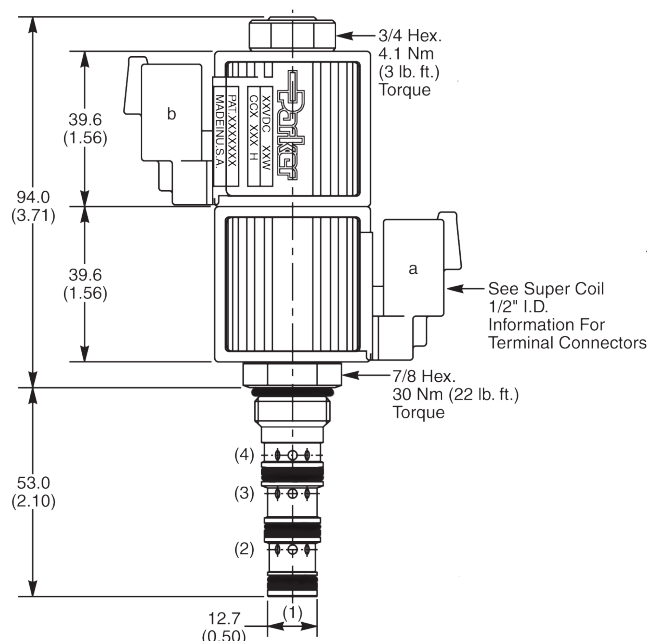
DSP105C1



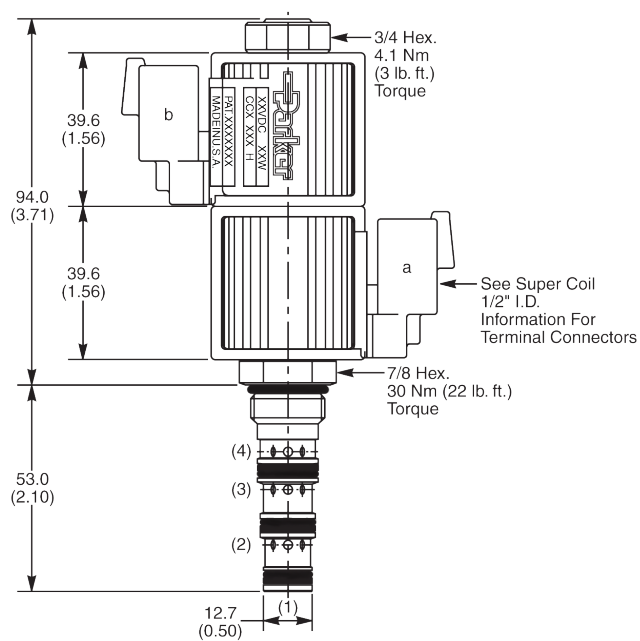
DSP105C4

Series	Body	Max Tank Pressure (bar)	Max Inlet Pressure (bar)	Flow Rating (l/min)	Coil Type	Features
DSP105C1	B10-4-8B	210	350	32	CA	• Pressure compensated on all ports
DSP105C4	B10-4-8B	210	350	32	CA	

4 Way

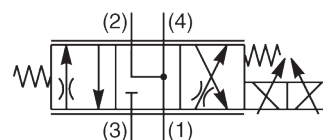
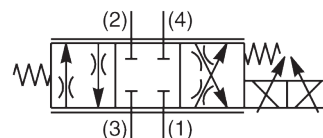


GP025100N



GP025300N

Dimensions Millimeters (inches)



Series	Body	Max Tank Line Pressure (bar)	Max Inlet Pressure (bar)	Flow Rating (l/min)	Coil Type	Features
GP025100N	B08-4-6B	210	350	17	CC	• Can be used with a separate compensator.
GP025300N	B08-4-6B	210	350	15	CC	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

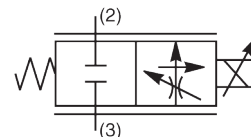
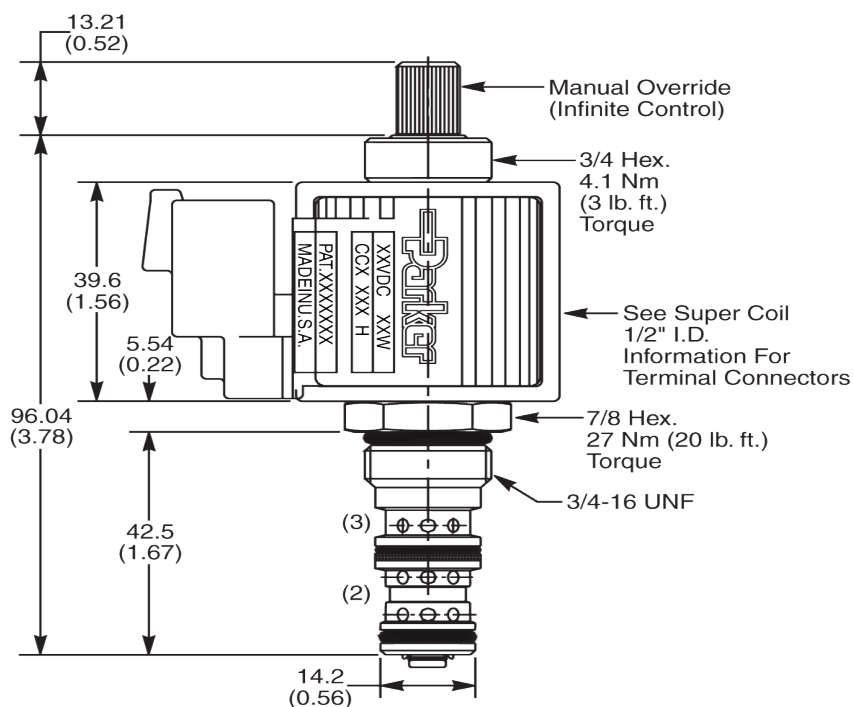
Coils &
Electronics

BC

Bodies &
Cavities

Normally Closed Flow Control

Dimensions Millimeters (inches)

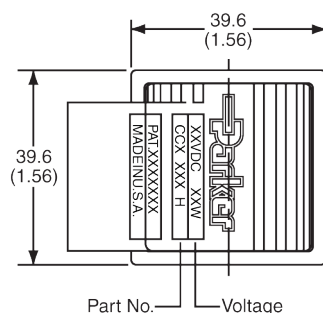
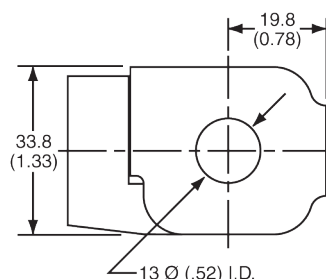


JP02C2100N

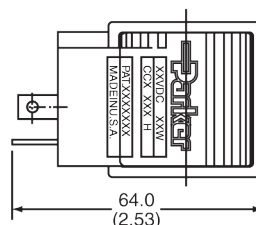
Series	Body	Max Inlet Pressure (bar)	Coil Type	Flow Rating (l/min)	Features
JP02C2100N	B08-3-6B	210	CC	23	Non-magnetic spool and housing assembly.

CC Type

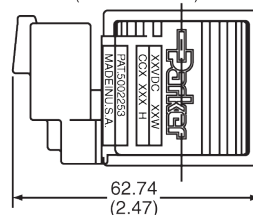
Dimensions Millimeters (inches)



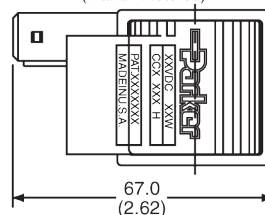
D - DIN 43650
(ground wire on AC only)



H - Integral Deutsch
DT04 - 2P - EP04
HE - Integral Deutsch
with 3 Amp Diode
(+ and - metered)



A - Amp Junior
AD - Amp Junior
with 3 Amp Diode
(+ and - metered)



Series	Termination	Watts	Volts	Amps	Ohms	Features
CCP012D	DIN 43650 DC	19	12VDC	1.58	7.58	• 1/2" tube diameter
CCP024D	DIN 43650 DC	19	24VDC	0.79	30.30	
CCP012A	AMP Jr	19	12VDC	1.58	7.58	
CCP024A	AMP Jr	19	24VDC	0.79	30.30	
CCP012H	Integral Deutsch	19	12VDC	1.58	7.58	
CCP024H	Integral Deutsch	19	24VDC	0.79	30.30	
CCP230D	DIN 43650 AC	22	230VAC	0.12	1919	

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

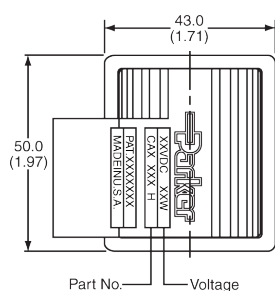
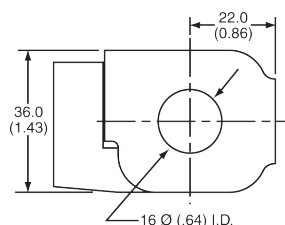
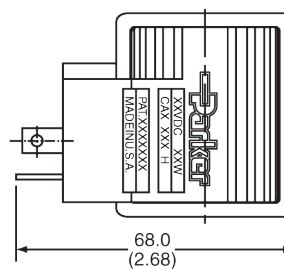
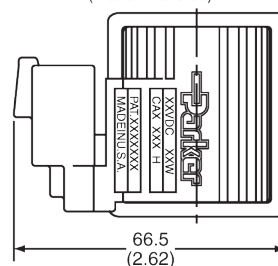
Coils &
Electronics

BC

Bodies &
Cavities

CA Type

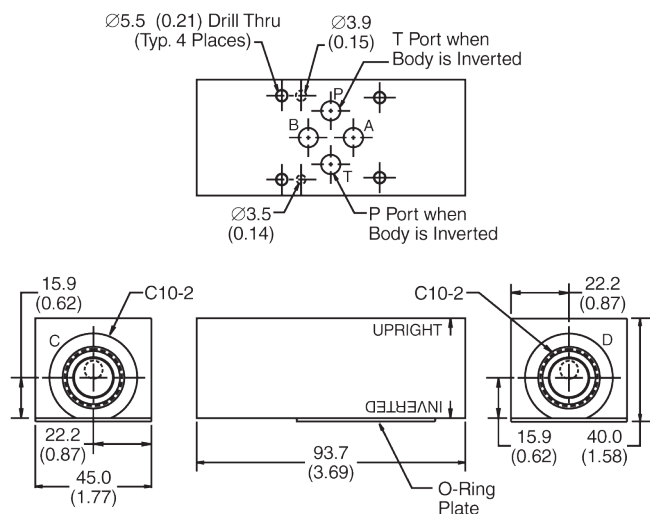
Dimensions Millimeters (inches)

D - DIN 43650
(ground wire on AC only)H - Integral Deutsch
DT04 - 2P - EP04
HE - Integral Deutsch
with 3 Amp Diode
(+ and - metered)

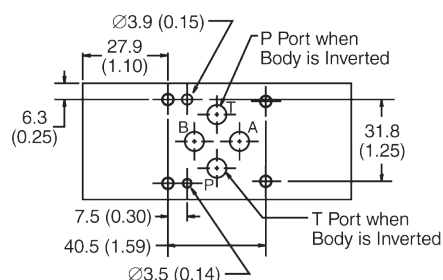
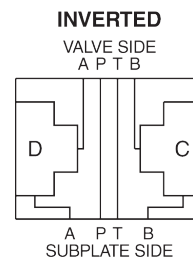
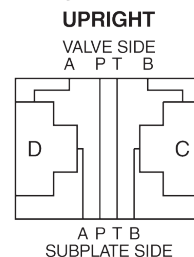
Series	Termination	Watts	Volts	Amps	Ohms	Features
CAP012D	DIN 43650 DC	28	12VDC	2.33	5.14	• 5/8" tube diameter
CAP024D	DIN 43650 DC	28	24VDC	1.17	20.6	
CAP012H	Integral Deutsch	28	12VDC	2.33	5.14	
CAP024H	Integral Deutsch	28	24VDC	1.17	20.6	
CAP230D	DIN 43650 AC	28	230VAC	0.15	1430	

CETOP 3, Cartpak

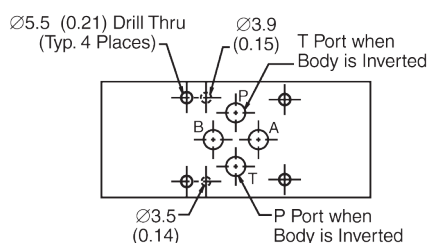
Dimensions Millimeters (inches)



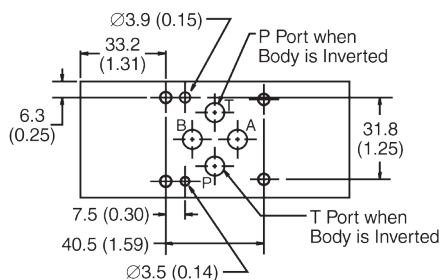
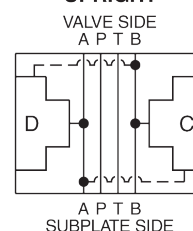
Body Schematic



BD03-ABN-A



UPRIGHT



BD03-ABX-A

Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-ABN-A	210	Aluminium	• Meter in meter out flow control.

Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-ABX-A	210	Aluminium	• Cross line relief valve.

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

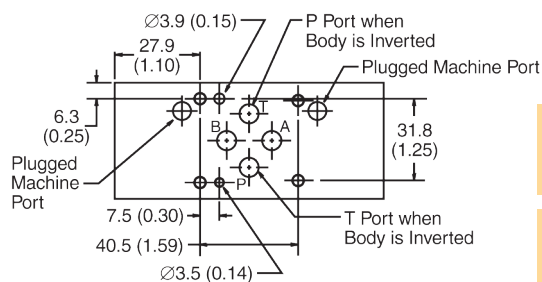
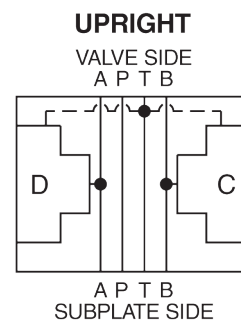
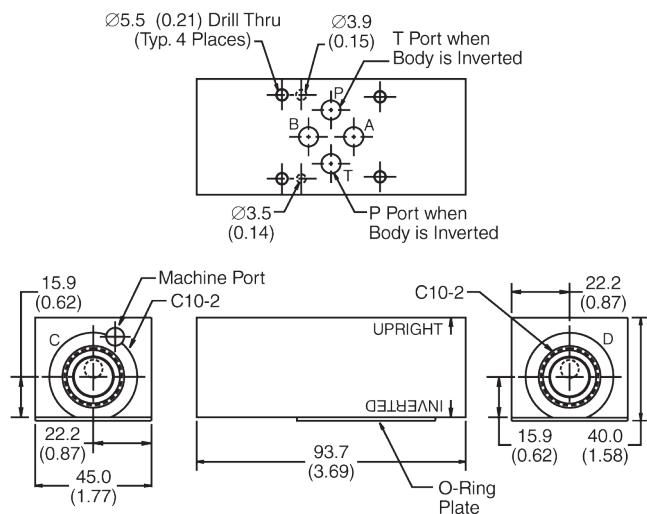
Coils &
Electronics

BC

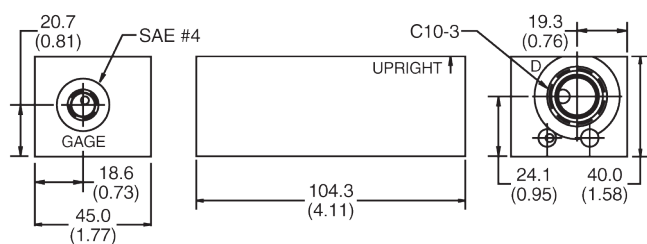
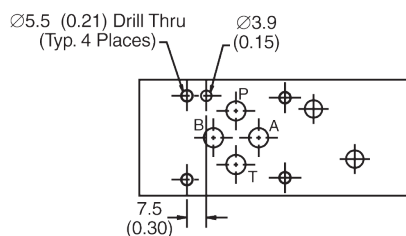
Bodies &
Cavities

CETOP 3, Cartpak

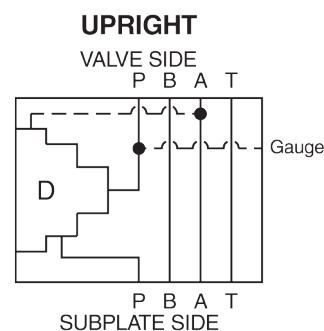
Dimensions Millimeters (inches)



BD03-ABT-A



BD03-BDA-A

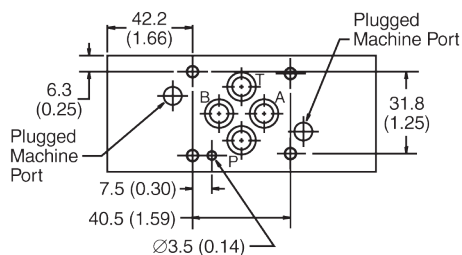
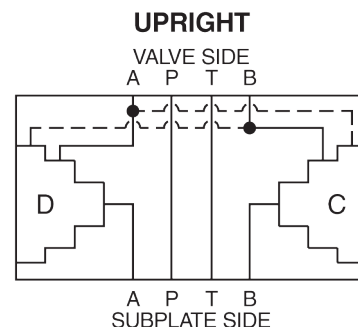
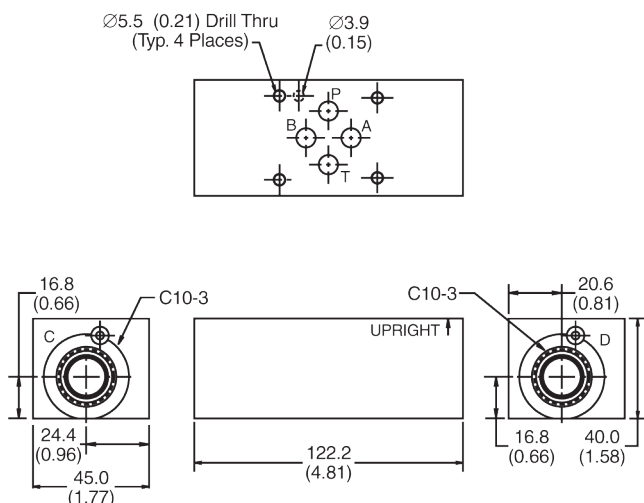


Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-ABT-A	210	Aluminium	A or B relief valves or make up check valves.

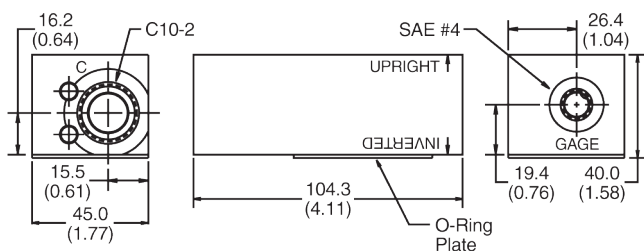
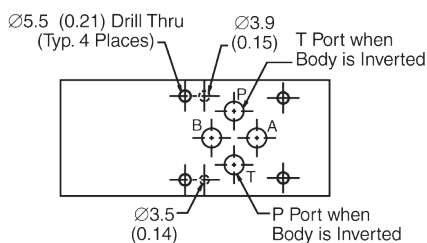
Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-BDA-A	210	Aluminium	P line pressure regulation.

CETOP 3, Cartpak

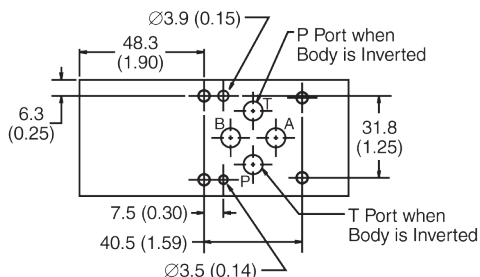
Dimensions Millimeters (inches)



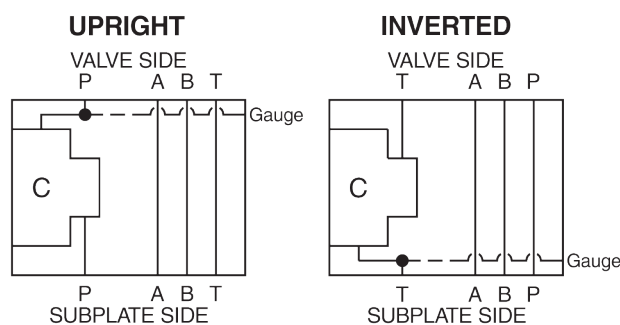
BD03-DDX-A



BD03-PN-A



Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-DDX-A	210	Aluminium	A & B port pressure regulating or dual counterbalance valve.



Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-PN-A	210	Aluminium	P line check valve or flow regulator.

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

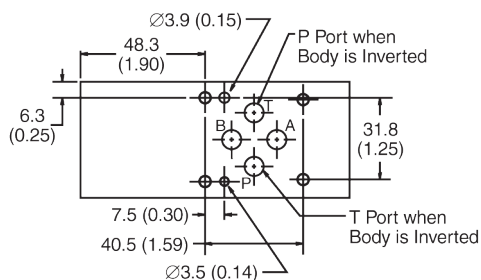
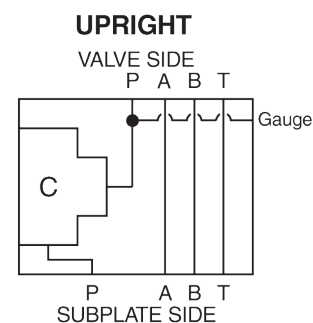
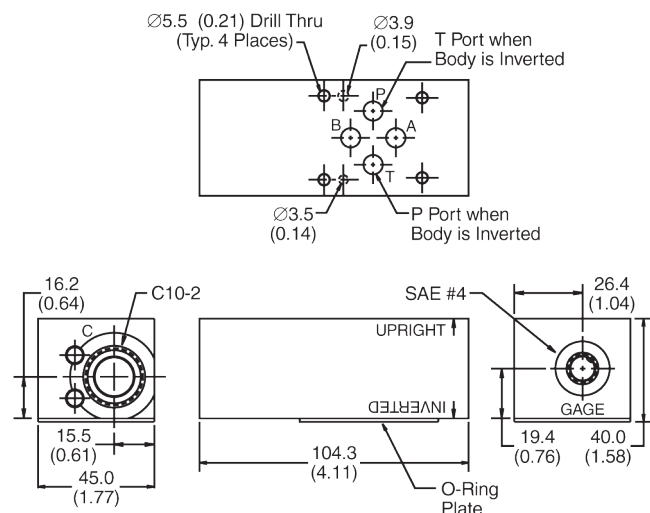
Coils &
Electronics

BC

Bodies &
Cavities

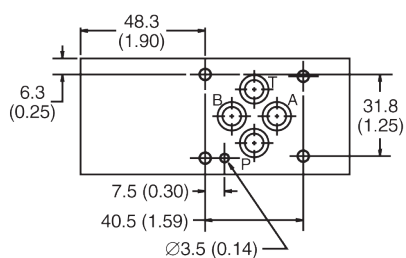
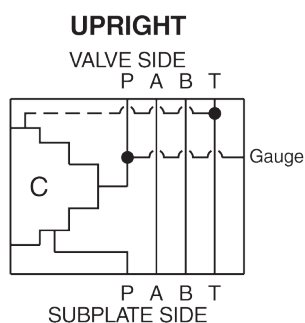
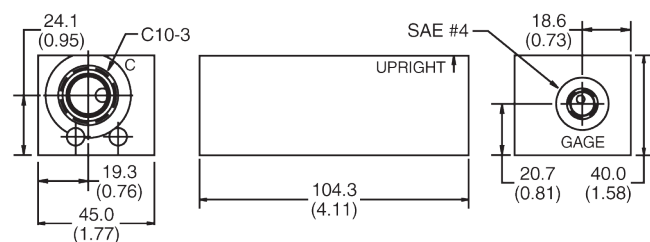
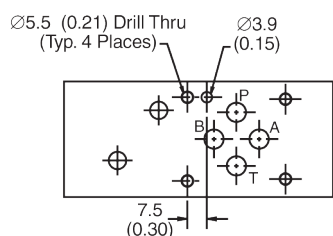
CETOP 3, Cartpak

Dimensions Millimeters (inches)



BD03-PN2-A

Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-PN2-A	210	Aluminium	• P line needle valve

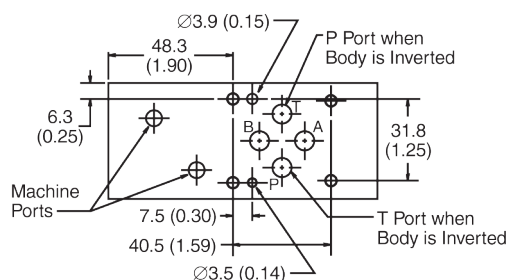
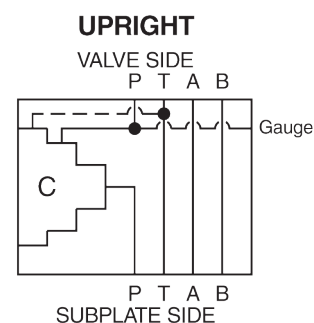
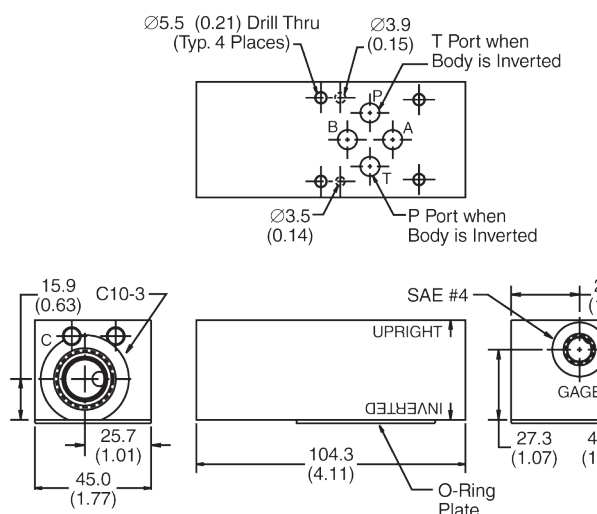


BD03-PNR-A

Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-PNR-A	210	Aluminium	• P line pressure regulator.

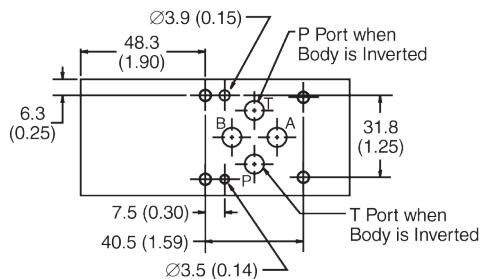
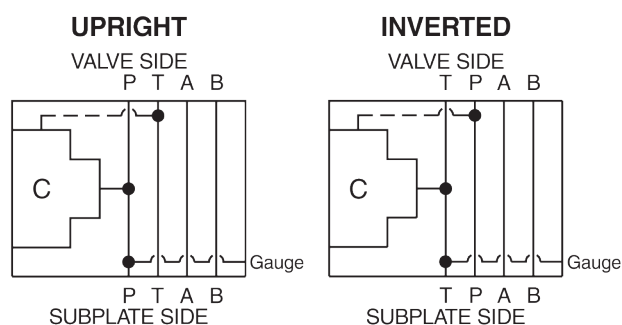
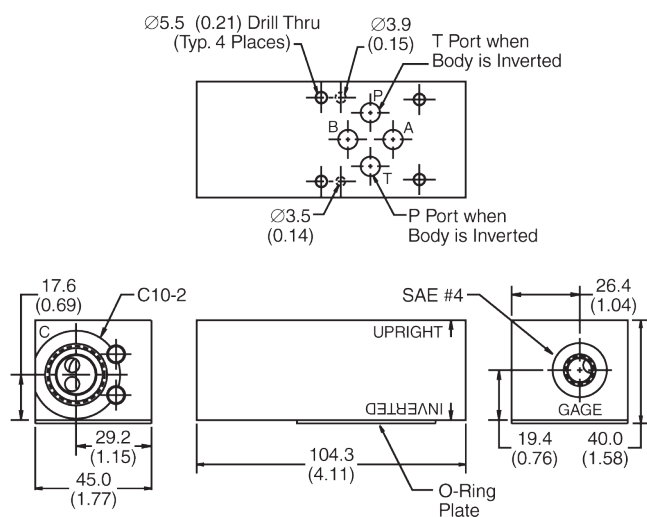
CETOP 3, Cartpak

Dimensions Millimeters (inches)



BD03-PNS-A

Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-PNS-A	210	Aluminium	• P line sequence valve.



BD03-PT-A

Series	Pressure Rating (bar)	Body Material	Typical Usage
BD03-PT-A	210	Aluminium	• P - T relief valve.

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

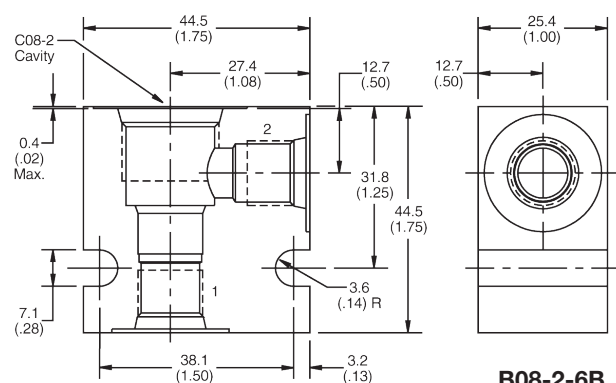
CE

Coils &
Electronics

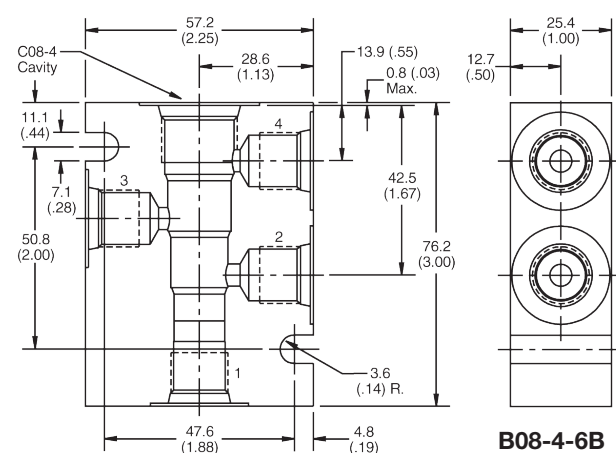
BC

Bodies &
Cavities

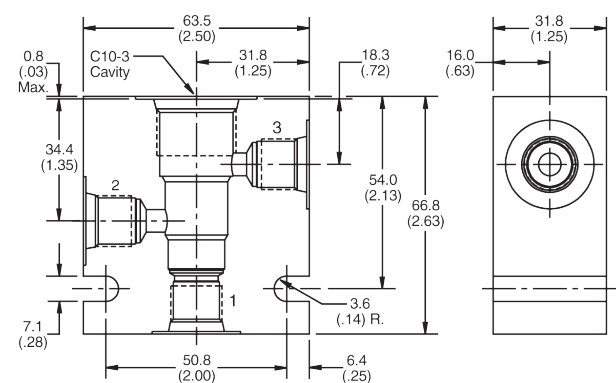
Standard, Steel



B08-2-6B

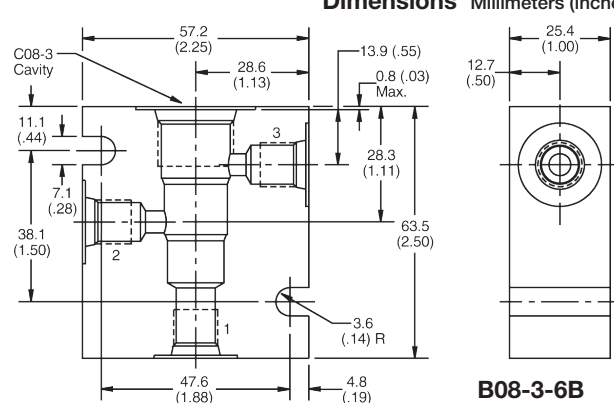


B08-4-6B

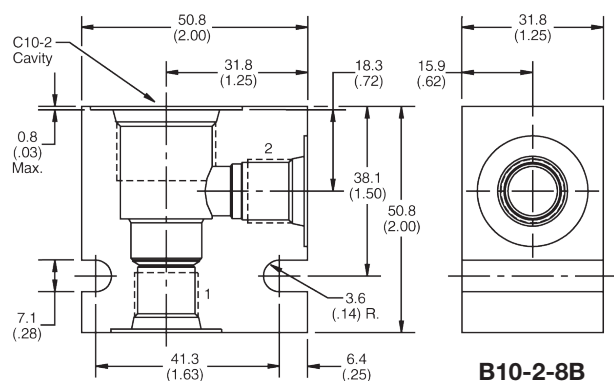


B10-3-8B

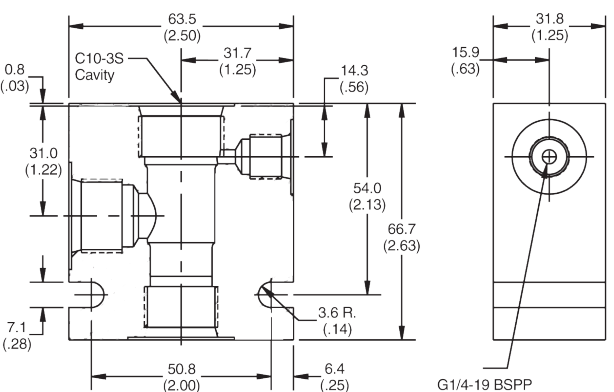
Dimensions Millimeters (inches)



B08-3-6B



B10-2-8B



G1/4-19 BSPP

B10-3S-8B

Series	Cavity	Port Size	Porting	Body Material
B08-2-6B	C08-2	3/8 BSP	2 Way	Steel
B08-3-6B	C08-3	3/8 BSP	3 Way	Steel
B08-4-6B	C08-4	3/8 BSP	4 Way	Steel
B10-2-8B	C10-2	1/2 BSP	2 Way	Steel
B10-3-8B	C10-3	1/2 BSP	3 Way	Steel
B10-3S-8B	C10-3S	1/4 BSP	3 Way short	Steel

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

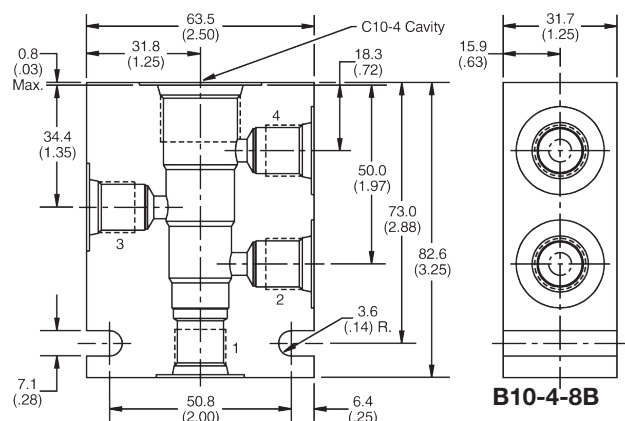
CE

Coils &
Electronics

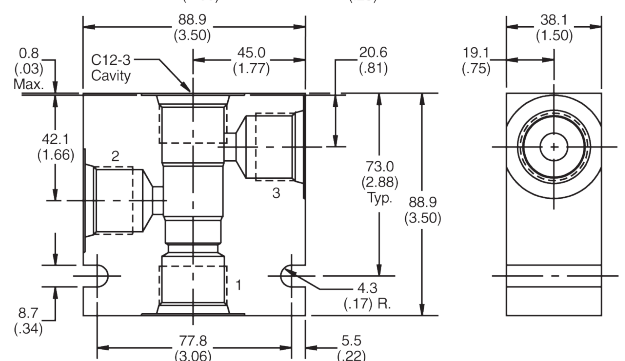
BC

Bodies &
Cavities

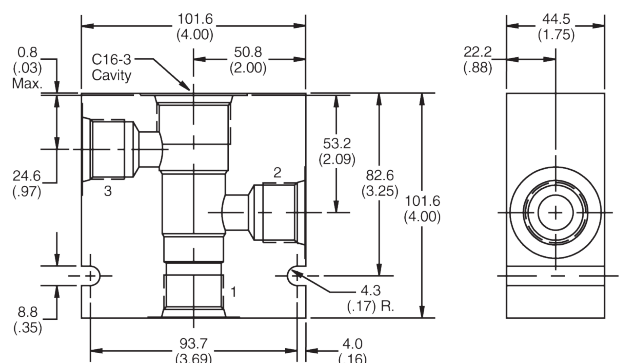
Standard, Steel



B10-4-8B

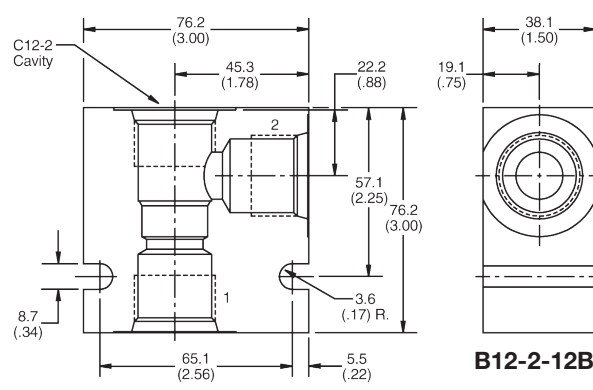


B12-3-12B

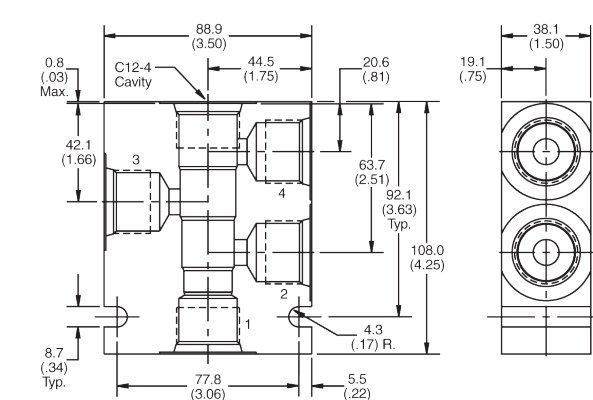


B16-2-16B

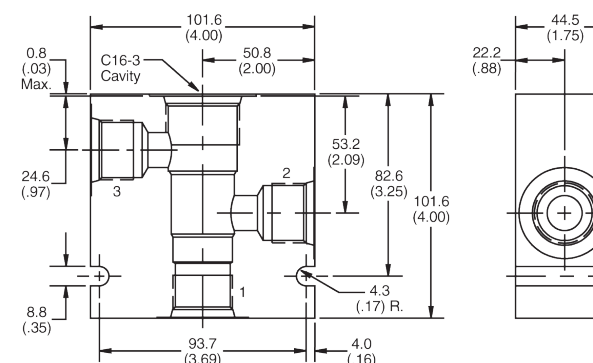
Dimensions Millimeters (inches)



B12-2-12B



B12-4-12B



B16-3-16B

Series	Cavity	Port Size	Porting	Body Material
B10-4-8B	C10-4	1/2 BSP	4 Way	Steel
B12-2-12B	C12-2	3/4 BSP	2 Way	Steel
B12-3-12B	C12-3	3/4 BSP	3 Way	Steel
B12-4-12B	C12-4	3/4 BSP	4 Way	Steel
B16-2-16B	C16-2	1 BSP	2 Way	Steel
B16-3-16B	C16-3	1 BSP	3 Way	Steel

CV

Check
Valves

SV

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

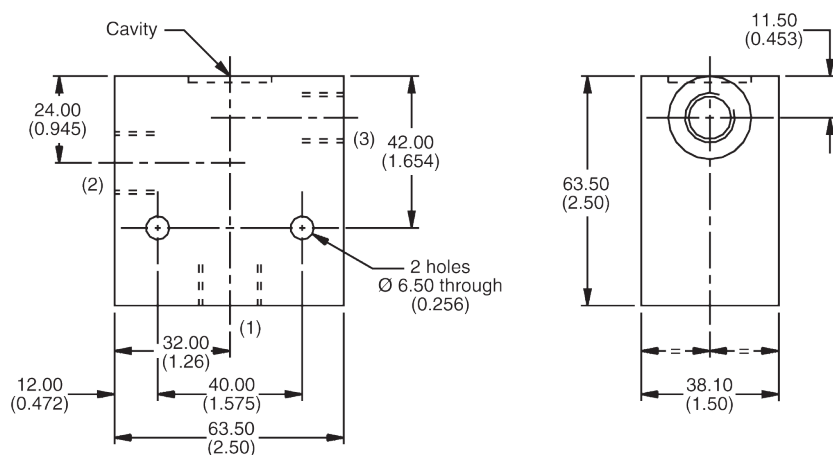
Coils &
Electronics

BC

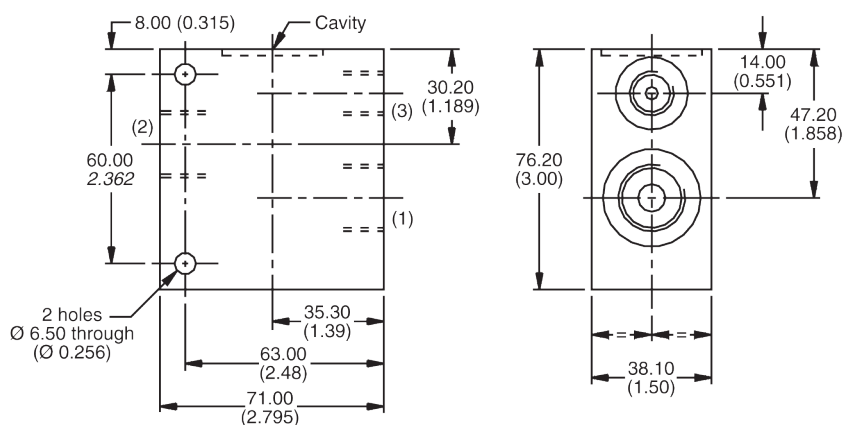
Bodies &
Cavities

Load Control

Dimensions Millimeters (inches)



LB10310S

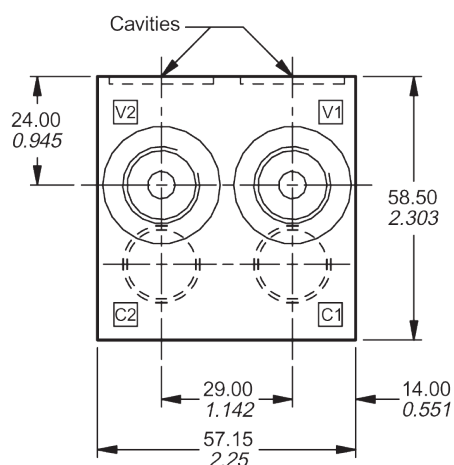


LB10251S

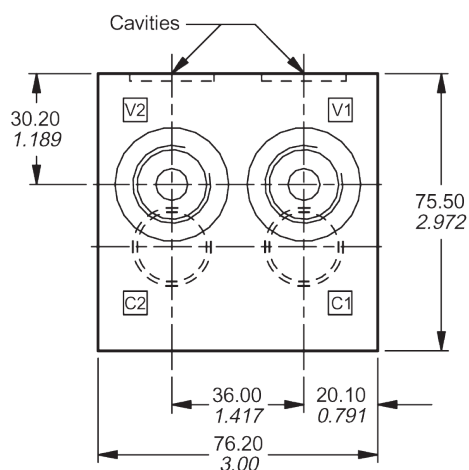
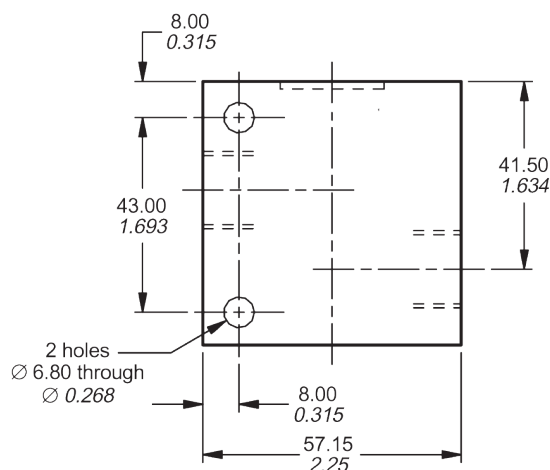
Series	Cavity	Porting	Main	Aux	Features
LB10310S	53-1	3 Way	3/8 BSP	1/4 BSP	Use with either E*B020 or D4A020 Load Control Cartridge.
LB10251S	68-1	3 Way	1/2 BSP	1/4 BSP	Use with either E2B040 or E6B040

Load Control - Dual

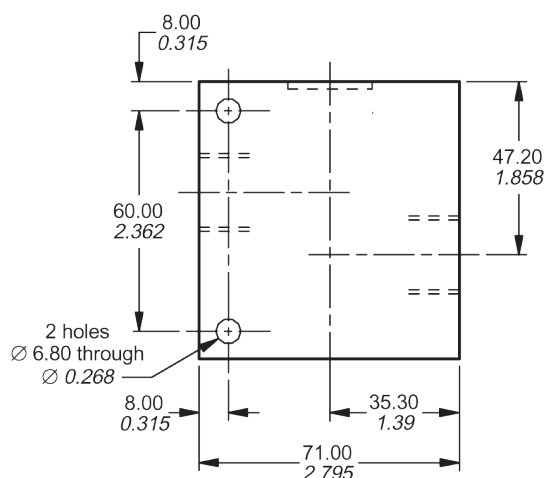
Dimensions Millimeters (inches)



LB10312S



LB10259S



Series	Cavity	Porting	Main	Aux	Features
LB10312S	53-1	4 Way Dual	3/8 BSP	1/4 BSP	Use with either 2 pcs E2B020 or 2 pcs E6B020
LB10259S	68-1	4 Way Dual	3/8 BSP	-----	Use with either 2 pcs E2B040 or 2 pcs E6B040

CV

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Valves

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Valves

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Controls

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Controls

PC

Pressure
Controls

LE

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Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

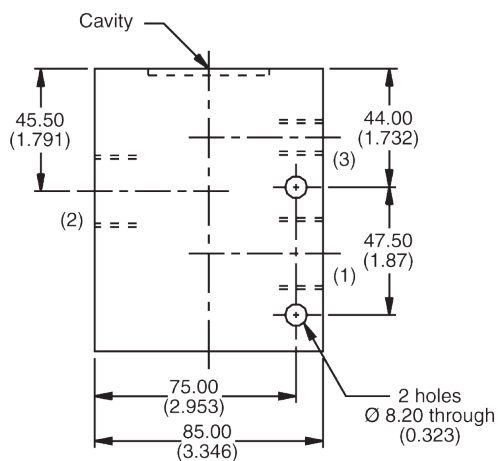
Coils &
Electronics

BC

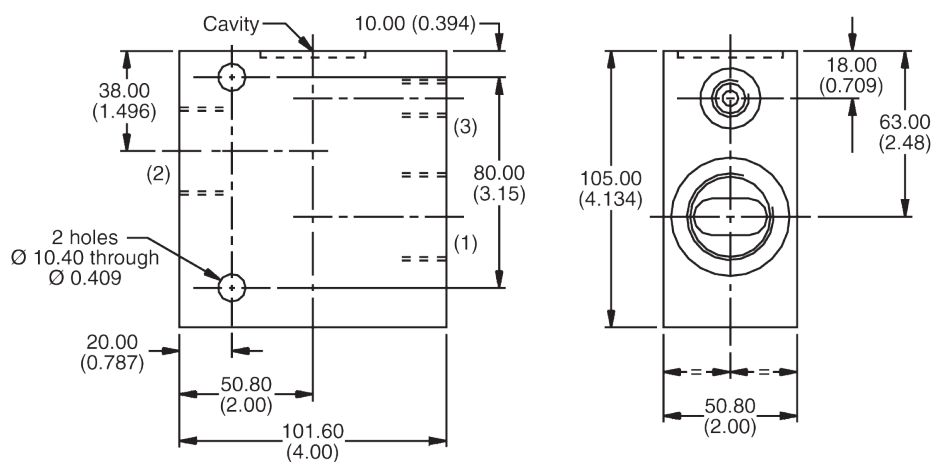
Bodies &
Cavities

Load Control

Dimensions Millimeters (inches)



LB10039S

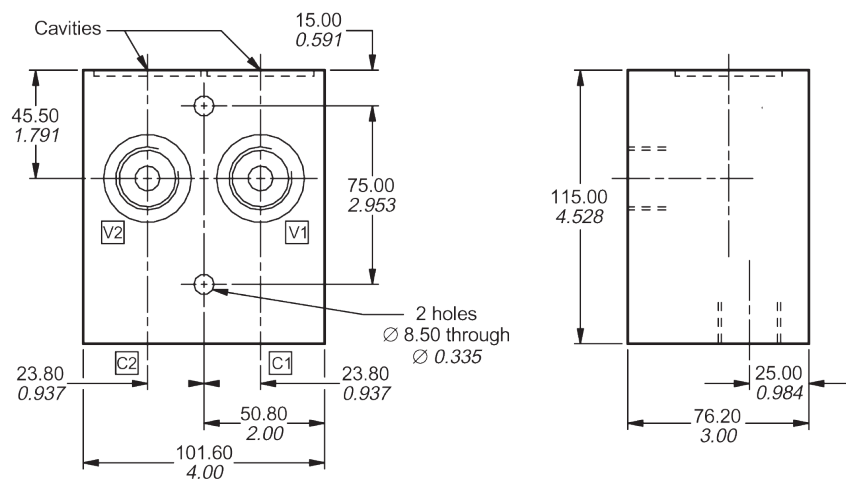


LB10076S

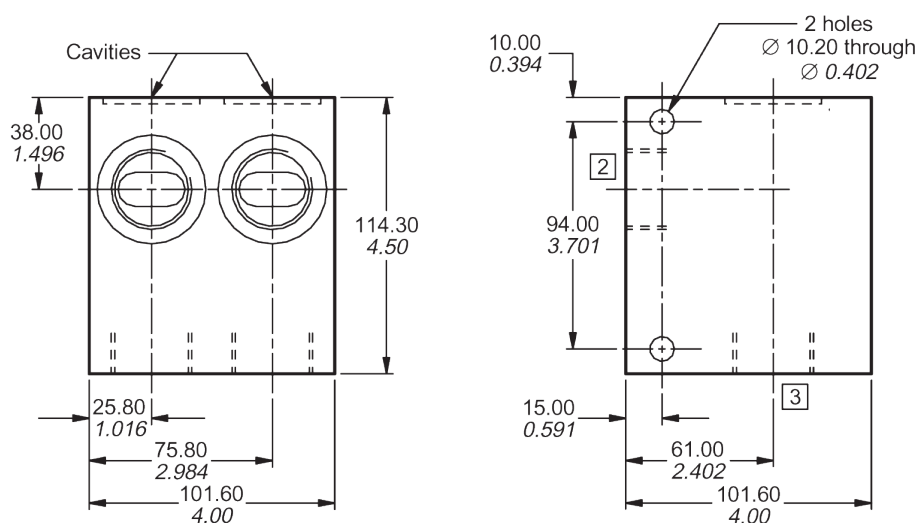
Series	Cavity	Porting	Main	Aux	Features
LB10039S	3C	3 Way	3/4 BSP	1/4 BSP	Use with either E2B060 or E6B060 Load Control Cartridge.
LB10076S	3M	3 Way	1 BSP	1/4 BSP	Use with E2E125 Load Control Cartridge.

Load Control - Dual

Dimensions Millimeters (inches)



LB10034S



LB10104S

Series	Cavity	Porting	Main	Aux	Features
LB10034S	3C	4 Way	3/4 BSP	-----	Use with either 2 pcs E2B060 or 2 pcs E6B060 Load Control Cartridge.
LB10104S	3M	4 Way Dual	1 BSP	-----	Use with 2 pcs E2F125 Load Control Cartridge.

CV

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PC

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Controls

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Elements

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Directional
Controls

SV

Solenoid
Valves

PV

Proportional
Valves

CE

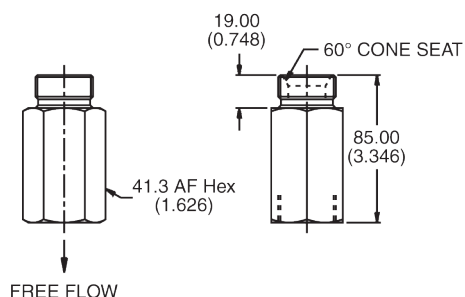
Coils &
Electronics

BC

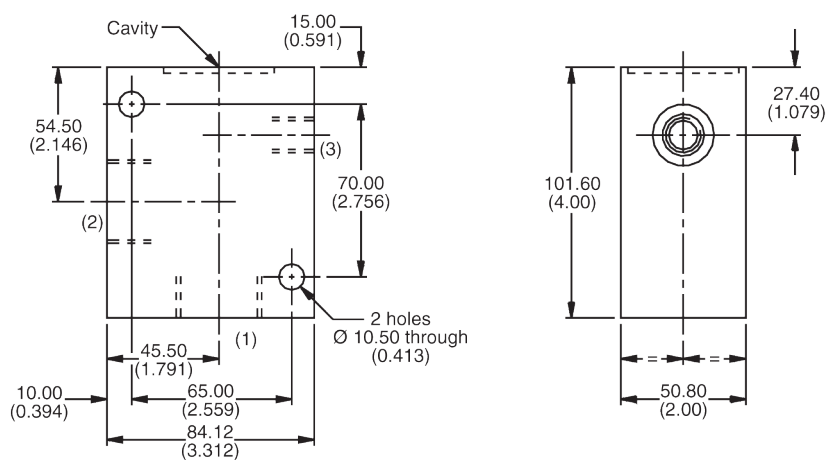
Bodies &
Cavities

Steel Special Type

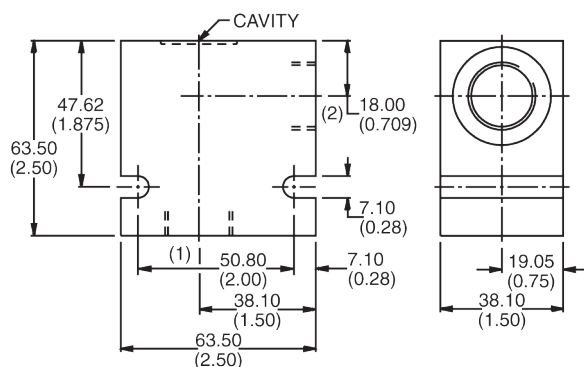
Dimensions Millimeters (inches)



LB10210S



LB10056S



LB10545S

Series	Cavity	Porting	Main	Aux	Features
LB10210S	2C	2 Way	1 BSP	-----	• Use with D1B125 Check Valve Insert.
LB10056S	3A	3 Way	1 BSP	1/4 BSP	• Use with J1A125 Flow Control Valve.
LB10545S	2R	2 Way	1/2 BSP 3/4 SAE	1/4 BSP	• Use with bi-directional Solenoid Valves.

CV

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Controls

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Valves

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Valves

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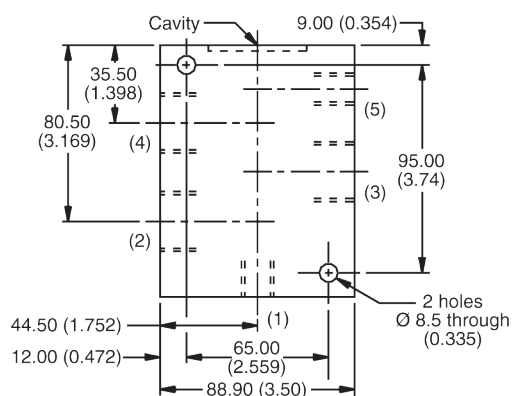
Coils &
Electronics

BC

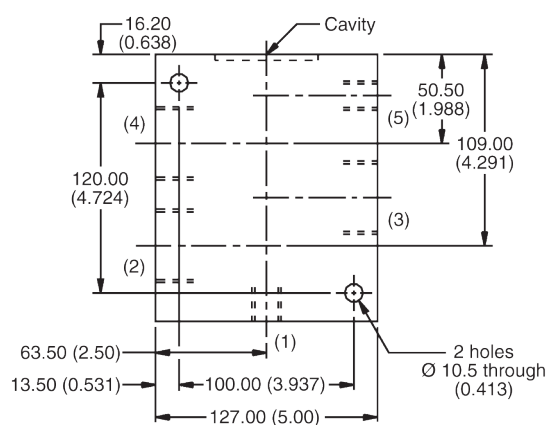
Bodies &
Cavities

Steel Special Type

Dimensions Millimeters (inches)



LB10314S



LB10316S

Series	Cavity	Porting	Main	Aux	Features
LB10314S	5A	5 Way	3/4 BSP 3/4 SAE	1/4 BSP 1/4 SAE	• Use with N5A125 Directional Control Valve.
LB10316S	100-1	5 Way	1 1/4 BSP 1 1/4 SAE	3/8 BSP 3/8 SAE	• Use with N5A300 Directional Control Valve.

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